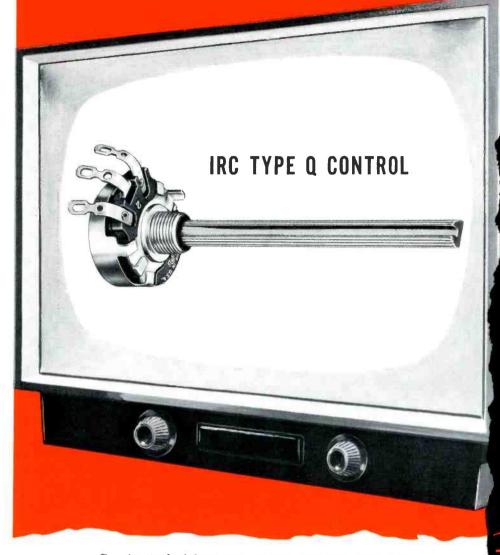
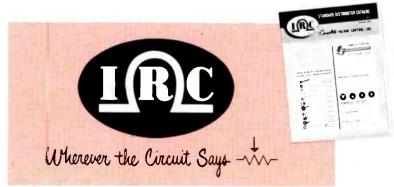


Preferred for modern set servicing



Service technicians get greater coverage with less investment; more practical service features; and easier, faster installation with the IRC Type Q Control. Here's a dependable, basic control that is directly designed for modern set servicing. For appearance, performance and price... there's none better. So why settle for less? Tell your Distributor you want Q Controls . . . most servicemen do.



5

KNOBMASTER FIXED SHAFT Q Control standard shaft is knurled, flatted and slotted —fits most knobs without alteration.

1-1-----

INTERCHANGEABLE FIXED SHAFTS Exclusive IRC convenience feature—provides fast conversion to "specials", with FIXED shaft security. 15 types available.

-

1/4" LONG BUSHING Accommodates all small sets, yet handles large set needs perfectly.

6

7 STANDARD TAPERS

Full coverage of all taper requirements is provided in the Q Control.



94 RESISTANCE VALUES

For TV, AM and FM coverage, 94 values of plain and tapped controls are furnished.

QUALITY APPEARANCE

The handsome professional appearance of IRC Q Controls lets you point to your work with pride.

CUSHIONED TURN

The smooth, quality of "feel" of a Q Control contributes to customer confidence.



TYPE 76 SWITCHES

Either of two type IRC switches attached as quickly and easily as a control cover—meets all your requirements.

This 8 page catalog gives you all the facts... Send for your free copy now-

INTERNATIONAL RESISTANCE CO.

Dept. 363, 401 N. Broad St., Phila. 8, Pa. In Canada: International Resistance Co., Ltd., Toronto, Licensee JAMES R. RONK Editor

LESTER H. NELSON Managing Editor

W. WILLIAM HENSLER Technical Editor

GLEN E. SLUTZ Asst. Technical Editor

Editorial Staff GWEN BIGHAM WILLIAM E. BURKE HENRY A. CARTER LESLIE D. DEANE ROBERT B. DUNHAM PHYLLIS J. HURLEY THOMAS A. LESH GEORGE B. MANN GLENNA M. MCROAN EVELYN S. MOUSER MARGARET NEFF C. P. OLIPHANT VERNE M. RAY PAUL C. SMITH CALVIN C. YOUNG, JR.

ANTHONY M. ANDREONE GLENN R. SMITH Art Directors

> ROBERT W. REED Photography

ARCHIE E. CUTSHALL DOUGLAS G. BOLT Production

*

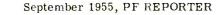
HOWARD W. SAMS Publisher

Business Department: Donald B. Shaw, V. P. Treasurer F. T. Dobbs, Secretary Joe H. Morin, Sales Mgr. Ann W. Jones, Advertising

> Eastern Representatives Paul S. Weil and Donald C. Weil 39-01 Main Street, Flushing 54, New York Independence 3-9098

Western Representatives Maurice A. Kimball Co., Inc. 2550 Beverly Blvd. Los Angeles 57, Cal. DUnkirk 8-6178

> 681 Market St. San Francisco 5, Cal. EXbrook 2-3365





VOL. 5 · NO. 9

SEPTEMBER · 1955

CONTENTS

Antennas—the Eyes of TV Receivers	J.		s.	Ш	. George B. Mann	5
Color TV Training Series (Part XVI)	•			1	. C. P. Oliphant and Verne M. Ray	
Shop Talk		× .			. Milton S. Kiver	11
Diagrams for Setting Up Test Equipment			÷		. Paul C. Smith	13
In the Interest of Quicker Servicing				÷.	Calvin C. Young, Jr.	17
Notes on Test Equipment					. Paul C. Smith	19
Audio Facts					. Robert B. Dunham	21
The Triode Phase Detector	-				. Thomas A. Lesh	23
Examining Design Features					Leslie D. Deane	25
Troubles in Video IF and Detector System	ns	•		ł.	Leslie D. Deane and Calvin C. Young, Jr.	29
Dollar and Sense Servicing					. John Markus	33
PHOTOFACT Cumulative Index No. 52 C	Cov	erir	ng F	Pho	tofact	87
Sets Nos. 1-289 Inclusive						

SUBJECT REFERENCE

ANTENNAS AND ACCESSORIES Comparisons Between Antennas and the Human Eye
AUDIO
Care and Handling of Records
COLOR TV
Loss of Color Synchronization
Reference Patterns for Trouble Shooting . 9
Troubles With Color Purity
Troubles With Convergence
GENERAL THEORY Triode Phase Detector, Operation of
RADIO
Raytheon Transistorized Radio (Chassis 8RT1). 25
SERVICING
Alignment Setup Diagrams
Gas in Picture Tubes, Quick Check for
Line-Voltage Variations

Replacing Tubes in the Tube Caddy	57
Routing Service Calls	57
Symptoms and Troubles in Video IF	
and Detector Systems	29
Ways to Improve Service	59
TELEVISION	
General Electric Model 21T17,	
Phase Detector in	78
Motorola Model 21T21E,	
Phase Detector in	23
TEST EQUIPMENT	
Authorized Model 101F Cathode-Ray	
Tube Tester and Rejuvenator.	70
Diagrams for Setting Up Test Equipment .	13
Hickok Model 770 Oscilloscope	71
Hycon Model 614 VTVM	69
Hycon Model 617 Oscilloscope	19
RCP Model 780 Sweep Generator	73
Raytronic Cathode Beamer,	
Gas Test With	75
Test Equipment for Rapid Checks	11

.

T 1

Copyright 1955 by Howard W. Sams & Co., Inc.

No part of the PF REPORTER may be reproduced without written permission. No patent liability is assumed with respect to the use of information contained herein.

The PF REPORTER is published monthly by Howard W. Sams & Co., Inc., 2201 East 46th Street, Indianapolis 5, Indiana. The PF REPORTER is on sale at 25¢ a copy at 1401 jobbers of Electronic Parts throughout the United States and Canada. (In Canada 30 cents.) When available, back numbers may be obtained by sending 35¢ for each copy desired. Entered as second class matter October 11, 1954, at the Post Office at Indianapolis, Indiana, under the Act of March 3, 1879.

SUBSCRIPTION DATA: For those desiring the convenience of delivery to their homes or shops, each issue of the REPORTER will be mailed direct, promptly upon publication. Rates: U.S. and its Possessions, one year \$3.00. Canadian subscriptions, one year \$3.60. All other countries \$12.00 per year in American money.

TV CAPACITOR SERVICING DATA For Every Manufacturer from A to Z FREE FROM SPRAGUE

These two pocket-size manuals are the hottest radio-TV servicing guides ever produced. Both contain the most complete—and the most up-todate—capacitor replacement information available ANYWHERE!

Keep them both handy and you'll never have to thrash around for the right capacitor replacement information. Sprague makes them all, Sprague lists them all, and Sprague distributors know them all—all to help you handle every capacitor job right every time.

What's more, you don't have to pay a red cent for these valuable, expensive-to-prepare, expensive to keep up-to-date manuals. You can get them both FREE from Sprague distributors located in every sales area in the United States. We'll be glad to send you the name of the one nearest you. Or, for 10c to cover postage and mailing, we'll gladly send you the manuals direct from Sprague Products Co., **105** Marshall St., N. Adams, Mass.

DON'T BE VAGUE...INSIST ON

SPRAGUE

WORLD'S LARGEST CAPACITOR MANUFACTURER

Sprague Products Co. is the Distributors' Division of the Sprague Electric Co.

SPRAGUET REPLACEMENT CAPACITOR MANUAL

7 +4

EDITION

SPRAGUE PRODUCTS COMPANY . North Adams, Massachusetts Distributors Division of the Spraque Electric (c.

FREE! TV REPLACEMENT CAPACITOR MANUAL K-101

Here is the latest capacitor replacement information for every capacitor ment information for every capacito, in 4,664 model TV sets made by 85 set manufacturers. Every manufacturer is listed alphabetically, with Sprague replacement capacitors-available everywhere-fully described and crossreferenced to the original part numbers. The manual also shows the number of models each capacitor is used in - a valuable guide for stocking popular ratings. Handy ... convenient Pocket size-for use in the shop or from your tool kit. Make sure you have the newest one. Ask your distributor for the 7th Edition

FREE! CERAMIC CAPACITOR REPLACEMENT MANUAL K-200

This handy little guide is the most informative, the most complete manual of its kind ever published. Pocketsize, like Sprague's TV replacement Capacitor Manual K-101, it lists every conceivable ceramic capacitor and printed circuit replacement ... for every television set made ... during the past five years. All told, more ceramic capacitor values than can be found in any other manufacturer's line, including discs and tubulars. And each capacitor or printed circuit listed is one you can depend on for a no-call-back replacement. Ask your distributor for it today. It's new! VOUR SPRAGUE DISTRIBUTOR

SPRACH EPLACEMENT CERAMIC CAPACITOR ANUAL



TV WIRE-WOUND CONTROLS thanks to the CLAROSTAT PD-1 PACKAGE

Here's a versatile assortment of wire-wound controls with a selection of the most popular Pick-A-Shaft field-attached shafts, packaged in an attractive, convenient, hinge-cover box. The PD-1 includes eight different values of the well-known Clarostat Series A10 (4-watt) wire-wound controls, eight Pick-A-Shaft* shafts (two each of the four most popular types); and a handy mounting-nut wrench. For focus controls alone, the assortment services over 2000 TV set models! Also provides for other functions such as width, linearity, balance and gain. Included is a data sheet listing TV manufacturers' part numbers with proper replacements from this assortment.

And of course the controls may be used in various test equipment, radios, hi-fi systems, industrial electronics, etc.

CLAROSTAT. FUZOHM H2-3-75 ubres Lust Price 50.75 es

and don't overlook those CLAROSTAT RESISTOR CARDS!

GK-1	20 most popular 10-watt wire-wounds	(1 ohm to 25K)
GK-2	32 most popular 2-watt wire-wounds	(5 to 2000 ohms)
GK-3	36 most popular 5-watt wire-wounds	(1 to 4000 ohms)
GK-4	54 most popular 5-watt wire-wounds	(1 ohm to 10K)
GK-5	50 most popular 10-watt wire-wounds	(1 to 9000 ohms)
GK-6	45 most popular 10-watt wire-wounds	(5 ohms to 50K)
GL-1	12 "Fuzohm"† 7.5-ohm fuse-type resistors	



Order Your PD-1 Package Today!

Clarostat distributors have it waiting for you. Take advantage of this time- and moneysaving assortment. Ask for latest Clarostat Catalog-or write us.

†Trade-mark.

*Reg. U. S. Pat. Office

MULTI-PURPOSE WIRE-WOUND CONTROLS



In Canada: Canadian Marconi, Co., Ltd., Teronto 17, Ont.



the EYES of TV RECEIVERS

The eye is one of the most important sense organs in the human body. Its function can be likened in many ways to that of a simple type of television antenna. The eye receives light waves: whereas, the antenna receives radio-frequency waves.

Limitations

Both the eye and the antenna have limitations in what they can do. The human eye can perceive only a limited range of light frequencies. This frequency range extends from red at the low end of the visible spectrum to violet at the high end. One might say that the eye is "tuned" to this range of light frequencies in much the same manner that a television antenna may be tuned to a certain band of television frequencies. The RF response curve of a simple type of television antenna closely resembles the light-frequency response curve of the human eye.

Another limitation of human eyes and antennas is the inability to isolate a weak source of energy in the presence of strong sources of energy. An example of this, in the case of the human eye, is the fact that a neon sign will appear dim in the daytime. Although the neon sign is the same brilliance day or night, the surrounding light has reduced the apparent brilliance to a very low level and the eye has difficulty in seeing the neon sign. A simple form of television antenna also has difficulty in isolating a signal in the presence of high-level atmospheric noise and strong local interference. It

by GEORGE B. MANN

might be said that the antenna is blinded by the interference.

Another limiting factor associated with the eye and the antenna is the amount of receiving area presented to the incoming wave. The total receiving area which the eye presents to the incoming light is very small. If the light intensity is very low. the amount of light striking the retina in the eye will not be great enough to cause a response which the human brain can interpret. Similarly, the simple television antenna presents a limited area to the incoming radio wave. If the incoming wave is weak, the receiver will detect the signal but it will be unable to produce a usable picture.

Another comparison between human eyes and television antennas is the limited range of direction from which maximum energy can be received at any one instant. When looking straight ahead at a certain object, there is a circular field of clear vision around this object. As the eye is shifted, the field moves; and as this field of clear vision moves farther away from the object, the object becomes less distinct. The field in front of the eye is analogous to the field directly in front of the antenna. As the antenna is turned away from the energy source, the amount of energy which the antenna can receive becomes less. This characteristic of a television antenna is referred to as directivity.

These limits are imposed upon the human eye because of the basic make-up of the eye. The human eye as a receiving element cannot be changed to accommodate other frequency ranges or wider bandwidths. In contrast to this, the antenna receiving element can be designed for any particular range of radio frequencies and can also be designed for a certain bandwidth. This allows us to obtain greater versatility in antenna performance.

An example of this versatility is in overcoming the limitations of bandwidth. A receiving element composed of thin conductors like those shown in Fig. 1A has a narrow bandwidth. This means that the response to signals drops off rapidly at either side of the resonant frequency. A tuned element can be made

* * Please turn to page 81 * *

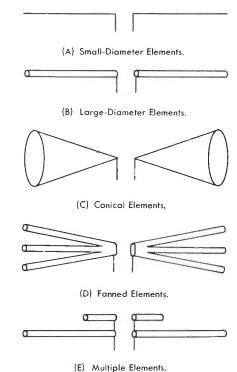


Fig. 1. Receiving Elements Showing Methods of Increasing Bandwidth.

If you want "Trouble-Free" fuses in all sizes and types – TURN TO BUSS!

You can depend on BUSS fuses to operate properly under all service conditions. This means that BUSS fuses will open and prevent further damage to your customers' equipment when there is trouble on the circuit.

And just as important, BUSS fuses won't blow when trouble doesn't exist. Users are not annoyed with useless shutdowns caused by needless blows.

To make sure of this "trouble-free" operation every BUSS fuse normally used by the Electronic Industries is tested in a sensitive electronic device. Any fuse not correctly calibrated, properly constructed and right in all physical dimensions is automatically rejected.

A complete line of fuses is available. Made in dual-element (slow blowing), renewable and one time types ... in sizes from 1/500 ampere up — plus a companion line of fuse clips, blocks and holders.

When it's a fuse you need — think first of BUSS. You will be protecting both the product and your good name against troubles and complaints often caused by use of poor quality fuses.

For more information on BUSS and FUSE-TRON small dimension fuses and fuseholders . . . Write for bulletin SFB.



Makers of a complete line of fuses for home, farm, commercial, electronic, automotive and industrial use.





In Part XV of this Color TV Training Series, trouble-shooting procedures were discussed for the condition of hum in the monochrome picture and for the condition of wrong colors. In this part, the subject of trouble shooting will be concluded by a coverage of the troubles which cause loss of color synchronization and those which affect purity and convergence.

Loss of Color Synchronization

Whenever the chrominance and reference signals are arriving at the color demodulators, the chrominance signal will be demodulated and color will be reproduced, provided that the circuits which accomplish demodulation and those which handle the color signals after demodulation are operating properly. It has been shown in pre = vious discussions that if either the chrominance or the reference signals are absent at the inputs of the demodulators, the receiver will not reproduce color. It has also been shown that the colors will not be right unless the chrominance and reference signals have the correct amplitudes and phase relationships. When the frequency of the reference signals is incorrect, loss of color synchronization will be experienced. This trouble will be indicated on the screen by horizontal or diagonal stripes of variegated colors. The stripes may be either in motion or stationary. If the oscillator is operating at a random frequency, the stripes will be in motion. Fig. E1 of the Color Plate shows the appearance of the screen when the 3.58-mc oscillator is not operating at the correct frequency. As indicated by the small number of diagonal stripes, the frequency of the oscillator is only slightly off. If the oscillator were operating at a frequency that is far from correct, there would be a large number of horizontal or diagonal stripes.

The circuit of a color-sync section is shown in Fig. 12-22. This circuit is employed in the RCA Victor Models CT-100 and 21-CT-55 color receivers. Let us briefly review the operation of this type of circuit.

The output of the 3.58-mc oscillator is amplified, then a portion of it is fed back to the phase detectors where it is compared with the color-burst signal. If the

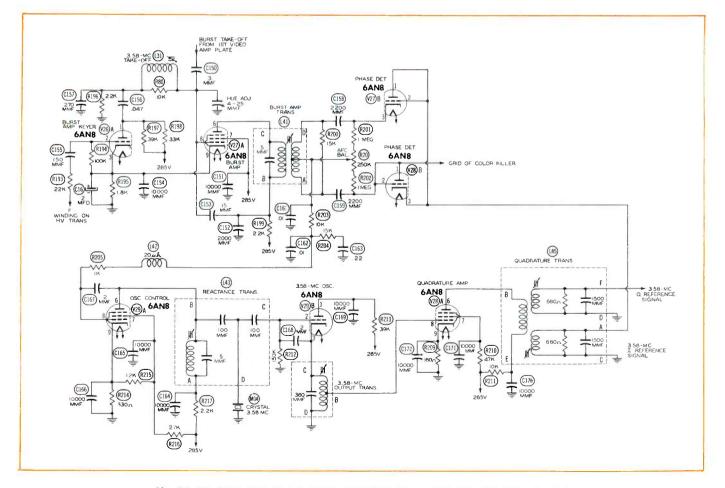


Fig. 12-22. Color-Sync Circuit Employed in RCA Victor Model CT-100 Color Receiver.

oscillator signal is not of the correct phase and frequency, a DC correction voltage will be developed by the phase detectors. This correction voltage is applied to the grid of the control stage which will then add more or less capacitive reactance to the grid circuit of the oscillator. The frequency and phase of the oscillator are closely controlled in this manner.

When the reference signal begins to lag behind the burst signal, the following events occur. Phase detector V28B conducts more than V27B. The negative DC correction voltage which is developed is added to the bias of the control stage. The gain of the control tube is reduced, and the amount of capacitance in the grid circuit of the oscillator is effectively decreased. The frequency and phase of the oscillator will tend to advance until the oscillator is in step with the color-burst signal.

If the reference signal begins to lead the burst signal, a positive correction voltage is developed and opposite events occur. For a more detailed discussion concerning the operation of the color-sync section, refer to Part VI of the Color TV Training Series in the November 1954 issue of the PF REPORTER.

If anything should happen in the color-sync circuit to interrupt or change the value of the DC correction voltage, the reference signal would be caused to change and would be thrown out of step with the incoming burst signal. When color synchronization is lost, the cause of the trouble will be located in some circuit ahead of the 3.58-mc oscillator.

If the pattern on the screen appears like that shown in Fig. E1 of the Color Plate and if the color-sync circuit under consideration is of the type shown in Fig. 12-22, the first thing to check is the control tube V29A. This is the only tube that can cause loss of color synchronization in this receiver. If the burst amplifier or either of the phase detectors were inoperative, the color killer would be allowed to conduct, in which case the bandpass amplifier would be biased to cutoff. The chrominance signal would be absent at the color demodulators, and the condition of no color would exist.

In a receiver which does not employ a color killer, it would be necessary to check the tubes in the burst amplifier and phase detector because color synchronization would be lost if one of these tubes were inoperative.

If replacement of tubes does not cure the trouble, a check of the circuit is in order. When checking the circuit, the best place to begin is in the oscillator-control stage. By making a voltage check, the technician can determine whether the operating voltages in this stage are correct or not. With abnormal plate or screen voltages at the control tube, the oscillator will drop out of synchronization.

If the plate and screen voltages are found to be normal, the next place to check is at the control grid of the oscillator-control tube. The voltage at this point should be approximately one volt positive. With a defective component in the circuit ahead of this point, the voltage at the control grid will be affected. For instance, if capacitor C162 were to develop a short to ground, the voltage on the control grid would go to zero and loss of color synchronization would result.

With capacitor C158 open or capacitor C159 shorted, the voltage at the grid of the control tube would drop below 15 volts negative. This amount of negative voltage places the control stage below cutoff. The control tube no longer governs the operation of the oscillator; therefore, the reference signal drops out of synchronization with the burst signal. If resistor R201 becomes open, the same thing will happen. The grid voltage will drop to approximately 40 volts negative.

A voltage check at the phase detectors can be very helpful. For instance, if capacitor C158 should become open, the voltage at the cathode of phase detector V27B would drop far below normal. Under normal operation, the voltage at the cathode of V27B and the voltage at the plate of V28B are equal in amplitude but of opposite polarity. If these voltages are found to be unbalanced, the cause of the trouble will often be found in the circuit of the phase detector.

If the operating voltages at the control stage are found to be normal, the tuning of coil L43 in the plate circuit of the control stage should be checked. If this coil were misadjusted, color synchronization would be lost.

Troubles With Color Purity

Improper color purity is noticeable when there is color contamination in parts of a reproduced monochrome picture or test pattern. It is also noticeable when the colors in various portions of a color picture are not pure. It signifies that the beams are not striking the correct sets of phosphor dots on the portions of the screen where the contamination is present. In order to obtain correct purity, the beam from the red gun must be striking only the phosphor dots which emit red light, the beam from the blue gun must strike only the phosphor dots which emit blue light, and the beam from the green gun must strike only the phosphor dots which emit green light.

Whenever color contamination is present, the adjustments of the purity devices associated with the picture tube should first be checked. The procedure for making these adjustments was outlined in previous sections of this Color TV Training Series. This adjustment procedure concerning the electrostatic picture tube appeared in the April 1955 issue, and the procedure concerning the electromagnetic picture tube appeared in the May 1955 issue. If adjustment of the purity devices does not correct the contamination, the purity circuits and the devices will need to be checked for defects.

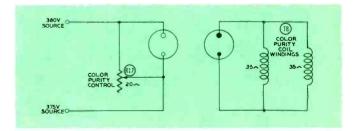


Fig. 12-23 Color-Purity Coil and Control Circuit Used in RCA Victor Model CT-100 Color Receiver.

For the electrostatic type of picture tube, there are three devices which affect purity. These are the purity coil, the deflection yoke, and the field-neutralizing coil. If any one of these units should become defective, the achievement of satisfactory purity would not be possible.

The circuit of the purity coil and its control is shown in Fig. 12-23. If purity adjustment is unsuccessful, first check the voltages at the input of this circuit. If they are normal, check the purity control and the purity coil. Direct replacement of the purity coil is the surest method

* * Please turn to page 41 * *

REFERENCE PATTERNS FOR TROUBLE SHOOTING

COLOR TV TRAINING SERIES

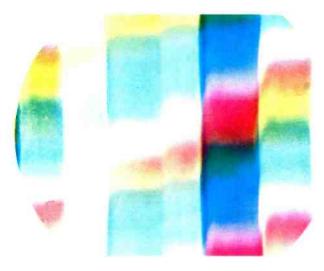


Fig. E1. Color-Bar Pattern Indicating Loss of Color Synchronization.

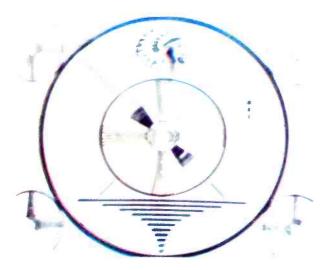


Fig. E3. Test Pattern Indicating Poor Vertical Dynamic Convergence.

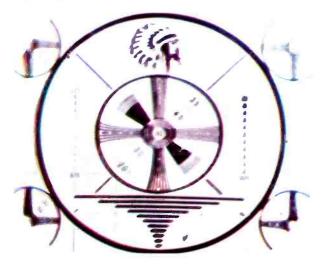


Fig. E5. Test Pattern Indicating Poor Horizontal Dynamic Convergence.



Fig. E2. Pattern Produced When Purity Coil Is Open.

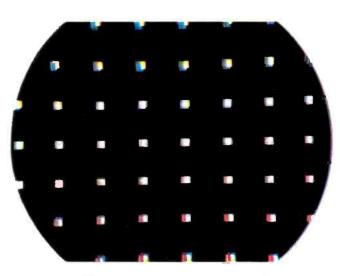


Fig. E4. White-Dot Pattern Indicating Poor Vertical Dynamic Convergence.

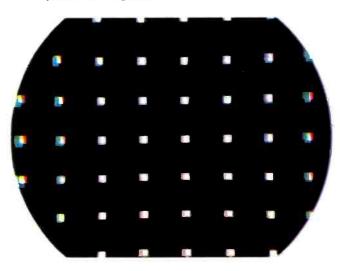


Fig. E6. White-Dot Pattern Indicating Poor Horizontal Dynamic Convergence.

Here's the NEW Standard of Performance in Selenium Rectifiers

N PRODUCTS

PRODUCTS

DUCTS

APPROVED

A completely new line of Mallory selenium rectifier stacks now gives you *performance that equals or surpasses* original equipment specifications to a degree of uniformity never before attained.

APPROVED

The secret is new Mallory designs and manufacturing methods developed to produce superior characteristics... and to maintain these standards on *every* stack.

The new Mallory stacks are noted for unusually long service. Exceptionally low forward voltage drop gives them high efficiency throughout their long, dependable life.

Make sure you use these new rectifiers on all your replacement jobs. You can connect them and forget them ... with the assurance that *every* stack will turn in long, reliable service.

A complete selection of values, all conservatively rated, is available to fit every possible application. Ask your Mallory distributor to send you the stock you need.



PF REPORTER, September 1955

ON PRODUCTS



MILTON S. KIVER

President, Television Communications Institute

Test Equipment for Rapid Checks

Parts replacement occupies a considerable amount of the service technician's time. It is not unusual to have to unsolder and resolder a half-dozen components during the course of any ordinary service job. Since the service technician is always working against the clock whether he is in business for himself or is an employee of someone else, it is very clear that anything which will reduce the amount of time used in finding and changing defective components will definitely be advantageous.

A further reason for paying attention to the problem of reducing service time stems from the increased use of printed circuits which, as anyone who has worked with them knows, are set up in such a way that changing the parts is not an easy task. Considerable care must be exercised not only to see that adjacent portions of the circuitry are undisturbed but also to see that no damage will come to the wiring, components, or baseboard of the section being serviced. You want to be absolutely certain that the part is truly defective when you decide to change a component.

There have appeared in recent months a number of test instruments which tend to ease the service technician's job because they enable him to check the condition of a component while it is still wired into the circuit. Among the most important of these instruments are those which reveal whether a capacitor is open. shorted, leaky, or intermittent. Other instruments enable the technician to check the condition of horizontaloutput transformers, yokes, and other inductive components such as width and linearity controls. For the latter, some unsoldering of leads may be required although a substantial amount of time is still saved by this method when compared to the substitution method.

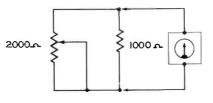


Fig. 1. The Measured Value of This Parallel Combination Depends Upon the Setting of the Potentiometer.

The common resistor is an other item in plentiful supply in every receiver. Ordinarily, resistor values can be checked directly without unsoldering of leads. If two resistors are connected in parallel, as shown in Fig. 1, the technician can still check them by comparing their measured value with their computed value. The total value of two resistors in parallel may be computed by using the equation:

$$R \text{ (resultant)} = \frac{R_1 \times R_2}{R_1 + R_2}$$

If the arm of the variable resistor in Fig. 1 is set at the bottom of the control so that both resistors will be fully in the circuit, the values of 1000 and 2000 ohms can be substituted in the foregoing equation.

$$R = \frac{1000 \times 2000}{3000} = 667 \text{ ohms.}$$

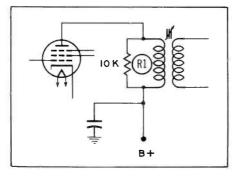


Fig. 2. Typical Circuit in Which Resistor Must Be Unsoldered Before Being Measured.

When the arm of the variable resistor has been moved to the top, the value of the parallel combination is zero ohms.

If you find that these computations are too difficult to do, then you would have to unsolder one end of one of the resistors and measure each unit individually. If you find the computations easy to do, then you do not need togo to the trouble of unsolder ing a component to find out whether it is defective or not.

If you meet a condition such as that shown in the drawing in Fig. 2 and feel that the resistor may have changed value, then you would need to do some unsoldering; but it need not involve the resistor. The physical layout of the circuit may be such that it is easier to unsolder one end of the coil. A moment's inspection, while comparing the schematic diagram with the receiver, may save you a little time.

This preoccupation with timesaving methods, while of interest to all, is probably pursued with greatest vigor by the larger servicing outfits. This writer has had occasion to sit in on many such conferences at Central Television Service, Chicago, an organization that employs nearly a hundred men. Some of the timesaving devices and procedures instituted by this company would not be suitable for smaller firms, but one recently developed device designed and manufactured by the B & K Manufacturing Company is currently being made available to other service firms.

The need for this instrument, a simplified tube checker, arose because of two problems that Central encountered. One stemmed from the length of time it took to check tubes in the home on a conventional tube

MR. SERVICE DEALER: you're ridin' high, wide an' handsome

in this **RAYTHEON**



It takes a heap of Know-How to ride herd on 36,000,000 TV Sets

In only a few short years. America has created and the end of skilled eraftsmannen in the electronic few big in the electronic few big in the electronic few big of the electronic few big in the electronic few big of the electronic few big in the electronic few big of the electronic few big in the elevision. We takes special pride when it is a guiffied big the few big in the elevision few big in the elevision for the elevision few big in the elevision for the elevision few big in the elevision big the few big of the elevision few big in the elevision big the few big in the elevision few big is the few big big the few big is the elevision of the elevision few big is big to the few big is the elevision of the elevision of the elevision big to the few big is the elevision of the elevision of the elevision big to the few big is the elevision of the elevision of the elevision big to the few big is the elevision of the elevision of the elevision big to the few big is the elevision of the elevision of the elevision big to the few big is the elevision of the elevision o

this Code of Ethics:
Guarantee alt radio and television repairs work
Group diss.
Use only torix of arcognized quality.
Charge not over established prices for parts.
Fred ensure there as accurately us possible.
Fred ensure there are accurately us possible.
Fred ensure and an ensure work as is previous only and work as in the source ensure ens

work. 8. Maintain the highest quality service.

8. Maintain the highest quality servere. He has the ability and equipment to solve your TV service problems, whatever the make or model of your sets. His work is backed by a bond insuled through one and America's largest insurance companies and the standing as a Raytheon Honded Elec-tronic Technician is your guarantee of antisfaction. atisfac



FOR THIS SEAL It's the symbol of Satisfactory Service FOR



HOT OFF THE PRESS! The Sensational New RAYTHEON TRANSISTOR APPLICATIONS BOOK

116 pages — over 50 practical applications complete how-to-do-it instructions. Available from your Raythean Tube Distributar or send 50¢ ta Department P7, Raytheon Manufacturing Company, Newton 58, Massachusetts,

AVTILEON MANUFACTUEINS COMPANY, BIC MAKE THE MOST OF IT!

LOS ANOILES

ATLANTA

THEON

TEE

YOUR

TV-RADIO

SERVICEMAN

Once again, Raytheon is telling your story, this time to the 26,450,000 readers of LIFE Magazine (September 12 issue) and, once again, you have a golden opportunity to cash in on this great, national promotion. All you need to do is tie in with this dramatic, colorful, full page advertisement. Use Raytheon decals, blow-ups of the ad, displays and local advertising to show customers you are the capable service dealer we're talking about. You'll increase your volume and profit and boost your neighborhood prestige to an all-time high.

Your Raytheon Tube Distributor will be happy to help you plan a tie-in campaign that will prove most effective. Call him today.

DIAGRAMS FOR SETTING UP TEST EQUIPMENT

INTRODUCTION

The following diagrams are designed to show methods of application of test instruments that the technician can use in servicing radio and TV receivers. Reading matter has been kept to a smaller amount than usual, and an attempt has been made to convey as much information as possible through the use of diagrams.

A complete alignment procedure for a TV receiver has been selected as an operation which brings into use several of the more important test instruments that the service technician may use in a single project. These instruments include the sweep signal generator, RF marker generator, oscilloscope, and VTVM.

Obtaining a Response Curve Diagram No. 1

*NOTE 1. Some form of detector is almost always used when a response curve is being obtained, although a response indication can be obtained without a detector if the sweep frequencies applied do not go above the response characteristics of the vertical amplifier of the oscilloscope. Typical receiver points which give detection are the mixer grid of the tuner, the video detector, the soundlimiter grids, and the ratio detectors or discriminators. If a detector that is external to the receiver circuits is used, it is usually in the form of an RF detector probe,

*NOTE 2. Oscilloscope controls are set to the horizontal-input position.

Marking a Response Curve

Diagram No.2

Sound IF Detector Alignment Using the VTVM and the RF Generator

Diagram Nos. 3 and 4

*NOTE. A blocking capacitor should be used if the generator is connected at a point where considerable DC voltage is present or where any current drain would upset the circuit operation. The capacitor also serves to protect the generator. The termination network found at the output of most generators has characteristics of low impedance and low wattage. If this network is connected directly to a voltage source, it may draw enough current to damage the lowwattage resistors.

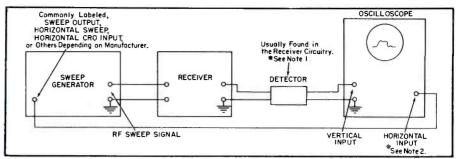


Diagram No. 1. Minimum Equipment Necessary to Obtain a Response Curve.

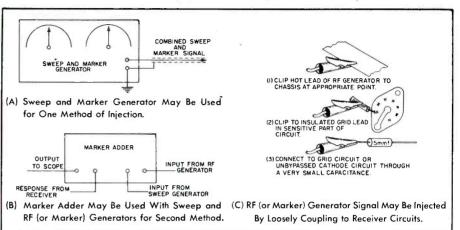


Diagram No. 2. Marker-Injection Methods.

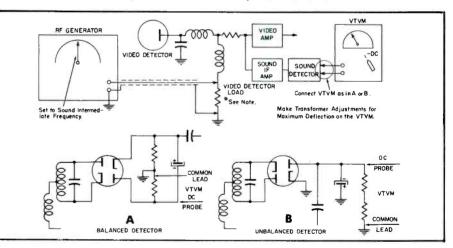


Diagram No. 3. Equipment Setup Used for Adjustment of Sound IF Transformers and of Primary of Sound-Detector Transformer.

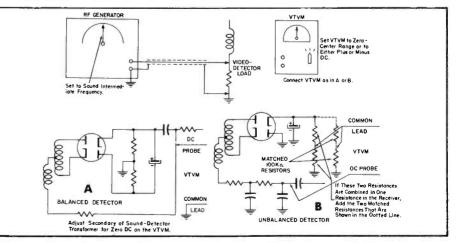
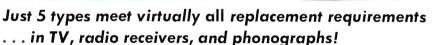


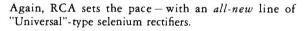
Diagram No. 4. Equipment Setup for Adjustment of the Secondary of Sound-Detector Transformer.

RCA announces a NEW line of... **"UNIVERSAL"-TYPE** SELENIUM RECTIFIERS





Look at the "wideopen" design of RCA Selenium Rectifiers. Benefits: Maximum cooling, dependable performance.



- **NEW**—Improved heat dissipation . . . "Wide-open" design permits maximum air circulation.
- **NEW**—Smaller size . . . For any given current, they are smaller than other types (installation is a "snap").
- **NEW**—*Versatility*... Only five types needed to cover the range from 50 to 500 milliamperes.

Always replace with an RCA Selenium Rectifier – for consistently good performance, faster customer service! Order RCA All-New Selenium Rectifiers from your RCA Distributor TODAY. Stock up on new, RCA "Universal"-type Selenium Rectifiers, – competitively priced for profitable, fast turnover.

RCA	Max.	Max.	Suggested	
Туре	Output	Input	List	
Number	Current	Volts	Price	
200 G1	75 MA	130V	\$1.85	
201 G1	150 MA	130V	2.25	
202 G1	300 MA	130V	3.30	
203 G1	400 MA	130V	4.25	
204 61	500 MA	130V	4.40	

Shown actual size



RADIO CORPORATION OF AMERICA ELECTRONIC COMPONENTS HARRISON, N. J.

Sound IF and Detector Alignment Using an Oscilloscope and FM Generator Diagram Nos. 5 and 6

Video IF Alignment

Diagram No. 7

*NOTE 1. It is desirable to disable the oscillator section of the mixer stage so that there will be fewer confusing indications on the VTVM. A good way of doing this is to substitute another mixer-oscillator tube which has had the plate pin of the oscillator section removed.

*NOTE 2. Trap adjustments are made for minimum deflection on the VTVM at the trap frequency. The other adjustments are normally made to obtain maximum deflection at the frequency indicated for each adjustment.

Video IF Response Check Diagram No. 8

*NOTE 1. A bias supply is usually connected at some point on the AGC line. This is for the purpose of maintaining the gain of the video IF stages as nearly as possible to that obtained when a station signal is being received. The value of bias and the point for application may vary somewhat and are usually given in the alignment instructions.

*NOTE 2. Connect leads from the generator in the same manner as that shown in Diagram No. 7. Moreover, the oscillator in the tuner should be disabled in the manner described in Note 1 for Diagram No. 7.

Tuner Alignment Diagram No. 9

*NOTE 1. Many generators do not include a termination network or matching pad at the end of the output cable. In some cases, such a termination is advisable in order to eliminate distortion caused by standing waves on the output cable. The matching pad is designed to present an input impedance which matches the characteristic impedance of the output cable and to present an output impedance which matches the input impedance of the receiver.

*NOTE 2. The looker point is one of the points previously mentioned as affording a detector action; consequently, no detector is needed at the oscilloscope. Only one or two stages are normally found between the antenna and the looker point; therefore, maximum output from the generator and maximum gain of the oscilloscope are usually necessary to obtain a usable response curve. For the same reason, bias is seldom applied to the stages during alignment because the gain would be reduced as a result of such application.

PAUL C. SMITH

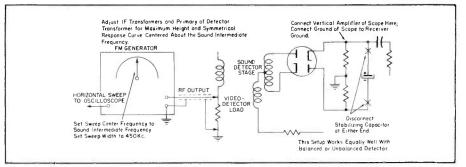


Diagram No. 5. Connections to Be Made for Adjustment of Sound IF Transformers and of Primary of Detector Transformer.

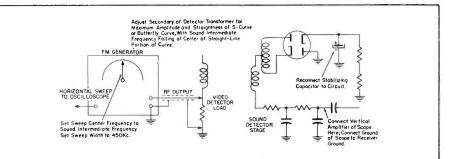


Diagram No. 6. Connections to Be Made for Adjustment of Secondary of Detector Transformer.

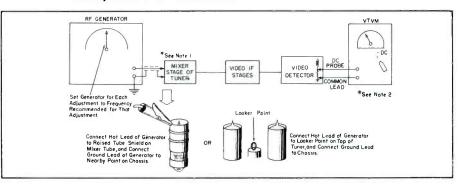


Diagram No. 7. Equipment Setup for Video IF Alignment Using RF Generator and VTVM.

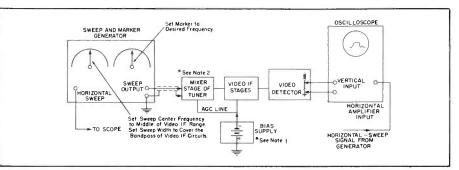


Diagram No. 8. Equipment Setup for Video IF Response Check.

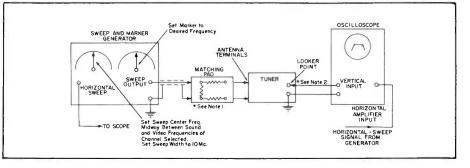


Diagram No. 9. Equipment Setup for Tuner Response Check and Alignment.



How to hand yourself more business

Whenever you replace a tube, it's smart to hand the lady the CBS carton . . . and yourself more business.

It's smart because CBS tubes are advertised to *women* in Life, Good Housekeeping and on Arthur Godfrey's Talent Scouts.

And it's good business for you because *women* have greater confidence in CBS tubes... the tubes with the Good Housekeeping Guaranty Seal.

There are no better tubes made than CBS tubes.





CBS-HYTRON, Danvers, Massachusetts A DIVISION OF COLUMBIA BROADCASTING SYSTEM, INC.

In the Interest of ... Quicker Servicing

by Calvin C. Young, Jr.

LINE-VOLTAGE VARIATIONS

Television receivers are designed to operate with power-line voltages of approximately 115 to 117 volts AC. These units will operate, however, at 105 to 125 volts AC; but certain troubles may occur at these extreme voltages. At 105 volts, a set may operate with reduced efficiency; and at 125 volts, the tubes and other components in a set may have a tendency to fail more rapidly.

Low line voltages are most often encountered in the city where the power lines are heavily loaded, and high line voltages are most often encountered in certain rural areas where the power lines are not heavily loaded. There are also localities in which the line voltage may be satisfactory during the day but may fall to a low value at night. In some extreme cases, the voltage may even vary from a value that is too high to one that is too low during a 24-hour period.



Fig. 2. Acme Electric Model T-8394M Manual Voltage Adjustor.

To combat these various linevoltage conditions, it would obviously be desirable to have a device which when installed between the power line and the receiver would maintain a constant 117-volt AC output regardless of the input voltage. Such units or devices are available; but, unfortunately, they are very expensive. For monetary or practical reasons, therefore, a unit which may be manually adjusted to compensate for low or high voltages is desirable. These units should provide some means for the user to check the output voltage so that the correct voltage can be maintained.

Shown in Figs. 1 and 2 are two of the many different makes of adjustable line-voltage transformers. The unit shown in Fig. 1 is representative of a type that uses two neon bulbs to reveal the approximate value of the output voltage. The unit which is pictured is the Regency Model VB-1 voltage booster made by I.D.E.A., Inc. The neon bulbs can reveal three conditions:

1. Output voltage too low - neither bulb is lit.

* * Please turn to page 56 * *



SWITCH

Fig. 1. Regency Model VB-1 Voltage Booster.

September 1955, PF REPORTER

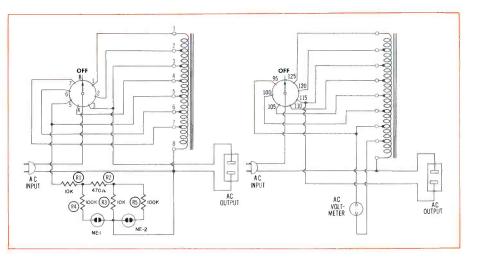


Fig. 3. Schematic Diagrams of Two Typical Voltage-Booster Transformers.

There are now 59 Stancor exact replacement flybacks covering all major TV set manufacturers and many private label brands.

Shr 78

this TV serviceman uses

EXACT REPLACEMENT

TRANSFORMERS

The latest units include 6 new Zenith replacements that give you

71% ZENITH EXACT REPLACEMENT FLYBACK COVERAGE

and 6 new General Electric replacements that give you

79% G.E. EXACT REPLACEMENT FLYBACK COVERAGE You too can take life easy and have time to spare when you use Stancor exact replacements. No changing of circuits, no drilling of holes . . . you just take out the defective unit and replace it with a Stancor Transformer that exactly duplicates the original.

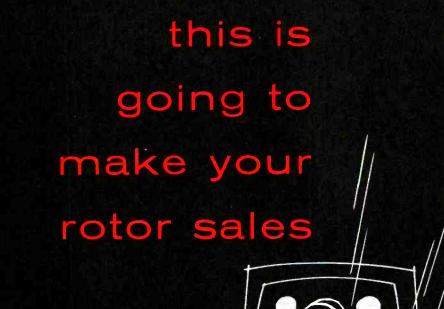
FREE The New Stancor TV Transformer Replacement Guide, listing accurate replacement data on almost 8500 TV models and chassis of 116 manufacturers. If you haven't received your copy see your Stancor distributor or write Chicago Standard Transformer Corporation.

CHICAGO STANDARD TRANSFORMER CORPORATION

Export Sales: Roburn Agencies, Inc. 431 Greenwich Street New York 13, N.Y.



3594 ELSTON AVENUE CHICAGO 18, ILLINOIS



www.americanradiohistory.com

n in Our History

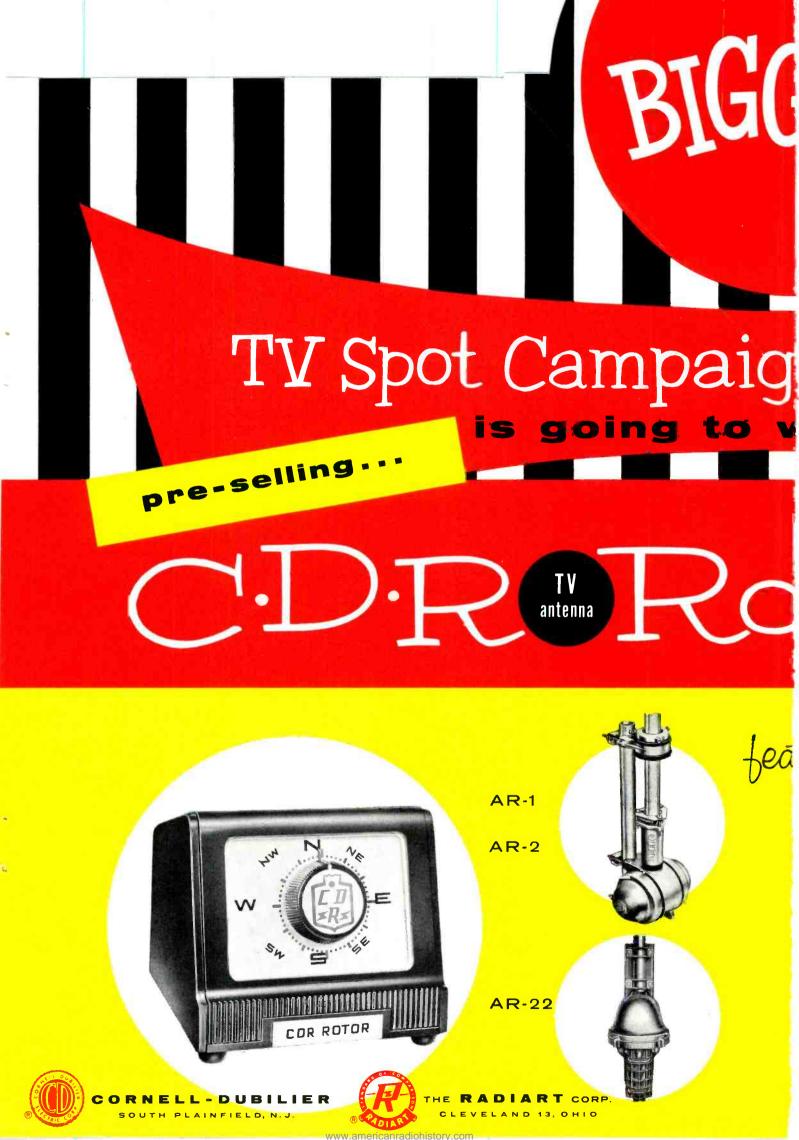
tors

turing C·D·R automatic ROTORS

An outstanding group of rotors . . . three proven and tested models . . . ALL 40% SHARPER TUNING than ANY other automatic rotor. Handsome cabinet . . . dependable performance . . . proven and tested by thousands and thousands of satisfied users. to millions of TV viewers every week

We are going to make this the BIGGEST rotor year you've ever had! The CDR ROTOR line is COMPLETE in every detail ... featuring.SEVEN MODELS g....Å TYPE FOR EVERY NEED! And backing up this is the BIGGEST and most extensive consumer campaign in all our history! Millions of TV viewers, will see the CDR rotor announcements on TV, presselling them for you. And a complete promotional kit of dealer aids to help you sell and feature CDR ROTORS! Plan now ... for the BIGGEST CDR ROTOR year ever!





the complete line ...

model for every need



TR-4 the heavy duty rotor complete with handsome modern cabinet with METER control dial, uses 4 wire cable.



TR-11 same as TR-12 without thrust bearing.



TR-2 the heavy duty rotor with plastic cabinet featuring "compass control" illuminated perfect pattern dial, uses 8 wire cable. **TR-12** a special combination value consisting-of-complete rotor, including thrust bearing. Handsome new modern cabinet with meter control dial, uses 4 wire cable.



CORNELL - DUBILIER SOUTH PLAINFIELD, N.J.



THE **RADIART** CORP. CLEVELAND 13, OHIO

10.



TEST EQUIPMENT

Presenting Information on Application, Maintenance, and Adaptability of Service Instruments



by Paul C. Smith

HYCON MODEL 617 OSCILLOSCOPE

Recently, we obtained a Hycon Model 617 oscilloscope. We have had occasion to use this instrument a number of times, and we would like to pass along to our readers some information which may be of interest.

One of the features that was first noticed was the relatively small size of this oscilloscope. When measured, it proved to be 8 1/2 inches wide, 11 inches high, and 10 3/4 inches deep. This small size is an advantage if bench space is at a premium. For a further saving of space, the case and handle are designed to permit stacking with other Hycon test instruments.

The oscilloscope is equipped with a 3RP1A cathode-ray tube. The face of the tube is fitted with a green filter to ensure maximum contrast of the trace. Horizontal and vertical lines are ruled on the filter so that it may also be used for calibration purposes.

An interesting method is used to illuminate the calibration graph. A small lamp has been mounted so that its light strikes the edge of the plastic filter disc. In this manner, only the ruled lines are illuminated. The lines have an orange-red hue which can be easily seen against the green background of the filter. The operator has full control of the degree of illumination by means of a frontpanel knob. This knob also controls the operation of the ON-OFF switch of the oscilloscope when the knob is turned to its extreme counterclockwise position.

The sensitivity of the vertical amplifier is 10 millivolts rms per inch, and the vertical bandwidth is from 6 cycles to 4.5 megacycles per second plus or minus 1 db. The input impedance (less probe) is 1 megohm shunted by 30 micromicrofarads plus or minus 2 micromicrofarads. The sensitivity and high-frequency response of the vertical amplifier were checked and found to be well up to the manufacturer's specifications. The low-frequency response was beyond the reach of the signal sources at hand and was not checked.

The sensitivity of the horizontal amplifier is 75 millivolts rms per inch, and the horizontal bandwidth is 6 cycles to 500 kilocycles per second plus or minus 3 db. The input impedance of the horizontal amplifier is 1 megohm shunted by 35 micromicrofarads.

Sawtooth sweeps ranging from 15 cycles per second to 100 kilocycles per second are provided in four ranges. Two additional positions of the sweep-range switch furnish automatic sweep rates of 30 and 7,875 cycles per second. These are the sweep rates which the technician commonly uses for viewing the vertical- and horizontal-deflection waveforms in TV receivers.

A 60-cycle sinusoidal sweep is provided for use in alignment procedures or wherever such a sweep is desirable. The phase of the sinusoidal sweep may be varied by means of a phasing control on the oscilloscope panel. The phasing control acts as an amplitude control for the synchronizing signal when the horizontal-selector switch is in either the INT (internal), LINE, or EXT SYNC position.

The oscilloscope trace is blanked during retrace time. When the internal sawtooth sweep is used, this oscilloscope provides for three types of synchronization: (1) INT (internal), during which a portion of the vertical-input signal is applied to the sync section; (2) LINE, during which a signal at the line frequency is applied to the sync section; and (3) EXT (external), during which an external signal can be applied to the sync section. The sync-amplifier section also functions as a sync limiter in order to prevent distortion

* * Please turn to page 69 * *



Fig. 1. Hycon Model 617 Oscilloscope.

5 Megacycles Bandwidth 10 Millivolts per Inch Sensitivity in the NEW PRECISION ES-550



Model ES-550 Deluxe: (Illustrated) In custom-styled, blue-grey ripple finished steel cabinet, 2 color satin-brushed aluminum panel and contrasting dark blue control knobs. Case Dimensions 81_4 x 141_2 x 181_2 inches. Complete with all tubes, including 5CP1/A CR tube. Compre hensive Instruction Manual. Net Price: \$215.00

Model ES-550 Standard: Electrically Identical to above but in standard black cabinet with black anodized aluminum panel. Case dimensions $8\frac{1}{4} \times 14\frac{1}{2} \times 18\frac{1}{2}$ inches. Complete as above....... Net Price: \$210,00



Engineered to cover a wide range of modern electronic applications including MONOCHROME and COLOR TELEVISION

5 inch OSCILLOSCOPE

The Model ES-550 is the PRECISION answer to laboratory, industrial and technician requirements for a rugged, dependable instrument for broad coverage of modern electronic oscillograph applications, INCLUDING COLOR TV. It provides a new and unparalleled standard of high sensitivity with single, overall wideband frequency response, plus other special performance features—at most sensible selling price.

- ★ Push-Pull. Wide-Band Vertical Amplifier: 10 MV/inch sensitivity. Input Characteristics: 2 Megohms, 22 mmld. Response: One DB from 10 cps. to 3.5 MC—3 DB at 5 MC. Aftenuator: 3 step freq compensated plus a continuously variable gain control in cathode follower circuit.
- ★ Direct Reading, Peak to Peak Voltage Calibrator
- * Vertical Pattern Reversal Switching Facility
- Push-Pull, Wide-Range Horizontal Amplifier: 100 MV/inch sens. Input Characteristics: 2 Megohms, 25 mmfd. Response: One DB from 10 cps. to 1.0 MC-3DB at 2 MC. Attenuator: 3 step, freq. compensated, plus a continuously variable gain control in cathode follower circuit.
- Linear, Multi-vibrator Sweep Circuit: 10 cycles to 100 KC plus auto-matically synchronized 30 cycles and 7875 cycles sweep for TV sync-pulse analysis. Amplified sweep retrace blanking.
- ★ Amplified Auto-Sync Circuit active on all internal sweep ranges.
- ★ Four Way Sync. Selector Switch provides for Internal Negative, Internal Positive, External and Line Synchronization.
- ★ 3,000 Volt Intensifier Power Supply assures utmost visibility of 'scope traces. Essential to high frequency and pulsed waveform analysis.
- ★ ''Z'' Axis Input Terminal for blanking, timing and marking
- ★ Built-in 60 cps Phasing and Blanking Controls especially designed for more convenient FM, Monochrome and Color TV alignment and sync pulse analysis.
- * All 4 Deflection Plates Available with full beam centering facilities.
- ★ Tube Complement: 12AV7 "V" Cathode Follower-Amplifier. 608 "V" Amplifier-Phase Splitter. Two 6CL6 Push-Pull "V" Drivers. 608 "H" Cathode Follower-Amplifier. 6C4 "H" Phase Splitter. Dual 12BH7 Push-Pull "H" Driver. 12AV7 Linear-Sweep Multivibrator. 6BH6 Auto-Sync Amplifier. 12AU7 Sweep Retrace Blanking Amplifier. 0A2 Voltage Regulator. 5V4 Low Voltage Rectifier. Two 1V2 High Voltage Rectifiers. 5CP1/A CR Tube.
- 🛊 High Contrast, Filter Type, Removable Calibrating Screen

See the new Model ES-550 at your favorite Electronic Parts Dis-tributor. Ask for new 1955 catalog describing the complete line of PRECISION Test Instruments for all phases of AM, FM, TV.

PRECISION Apparatus Company, Inc.

70-31 84th Street, Glendale 27, L. I., N. Y.

Export: 458 Broadway, New York 13, U. S. A. Cables: Morhanex Canada: Atlas Radio Corp., Ltd., 50 Wingold Ave., Toronto 10

PRECIS



Good music for listening pleasure is the primary reason for having a high quality audio system in the home. This fact has been mentioned several times in these columns and is the reason why we usually use the term "home music system."

BLUEBEARD

If we are to obtain high quality reproduction of music from an audio system, no weak links can be tolerated. Every unit or section of the system must do its part and do it well. The program material, obtained from records in most cases, must be considered as a critical part of the system because any faults or undesirable effects will be reproduced as well as the desired portions. In fact, the undesirable things are often more disturbing when heard from the loudspeaker of a high quality system which reproduces everything faithfully than they would be if reproduced by a mediocre outfit.

Anyone not acquainted with the effect produced by defective or damaged records is usually amazed to find just how severe the disturbance can be. An example is the recent experience of an owner when he turned on his audio system in his newly constructed home and operated a high quality music system for the first time. The writer was requested by the perplexed owner to come and find out what was wrong with the outfit. He said it seemed there were

many high-pitched sounds coming out of the loudspeakers. As was suspected, the disturbing sounds were found to be ticks and pops caused by damaged records.

for Orchestra

RITT REINER

04.1.2.13 and -1

J. S. BACH

The records were new but had been removed from their protective jackets and subjected to handling in the unprotected state. The interior of the house was not completely finished, and most surfaces were covered with a film of dust and grit from sawing and sanding. The records had been laid on bookshelves; consequently, they had received many small scratches and were more or less covered by the dust and grit. The resulting ticks and pops were very noticeable and disturbing when heard in the large rooms which were still empty.

The owner was relieved to learn that the system was operating satisfactorily but was surprised to find that the care and handling of records is so important and critical. He was convinced by the satisfactory reproduction obtained from clean and undamaged records.

Proper care and handling of records are so important that correct methods should be understood and used by everyone who uses or handles records. The satisfactory

CARE and HANDLING of RECORDS

by ROBERT B. DUNHAM

reproduction and the extended useful life to be obtained from records as the result of using and handling them with care should surely point out the value of a discussion of the measures to be observed.

Most present-day records are 33 1/3-rpm and 45-rpm microgroove disks played with a 1-mil (.001-inch) stylus. Some manufacturers have discontinued production of 78-rpm (3-mil) records. Microgroove records are made of plastic and are termed unbreakable, but the small and delicate grooves in the playing surface can be damaged. Any small scratch, if it cuts into the wall of a groove, will be heard as a tick or pop from the loudspeaker when the record is played. The loudness will depend upon the depth and size of the scratch. Dirt, dust, grit, or any other foreign matter in the grooves can cause noise as the stylus moves through the contaminated grooves. Furthermore, such foreign matter can cause permanent damage when forced against the walls of the grooves by the stylus as the record is played. The damaged record cannot be repaired when the grooves become deformed by being gouged, scored, or imbedded with grit.

Handling

A record, when not in use on a turntable, should be kept in its protective container. Many types of containers are used with records. These include boxes, envelopes, and various types of jackets and sleeves. It is now becoming a common practice to use some form of lightweight paper or plastic envelope or sleeve on the record inside the heavier outer container for added protection.

The manner in which a record is removed from its protective cover

* * Please turn to page 65 * *

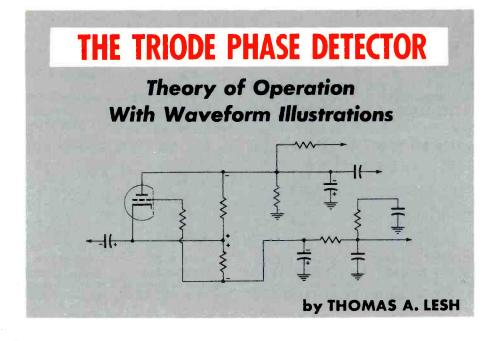
He's proving Pyramid Imps are better!

These molded paper tubular capacitors are smaller and better; will operate at full rated voltage at 100° C with less than 2% change in capacitance; will meet test requirements of Government specifications MIL-C-91A; copperweld leads are securely imbedded.

These features, plus an almost indestructible thermo-setting plastic encasement make Pyramid Imps your best molded paper tubular capacitor.

for full information on Pyramid capacitors and rectifiers, see your local distrbutor or write to





The phase detector, one type of circuit used to supply horizontal AFC in television receivers, commonly employs a dual diode such as the 6AL5. Occasionally, the technician will find sets which have a modified circuit using a triode.

The function of both types of phase detectors is to compare two voltages - sync pulses from the incoming signal and a sawtooth voltage developed usually by integration of a pulse from the horizontal-output transformer of the receiver. If the voltages are not in phase, a correc tion voltage is applied from the phase detector to the horizontal oscillator in order that the frequency and phase of the oscillator will be the same as the frequency and phase of the sync signal. The oscillator that is teamed with the phase detector is usually either a cathode-coupled multivibrator or a combination of a sine-wave oscillator and a reactance tube. In the first case, the correction voltage is fed to one grid of the multivibra tor tube; and in the second case, it is placed on the grid of the reactance tube.

Dual Diode

A review of the operation of a phase detector using a dual diode should be helpful in explaining how the triode circuits differ from the diode circuits. Fig. 1A is a schematic diagram of one arrangement of a diode type of circuit. Sync pulses of two polarities are taken from a phase-inverter stage. Positive sync pulses are applied to the plate of V1A, and negative pulses are applied to the cathode of V1B. The sawtooth wave is applied to the cathode of V1A and to the plate of V1B.

If the oscillator is on frequency and in phase with the sync pulses, the pulses will occur at instants when the value of the sawtooth voltage is zero. The pulses, which are of equal amplitudes, cause the diodes to conduct equally and to charge C1 and C2 in the polarities shown on the diagram. Between pulses, C1 discharges through R5 and R7; at the same time, C2 discharges through R4 and R7. The voltages developed across R7 by these discharge currents are opposite in polarity, and they are equal because the capacitors were equally charged and because the resistances in the discharge paths are equal. The resultant output voltage taken from the top of R7 is zero.

The sawtooth wave causes some conduction in addition to that caused by the sync pulses, but this conduction is equally divided in the two diodes. The voltage produced by the sawtooth wave has an average value of zero, when measured across R7, no matter what the phase of the sawtooth wave may be.

Production of a correction voltage is the result of an unbalanced condition in which one diode conducts more than the other during a syncpulse interval. When the oscillator associated with the circuit shown in Fig. 1A is running too fast, the sawtooth voltage reaches a positive value by the time the sync pulse arrives. The diodes are therefore biased in such a manner that V1B conducts more heavily than V1A, and C2 is given a greater charge than C1.

The resultant voltage across R7 is positive. A voltage of this polarity is needed to slow the oscillator used with this phase detector. If the oscillator tends to run at a reduced rate, V1A conducts more heavily than V1B and the correction voltage is negative.

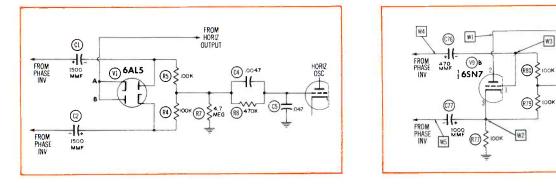
Triode in Motorola Model 21T21E

There are some similarities between the diode phase detector and one type of triode phase detector. A circuit in the Motorola Model 21T21E is shown in Fig. 1B. The triode receives the same input sig-

* * Please turn to page 76 * *

FROM

- HORIZ OUTPUT



(A) Dual-Diode Circuit.

(B) Triode Circuit in Motorola Model 21T21E.

Fig. 1. Typical Phase Detectors for Horizontal AFC.



G-C CRT **DUO-DECAL TEST** SOCKET ADAPTER For top-of-chassis tests No. 9251 NET \$1.95



G-C GRILLE CLOTH ASSORTMENT Various sizes and patterns.

No. 9114 NET \$0.99



G-C HIGH-VOLT TEST LEADS Heavy duty TV leads; phone tips. No. 9100 NET \$3.00

G-C POCKET HEX

KEY WRENCH SET

Seven sizes .050" to 3/16"; case.

No. 9124 NET \$1.65



G-C PRINT-KOTE SILICONE RESIN Protects printed circuit repairs.

No. 14-2 NET \$1.17

G-C "99" RUBBER GROMMET ASSORTMENT Many types & sizes : plastic box No. 9121 NET \$0.99



G-C "99" SPRING ASSORTMENT Styles and sizes for all repa No. 9118 NET \$0.99



ASSORTMENT

GENERAL

G-C SCREW-STARTER SCREW DRIVER Metal & fiber washers, all typ Starts screws in tight spots No. 9119 NET \$0.99 No. 9148 NET \$2.10



G-C SPRAY-KOTE TUBE-KOTE Touch up scratched picture tubes No. 49-12 NET \$2.17



G-C K-27

PRINT-KOTE

Pressure-spray silicone resin

No. 14-6 NET \$2.17



G-C SPRAY-KOTE HAMMER-KOTE Brown hammer finish, air drie No. 83-12 NET \$1.83

G-C SPRAY-KOTE APPLIANCE WHITE

No. 9113 NET \$1.30

G-C 7-PIECE

NUT DRIVER SET

Sizes 3/16" to 1/2"; wall rack

No. 9208 NET \$3.60



G-C DUAL SPEAKER SWITCH ASSEMBLY KIT Wired, ready to use, No. 9188 NET \$1.17



G-C PHONE DUPLEX JACK AND PLUG For hi-fi and audio, ready-wired. No. 9226 NET \$0.90



G-C TV PICTURE TUBE BOOSTER

5-wire type, half-moon socket. No. 9136 NET \$1.50





G-C MOTOROLA

TV DIAL BELT

Genuine replacement for tuners.

No. 196 NET \$0.30

ENERAL C

G-C 9-PIN MIN. **TEST SOCKET** ADAPTER Use with alligator clips or prods No. 9249 NET \$1.85



G-C NUT & HEXHEAD SCREW STARTER For 1/4" & \$/16" hex nuts, screws.



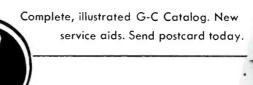
G-C DELUXE TV ALIGNMENT TOOL KIT

Roll-type case with 16 tools. No. 8280 NET \$7.74

FREE!

G-C 7-PIN MIN. TEST SOCKET ADAPTER Saves time on chassis tests No. 9247 NET \$1.65



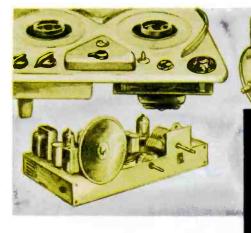






903 TAYLOR AVENUE . ROCKFORD, ILLINOIS

www.americanradiohistory.com



Raytheon Transistorized Radio With Chassis 8RT1

The receiver pictured in Fig. 1 is an example of Raytheon's new portable transistorized radio. There are very few transistorized radios on the market at the present time; but what the future holds for this new field, only time can tell.

The Raytheon receiver shown in Fig. 1 incorporates Chassis 8RT1. The physical locations of some of the components in the Raytheon transistorized radio are indicated in the photograph of Fig. 2. A schematic diagram of this chassis is given in Fig. 3. The unit employs eight transistors which actually replace the vacuum tubes that would normally be employed in a conventional portable AM radio. The transistors used in the RF, IF, and detector stages are the CK760 type made by Raytheon. The ones used in the audio stages are the CK721 or the CK722 type and are also produced by Raytheon. These types are shown in the photograph of Fig. 4.

The antenna, which is attached to the chassis, consists of a coil wound on a long ferrite rod. This type of antenna provides a rather high Q for the input circuit. The tuning capacitor is of the conventional ganged type, and the receiver has a frequency range from 540 to 1,600 kilocycles.

The signal from the antenna is inductively coupled to the base circuit of the mixer which is a CK760 transistor having a relatively low input impedance. Another CK760 transistor is employed as the oscillator.

A superheterodyning action takes place at the mixer because of the oscillator injection voltage which is coupled through the oscillator coil L2 to the emitter circuit of the mixer. The IF transformer L3, which also has a low input impedance, allows



Examining

Jeatures

3

Fig. 1. Raytheon Transistorized Portable Radio Using Chassis 8RT1.

the proper intermediate frequencies to pass from the mixer to the first IF stage. The intermediate frequency is 455 kilocycles; and the IF transformers L3, L4, and L5 are all single-tuned units. The first and second IF transistors operate in a similar manner to that of triode RF amplifiers and therefore require neutralization. Capacitors C12 and C17 function as neutralizing components, and they feed back a portion of the output signal to the input of each IF stage.

by LESLIE D. DEANE

A negative AVC voltage is fed back from the detector to the base connection of each IF transistor in order to control the gain of each IF stage. Resistors R13 and R18 develop the proper bias voltages required for

* Please turn to page 61 * *

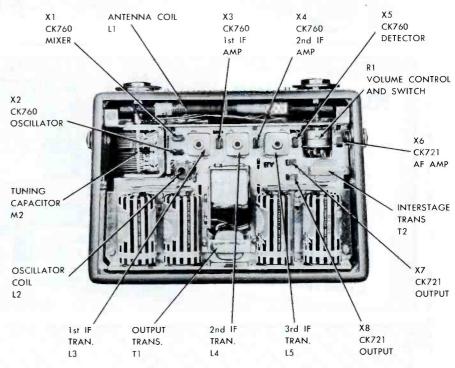


Fig. 2. Rear View of Raytheon Transistorized Radio With Cover Removed.



PF REPORTER, September 1955

It's easy for your customers to win.. nothing to write

OFFER THEM A CHANCE TO

"BEAT THE CLOCK

RIZES AT HO

nothing to buy...but every entry blank must be endorsed by you

TELEVISION

Weekly CONTEST PRIZES for home viewers include: TV CONSOLES TV TABLE MODELS HI FI PHONOGRAPHS CLOCK RADIOS

TABLE RADIOS

Nothing to write—nothing to buy—and everything to win. Sylvania's big, new "Beat the Clock" prize contest for home viewers is as easy as that. Every week, week after week you can create new contacts with the TV families in your community who want to play "Beat the Clock" at home and win one of 10 valuable prizes given away each week. How do you do it? Just see that they get an official entry blank endorsed by you.

It's the greatest business-building opportunity you've ever had. Make it work two ways for you. Bring new customers to your shop by displaying "Beat the Clock" prize promotion material. Tie in window and counter displays with the Sylvania products you sell. Bring your service into new customers' homes by mailing entry blanks to your TV community. Tie in the "Silver Screen 85" consumer booklet and other Sylvania direct mail material with your TV service.

Remember, never before has the TV Service Dealer had such a concrete part in a national TV program. Make Sylvania's "Beat the Clock" prize contest click for you. See your Sylvania Distributor for your promotion package.

SYLVANIA ELECTRIC PRODUCTS INC. 1740 Broadway, New York 10, N. Y. In Canada: Sylvania Electric (Canada) Ltd., University Tower Bldg., Montreal

ATOMIC ENERGY

LIGHTING

ELECTRONICS



THE WIDEST RANGE OF QUALITY REPLACEMENT RECTIFIERS IN THE

INDUSTRY

Makes a World _____ of Difference

HIGH QUALITY International, through its advanced designs and precision production, consistently meets—or exceeds the highest government and trade standards for all types of rectifiers. These high standards are maintained on *all* International products, assuring *you* a better product.

THE WIDEST RANGE IN THE INDUSTRY!... more than 10,000 types! International TV-Radio rectifiers are available in *all* sizes and types. This complete line of selenium and germanium products also includes industrial rectifiers, replacement diodes and a wide range of photo-cells and sun batteries.

SPECIFY INTERNATIONAL RECTIFIERS for long, dependable performance. Best for you... Best for your service customers!

Ask your distributor for details about International's "Bonus Pack" today!

International Rectifier

CALIFORNIA . OREGON 8 - 6 2 8 1 1 5 2 1 EAST GRAND AVENUE FL SEGUNDO Ave. W., Toronto, Ontario 0 d LARGEST SUPPLIERS OF JNDUSTRIAL METALLIC RECTIFIERS WORLD'S

PF REPORTER, September 1955



TROUBLES in VIDEO IF and DETECTOR SYSTEMS

A Servicing Guide Arranged by Symptoms

BY LESLIE D. DEANE and CALVIN C. YOUNG, JR.

The video IF strip, including the video detector, forms the link between the RF tuner and the videoamplifier stages. The IF amplifier stages use tubes which may be dual purpose and which may function in other sections of the receiver.

The video IF strip has three main purposes. The first is to amplify the signal from a station after that signal has been converted to intermediate frequencies, the second is to reject all other signals, and the third is to detect the video signal so that it may be applied to the video-amplifier stages. Even though different IF strips may tune to widely different frequencies, the problems associated with each are very similar.

The troubles usually encountered in a video IF strip are generally associated with certain symptoms either in the sound, in the picture, or in both. The following list contains many of these symptoms.

- 1. Raster, no picture, and no snow.
- 2. Snowy picture.
- 3. Ringing in picture.
- 4. Poor vertical synchronization.
- 5. Pulling in picture.
- 6. Lack of picture contrast.
- 7. Intercarrier buzz in sound.
- 8. Negative picture.
- 9. Hum in picture.
- 10. Intermittent troubles.
- 11. Smeared picture.
- 12. Overloading in picture.

General Discussion

A brief review of the different designs employed in the video IF and

detector stages along with a few general servicing hints will be presented at this point. It is hoped that this general discussion will better equip the service technician to trouble shoot these stages of the television receiver.

There are two major classifications for video IF circuits. One is the split-sound system in which the video IF and sound IF signals are amplified separately. The other is the intercarrier system in which both the sound and video IF signals are amplified through one common IF strip. In the split-sound system, the sound IF signal is extracted from the composite IF signal at some point ahead of the video detector. In the intercarrier system, the sound IF signal is permitted to pass through the video IF stages; however, its amplification is held to only about 5 per cent of that of the video IF signal. The majority of television receivers now in the field incorporate the intercarrier system.

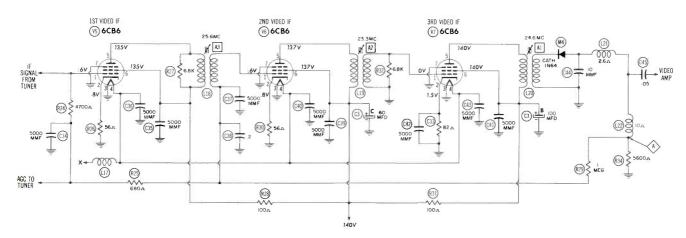


Fig. 1. Video IF and Detector System Which Employs a Crystal Detector and Transformer Coupling Between Stages.



Exact Duplicate DUAL CONTROLS available TWO ways

APPROVED

 D^{0} you prefer ready-to-use dual controls? Or would you like a small stock of control sections, switches and shafts that you can assemble quickly for the combination you need?

Either way, with Mallory, you can be sure of duplicating the exact electrical characteristics of the controls in practically any popular TV set.

Either way, with Mallory, you can equal or exceed the performance of the original equipment control. You can count on accurate resistance values, smooth tapers, quiet operation and long life.

Either way, with Mallory, you can be sure the job is right the first time ... without profitcutting "come backs."

Either way, your Mallory distributor has what you need. Call him today!

Exact duplicate, ready-to-use, dual control... factory-made with all the resistance values, tapers, taps, switches and shaft lengths needed for most of the popular TV sets.

Exact duplicate, dual control kits. With a small stock of factory-assembled control sections, you can make 10,000 different combinations. No soldering or special tools required. Assembly takes less than five minutes.



A

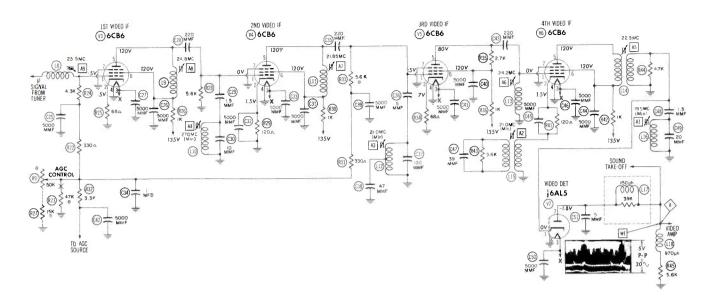


Fig. 2. Video IF and Detector System Which Employs a Diode Detector and Capacitive Coupling Between Stages.

The resonant circuit employed in the majority of IF stages consists of a coil or transformer in combination with the associated capacity of the circuits. Adjustment is provided by movable metal cores, and the stages may be overcoupled or staggertuned in either the intercarrier or split-sound systems.

The number of IF stages in a TV receiver will vary from two to four, and the stages may employ a wide selection of high-gain tubes. At the present time, the two IF ranges most commonly used in TV sets are the ranges between 21 and 26 megacycles and between 41 and 46 megacycles.

The video-detector stage will employ either a crystal diode or a vacuum tube connected in a series or shunt arrangement. The detected output signal from this stage will either be positive or negative, depending upon the polarity required by the video-output stage. The detector stage is sensitive to stray pickup and therefore requires adequate shielding.

The IF signal is usually inductively or capacitively coupled through the IF strip. A schematic diagram of a typical IF section which is transformer coupled is shown in Fig. 1. This circuit also employs a 1N64 crystal as a video detector. The schematic of Fig. 2 illustrates another typical IF strip; however, it utilizes capacity coupling and a 6AL5 tube as a detector. These schematics will be referred to from time to time in connection with the possible causes of each symptom.

Proper operation of the video IF strip depends upon three basic voltages: (1) the RF signal voltage supplied by the tuner, (2) the B+ voltage which is usually furnished directly from the low-voltage power supply or indirectly from the audiooutput stage, and (3) the AGC voltage which automatically controls the gain of one or more of the IF amplifiers. The AGC voltage is usually derived from the video-detector stage or from a keyed AGC circuit.

A trouble symptom that may point to an inoperative IF strip can often be caused by a defective component in another section of the receiver if the trouble affects one or more of the three voltages mentioned in the previous paragraph. The B+ and AGC voltages applied to the IF section can be checked with an ordinary voltmeter. If these voltages appear to be incorrect, it may be necessary to make a resistance check of the components in the B+ and AGC circuits.

It is rather difficult to formulate one universal trouble-shooting procedure to cover all symptoms that may develop because of a faulty videoIF or detector stage; therefore, only a general procedure for localizing the defective section will be presented.

Isolating the trouble to the RF, IF, or video-output circuits may be accomplished by tracing the signal with the aid of an oscilloscope. One of the first logical steps would be to check the signal at the video-detector load. If a normal signal is present, it usually indicates that the trouble exists in the video-output stage or that the picture tube is defective. If a normal signal is not encountered across the video-detector load, then the trouble is probably in the RF or IF stages.

The next step would be to check the tuner. One method to determine if the signal is getting through the tuner is to connect an RF signal generator across the antenna terminals. A signal modulated with 400 cycles should be used. Two resistors of about 100 ohms each should be placed in series with the generator leads. The oscilloscope detector probe may then be placed at the grid of the first IF stage, and a 400-cycle pattern will be observed if the tuner is passing the input signal. The 400cycle signal can also be traced on through the IF stages. A more detailed procedure for trouble shooting the IF section is outlined under symptom No. 1.

In trouble shooting an IF system, a check of the IF alignment is often very helpful. This check can help todetermine two conditions: (1) the frequency response and (2) the relative gain of the IF strip. The frequency response of the IF strip is represented by the shape of the IF response curve as seen on the face of the scope. The relative gain is represented by the height of the curve.

In order to be able to evaluate relative gain, it is necessary for the technician to be familiar with his particular alignment equipment and also to be familiar-with the approximate gain of an IF strip that is operating normally. These things can both be obtained by checking the IF response and gain of several receivers that are operating normally and by maintaining the same gain settings on the generator and oscilloscope. A check on the frequency response of the IF strip can be had by comparing the response pattern obtained on the oscilloscope face with

* * Please turn to page 47 * *

NEW!

NOISELESS!

ELECTRONIC!



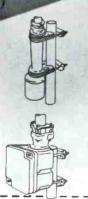


INTERCHAN SEABLE

Famous time-proved Superator models "100" and "500" have both been adapted for automatic operation (

OTHER THOMPSON PRODUCTS ELECTRONIC AFFILIATES

Bell Sound Systems
 Dage
Television
 Rama-Wooldridge
Corp.
 Pacific Semi-Conductors, Inc.



World's only silent automatic antenna rotator! No gears, no click, no clatter. Electronic fingertip VP* tuning. Antenna rotation and control is smooth, not in "steps" like ordinary automatics — provides a new standard of tuning accuracy for Fringe, UHF and Color reception. Write today for specifications.

*VP (Vernier Precision)

Thompson Products, Inc.

2196 CLARKWOOD ROAD • CLEVELAND 3, OHIO Available in Canada thru Atlas Radio Corp., Ltd., 50 Wingold Ave., Toronto

Dollar and Sense

John Markus

Editar-in-Chief, McGraw-Hill Radio Servicing Library

SURVIVAL. The secret "White House" outside Washington will be linked by a closed-circuit survival TV network with several other retreats to be occupied by government officials in the event of enemy attack. There will also be facilities for linking to commercial networks for reporting to the nation.



BLOOD. With an arm around each combatant at a boxing match, the referee adds an afterthought to his routine instructions: "...and, oh yes, one more thing — this is color television!.... So, bleed a little." Saw this in Walt Ditzen's FANFARE cartoon strip recently.

Wonder how many other TV programs will be affected by color. Will girls have to learn to blush all over again as they did in the gay nineties?

At least, we know that commercials adjacent to or within regularly scheduled NBC color programs will have to be in color; the notice went out to all advertisers. After Sept. 1 on WRCA-TV in New York and WNBQ in Chicago, advertisers will either use color at \$500 extra per 20 seconds or lose their place to some other client who will. It makes sense, too; in those first few minutes after a fine color program, any black-and-white commercial would look pretty sick.

Here's something to keep you up nights. Suppose that each tone of color was represented by a specific shade of gray in the range from white to black. Then, with a camera to translate colors into equivalent grays, color could be transmitted as a black-andwhite program for reception on black-and-white sets, provided that we had something to change the grays back to their colors for color viewing. Well, one firm claims to have done exactly this; you watch the receiver with binocularlike eyeglasses that convert the grays back into the original colors. The operating principle involves color temperatures in some way. Until we see a demonstration, though, we'll continue rooting for compatible color.



SURVEY. Checkup by General Electric of 150 models of 1954 and 1955 TV sets showed 119 different types of receiving tubes in a total of 2,950 sockets for an average of about 20 tubes per set. The new RCA color TV line thus has only 6 more tubes per set than the average for black and white.



TAPED TUTORING. A classified ad in Tape Recording magazine may well be indicative of a new way of learning by mail. A professor offers correspondence courses on tape in five different languages. You state your knowledge level and objective, and he outlines your program and gives the price.

Many types of courses could be offered on tape, with associated booklets of diagrams when necessary. Music, languages, dramatics, public speaking, and singing are just a few courses that come to mind. Completed lessons on tape could be returned in trade for the next, thus keeping down costs. Practice assignments could be recorded on separate tape by the student for analysis by the instructor, and the latter's comments and advise could in turn be recorded for the student.

In the same magazine, there is another unique use for magnetic recording. The Baltimore YMCA has three automatic announcement machines hooked to its telephone lines. When their number is called, one of the machines answers automatically with a 30-second recorded message of inspiration. A newspaper announcement of the service resulted in some 6,000 completed calls and over 16,000 ''busies'' during a 24-hour period, with all three machines running. Here's a typical message:

"Hello — we're glad you called! A wise man knows what to do next; a skilled man knows how to do it; and a successful man does it. God giveth to man that which is good in His sight wisdom, and knowledge and joy. (Eccles. 2:26) Your YMCA reminds you that families that worship together are happy families. — Thank you!"



TRANSISTORS. Pointing up the reliability of transistors, General Electric has increased the warranty period on its units from 90 days to a full year.



LAMPLIGHTERS. The arrival of the arc lamp for street lighting put our dad out of work back in the days when dogs lay waiting to nip him as he trudged the streets with his flaming torch to light the gas lamps at twilight. Then in turn the guy who replaced the carbon pencils of the arc lamps lost his job when they changed over to Edison's incandescent invention. And now the switch-thrower for these "gets the gate." In Manhattan and the Bronx, they're putting phototransistors right on the lamps to turn them on and off automatically. Or will the switchthrower be put back on the beat to replace phototransistors as they go bad?

* * Please turn to page 54 * *

INTRODUCING THE

OUD GEOMATIC TV ANTENNAS Join pend. BY FINCO

with exclusive Fidelity Phasing

Dictionary: the highest degree of accuracy in the repgoduction of a signal

Here are the antennas they said could never be developed — combining the finest features of an impedance matching, driven folded dipole on lowband with super-gain of a 3-element colinear on high-band (without the use of matching harness) to produce the — GREATEST BROAD-BAND ANTEN-NAS EVER BUILT! In addition, the new GEOMATIC Series features extremely high FRONT - TO - BACK RATIO! Models range from "in-town" types to super-fringe area antennas.

Model B-1 Metropolitan and Suburban



Model B-3 Fringe Area, 75 miles or more

> Model B-4 Deep Fringe Area, 150 miles or more

> > Copyright, 1955 Einney Compo

GEOWATIC means

customized for your locality

Now For The First Time —

Regardless of channels, distance from station, or terrain FINCO can deliver a model that is perfectly suited for your area — at no extra cost!

Write, wire or phone The FINNEY Company Henderson 2-2150 4012 ST: CLAIR AVENUE

HEnderson 2-2150 4612 ST: CLAIR AVENUE Dept. pF-95 CLEVELAND 3, OHIO Model B-5 Maximum Fringe Area, 200 miles or more

YOUR TV PICTURE TUBE INSTALLATIONS FINANCED BY GENERAL ELECTRIC

YOU can sell G-E picture tubes to your service customers on the instalment plan! First national tube credit program to be handled direct by a leading manufacturer!

• You tie up no capital—endorse no notes. You are reimbursed immediately for the full amount of your bill covering tubes, parts, and labor.

You sell high-profit tubes and

service where cash isn't available to your customers. You open the door wide to new business—more business! And those repaired TV sets piling up on your shelves which customers can't pay for, now will move out from your shop FAST.

• You have no collections or recordkeeping to worry about. Credit arrangements with your customers are made quickly and easily.

GENERAL



ELECTRIC

It's easy as 123

to sell new G-E picture tube installations on credit



You find that your customer hasn't the cash on hand to pay for the new G-E picture tube that's needed, plus other General Electric tubes, also parts and labor. So



You explain G.E.'s easy payment terms. The customer welcomes the opportunity to sign the contract. You then proceed to make the installation, and put your customer's TV in tip-top shape.

One call to your G-E tube distributor will bring full

Next day you turn over the contract to your G-E tube distributor, who reimburses you for the complete installation job, including labor.

READ HOW YOU CAN USE THIS GREAT NEW GENERAL ELECTRIC CREDIT PLAN!

OFTEN the price of a new picture tube keeps customers from having their TV sets serviced properly. They are forced to get along with an inferior picture, or no picture at all, while you lose a profitable repair job.

Now G.E. gives you a way to turn these lost jobs into service dollars. No longer need your customers pay cash in full. You can give them as long as six months to pay out of income, with a down payment as low as \$5. Yet you get reimbursed immediately by your G-E tube distributor. Furthermore, you endorse no notes, have no collections to make. That part is handled by the General Electric Credit Corporation in cooperation with your distributor.

Act today! Ask your G-E tube distributor to show you how to obtain . . . on easy credit terms . . . picture tube installation jobs you've never been able to sell before! *Tube Department*, *General Electric Company*, *Schenectady 5*, N. Y.



AND BE THE FIRST TO OFFER...

instructions, forms, and advertising-promotion helps!

New Look For old TVs

Choice of 10 decorator colors and patterns

"STIX" is its name, and it works wonders on old TV receivers. Your customers can quickly and easily change cabinets to blonde, or to 9 other desired colors or patterns. That TV receiver which has outgrown its living-room usefulness, can be made over into a second set that matches the decoration of den, rumpus-room, or nursery. "Stix"—made of Firestone Velon, and available from your General Electric tube distributor—is another big reason why your customers will want to have their television sets repaired . . . by you, who offer them new TV appearance along with new and better performance—a new set inside and out!

NINE OUT OF TEN TV OWNERS right in your neighborhood will read about the sensational new G-E picture tube credit plan—and about the new decorator coverings for old TV's





(Continued from page 11)

tester (whether it is a $\ensuremath{g_m}$ or emission type). To check even as few as five tubes would take between 7 and 10 minutes because of the various controls that had to be set before the value test could be made. To do a thorough service job, it is frequently desirable to check more than 5 tubes. and the time required would be increasingly longer. This is valuable time to the technician and his organization. The longer each job takes, the fewer the calls that can be made. Time is also important to the customer because he is being charged on a time basis. Anything that would reduce this checking time and still provide the necessary information would thus be beneficial to both the technician and his customer.

That was the first consideration. but there was a second problem which apparently was not unrelated. Central found that when the lowvoltage rectifier tube was replaced in a set, one or more tubes went bad soon afterward. This happened often enough to make it significant. The customer would call and lodge a complaint. Since this trouble occurred shortly after the service call. the customer felt that the set had not been repaired properly the first time. Trying to assure these customers that this was not the case seldom evoked any understanding, and it is not difficult to appreciate their reasoning. Even if the customer had complete confidence in the service organization, it would still seem suspicious that the set would fail so

soon after a service call. What makes the evidence even more conclusive in their eyes is the fact that the set had worked for "umpteen" months before the call. If the job had been properly performed, they conclude that it should certainly take more than a week or two before the set should go bad again.

When you stop to think of counterarguments to this reasoning, you readily see that they concern technical matters which the customer cannot understand; therefore, in 7 out of 10 cases you end by losing a customer unless you forego the charge for the second call. This generosity might wipe out any profit you may have made on the original call.

This is a problem that happened often enough to warrant special consideration. The reasons for the subsequent tube failures after the power tubes had been replaced were felt to be the increased stresses produced by the higher voltages that the new rectifier tubes developed and the fact that the other tubes were near the end of their useful lives anyway. A verification of this supposition was not made because the conditions under which the failures occurred did not lend themselves to individual examination. The manner in which the problem was solved seemed to substantiate the assumptions made.

After examining the various aspects of such a situation, the conclusion was reached that more extensive tube testing during a service call should be required. The ideal condition would be to test all the tubes in a set, since this would essentially constitute an over-all preventive maintenance check. All tubes that checked weak would then be called to the set owner's attention, and failure to replace them would then become his responsibility. From past experience, it was felt that the set owner would approve replacement of these tubes.

As the reader will immediately note, the one drawback to this solution was that it only tended to aggravate the first problem, namely, the time required to test tubes. It was apparent that a checker was needed to test tubes rapidly, and a project to develop one along these lines was started.

The result of this development program was the instrument shown in Fig. 3. This is a tube tester which incorporates a large number of sockets instead of the few sockets and numerous switches found on conventional testers. There are 30 sockets, and each is wired to accommodate only the specific tubes which are indicated for that socket. This arrangement permits 400 of the most widely used tubes to be checked. At the bottom of the instrument, there are two controls - one marked "Heater" and one marked "Sensitivity."

To test a tube, first locate its appropriate socket from the socket listings. The same listing also indicates the proper settings for the two controls. After the controls are set, the tube is inserted into the socket. By means of a test switch, the condition of the tube is revealed on a built-in meter.



Fig. 3 B&K DYNA-QUIK Model 500 Tube Tester.



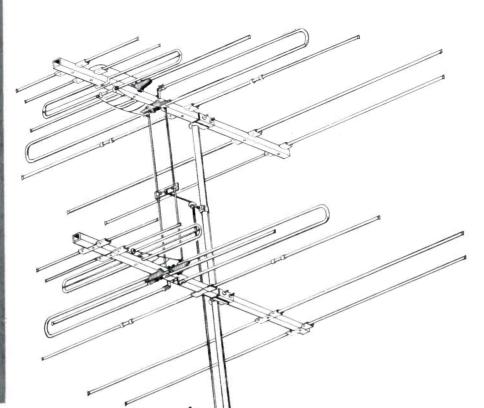
Fig. 4. Another Tube Checker for Rapid Testing.

150 field tests have proved to WARD jobbers:

- * Good VHF picture at as far as 200 miles on several channels
- * Excellent results at 100 miles
- Good results in areas where no other antenna was able to bring in a picture
- * More compact—25%-75% less stacking distance
- * Channel 2-13 response as much as 40% better than any comparable antenna
- * Unique superior snap-lock bracket
- Original WARD design all aluminum supplemented spring pressure bracket —eliminates possibility of intermittent contact
- TRY ONE—you'll find why the Invader is superseding all fringe and superfringe antennas.

WARD Model TVS 356 2 bay and stacking harness \$39.95 list

WARD Model TVS 357 4 bay stacking kit (feed harness only) \$3.95



BURTON BROWNE ADVERTISING

FHE INVADER GONQUERS

sweeps all other fringe and super-fringe antennas before it

^{*}an original WARD design



flat type Uni-plane Yagi for fringe area VHF and primary signal area UHF.

*Documental testimonials in our files



With this newly developed tester, a complete set of tubes for an average TV set can be checked in 12 minutes. If fewer tubes are tested, the time is correspondingly less. In addition, the tube-testing facility is complemented by a number of features which are desirable, as experience has indicated. For example, the instrument will indicate tube shorts and do this before the g_m test is made. It also possesses a life-test feature which indicates the ability of a tube to operate when its filament voltage is reduced. (The reader will recall that mention of such a test was made in last month's column.) It contains a sensitive check designed to reveal whether a tube contains gas, a contaminated grid, or grid-to-cathode leakage.

The idea for a quick-check tube tester is not new. One unit that has been available for some time is the TeleTest instrument shown in Fig. 4. This checks tube emission under loaded conditions; and it will reveal gas, grid emission, or interelectrode shorts. Undoubtedly, there are other such instruments on the market; and as their worth is recognized, more will appear.

The trend toward the development of instruments which enable a service technician to carry out his test procedures in less time than before is a healthy one that is indicative of a vigorous and expanding field. The customer will benefit by

the lower charges, and the saving of time will aid the technician by permitting him to do more and better work in the same length of time. A number of worthless gadgets will appear along with the desirable instruments, and caution will be needed to "separate the wheat from the chaff." The criterion which every test instrument must satisfy is: "Does this enable me to do a job better and faster than I am doing it with my present equipment?" If the answer is yes, the instrument is worth while. If the answer is no. then the instrument may be nice to have: but from a business standpoint, it certainly would not be needed.

REVIEW

Auto-radio repair generally poses no more of a problem insofar as circuitry is concerned than any home receiver. Actually, the biggest difficulty that one encounters with this type of servicing is either in gaining access to the chassis or in removing the set from its mounting. Once these have been accomplished, 75 per cent of your work is completed.

Circuitwise, only a few of all the possible causes are responsible for more than 90 per cent of the troubles found in auto radios. Once the technician has become familiar with these, he may perhaps find it profitable to pay more attention to repairing auto radios and thus open up a new potential source of income.

An article that discusses the major troubles that befall auto radios appeared in the March 1955 issue of Radio and Television News Magazine. The article was entitled, "Servicing Automobile Radios." It was written by I. Silverstein.

Radio and Television News Magazine is published monthly by the Ziff-Davis Publishing Company at 366 Madison Avenue, New York 17, N. Y. Subscription rates are \$4.00 per year for the United States, its possessions, and Canada.

The schematic diagram of a typical auto-radio receiver is shown in Fig. 5. It contains a 6BD6 RF amplifier: a 6BE6 converter: a 6BD6 IF amplifier; a 6AT6 detector, 1st AF amplifier, and AVC stage; and a 6AQ5 audio-output amplifier. Thus far, with the possible exception of the RF amplifier (which most home sets do not have), the circuit differs in no important respect from the AM radios that the technician sees every day. The significant difference between auto and home receivers is in the power supply. In the auto radio, we find a vibrator and either a gaseous or a vacuum-tube rectifier. The vibrator converts the applied DC voltage to pulsating DC which is stepped up to a high AC voltage by a transformer and then converted by the rectifier into a DC voltage suitable for use in the receiver.

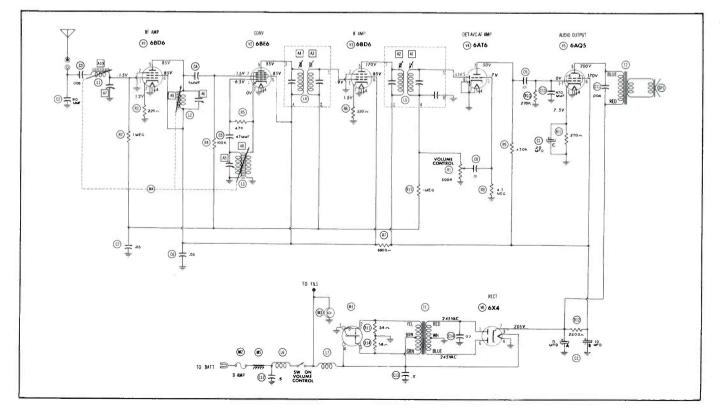


Fig. 5. Schematic Diagram of a Typical Auto-Radio Receiver.

BRIGHTER-SHARPER MORE DETAIL MORE CONTRAST

PICTURE TUBE

TUNG-SOL

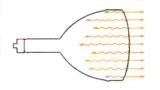
Magi

The "Magic-Mirror" Aluminized Picture Tube creates the brightest, most realistic TV picture you can bring into the homes of your customers. The "Magic-Mirror" tube effectively utilizes *all* the light generated by the phosphor screen.

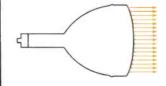
Tung-Sol has developed a unique "fogging" method of backing up the phosphor screen with a mirror-like aluminum reflector. This reflector prevents light radiating uselessly back into the tube. It brings out all the detail of which the receiver circuit is capable. So smooth and true is the Tung-Sol aluminum reflector that mottling, streaks, swirls, "blue-edge", "yellow-center" and other objectionable irregularities are eliminated.

Tung-Sol pin-point-focused electron gun assures a steady, brilliant picture—free from alternate fading and overlighting. Tung-Sol's exacting standards of quality control, manufacture and testing further guarantee the high uniformity and maximum performance of the "Magic-Mirror" TV Picture Tube.

For further details, including Tung-Sol's sales aids and advertising support, call your Tung-Sol supplier today.



ORDINARY TUBE—Only *balf* the light produced by the phosphor screen is utilized in the picture. Other half radiates wastefully back into tube.



MAGIC-MIRROR ALUMINIZED TUBE — Aluminized reflector allows electron beam rhrough. Blocks wasted light from backing up into tube. Reflects *all* the light into picture.



RESULT—A light background within the tube which reduces picture contrast.



RESULT—Pronounced increase in contrast to make a bright, clear, more realistic picture.

TUNG-SOL ELECTRIC INC., Newark 4, N. J.

Sales Offices: Atlanta, Chicago, Columbus, Culver City (Los Angeles), Dallas, Denver, Detroit, Montreal (Canada), Newark, Seattle. Tung-Sol makes All-Glass Sealed Beam Lamps, Miniature Lamps, Signal Flashers, Aluminized Picture Tubes, Radio, TV and Special Purpose Electron Tubes and Semiconductor Products. It is in the power-supply section that a high percentage of the troubles arise in auto radios. Mr. Silverstein lists three that he says affect 49 out of every 50 sets.

1. Bad rectifier.

Until just before 1950, the gaseous OZ4 tube was in general use; but since then the 6X4 vacuum tube has largely taken over (although OZ4's are still in use). Behavior of the 6X4, when it is going defective, is similar to that of other vacuumtube rectifiers. It may become completely inoperative all at once, or the receiver volume may decrease gradually as the tube emission decreases. Intermittent conditions that persist are not frequently encountered. In the case of the gaseous rectifier, intermittent operation is more prevalent.

2. Bad vibrator.

The second item that is responsible for a high percentage of trouble is the vibrator. When it is operating, a mechanical buzz will be heard. This does not necessarily mean that the unit is functioning satisfactorily, because a buzzing vibrator can still be defective. On the other hand, when a vibrator does not buzz at all, then it is not oper ating. The trouble may lie in the vibrator, or the radio fuse may have blown so that no power is reaching the receiver. Common reasons for vibrator failure are: pitted points (which may tend to stick) or metal fatigue in the vibrating arms. Under these conditions, replacement with a new unit is the only desirable solution. Occasionally, a technician will try filing pitted points. This affords only temporary relief, and the unit will soon become defective again.

3. Defective buffer capacitor.

The third major source of trouble in auto-radio sets is the buffer capacitor across the secondary of the power transformer. The current drain of the car radio rises 20 per cent or more when this capacitor is bad, and the trouble may even cause the vibrator or the power transformer to fail or the fuse to blow. In replacing this buffer capacitor, use one having the same capacitance value. This particular precaution cannot be stressed too strongly because a capacitor of the wrong value can reduce the life of a vibrator by as much as 50 per cent. Also pay particular attention to the voltage rating of the buffer capacitor, and never install one of a lower rating.

A desirable check to run on every auto-radio receiver before it

leaves the shop is measurement of its current drain. This value should be within one ampere of the figure established by the manufacturer as normal. If it exceeds this limit, additional troubles exist in the set. Excessive current drain is not only detrimental to the car battery; but when the extra drain is through the power supply, the vibrator arms may lose temper and possibly stick. Bad buffer and electrolytic capacitors are the most frequent causes of excessive current through the power supply.

While we are on the subject of current drain, it should be noted that the current used by an auto radio goes through three circuits: the tube heaters, the vibrator power supply, and the dial lights. Excessive current drain may stem from any one of these paths; but the most frequent offender is the power supply or a circuit which draws current from the power supply.

While the three troubles outlined are responsible for most breakdowns of auto radios, they are not the only ones. For example, a common complaint is weak volume. For this, the most likely causes are a weak tube (or tubes) or an open or partially shorted antenna. To shield the auto receiver from the electrical disturbances generated in the motor and also to protect it physically, the entire receiver is encased in a metal container. This shield prevents reception of any signals except those which are brought in by the antenna. Consequently, an auto radio is much more dependent upon its antenna than a home radio, and any factor which interferes with or otherwise weakens this signal path will have a marked effect on speaker output. A car antenna is connected to the receiver through a low-loss lead - a very thin wire designed to reduce capacitance in this circuit. Excessive movement of this lead will frequently cause it to break. A continuity check between the antenna and the receiver

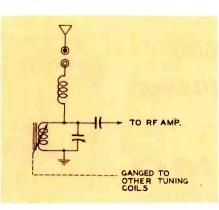


Fig. 6. The Antenna Input Circuit of Some Auto-Radio Receivers.

end of the cable will reveal any open circuit. An intermittent connection can also be uncovered by tapping the antenna and noting whether the ohmmeter needle is affected.

A continuity check between the antenna and the car chassis is also useful for uncovering short circuits. Before making this test inspect the circuit diagram to see whether the set has a low-resistance circuit connected between the antenna input and ground. See Fig. 6. If it does, remove the antenna plug from the set and make the same measurement. The circuit should be open.

For a quick method of localizing other troubles, the author suggests the old stand-by system of tube pulling. Start with the power-output stage, and remove the tube from its socket. If the stage is operative, a click will be heard in the loudspeaker. If a push-pull arrangement is employed, try both tubes. Then proceed to work back through the set, stage by stage, until you reach the point where a click does not appear. This is the section on which to concentrate.

There are additional troubles that may afflict a receiver. Intermittent operation is among the more common of these. Before the set is taken out of the automobile, make certain the trouble is not due to the antenna. Wiggle the antenna back and forth, and check to make sure that no intermittent grounding condition exists. Check the plug at the input terminal of the receiver to make certain that a good connection is being made. Poorly soldered connections or breaks may be found by moving the lead-in wire back and forth.

Once you are certain the trouble is not in the antenna system, the set may be removed from the car and taken into the shop where the search follows closely the procedure employed with home sets, except that there exists a greater possibility of broken connections or loose components because of the physical vibrations to which auto receivers are subjected.

Mr. Silverstein has chosen to concentrate only on those troubles which account for the majority of servicing of auto radios. Within these limits, the information is valuable; however, if extensive autoradio service work is contemplated, additional reading along these lines would be advisable.



Now packaged for your convenience!

Save time-do away with the cluttered mess of tangled wire leads. Use Sangamo Mica Capacitors, now mounted on space-saving cards.

These high quality mica capacitors are the finest available anywhere—at any price. They are fabricated with carefully selected premium grade India Ruby mica and are molded in Humidite for unequalled moisture resistance.

High quality wire lead micas for troublefree TV replacements



You can depend on these wire leads for completely trouble-free TV replacements.

Each card of five capacitors has rating and wvdc clearly marked. Each card shows the new RTMA Standards and the new MIL-C-5-A color code.

Stock up now-see your Sangamo distributor, or write us.



Color TV Training Series

(Continued from page 8)

of determining whether or not the coil is functioning properly.

Fig. E2 of the Color Plate illustrates the appearance of the screen when the purity control has become open. With this control open, excessive current is allowed to flow through the purity coil. This current produces a very strong magnetic field around the coil. The central axis of the three beams is greatly displaced from the central axis of the tube by this strong magnetic force. As a result, the center of the raster moves away from the center of the screen and becomes greatly contaminated with color.

The circuit and control of the field-neutralizing coil is shown in Fig. 12-24. This circuit is used to obtain color purity at the edges of the screen. After a pure red

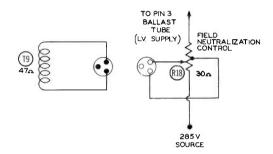


Fig. 12-24. Field-Neutralizing Coil and Control Circuit Used in RCA Model CT-100 Color Receiver.

screen (except at the edges) has been obtained during the setup procedure, the field-neutralizing control is adjusted to obtain purity at the edges. If this cannot be achieved, check the circuit in Fig. 12-24. If the voltage at the input of the circuit is correct, check the control and the coil for defects.

The electromagnetic type of picture tube employs neither a purity coil nor a field-neutralizing coil to obtain color purity. Instead, permanent magnets are used. The purity magnet, which is similar to the centering device used with some types of monochrome picture tubes, is placed around the neck of the tube. It has two rings which can be rotated when purity adjustments are made. If one or both of these rings loses its magnetism, correct purity cannot be achieved. The condition of the purity magnet is checked by direct replacement. The field-neutralizing device in an electromagnetic tube consists of a series of permanent magnets mounted around the rim of the face plate of the picture tube. All the magnets can be positioned individually to obtain purity at the edges of the screen. A magnet should be replaced if very little or no effect is noticed when the position of that magnet is altered.

Convergence Troubles

Shown in Fig. 12-25 is the convergence circuit employed in the RCA Victor Model CT-100 color receiver. This circuit supplies the vertical and horizontal voltages used to obtain dynamic convergence of the beams.

Whenever it is noticed on the screen that the beams are not converging properly, the adjustments of the convergence controls should first be checked. The setup procedure for obtaining beam convergence was discussed in Part XI of the Color TV Training Series in the April 1955 issue.

By close examination of a monochrome picture on the screen, it can be determined in which portions of the screen the beams are misconverged. Shown in Fig. E3 of the Color Plate is one example of misconvergence. Notice that along a horizontal line through the center of the test pattern there is very little misconvergence. Along the top and bottom of the test pattern, it can be seen that the convergence is very poor. This is signified by color fringing on the edges of the black lines in these areas of the test pattern.

Fig. E4 of the Color Plate shows how the same condition appears when a white-dot pattern is being viewed. The dots in the horizontal center row are converged properly, but those in the vertical center row are not. By examination of the appearance of the screen, it can be determined that the cause of the trouble is in the verticalconvergence circuit. First, the controls for vertical amplitude and phase are adjusted. If this does not cure the trouble, then the circuit is checked. In the circuit of Fig. 12-25, a vertical-convergence amplifier is employed. This tube should be checked before other components are tested. If the tube is found to be good, the circuit can be checked by using an oscilloscope.

The waveform at the grid of the first half of V19 should be like that shown in Fig. 12-26. This is the pulse that is derived from the vertical-output stage. If the pulse is found to be abnormal at the first grid of the amplifier, check the circuit between this point and the point where the pulse is obtained at the vertical-output stage.

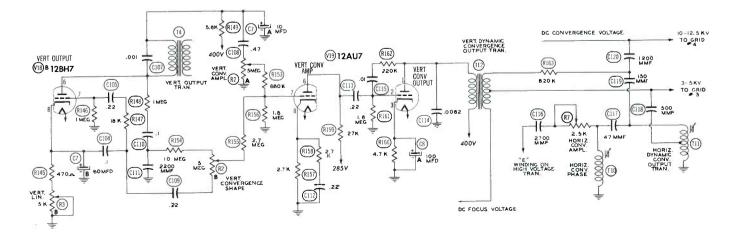
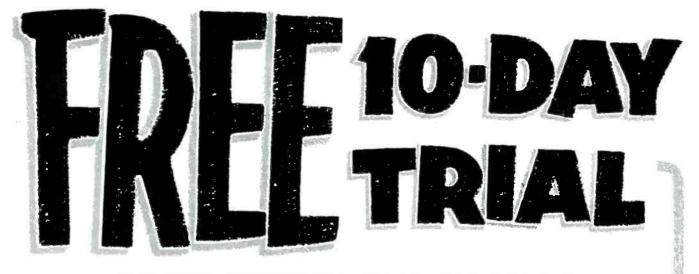


Fig. 12-25. Dynamic-Voltage Supply in RCA Victor Model CT-100 Color Receiver.



ON THE SYLVANIA TEST EQUIPMENT OF YOUR CHOICE... then after you decide to buy



-Type 403 7" Television Service Oscilloscope-\$269.50 -incorporating advanced features of models priced much higher



Experience without expense

Sylvania offers you an opportunity to experience the pleasure and profit of using high-quality test equipment, without being obligated to buy. Ask your Distributor to let you take the Sylvania Test Equipment you want back to your shop so you can use it for 10 days. If you're not completely convinced that your Sylvania Test Equipment is accurate and efficient to use, take

-Type 620 ► New Tube Tester-\$149.50 -equipped to test 600 ma series string tubes as well as all other conventional tubes.



Sylvania Electric Products Inc., 1740 Broadway, New York 19, N. Y. In Canada: Sylvania Electric (Canada) Ltd., University Tower Bldg., Montreal

ELECTRONICS

RADIO •

it back to your Sylvania Distributor. That's all there is to it.

Painless payment plan

If you decide to buy, your Sylvania Distributor will arrange easy payment terms. After a small down payment, you can take up to 18 months to pay on easy credit terms. Your new Sylvania equipment will bring extra profits which will more than pay for itself as you use it.

This offer is limited so see your Sylvania Distributor right away. He'll demonstrate the outstanding features of the Sylvania Test Equipment you need.

For the complete line of Sylvania Test Equipment you can buy on these new terms, write for the complete Test Equipment Brochure, Address Dept. E 35T.

Write for the Complete Test Equipment Brochure

SYLVANIA ELECTRIC PRODUCTS, INC.

Department E 31 T

1740 Broadway New York 19, N.Y.

TELEVISION . ATOMIC ENERGY

.

LIGHTING

.

The waveform at the second grid of V19 should appear like that shown in Fig. 12-27. If it has been found that the signal is normal at the first grid but is abnormal at the second grid, the cause of the trouble is located be tween these two points. The defective component can then be located by making a voltage and resistance check. If the waveform at the second grid is found to be normal, the cause of the trouble is between this point and the output of the vertical-convergence circuit.

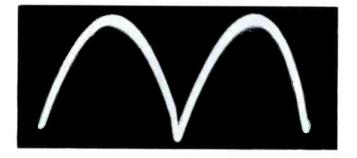


Fig. 12-26. Waveform of Signal at Pin No. 7 of V19 in Fig.12-25.

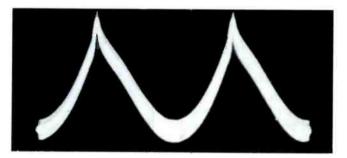


Fig. 12-27 Waveform of Signal at Pin No. 2 of V19 in Fig.12-25.

Fig. E5 of the Color Plate shows the appearance of a test pattern when misconvergence is present in the horizontal direction. Notice that convergence of the beams is correct through the vertical center of the test pattern. On the left and right sides of the test pattern, convergence is very poor. This indicates that the horizontal dynamic convergence is not correct but that the vertical dynamic convergence is all right. The white-dot pattern for the same condition is shown in Fig. E6 of the Color Plate.

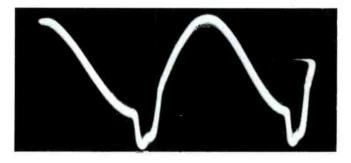


Fig. 12-28. Waveform of Signal at Junction of R7 and T10 in Fig. 12-25.

The convergence trouble is known to be in the circuit for horizontal convergence.

If it is not possible to obtain proper convergence in the horizontal direction by adjustment of the controls for horizontal amplitude and phase, check the appearance of the waveform at the junction of the horizontal-phase control T10 and the horizontal-amplitude control R7. This waveform should appear like the one in Fig. 12-28. If the waveform at this point is correct, the trouble is located after this point. If the waveform is incorrect, the trouble is located before this point.

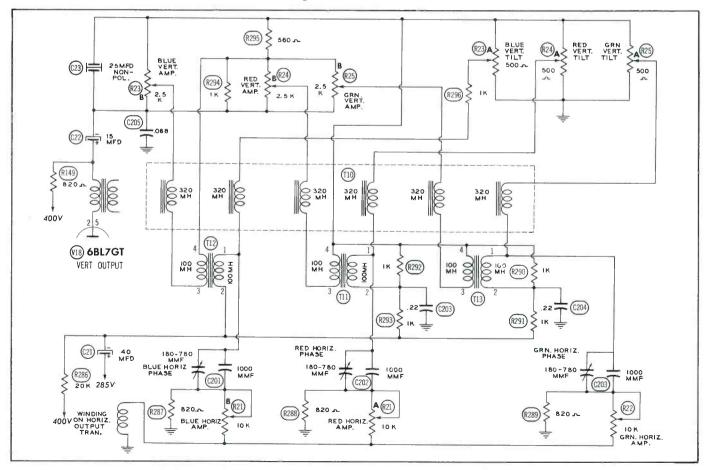


Fig. 12-29. Dynamic-Convergence Circuits Used in RCA Victor Model 21-CT-55 Color Receiver.

HOW TO MAKE MONEY IN HIGH FIDELITY WITH ensen Authentic HIGH FIDELITY LOUDSPEAKERS



G-610 Trianial



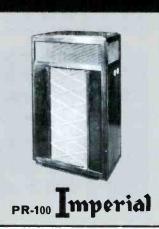
H-530 coaxial



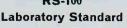
H-520 coaxial



H-222 coaxial









Have you been wondering how to get in the High Fidelity business—but find you can't compete under the established distribution and pricing system?

Now you can compete-at a Profit! If you are an established dealer, you can buy Jensen Authentic High Fidelity loudspeakers-the complete line-sell at prevailing prices and make a normal profit. You buy out of stocks in your area from a Jensen High Fidelity Wholesaler, selected for his experience and ability to help you with promotional material and sales counsel.

Why not get the story now-and be ready to get your share of the big high fidelity market? Just ask for "How To Make Money in High Fidelity"-on your letterhead, please.

Jouis w Selsor

Louis W. Selsor **Distributor Sales Manager**



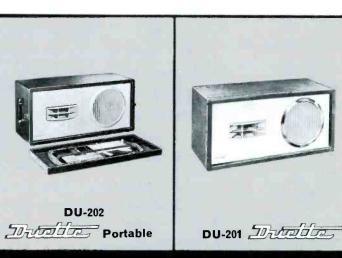


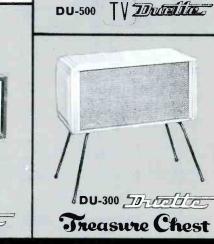






K-210 coaxial





MANUFACTURING COMPANY 6601 S. Laramie, Chicago 38, III. Division of The Muter Company • In Canada: Copper Wire Products, Ltd., Licensee

WORLD'S QUALITY STANDARD FOR MORE THAN A QUARTER CENTURY

Beam convergence in the electromagnetic type of picture tube is achieved through the use of electromagnets mounted around the neck of the picture tube. By control of the current through the coils associated with the electromagnets, the beams can be made to converge properly.

Shown in Fig. 12-29 is the dynamic-convergence circuit employed in the RCA Victor Model 21-CT-55 color receiver. The setup procedure for obtaining beam convergence in the electromagnetic type of tube was presented in Part XII of this Color TV Training Series in the May 1955 issue.

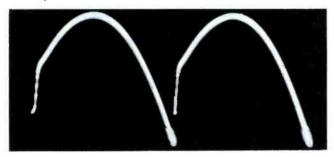
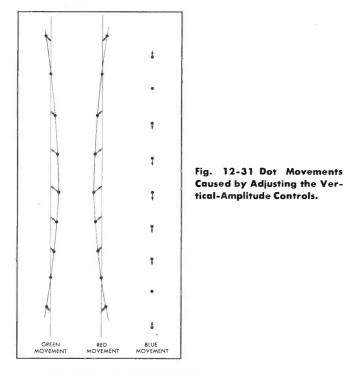


Fig. 12-30. Waveform of Signal at Junction of R149 and C22 in Fig. 12-29.

When trouble shooting the type of convergence circuit shown in Fig. 12-29, the same procedure should be followed as that for the convergence circuit used with the electrostatic type of picture tube.

If it is shown on the screen that misconvergence is present in the vertical direction only, the controls for vertical convergence are first adjusted to see if the trouble can be corrected. When making convergence adjustments, it must be remembered that a signal from a white-dot generator must be used.

If adjustment of the controls for vertical convergence does not cure the trouble, use the oscilloscope to make sure that the pulse from the vertical-output stage is being applied to the input of the circuit. This waveform, shown in Fig. 12-30, can be observed at the junction of R149 and C22 in the circuit of Fig. 12-29.



In the circuit of Fig. 12-29, there is associated with each convergence coil a control for vertical amplitude and one for vertical tilt. By adjusting each control while observing a dot pattern on the screen, the technician can determine which portion of the circuit is not functioning properly. Fig. 12-31 shows the directions in which the vertical center rows of dots should move when the amplitude controls are adjusted. Fig. 12-32 shows the directions in which the dots should move when the tilt controls are adjusted. When it has been determined which control is not functioning properly, a voltage and resistance check of the circuit associated with that particular control should reveal the cause of the trouble.

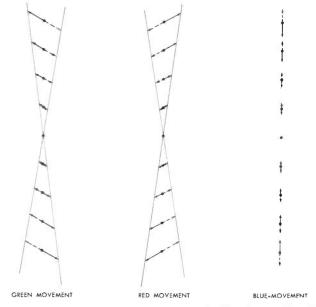


Fig. 12-32. Dot Movements Caused by Adjusting the Vertical-Tilt Controls.

If the beams are misconverged in the horizontal direction but are properly converged in the vertical direction, only the horizontal-convergence circuit needs to be checked. The same trouble-shooting procedure as that for the vertical-convergence circuit can be followed. First, make sure that the horizontal pulse from the horizontal-output transformer is being applied to the convergence circuit. Associated with each convergence coil, there is a control for horizontal amplitude and one for

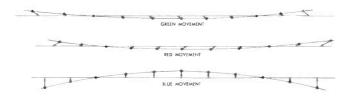


Fig. 12-33. Dot Movements Caused by Adjusting the Horizontal-Amplitude Controls.

horizontal phase. The directions in which the dots should move when the controls for horizontal amplitude are adjusted are shown in Fig. 12-33. If the dots do not move correctly when a control is adjusted, a voltage and resistance check of the circuit associated with that particular control should reveal the cause of the trouble.

In order to give the reader an opportunity to test himself on the material in this issue, we are including on the insert a few questions that are answered in this discussion.

C. P. OLIPHANT

September 1955, PF REPORTER



THE WORLD'S FINEST SERVICE DATA

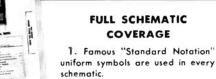
PHOTOFACT Service Data is the only service information based upon first-hand examination of the actual production-run receivers and equipment. It is authentic, uniform data developed through actual study and analysis by service engineers in the Howard W. Sams Laboratories. PHOTOFACT is

the only data prepared from the practical point of view of the Service Technician.

Thousands of Service Technicians use PHOTOFACT daily for time-saving, profitboosting service operations. If vou've never used PHOTOFACT, you've never realized your full earning power-you've never given such complete customer satisfaction. So get the proof for your-Self. Try PHOTOFACT—use it on any job. Your Parts Distributor has the Folder Sets you need for any of the 17,000 TV and radio receivers, changers, recorders, etc., covered in PHOTOFACT. Once you use this great service, we know you'll want the complete PHOTOFACT Library.

EASY-PAY PLAN TO FIT YOUR BUDGET

Ask your PHOTOFACT Distributor . . . he'll show you how you can now own the **PHOTOFACT Library through a unique** Easy-Pay Plan that exactly fits your needs. Pays for itself as you EARN MORE.



Ee Latta

2. The same standard, uniform layout is used for each schematic.

3. Diagrams are clear, large, easy to read, easy to handle.

4. Wave forms are shown right on the TV schematics for quick analysis by 'scope.

5. Voltages appear on the schematics for speedy voltage analysis.

6. Transformer lead color-coding is indicated on the schematic.

7. Transformer winding resistances appear on the schematic.

8. Schematics are keyed to photos and parts lists.

FULL PHOTOGRAPHIC COVERAGE

9. Exclusive photo coverage of all chassis views is provided for each receiver.

10. All parts are numbered and keyed to the schematic and parts lists.

11. Photo coverage provides quicker parts identifications and location.

ALIGNMENT INSTRUCTIONS

12. Complete, detailed alignment data is standard and uniformly presented in all Folders.

13. Alianment frequencies are shown on radio photos adjacent to adjustment number-adjustments are keyed to schematic and photos.

IT'S EASY TO SOLVE YOUR SERVICE PROBLEMS

See the PHOTOFACT Cumulative Index, page 88 and following

It is your guide to virtually any model ever to come into your shop; helps you locate the proper PHOTOFACT Folder you need to solve any service problem on any model. Once you have the make and chassis number, it takes just 60 seconds to find the applicable PHOTOFACT Folder.

Get the required Folders from your parts distributor and you are all set for faster, easier, better, more profitable work.

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

TUBE PLACEMENT CHARTS

YOU EARN MORE DAILY, HELP INSURE CUSTOMER SATISFACTION

14. Top and bottom views are shown. Top view is positioned as chassis would be viewed from back of cabinet.

15. Blank pin or locating key on each tube is shown on placement chart.

16. Tube charts include fuse location for quick service reference.

UBE FAILURE CHECK CHARTS

17. Shows common trouble symptoms and indicates tubes generally responsible for such troubles.

18. Series filament strings are schematically presented for quick reference.

COMPLETE PARTS LISTS

19. A complete and detailed parts list is given for each receiver.

20. Proper replacement parts are listed, together with installation notes where required. 21. All parts are keyed to the photos and schematics for auick reference.

FIELD SERVICE NOTES

22. Each Folder includes time-saving tips for servicing in the customer's home.

23. Valuable hints are given for quick access to pertinent adjustments.

24. Tips on safety glass removal and cleaning.

TROUBLE-SHOOTING AIDS

25. Includes advice for localizing commonly recurring troubles.

26. Gives useful description of any new or unusual circuits employed in the receiver.

27. Includes hints and advice for each specific chassis.

OUTSTANDING GENERAL FEATURES

28. Each and every PHOTOFACT Folder, regardless of receiver manufacturer, is presented in a standard, uniform layout.

29. PHOTOFACT is a current service-you don't have to wait a year or longer for the data you need. PHOTOFACT keeps right up with receiver production.

30. PHOTOFACT gives you complete coverage on TV, Radio, Amplifiers, Tuners, Phonos, Changers. 31. PHOTOFACT maintains an inquiry service bureau for the benefit of its customers.

HELPS YOU EARN MORE DAILY

Troubles in Video IF and Detector Systems

(Continued from page 31)

the pattern given in the alignment instructions.

The IF strip should always be clamped with a negative 3-volt battery for these checks. By always clamping the AGC at -3 volts, by always setting the gain control of the oscilloscope at the same point, and by adjusting the output control of the signal generator to produce a pattern of the same height, a basis for obtaining a relative-gain characteristic is reached. That is to say, by noting the difference between the settings of the output control of the signal generator, a relative-gain reading can be obtained. The gain of different IF strips will vary; but after checking several strips, the permissible range of this variation will become apparent.

When replacing a crystal detector, the technician must make sure that it is connected in the proper polarity. The crystals are coded to show the polarity of voltage that should be applied to the terminals in order to obtain maximum current flow. The cathode end of a germanium crystal may be painted green or marked with a negative sign (-). The anode terminal will be coded with a positive sign (+) or in some cases with no marking at all. When the crystal is schematically illustrated, the anode is shown as an arrowhead and the cathode as a bar.

In order to establish a reference for the photographs showing the various trouble symptoms, a normal test pattern is illustrated in Fig. 3.

Common Symptoms

1. Raster, No Picture, and No Snow.

Fig. 5. Setup for Checking Operation of Last Video IF Amplifier and Video Detector.

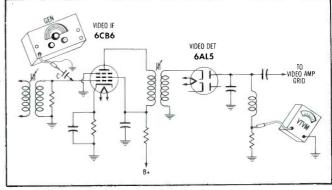


Fig. 4 shows the condition in which there is a raster on the screen but there is no video signal nor snow reaching the picture tube. This symptom and the loss of sound in receivers employing an intercarrier sound system may be caused by an inoperative video IF or video-detector stage. In the split-sound type of receiver, a trouble in the video IF section may not affect the sound; and the sound can be used as a guide for tuning in a strong operating channel. When the sound is normal in any receiver, it is a good indication that the RF and IF stages up to the sound take-off point are operating.

In the process of isolating the trouble to a certain section of the receiver, the obvious symptoms can often aid in pin-pointing the fault. The absence of snow in the raster usually indicates that the trouble exists somewhere after the mixer stage; however, in a few cases, a faulty tuner could also produce this condition.

In rare instances, receivers of the intercarrier type will produce weak sound with no picture when the trouble is in the video IF or videodetector stages. A small portion of the combined video and sound carriers will be coupled through the defective stage, and the small amount of the 4.5-mc beat frequency developed at the detector will be sufficient to produce some sound from the speaker even though the video frequencies will be too low in amplitude to produce a picture. When trouble shooting for a dead video IF or video-detector stage, the signal-substitution method can prove very helpful. The use of a VTVM and of a signal generator which has an output in the IF range of the receiver can quickly isolate the defective circuits.

The VTVM is placed across the detector load resistor, and the output from the signal generator is connected to the grid of the last video IF amplifier in the manner shown in Fig. 5. By varying the generator frequency through the IF range of the receiver, a frequency will be found that will produce a reading on the VTVM. This reading will be of a relatively low DC voltage of either polarity.

If the signal is able to pass through the last IF stage, the other stages can then be checked by applying the generator signal to the grid of each preceding stage. In some cases, the defective stage may not lie in the IF strip; consequently, a further check of the video-detector circuit is necessary. Trouble in this stage can be located by injecting a strong signal

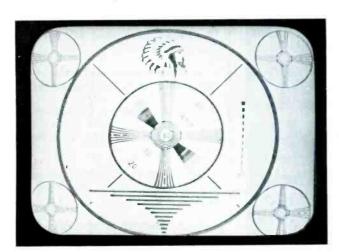


Fig. 3. Normal Test Pattern.

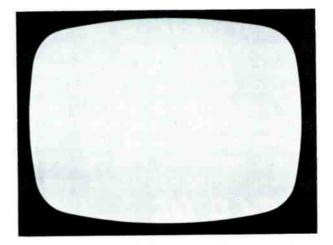


Fig. 4. Raster, No Picture, and No Snow.



The MODEL "777" VTVM is a completely self-contained, readyto-use test instrument. Its accessories and the HF co-ax cable, DC Probe, AC line cord and instruction book all fit in the genuine California Saddle Leather carrying case that is furnished with the instrument.

42 UNDUPLICATED RANGES

ILLUMINATED DIAL (5000 hour self-contained lamps)

- DIE CAST CHROME FINISHED BEZEL
- METAL CASE—unbreakable, ultra compact

DOUBLY SHIELDED, time proven 200 microamp movement

- PERMANENT ACCURACY . . . 3% DC, 5% AC
- ✓ LARGE, EASY TO READ SCALES 4-7/8" LONG

✓ COLOR CODED SCALES: green-ohms; black-AC, DC; red-P. to P.

2 ZERO CENTER SCALES for FM DISCRIMINATOR ALIGNMENT

- SEPARATE RANGE and FUNCTION SWITCHES
- ✓ ONLY 2 JACKS for ALL MEASUREMENTS

✓ NEW HIGH STYLE, EASY-TO-USE CHROME BAR KNOBS

DUAL PURPOSE HANDLE also serves as AC line cord reel

"777" VTVM complete with Coaxial Cables DC Probes and Leather Case at your PARTS DISTRIBUTOR

PHAOSTRON COMPANY . 151 PASADENA AVE. . SOUTH PASADENA, CALIF., U.S.A.

from the generator into the receiver at the input to the detector and by observing the indication on the VTVM .

If the signal generator can be internally modulated at 400 cycles or some other audio frequency, a pattern of horizontal bars will appear on the picture-tube screen and the VTVM can be eliminated. The bars serve as an indication of proper operation for each stage tested. A sweep generator can also be used in conjunction with an oscilloscope to isolate a dead video IF stage. First connect the oscilloscope across the video-detector load, and then inject the signal from the generator into each stage, as described in the signal generator and VTVM method. The IF response curve will appear on the scope if the stage under test is functioning.

In the majority of television receivers in the field today, there is little trouble with the video-detector stage, except for tube failure. The reason for this is the fact that in most designs no high supply voltages are required for this circuit, and longer life for the components usually results. Crystal diode detectors, however, are being used to a great extent in many of the new verticalchassis TV receivers. These crystals are sensitive to heat and moisture: and when one is defective, it may produce an intermittent condition or a complete loss of sound and picture.

Possible causes for a raster with no picture and no snow are:

a. Tube failure.

b. Shorted plate and screen decoupling capacitor. (See C35, C39, C41, or C3B in Fig. 1; C26, C31, C40, or C44 in Fig. 2.)

c. An open decoupling resistor or one of too high a value. (See R28 or R31 in Fig. 1; R26, R30, R36, or R42 in Fig. 2.)

d. Short circuits caused in video IF stages by pieces of solder or foreign material.

e. Tube pins not making good contact with their respective sockets.

f. Open coupling capacitors between video IF stages or to the detector stage. (See C28, C35, or C43 in Fig. 2.)

g. An open primary or secondary of an IF transformer. (See L18, L19, or L20 in Fig. 1.)

h. A defective crystal detector.

i. Shorted bypass capacitor in $\ensuremath{\mathsf{B}}+$ line.

j. Shorted or leaky coupling capacitor. (See C28, C35, or C43 in Fig. 2.)

k. Open cathode resistor in a video IF stage. (See R26, R30, or R33 in Fig. 1; R25, R29, R34, or R41 in Fig. 2.)

The most common cause of failure in the video IF section is a defective tube. Shorted elements in a tube will often affect other circuit components. In the case of a shorted plate or screen grid within a tube, the decoupling resistor of the stage may become overheated and it may open or increase in value. In a few receivers, heater-to-cathode leakage in the first IF stage may result in no picture, no sound, and no hum bars.

In some strong-signal areas, an open IF transformer or coil will produce a weak picture and a slight amount of sound; however, the same trouble in a weaker-signal area will result in the complete loss of both picture and sound.

The coupling capacitor from the last IF stage to the video-detector input may become leaky because of the B+ voltage present on the IF amplifier plate. This leakage may upset the proper functioning of the detector stage and result in a loss of the video signal.

Crystal detectors may develop a low output because of a change in the ratio between the forward and backward resistance. If a germanium diode becomes defective but it is still able to produce a picture, the picture will have a washed-out appearance and the contrast control will have little or no effect. One quick check of this type of detector is a resistance reading across the disconnected crystal. If the test prods are placed with the proper polarity across the unit, a reading in excess of 10K ohms is normal. By reversing the test prods, a decreased reading that is usually less than 500 ohms should result. If reversal of the test prods reveals no great difference between the two readings, the crystal should be replaced.

2. Snowy Picture.

A snowy picture with weak or noisy sound is caused by a loss of signal amplification in stages that precede the sound take-off point. A test pattern that contains snow content is shown in Fig. 6.

In order to receive weak signals with a minimum of snow, it is very necessary to utilize the maximum available gain of both the IF and tuner sections. Generally speaking, when a snowy picture with weak or noisy sound is caused by trouble within the IF section, it will be more noticeable on the weak signals. This is true since the AGC voltage applied to the IF strip is much higher when the set is receiving a strong signal; thus the IF strip is prevented from operating at maximum gain. The IF strip is not allowed to operate at maximum gain on strong signals because this would cause severe overloading, and distortion of the signal would result.

In receiving a strong signal such as one from a local station, a serious loss of signal amplification in a stage of the IF strip usually causes a degraded picture rather than a snowy one.

Possible causes of a snowy raster with weak or noisy sound are:

a. Defective video IF or detector tubes.

b. Defective detector crystal (if used).

c. Open plate coils in IF stages. (See L18, L19, L20 in Fig. 1; L9, L11, L14, L15 in Fig. 2.)

d. Low plate or screen voltage applied to IF tubes.

e. Open screen-grid bypass capacitors. (See C35, C39, C41 in Fig. 1; or C26, C31, C40, C44 in Fig. 2.)

f. Open cathode-bypass capacitors. (See C42 in Fig. 1; or C32, C45 in Fig. 2.)

g. Open RF bypass capacitor (detector filter network). (See C44 in Fig. 1; or C51 in Fig. 2.)

h. Cpen input grid coil. (See L8 or L13 in Fig. 2.)

i. Excessive AGC voltage applied to IF strip.

Remember that, in receivers which employ a split-sound system and in which the sound (as well as the picture) is affected, the trouble is located in one of the stages that precede the sound take-off point.

An investigation of the alignment and relative gain (as discussed) can be very helpful in restoring the gain of the receiver. In any alignment procedure, the tubes should be checked and all defective and weak ones should be replaced. All voltages should be normal before the alignment procedure is started.

3. Ringing in Picture.

The distortion that is evident in the picture illustrated in Fig. 7 represents either a severe case of ringing or a condition in which there are multiple images produced by a faulty video IF circuit. A distortion of this nature should not be mistaken for ghosts produced by any condition

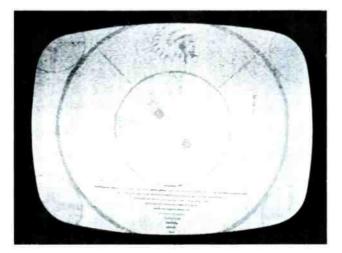


Fig. 6. Snowy Picture.

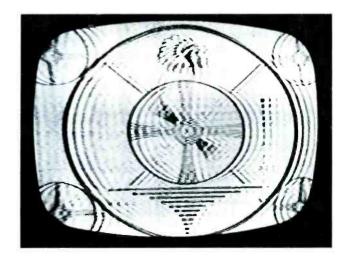


Fig. 7. Ringing in Picture.



external to the receiver. When a trouble within the receiver causes ringing, it should be noticed that the images will appear equally spaced from one another and weaker as they depart from the normal pattern. These multiple images will usually be affected by changing the position of the fine-tuning control. If the control is varied, the images may increase or decrease in number and change from a negative to a positive picture, or vice versa.

Because of the use of high-gain amplifier tubes in the video IF section, only a small amount of stray coupling between stages is sufficient to produce trouble. Coupling between the grid and plate leads can easily produce instability and in some cases can produce oscillation which results in picture ringing.

Misalignment in the video IF section is one of the most common causes that produce ringing in the picture; however, if a receiver is found to be out of alignment, this situation may be a result of some defective component. If the AGC or B+ voltages applied to the video IF stages are not at the proper level, the alignment will appear to be off. It is recommended that a thorough and complete trouble-shooting process should be undertaken before receiver alignment is attempted.

Possible causes of ringing in the picture are:

a. Defective tube in the video IF section.

b. Misalignment.

c. Improper placement of the leads or components in the video IF stages.

d. Open IF plate and screen decoupling capacitor. (C35, C39, or C41 in Fig. 1; C26, C31, C40, or C44 in Fig. 2.)

e. Shorted AGC filter capacitor. (C38 in Fig. 1 or C34 in Fig. 2.)

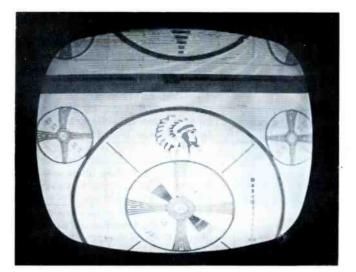
f. Defective video IF transformer.

g. An open cathode bypass capacitor in one of the video IF stages. (C42 in Fig. 1; C32 or C45 in Fig. 2.)

h. Improper shielding of the IF and detector stages.

i. Defective filament-bypass capacitor. (C36, C40, or C43 in Fig. 1; C27, C33, C41, C46, or C50 in Fig. 2.)

The RC decoupling network in each IF stage isolates each amplifier from the effects of the other stages



by eliminating direct connections through the B+ line to the other stages. An open bypass capacitor in either the cathode or screen circuit of an IF stage is capable of producing regeneration or ringing with an accompanving decrease in signal strength. In cases of this kind, the fine-tuning control tends to have little effect on the tuning of the sound signal. A shorted AGC filter capacitor will produce ringing, but it is generally accompanied by an overloading condition which may also disrupt the synchronization. Many receivers employ tube shields for the IF and detector stages and for the IF circuitry under the chassis. If these shields are not in place or grounded properly in an overly critical IF strip, ringing may result.

If any component is replaced in the video IF section, the physical position and lead dress for each wire should be carefully noted. Keep all leads as direct and as short as possible, unless a special lead dress is plainly called for in the original circuit design. By following these servicing hints when replacing a component, such as an IF transformer, a troublesome ringing condition may be prevented.

Fig. 8. Poor Vertical

Synchronization.

4. Poor Vertical Synchronization.

Problems concerning vertical synchronization are usually associated with the sync and verticaloscillator sections. Some of these troubles can, however, be traced to the IF system. When such is the case, it will usually be noted that the receiver has a tendency to synchronize in such a way that the sync bar shows on the screen or the receiver has a tendency to trigger on noise pulses. In Fig. 8, a test pattern with a visible sync bar is shown. Notice also that the contrast is somewhat weak.

Possible causes of poor vertical synchronization are:

a. Hum modulation caused by heater-to-cathode leakage in an IF tube.

b. Low plate or screen voltage applied to an IF stage.

c. Low bias applied to an IF stage.

d. Open screen-grid bypass capacitor. (See C35, C39, C41 in Fig. 1; C26, C31, C40, C44 in Fig. 2.)

e. Overloading caused by excessive signal applied to a stage.

f. Gassy tubes.

Hum caused by heater-to-cathode leakage in an IF amplifier tube can produce a loss of synchronization because the hum has the same frequency that the vertical-sync signal has. This type of trouble most often affects the vertical synchronization; but when the hum is severe enough, it can cause a loss of horizontal synchronization as well.

A low value of plate or screen voltage applied to an IF stage would have the same effect on a strong signal that a low value of bias would have. That is to say, a strong signal would overdrive a stage if the stage were operating with low bias, low plate voltage, or low screen voltage. This overdriving action by the large signal may cause distortion or complete elimination of the sync pulses.

Open screen-bypass capacitors can cause poor vertical synchronization because, in cases where the screen-grid bypass capacitor is open, a signal is present on the screen grid. This signal has a degenerating effect on the plate signal and can cause distortion in the sync-pulse portion of the video signal.

By causing a stage to have excessive gain, a gassy tube can be the source of sync trouble. This excessive gain within one stage can amplify the signal to such magnitude that a following stage is overloaded. This signal overloading can cause compression of the sync pulses.

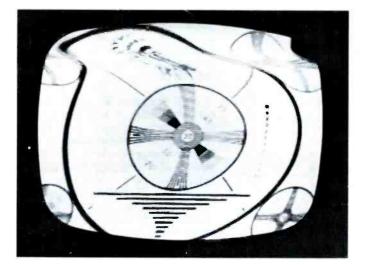


Fig. 9. Pulling in Picture.

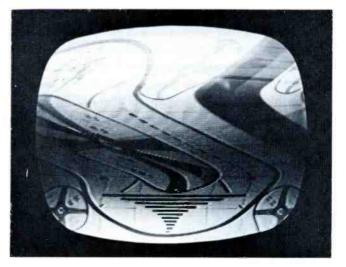
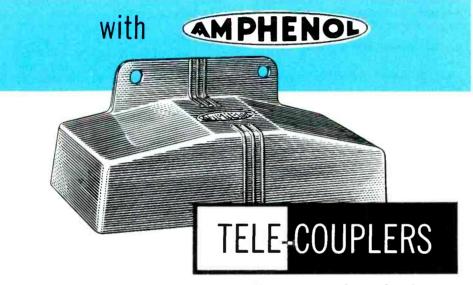


Fig. 10. Pulling in Picture With Brightness Modulation.

Dealers

PR-OMOTE

Plus Profits



Are you a dealer in television sets? If you are you have already spotted the trend toward the two set family. You can promote plus profits on the sale of the second set with AMPHENOL Tele-Couplers! These small accessories effectively couple two, three or four tv sets to a single antenna lead-in. Tele-Couplers are easy to sell for they save the customer the expense of an additional antenna installation.

To help you merchandise Tele-Couplers AMPHENOL has prepared an attractive counter display carton containing 12 Tele-Couplers. On your counter this display may help stimulate your customers into the purchase of that second tv set! A small folder describing the Tele-Couplers is also available—to give additional facts and to give additional impetus to your sales of tv and AMPHENOL Tele-Couplers.



5. Pulling in Picture.

A pulling or horizontal bending of the picture is encountered very frequently in television servicing. The photograph of Fig. 9 illustrates a pulling effect near the top of the picture, and Fig. 10 represents a severe case of pulling accompanied by brightness modulation.

Picture pulling or horizontal bending can result from any one of a number of defects in several different sections of the TV receiver; however, this discussion deals primarily with troubles situated in the video IF and detector stages.

Two checks are useful in isolating a defect which is causing picture pulling or raster bending. First, observe the edge of the raster by using the centering mechanism to bring it into view. If there is no bending in the raster, the defect is ahead of the horizontal oscillator. In those sets in which the sync take-off point is after the stage employing the contrast control, the amount of picture pulling will vary when the contrast control is varied. If the setting of the contrast control is decreased and if the pulling tends to decrease, the trouble is probably in the video IF section or in the tuner. If the pulling tends to increase, the trouble is in the sync stages or in the video amplifier.

Another symptom which often occurs with picture pulling is brightness modulation. This modulation will appear as a dark area horizontally across the screen. This dark hum bar which may accompany picture pulling usually indicates a defective tube. One of the more common causes of this type of distortion is heater-to-cathode leakage in the RF or IF tubes. The presence of the 60-cycle voltage in the video signal usually results in brightness modulation; however, if only one tube has a very slight amount of leakage, the picture may tend to pull but the modulation will not always be noticeable on the screen.

If the trouble is not due to a defective tube, it will be necessary to remove the chassis from the cabinet in order to determine the reason for the picture pulling. In some instances, unstable vertical synchronization will accompnay the pulling condition. This often indicates that the receiver has a poor low-frequency response. In order to make a quick check of the low-frequency response, turn up the brightness control and adjust the vertical-hold control until the vertical-blanking signal appears on the screen of the picture tube. The

PF REPORTER, September 1955

vertical sync pulse should be darker than the darkest portion of the picture. If it is not, the sync pulses are too low in amplitude because of poor lowfrequency response or the signal is being limited somewhere in the video section.



Fig. 11. Horizontal Blanking Pedestal and Sync Pulse. (A) Normal; (B) Distorted Because of Poor Low-Frequency Response.

The waveform shown in Fig. 11A represents a normal horizontal blanking pedestal and sync pulse. The waveform in Fig. 11B shows the distorted shape of the same signal after passing through an amplifier having a poor low-frequency response. The sync pulse is usually completely lost, and the horizontal oscillator will attempt to synchronize to the leading edge of the blanking pedestal. This condition is often accompanied with poor vertical synchronization because the loss in low-frequency response will also affect the vertical sync pulses. Before attempting any video IF alignment, the adjustment of the local oscillator should be checked to make sure that the picture carrier is properly situated on the video IF response curve.

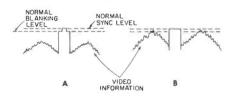
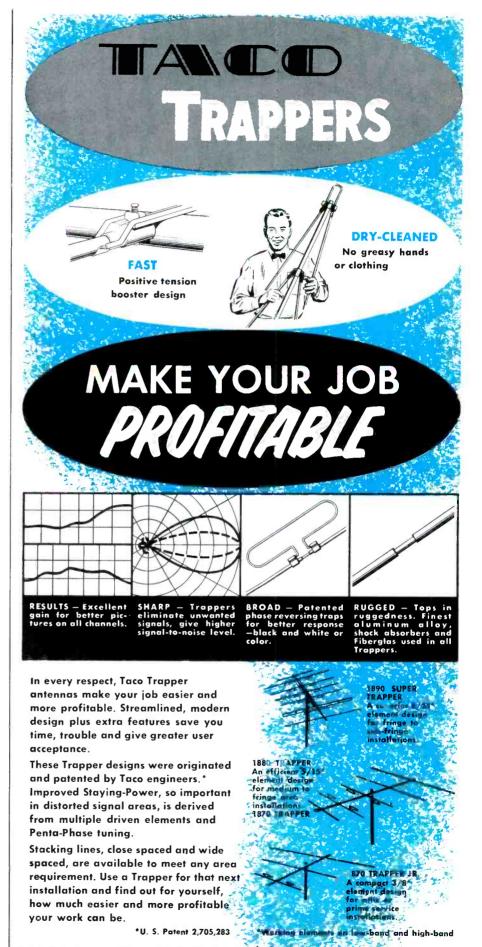


Fig. 12. Composite Video Signal. (A) Normal; (B) Sync Pulse Missing Because of Clipping Action.

Another form of distortion in the horizontal-sync pulse is shown in Fig. 12. A normal video signal in Fig. 12A illustrates the correct syncpulse amplitude with respect to the video information. Fig. 12B represents the signal after it has undergone a limiting or clipping action in the last IF amplifier or in the video-output stage. In the latter drawing, the top of the sync pulse has been clipped; however, the video information has been amplified and some portions reach the same level as the sync pulses. Under these conditions, the video information tends to trigger the horizontal oscillator and severe picture stretching often occurs.

Excessive gain in the video IF stages may be caused from a defective



TECHNICAL APPLIANCE CORPORATION , SHERBURNE, N. Y. In Canada: Hackbusch Electronics, Toronto 4, Ont.

www.americanradiohistory.com



AGC circuit. If the AGC voltage is found to be normal, the grid voltage of each IF stage should be checked with a VTVM. A leaky or gassy tube may develop a positive grid voltage and cause the stage to overload.

Possible causes of picture pulling are:

a. Defective IF amplifier tubes.

b. Strong signal applied to the IF section causing an overloading condition.

c. Poor low-frequency response as a result of misalignment.

d. Shorted or openAGC filter capacitor. (C38 in Fig. 1; C34 in Fig. 2.)

e. Open decoupling or bypass capacitor. (C35, C39, C41, or C3B in Fig. 1; C26, C31, C40, or C44 in Fig. 2.)

f. Interference caused by improper shielding of the IF strip.

g. Poor alignment as a result of incorrect component placement or improper lead dress.

If picture pulling is a result of heater-to-cathode leakage in more than one of the video tubes, all of the defective tubes must be replaced to cure the condition completely. In receivers employing a series-filament system, leakage or shorts within a tube can sometimes affect the operation of one or more other tubes in different sections. This situation may result in freak symptoms which are often misleading to the service technician.

When the low-frequency response of a receiver is poor and the trouble is not due to a component failure, a complete RF and IF alignment may be required in order to correct this difficulty; however, adequate alignment data for the receiver should be obtained before attempting this operation.

Symptoms Nos. 6 through 12, which were listed at the beginning of this article, are still to be covered. This will be done in a second installment of "Troubles in Video IF and Detector Systems."

> LESLIE D. DEANE and CALVIN C. YOUNG, JR.

Dollar and Sense Servicing

(Continued from page 33)

COLOR PROGRAMS. Playing down of color programs, to the extent that the "compatible color television" announcement is made only at the end of the show, has actually resulted in many owners watching a program on their color sets with the controls set for black and white because they didn't know it was in color. Few newspapers list the color programs because of the limited number of color sets that have been sold.

Color TV booster W. C. Moore, large Motorola distributor in Dayton, Ohio, runs co-op ads with restaurant and tavern owners of color sets on the days of big color shows. These help the night spots and promote color TV as well. In addition, he mails printed programs about once a month to all owners of Motorola color sets. These programs can be put up right alongside the sets. On superspectaculars such as the Peter Pan telecast, he used larger advertising space to list the locations of all color sets available to the public. PAINTING. If you have a favorite dish or cup for painting yet hate to clean it out after each job, try lining it with aluminum foil inside and out. The foil can then be thrown away when you finish, and the dish will be clean. How about trying it on a paint job some cool evening to put new life into the shop. Color is the thing these days. To pick the pair of colors that'll bring your shop in step with the times, just watch the new cars roll by.



FUTURE. Etched-wiring boards mean fewer factory errors and greater reliability of receivers once manufacturers obtain experience in moltensolder dunking to make all joints at once. Time, temperature, solder, and flux are the four factors that must be kept consistently in balance to achieve good dip soldering.

Most users of etched-wiring boards are doing the dip soldering by hand, sometimes with a timer and bell to signal the end of the 8- to 10second immersion interval. Automatic soldering machines are used by Westinghouse, DuMont, and a few other firms in order to mechanize this operation; but at present, all of these machines are loaded and unloaded by hand.

Automatic assembly machines are already inserting parts in wiring boards at RCA, Admiral, and Emerson plants, though bulky and odd-shaped parts still have to be inserted by hand. When insertion heads have been developed for these, the boards can go right on into the dip-soldering machine, untouched by human hands. Look for this step in mechanization sometime in 1956.

Most plants use a single dip in solder, but RCA consistently uses two solder pots side by side. The operator dunks the board in one for a few seconds, lifts it out, wipes a cake of beeswax across the solder in the second pot, then dunks the board in that pot to complete the job. The wax is claimed to give neater filleted joints and fewer shorts between wiring strips.



DATES. For tax-deductible business trips, consider the National Electronics Conference at the Hotel Sherman in Chicago Oct. 3-5, the Audio Fair at the Hotel New Yorker in New York Oct. 12-15, or the RETMA Radio Fall Meeting at the Hotel Syracuse in Syracuse, New York. SURPRISES. One nice thing about servicing is its variety of problems. You never know what'll show up next in a TV set. Now we have side and top controls, the vertical chassis, printed circuits, and even flashlight tuning. Next year, there'll be entire stages crammed into little modules or blocks; for replacement of these your bill to the customer may read, "Replace Horizontal Sync Stage \$9.75."

Both DuMont and Emerson are considering the use of some modules next year. Aerovox just took over a factory for making these things, too. It's the original Project Tinkertoy machine setup of the National Bureau of Standards.

Transistors are still the dark horse in the picture; no one knows yet what they'll do to the appearance of a TV set. Another question is what they'll do to servicing. If some 75 per cent of the troubles today concern tubes, if transistors don't fail in use, if wiring and soldering achieve perfection through printed circuitry, and if resistor and capacitor makers likewise turn out failure-proof products, we'll have a TV set that's as trouble-free as the modern electric refrigerator. But don't start looking for a new business yet - all this is a long long way off, and there's color television coming up fast to put cash in the till.

BOOMERANG. Trapped by the radar that he invented, Sir Robert Watson-Watt recently plunked out \$12.50 for a speeding ticket in Canada.

Our local police just bought radar equipment and expect it to pay for itself in a few months, even at special bargain rates of \$1 per mile over the speed limit. People have stopped challenging the accuracy of the electronic gadget, and they pay up and shut up to gef out of its range.



LOOK — NO SOLDER. Interconnections among the five etchedwiring boards in RCA TV sets are made without solder by using a Keller wire-wrapping tool to wind the stripped wire around each rectangular terminal. Tests show these joints to be electrically and mechanically equal or superior to conventional soldered joints. Once loosened for repair, however, they have to be soldered; human hands just can't wind wire tightly and evenly enough to get the required fusion of metals by pressure.

www.americanradiohistory.com

CASTLE. Human guides have disappeared from the famous castle of Langeais in France. At the entrance to each of the 12 halls through which tourists are conducted is a small knob. When turned by the supervisor accompanying the visitors, it starts a tape recorder that gives carefully worded historical information. At appropriate points in the commentary, pulses recorded on the tape actuate control circuits to turn on special illumination aimed at the piece of furniture or tapestry being described.



FILING. In place of EENY, MEENEY, MINY, MO for your file drawers, reader Eugene Olney suggests RADIO, AUDIO, VIDEO, FIASCO. Take your pick.



SUBMINIATURIZING. Motorola Vice President Dan Noble recently demonstrated a golf ball having a builtin transistorized transmitter and dime-size battery. It puts out a signal strong enough to be picked up by a portable radio receiver used as a direction finder. No more lost balls!

Hearing aids are rapidly approaching invisibility these days. One make is built right into eyeglass frames, and now Philco announces a unitno larger than a packet of matches.

Be assured that these refinements in miniaturizing are also going into military electronic developments. Next thing we know, machine-gun bullets will have built-in electronic target seekers that make every shot count. Our son doesn't agree, so we just read to him those lines from Tennyson:

- "For I dipt into the future, far as human eye could see,
- Saw the Vision of the world, and all the wonder that would be;
- Saw the heavens fill with commerce, argosies of magic sails,
- Pilots of the purple twilight, dropping down with costly bales;
- Heard the heavens fill with shouting, and there rain'd a ghastly dew
- From the nations' airy navies grappling in the central blue; . . .''

The fifth line takes on a new significance this year. Could Tennyson actually have been thinking of radio-active fallout, way back in 1843?

JOHN MARKUS



YOU NEED SOMETHING EXTRA

For instruments actually *ahead* of today's circuitry ...ready for the day when color TV becomes as general as today's black-and-white sets...look at the Hycon line, designed with the electronic serviceman in mind. Accurate enough for critical work in the shop, you'll also find these test instruments rugged, compact, lightweight...just what you need for those money-making house calls.

MODEL 616 COLOR-BAR/DOT GENERATOR

... for adjusting and testing color receivers and transmitting equipment by manufacturer, station or serviceman. Features: Seven output forms of bars, dots, cross-hatch, phase and color-difference signals, including NTSC color bars. PANEL PRESENTATION SHOWS ACTUAL COLOR AND SEQUENCE OF GENERATOR OUTPUT. \$4150



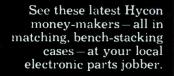


MODEL 614 VTVM

Convenience at unprecedented low cost sums up this rugged, serviceable instrument. Hycon plus features include: 21 ranges (28 with peak-to-peak scales); large 6½" meter; 3% accuracy on DC and ohms, 5% on AC; AC frequency response to 250 mc (auxiliary probe extra) AND TEST PROBES STOW INSIDE CASE, READY TO USE. \$0750

MODEL 617 3" OSCILLOSCOPE Designed both for color TV servicing and laboratory requirements. Features high deflection sensitivity. (01 v/in rms); 4.5 mc vertical bandpass, flat within ±1 db; internal 5% calibrating voltage. Small, lightweight... but accurate enough for the most exacting work. SPECIAL FLAT FACE 3" CRT PROVIDES UNDISTORTED TRACE EDGE TO EDGE. \$26950







Pasadena 8, Califoonia "Where accuracy counts" ORDNANCE - ELECTRONIC TEST INSTRUMENTS

ELECTRONIC SYSTEMS · AERIAL SURVEYS BASIC ELECTRONIC RESEARCH · AERIAL CAMERAS GO NO-GO MISSILE TEST SYSTEMS

In the Interest of Quicker Servicing

(Continued from page 17)

2. Output voltage correct - one bulb is lit.

3. Output voltage too high - both bulbs are lit.

A switch is provided to adjust the output voltage to the correct value.

The unit shown in Fig. 2 is representative of a type that has a meter which indicates the output voltage. The unit which is pictured is the Acme T-8394M voltage adjuster made by Acme Electric Corporation. A switch is used to adjust the output voltage to the correct value. Schematic diagrams of two typical voltage regulators, one of each type, are shown in Figs. 3A and 3B.

Adjustable line-voltage transformers are best described as devices which prevent trouble because, through their use, the voltage to the receiver can be maintained at a normal value. This will ensure that the voltages applied throughout the receiver are correct, and component failures which could be caused by excessive voltages will be minimized.

Some indications of a possible need for an adjustable line transformer are as follows:

1. Narrow picture.

2. Short tube life (in the output stages).

3. Filaments that burn out frequently.

4. Lack of focus on some receivers.

A good check to make when trying to determine the need for an adjustable line-voltage transformer is to measure the line voltage during the time of day when the receiver is usually operated the most. A reading that is too high or two low would show a definite need for an adjustable transformer.

For best results in using a variable line-voltage transformer, the voltage should be checked and readjusted each time the receiver is turned on. The indicating device on the transformer should be checked at intervals after that to make sure that the correct voltage is being maintained.

A QUICK CHECK FOR GAS IN PICTURE TUBES

A quick check for shorts or gas in a picture tube can be made by using a clip lead. This test can only be made on receivers that have parallel filaments, because the picture-tube socket must be removed.

To make this check, first remove the picture-tube socket and connect one end of a clip lead to ground; then turn on the receiver,

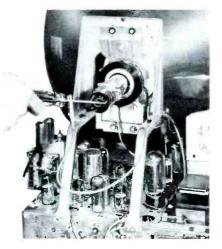


Fig. 4. Quick Gas Check on Picture Tubes.

and touch each pin on the picture tube with the other end of the clip lead. See Fig. 4. The presence of a small arc at any of the pins could indicate an internal short or leakage between the internal coating and a gun element, or it could indicate the presence of gas in the picture tube. In any case, the presence of an arc would indicate a faulty picture tube.

REPLACING TUBES IN THE TUBE CADDY

There is a tendency on the part of service technicians in the busy rush of the average workday to check the tube caddy too infrequently. This has in some cases caused a technician to find himself



Fig. 5. Tear Off Name Flap on Tube Carton for Guide to Replace Tubes.

on a service call without a needed tube. A situation such as this could necessitate either a trip back to the shop for the needed tube or a return call on the next day. Having to do without his television set for an extra day because the technician forgot a tube does not please the average customer; in fact, it some times results in the loss of a good customer.

Fig. 5 shows a tube carton from which the flap that bears the tube designation has been removed. If the service technician removes and retains this flap each time he sells a tube, he will be able to determine quickly at the end of each day just which tubes need to be replaced in his tube caddy. Replacing these tubes daily should help to ensure that most tube types will be available on every service call.

ROUTING SERVICE CALLS

Scattered over the country are a great many television service organizations that employ two or more technicians to make home service calls. In some of the larger organizations, a rather complete and efficient system of routing service calls is in use. In some other organizations, however, little or no system may be employed. The latter situation could be due to a lack of understanding on the part of shop managers concerning the way a system is set up or concerning the benefits from the use of such a system.

Information and suggestions relative to the establishment of a routing system will be given in this discussion. By adopting some such system, the shop manager may find thatfaster and more efficient coverage of his service area is possible.

The chief advantages afforded by a good routing system are:

1. Maximum coverage of a service area with a minimum of travel time.

2. Approximate arrival time predetermined and furnished to the customer for each service call.

3. Whereabouts of each technician known at all times so that he can be located for rush calls or for other reasons.

Dividing the Service Area

One of the first steps in setting up a routing system is to divide the total service area into sections. It is not necessary to have the same number of technicians as there are sections since one technician can be assigned to more than one section. Fig. 6 represents an area that has been divided. Notice how natural barriers were considered in selecting the divisions and how the through streets also act as boundaries between the sections.

The number of potential customers in each section should also be considered when dividing an area. Each section should include territory in which the customers are scattered and should also include territory in which there are many customers.

The allocation of service calls within one area does not have to be

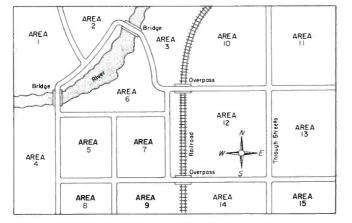


Fig. 6. Divisions for Routing Service Calls.

ROUTE No. 2

CUSTOMER'S NAME	ADDRESS	PHONE No.	MAP	TYPE OF CALL	ESTIMATED TIME OF ARRIVAL	SHOP TECHNICIAN	NOTATIONS
J.W. DoKes	125 W. North	BY-6113	1-C	Service	A 9:30 AM		setpened
B. Black	1923W. Franklin	BY.4151	2-A	Delivery	A 10:00 AM	John	
C Starr	990 N. 10th	ER-5913	7-B	Pickup	B 2:00 PM		Customes not
J. Smith	1620 N. 10 th	ER-2165	6-B	Service	B 1:00 PM		pict up
		-					
					B= BEFORE A=AFTER		

Fig. 7. Sample Routing Sheet.



Retract.O.Matic

-the new, foolproof replacement

Pickup

Even if you drop it ... or slide it ...

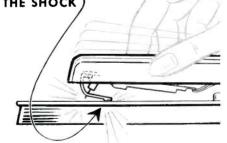
Retract.O.Matic protects records and needles from damage!

WEBSTER ELECTRIC proudly offers the new, exclusive RETRACT-O·MATIC—the sensational crystal pickup that provides positive protection to record and needle, even when it is dropped or slid across the record surface.

Retract·O·Matic is priced to make it a *practical* replacement for installation on any manual record player.

THE DOME ABSORBS THE SHOCK

The unique spring-mounted construction gives absolute insurance against damage to cartridge, needle, or record. The slightest pressure on the arm automatically lifts the needle from the record's surface, and lets Retract-O-Matic's rounded "dome" absorb the shock.



A BIG PROFITABLE MARKET

Retract O Matic is a "natural" as a pickup replacement for record players, children's and portable phonographs. List price of complete assembly (tone arm, cartridge, arm rest and all parts needed for installation) is only \$6.95 little more than the price of the cartridge alone. Order a stock today. Step up your sales with Retract O Matic!



reserved to the technician assigned to that area. If that technician is working near one boundary or corner of his area and a call from the opposite side of that area is received, the routing system should be flexible enough so that the technician working the closest to the call should answer it even though he may be assigned to a different area. Obviously, any system that finds two men scheduled to make calls within one or two blocks of one another is not making maximum use of the advantages of a routing system unless both technicians have several calls in the immediate area. Such cases could exist if the dividing line between two sections ran through the center of a heavily populated area.

In all cases, the service calls should be routed in a logical order so that the distance to be traveled by each technician is kept at a minimum. This will ensure that a minimum amount of time will be spent in travel and will therefore make it possible for each technician to make a maximum number of calls. Shown in Fig. 7 is a sample routing sheet. This sheet contains practically all of the data necessary to operate a successful routing system.

The technician assigned to an area should be thoroughly familiar with it if possible. It is very desirable that a man be assigned to an area in which he lives because he may be personally acquainted with many of the people in that area and thus might know better how to deal with them. In fact, assigning a technician to service his own neighbor hood may even result in an increase in business from that area.

Deliveries

The delivery of repaired receivers should be interspersed among the service calls. The delivery of the repaired receiver should always be made by the technician who removed the receiver. He will be in a better position to answer to the customer's satisfaction any questions which may be asked. In anticipation of such questions, the technician delivering a repaired receiver should always know exactly what steps were taken in the shop in repairing the receiver. When the technician did not repair the receiver himself, he can get the necessary information by asking the technician who actually performed the work.

Calling the Shop

Some arrangement should be made for the service technician to

call the shop for a briefing and to take care of any additional service calls in his area. One way is to have the technician phone after each service call or after every other call. The service technician should phone his shop before leaving one home en route to another in a remote area. A call at this particular time is most important because it could save returning to the same area to service another set.

OTHER WAYS TO IMPROVE SERVICE

Service the Same Day

It is always the best policy to give service as soon as possible. Always complete a call the same day it is received or by the next day at the latest. This is very important, especially if your organization deals in service only. The customer who has to wait three or four days to see a service technician then has to have his receiver taken to the shop for several more days is not going to be too eager to call the same organization for service the next time his receiver needs it.

Customer Not Home

The first thing for the technician to ask himself when he gets no response to his knock is: Is the customer really not at home? Maybe he is upstairs, in the basement, or in the back of the house. In some cases, he may even be in the back yard or in a garage workshop. To avoid having to make a return call, ring the bell for a few seconds to make sure that it could be heard. If there is no doorbell, be sure to knock loud and often enough to be heard. A walk to the side of the house or along the driveway should reveal if the customer is in the yard or garage. In any case, a period of 2 or 3 minutes should be given the customer to appear. In some cases, an even longer wait is advisable.

Not-Home Card

If it is finally determined that the customer is definitely not at home, a "Not-Home Card" should be left. This card should be in the form of a tag that is fastened to the doorknob so that the customer will be sure to get it. A sample card is shown in Fig. 8. It has most of the pertinent data which should be included on such a card. Notice that the time of the call is very bold and prominent. Also notice that the "NOT AT HOME" is in the largest lettering on the card so that there will be no possibility of missing it. The entire card should be a bright



Fig. 8. Example of Not-Home Card.

color, or the letters should be a bright color so that the customer will be sure to see it when he returns. In size, the card should be large enough to be seen easily and to contain the necessary data. The printer can help in the determination of the size because it may be less expensive to have certain sizes printed.

Free Return Calls

There are several factors which may have caused the customer to be away from the home when the technician called, and not all of them are the customer's fault. Some of these are:

1. Technician arriving later than the appointed time.

2. Emergency trip to a doctor's office.

3. Unexpected business in town.

4. Washing clothes in the basement and did not hear the knock or doorbell.

5. In the back yard and did not hear the knock or doorbell.

6. Forgot service technician was coming.

In any case, a return call results in a loss of time which means fewer calls can be made, a fact which means that less money will be taken in by the technician that day. Therefore, anything which can be done to eliminate a call back is desirable. There are two things that the technician and service organization can do to help eliminate these return calls which become necessary because the customer is away from home:

1. Give the customer a good idea of the time the service technician will arrive; then be there at the appointed time.

2. Make an honest effort to locate the customer after ringing the doorbell.

The technician can also reduce the number of return calls by making sure that he has sufficient money to cash the largest denomination of bill which he may expect to receive.

Speed and Traffic

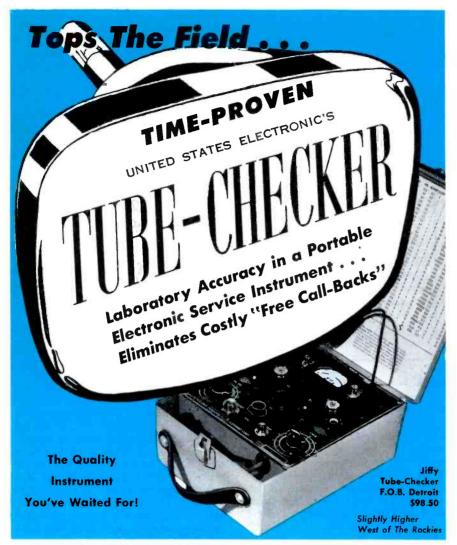
Besides being a violation of the law, speeding or any form of reckless driving is not the way to give fast efficient service. It may also cause the customer to take his service elsewhere. This is caused by the fact that people resent having their children endangered by speeding vehicles, and rightly so. Another thing to be considered is that being picked up for traffic violations is a gross waste of time. It could also result in having the police on a constant lookout for any type of violation by your service vehicles, and this can be harrassing.

Day and Evening Service Calls

It is a common practice for most service organizations to make both day and evening service calls. This was made necessary by the fact that many people work and can only be at home in the evening. In addition to this, the television receiver is in use mostly during the evening; and therefore more troubles develop then.

It is good business to give service as soon as possible after the customer calls, preferably on the same day or evening. This type of same-day service is the best advertising a TV service company can get.

Some special problems must be considered if evenings calls are to be made with the same efficient dispatch with which day calls are made. Parking is one of the prime problems, especially in areas where there are large apartment buildings. Whenever possible, the service vehicle should be parked in the customer's driveway since it may be necessary to remove the TV chassis and take it to the shop for repair.



MUTUAL CONDUCTANCE AND EMISSION CHECKER Accurately checks Picture and Circuit Tubes for filament Continuity, Emission, Gas, Shorts and Leakage under load conditions—in 20 seconds time!

Built to TV Servicemen's specifications, tested in the field and now endorsed by leading service organizations as the leading Tube-Checker! This revolutionary quality product increases sales, develops customer confidence and puts money in the serviceman's pocket! Amazing "on-the-job" instrument eliminates doubt, proves conclusively any need for replacement of tubes right in your CUSTOMER'S HOME! Built for rugged daily usage, the 6½-lb. steel-cased Tube-Checker fits in the serviceman's caddy. Get the best . . . and reap profits for your organization!

- No complicated controls—No re-setting for Duo-Purpose Tubes
- Built-in leakage sensitivity to detect hot and cold leakage to 15 megs.
- Perfect Companion to 7 lb. Jiffy Ren-O-Lyzer



Locating the correct address also poses a problem because house numbers that are visible in daylight sometimes are almost impossible to see at night. In addition, it is often difficult to see the street signs even with the help of a spotlight. For this reason, it is important that the service technician be thoroughly familiar with the area. Directions are very important in routing evening calls because it is much easier to become confused after dark. The directions should route each call via the nearest through street.

Uniforms

In making calls after dark, technicians wearing uniforms which have the company's name on them will usually have less trouble gaining entrance to the customer's home when the customer has never seen the technician before. If it becomes necessary to remove the chassis for shop service, less difficulty is met ingetting the customer's permission. This problem of customer distrust has arisen from the actions of a few unscrupulous operators; consequently, uniforms can help somewhat. Fair dealing, good service, and courteous manners complete the picture for obtaining good customer relations.

The major objective of any service organization should be the improvement of its service to the customer. Some of the ways to do this are as follows:

1. Establish a fast and efficient routing system.

2. Return repaired chassis immediately.

3. Make a service call the same day that the customer calls in.

4. Notify the customer the approximate time that the service technician will arrive.

a. When the customer is not at home, use a not-home card.

b. Make efforts to reduce the number of free return calls.

5. Technicians should drive carefully to avoid loss of time.

6. A proper uniform should be worn.

If the many different phases of these main ideas are kept in mind, an efficient and fast servicing system can be maintained.

CALVIN C. YOUNG, JR.

PF REPORTER, September 1955

Examining Design Features

(Continued from page 25)

the emitters in the IF transistors. Resistor R13 returns to a negative 1.5-volt DC source; whereas, R18 is returned to chassis ground.

The detector stage also utilizes a CK760 transistor having a grounded emitter. The AVC voltage is tapped off at the detector output where it is filtered by C1 and is reduced to the proper DC level by R23. The audio signal from the detector stage is coupled to the volume control through the electrolytic capacitor C2. The resistors R24 and R30 have been added in later productions to improve the quality of the audio system in the receiver.

The audio amplifier stage employs a CK721 or a CK722 transistor connected in a grounded-emitter circuit. Bias for the emitter circuit is derived from the series resistor R27, and capacitor C4 acts as an RF bypass. The base connection of the AF amplifier transistor obtains bias from a divider network formed by resistors R25 and R26. The audio output from the collector circuit of this stage goes into the primary of transformer T1. The secondary of this interstage transformer is center tapped and develops two out-of-phase signals which are required for the operation of the push-pull output circuit.

The output stage consists of two CK721 or two CK722 transistors connected as push-pull amplifiers. These units are connected in grounded-emitter circuits. The bias for the base connections is provided by the voltage dividers R28 and R29, and C5 serves as a decoupling capacitor. The impedance of the centertapped primary of the audio output transformer T2 matches the collector impedance of the output transistors. A .15-mfd capacitor C25 has been connected across the primary of this transformer in later productions in order to improve the impedance match and thus reduce audio distor tion. The secondary of the output transformer drives a 3 1/2-inch PM speaker. The secondary of the transformer and the voice coil of the speaker are matched in impedance. The impedance is 16.8 ohms. The small speaker employed in this radio provides a reasonable amount of volume and fidelity. The manufacturer of the receiver rates the power output at 100 milliwatts.

All input power required to operate this relatively small receiver



ONLY THE REN-O-LYZER FORECASTS REPAIRABILITY Cleans Picture Tube Elements, Burns Off Oxygen, Welds Open Cathodes and Filaments Electronically...

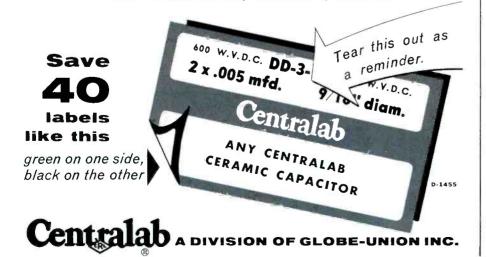
Proven results with the quality-built REN-O-LYZER assure the TV serviceman increased income and satisfied customers! Thousands of service organizations all over the country are earning \$9.95 per service call with the revolutionary REN-O-LYZER ... and they are averaging \$120.00 increased income per week on each REN-O-LYZER unit in use! Their customers are amazed at the immediate and lasting picture tube recovery—recommend the services to others. Extremely simple to operate no complicated controls. Write or wire for a demonstration of this amazing electronic instrument!

- Service Charge is just \$9.95 to the custamer!
- Service May be Sald with a Minimum Guarantee!
- 12 Service Calls and the REN-O-LYZER is Paid For!





This is the label you tear off and save. After you have 40 of these identification labels, send them with a quarter (for postage and handling) and your name and address (printed clearly) — to Centralab, A Division of Globe-Union Inc., 942F E. Keefe Avenue, Milwaukee 1, Wisconsin.



is furnished by four 1 1/2-volt, size D batteries connected in series. The current drain from this power supply is approximately 15 milliamperes, and the life expectancy of ordinary flashlight batteries in this application is about 500 hours. If mercuricoxide batteries are employed, their life expectancy will be as much as 2,500 hours depending upon the duration and frequency of operation.

The transistors used in the circuit are of the p-n-p type; therefore, the positive terminal of the battery series is connected to the chassis, and the supply voltage becomes a negative 6 volts DC. The transistor pictured in Fig. 4A has the pins keyed to fit the socket, and the middle pin is placed closer to one end than it is to the other. The transistor in Fig. 4B has the pins equally spaced; however, they may be bent to fit the socket, as shown in this photograph. If a transistor is suspected of being faulty, the only reliable check is by means of substitution. When replacing the type shown in Fig. 4B, it may be noticed that one end is coded with a red dot. This indicates that the collector pin is located near the dot end of the transistor. The draw ing of Fig. 5 illustrates the connections of a transistor socket.



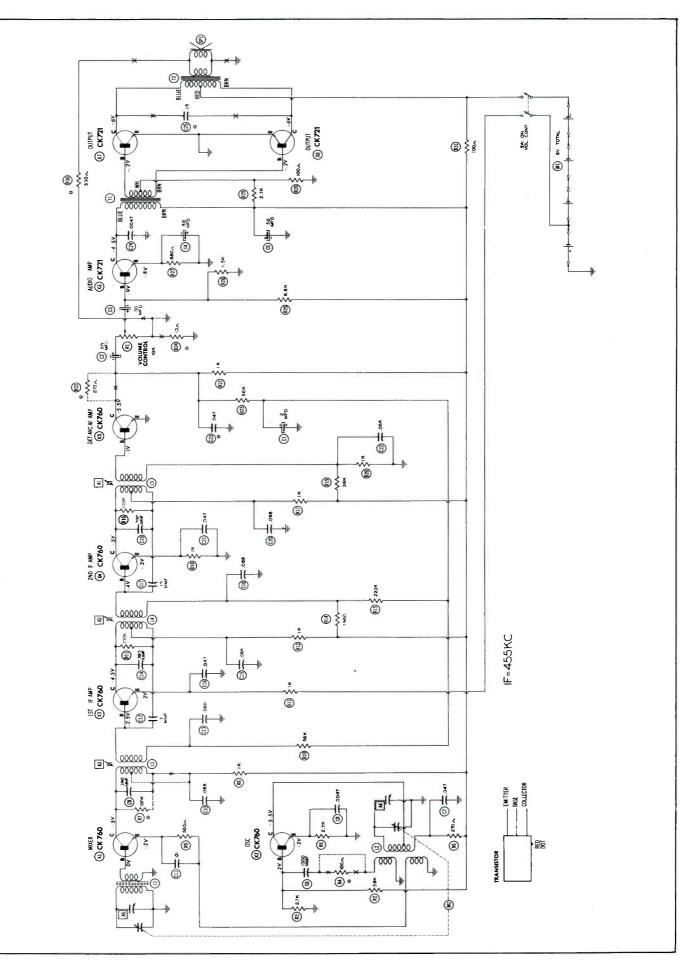


Fig. 3. Schematic Diagram of Raytheon Chassis 8RT1.

.

-

only vokar vibrators give you

NEW SAHARA-PACK!

ALL-WEATHER, LOW-VOLTAGE STARTS! New dry-air canning developed by Vokar reduces moisture inside vibrator during manufacture. Moisture cannot condense on tungsten points causing corrosion during shipping or storage.

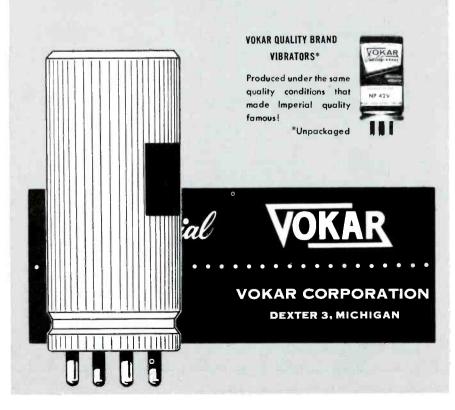
NEW VAPOR-BLOCK COATING!

NO EARLY-LIFE FAILURES! Applied to points by hand, Vapor-Block Coating eliminates pitting and arcing during vital first hours of vibrator operation. Result: Sure Starts! Longer Life! Higher Output!

NEW SWING-SUSPENSION!

SUPER-SILENT PERFORMANCE! Noise level is reduced to absolute minimum — whisper quiet! No hum to affect radio performance. Swing-Suspension design also means less hash, less heat!

VOKAR VIBRATORS - preferred by leading manufacturers of auto radios.



In order to simplify the replacement of this type of transistor, note the location of the red dot and bend the pins of the new unit to duplicate those of the original. In some later production runs of this chassis, the manufacturer has wired and soldered the transistors directly to their respective circuits.



(A) For RF, IF, and Detector Stages.



(B) For Audio Stages.

Fig. 4. Plug-in Type Transistors Employed in Raytheon Chassis 8RT1.

Interchanging the transistors from one stage to another in the receiver is not recommended. In some instances, realignment will be required after substituting a new transistor unit in the RF stages.

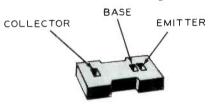


Fig. 5. Transistor Socket Showing Connections.

The transistor should always be removed before replacing a component which is soldered to its socket because excessive heat is capable of damaging the transistor permanently. When servicing a receiver of this design, remember that transistors should be removed before accurate readings of resistance through other components can be made and that the voltage at the terminals of the meter leads should not exceed the normal operating voltage of the circuit under test.

LESLIE D. DEANE

PF REPORTER, September 1955

Audio Facts

(Continued from page 21)

is important, and certain precautions should be taken. As shown in Fig. 1, a record jacket should be pressed on its edges so its sides will be bowed away from the playing surfaces of the record. The record is then grasped with the thumb at the edges and with the finger tips on the label surface and withdrawn from the jacket. In this way, dust or grit that might be clinging to the inner surfaces of the jacket or to the surface of the record will not be rubbed across the record and will not damage the playing surfaces of the record.



Fig. 1. Removing Record From Jacket.

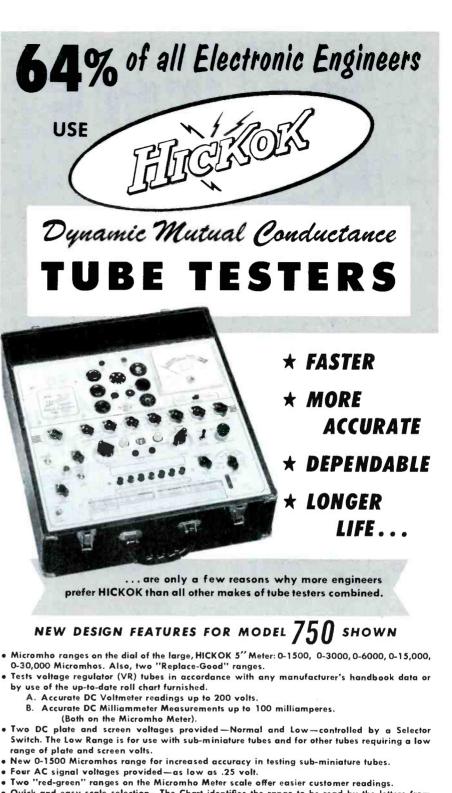
The record should only be handled by the edge and the label surfaces. The fingers should never be placed on a playing surface. Fingers will usually leave prints which will at the least have a tendency to hold dust. Of course, if any dust, grit, or other foreign material is present on the fingers, it will be de posited in the grooves where it can cause damage eventually, if not at the time of handling.

The important things to remember are that records should never be handled by the playing surfaces and should never be laid on any surface that might scratch them or deposit dirt on them. Keep them in their protective containers when not in use, and keep them clean.

We must not forget that the turntable must also be kept clean and free of dust.

Importance of Stylus

Before proceeding further, we should mention that one of the most common causes of damage to records is the use of a worn, damaged, or improperly used stylus. A stylus which has become worn from normal usage or has been broken can do great damage to the grooves subjected to its cutting and gouging action. If



- Quick and easy scale selection-The Chart identifies the range to be read by the letters from "A" through "H" inclusive. A simple selector switch carries the same letters and identifies the various ranges.
- Short test-Recent HICKOK engineering and achievements have provided a highly accurate short test which will show up even the slightest heater cathode leakage condition of a vacuum tube.
- Line adjust knob automatically indicates whether the line voltage is low or high.
- Permits matching of tubes such as 6SN7 when used in critical circuits.
- Forecasts the future life of the tube under test. Tests the gas content of the tube. Tests for tube noise. • Bias and line fuses prevent accidental damage. Chart arrangement makes for quickest tube selection. The tube's location on the chart is indicated by a key type number stamped beneath the chart openings.

TESTS THE NEW SERIES HEATER-STRING (600 M.A.) Tubes ALSO TESTS GERMANIUM DIODES AND SELENIUM RECTIFIERS

THE HICKOK ELECTRICAL INSTRUMENT COMPANY 10566 Dupont Avenue
• Cleveland 8, Ohio



• You can eliminate "call-backs" and insure customer satisfaction by standardizing on Ohmite "Little Devil" composition resistors. These tiny units provide an *extra margin of safety* on your repair jobs. For example, they are rated at 70C instead of the usual 40C \ldots and they meet all test requirements of MIL-R-11A, including salt water immersion and high humidity tests without wax impregnation. Ohmite "Little Devil" resistors are available in $\frac{1}{2}$, 1, and 2-watt sizes ($\pm 5\%$ or $\pm 10\%$ tolerance) in all RETMA values. Order from your distributor, today.



the stylus is not aligned properly and leans to one side or the other or if the turntable is not level, the grooves can be distorted and damaged. Excessive stylus pressure or the use of the wrong stylus, such as a 3-mil stylus for a microgroove record, can cause irreparable damage.

Cleaning Records

Dust has a tendency to settle on all surfaces; but since microgroove records are made of plastic, they accumulate a static charge and attract dust to their surfaces. When dust settles on a record, the record should be cleaned before it is played or returned to its protective container.

As with other things connected with audio, there is no absolute agreement on the virtues of the methods used to clean records. Most methods are both recommended and condemned, with the opinion depending on the individual. Some claims are made that the damage done to the record during cleaning exceeds by far any good derived from the process. These claims may be valid in cases in which proper precautions are not taken and in which the cleaning is not done with care, but any reasonable method which will at least remove the most of the grit and foreign material should prove worth while. It would seem that a knowledge of how and what to do and the use of some common sense could be the answer to any controversy on the subject.

Included among the notes on some record jackets is the suggestion that "before the enclosed record is played, it should be wiped carefully with a moist soft cloth to remove any accumulation of dust." This seems to be a reasonable suggestion because a lint-free soft cloth when moistened and used with a gentle circular motion on the surface of the record will pick up dust and also dissipate some of the static charge on the record for at least a short time.

Microgrooves are very small and narrow but do have depth, consequently some difficulty is encountered when attempts are made to remove dust, grit, or any other foreign particles from them. The opinion that such material will be pushed deeper into the grooves rather than be removed appears logical. For this reason, the use of a suitable brush seems appropriate.

A two-inch paint brush with very fine soft bristles was used by the writer for many years to remove



Fig. 2. Kral Rek O Kleen Brush in Use.



dust from 78-rpm records while they were spinning on the turntable prior to being played. This practice was carried over to microgroove records and seemed to be very satisfactory. The brush had to be kept clean because it certainly didpick up a great deal of dust and lint.

Several styles of brushes are supplied for this purpose. Some very small ones are designed for mounting on the pickup arm with the bristles riding in the record grooves in front of or adjacent to the stylus. This type is not so popular at the present time, probably because of the lightweight pickups used with microgroove recordings. A larger brush which mounts or stands on the turntable mounting board is adjusted to allow the tips of the bristles to ride on the playing surfaces of the record. One is shown in Fig. 2. This type can only be used with a single-play turntable and must be moved aside when a record is changed. This model will automatically return to its correct position on the record. A special brush which neutralizes the static charge as it cleans the record will be discussed in a later paragraph.

A record can also be cleaned by washing it in a stream of running water from a tap. Of course, this cannot be done recklessly. Hot water and too much force cannot be used because labels can be washed off very easily.

Removing Static Charge From Records

Dust can be removed from the playing surfaces of a record; but if the static charge is not removed from the disk, more dust will soon collect on the surfaces again. This static condition is more severe when the humidity is low and is aggravated by motion and friction. A spinning record can accumulate a heavy charge, and rubbing with a cloth or using a brush can increase the charge to a degree that will attract additional dust and lint.

Various static removers have been developed for use with records. These are available in the form of liquids, sprays, prepared cloths, and special brushes all of which are to be used directly on the records. There are also some small attachments that mount on the pickup arm near the stylus and never touch the record.

Several manufacturers supply liquid antistatic solutions. The liquid is applied and used according to the directions accompanying that particular brand. In most cases, a few drops are applied to the playing sur face of the record and then spread with a soft clean cloth. Manufacturers of certain brands of records recommend that enough liquid should be applied to saturate the surface of the record; whereas, others say that only a very small amount is required. In any event, a clean cloth must be used and the record should be clean. If the record is not clean when the liquid is applied. even though the static is eliminated, the dirt and foreign particles will be rubbed into the grooves. An antistatic solution can also be sprayed on the record instead of being poured.

Antistatic cloths are impregnated and prepared in such a way that they dissipate the static when they are rubbed over the record in a prescribed manner. These are convenient because no liquid is required. The same rules of cleanliness must be observed; and of course, the cloth must be kept clean.

The static-eliminating brush (Fig. 3) derives its powers from the polonium strip located in its ferrule. When the record is brushed, the dust is removed and at the same time the static charge is neutralized by the radioactive polonium in the strip. The polonium strip is effective for one or two years. When necessary, the brush can be returned to the manufacturer for replacement of the stripto renew its static-neutralizing properties.

Some small, very lightweight attachments which clip to the pickup arm near the stylus, as shown in Fig. 4, remove the static charge by the neutralizing action of a small bit of radioactive material held close to the record surface. As the record revolves, the radiation scans the record grooves and removes the static charge. If any particles of dust or grit have been clinging to the

Fig. 3. Staticmaster (Hi-Fi Model) Record Brush.

record, they will be released and be free on the surface. These small attachments seem to do a good job of keeping the records uncharged so that the records would apparently remain neutralized for an indefinite period.

How long records will remain in the uncharged state will depend on how often they are played, how they are handled, and how and where they are stored. If a record is static free and clean when it is returned to its protective container, it should be in excellent condition when removed to be played in the future.

We read and hear objections to the application of any kind of solution to the playing surfaces of a record. One objection is that if the solution is allowed to accumulate, the grooves might have a tendency to become filled with a sludge. We have also heard the opinion expressed that an excess amount of some of the solutions would have a deteriorating effect upon damping material and protective membranes associated with the stylus of certain cartridges. No doubt there is some truth to these claims if some solutions are used in excessive amounts; but if discretion and common sense are used in following specified procedures, the benefits should outweight any damage.



Fig. 4. Eby Stati-Mute Installed on General Electric "Baton" Arm.

NOW! TEST TUBES IN SECONDS! MAKE NEW PROFITS in MINUTES!



Now you can easily cut servicing time -make more on-the-spot tube salesprevent costly call-backs-and give a better service guarantee! DYNA-QUIKthe new top quality, low cost, portable tester quickly locates all weak and inoperative tubes-and easily does the complete job with laboratory accuracy right in the home! You create greater customer confidence because your customer sees for himself the true tube condition. Easy to operate-in just a few minutes you can quickly check all the tubes in a TV set. You can depend upon DYNA-QUIK because it tests under the dynamic heavily loaded conditions that are the actual operating conditions of the set. At such low cost DYNA-QUIK quickly pays for itselfand continues to make money for you every day!

DYNA-QUIK DOES IT FASTER, EASIER, MORE ACCURATELY

- Makes complete tube test in as little as 12 seconds per tube—faster than any other tester!
- One switch tests everything! No multiple switching—no roll chart.
- Laboratory accuracy right in the home! Large 4½" plastic meter has two scales calibrated 0-6,000 and 0-18,000 micromhos.
- Shows customer true tube condition and life expectancy on ''Good-Bad'' scale!
- Automatic line compensation! Special bridge continuously monitors line voltage.
- 7-pin and 9-pin straighteners mounted on panel!
- Never Obsolete! New overlay panels with up-to-date markings available from factory, when required.

TESTS 99% OF ALL TUBES* in use today for: DYNAMIC MUTUAL CONDUCTANCE SHORTS GRID EMISSION GAS CONTENT LEAKAGE

LIFE EXPECTANCY

*Including new 600 mil series tubes.

PORTABLE—CAN BE USED ANYWHERE Handsome, rugged, luggage style carrying case, covered in durable, black leatherette. Removable slip-hinged cover. Size: 15½ x 14½ x 5¾ in. For 105;125 volts, 60 cycle, A.C. Net wt. 12 lbs.

SEND FOR BULLETIN 500

Made by the makers of the famous CRT 350



We must admit that there is a wide disparity between the recommendation that enough of a certain brand of solution should be used to saturate the surface of the record because of the lubrication afforded the grooves and the one that warns against using any type of fluid including water. Probably the moral to be gained from all this is that a record should be kept clean and static free with a minimum of manipulation.

Storage of Records

The storage of records involves only a few basic precautions. The most troublesome problem encountered when large numbers of records are to be stored seems to be the difficulty of finding a suitable cabinet shelf or some such container which will fit into the surroundings.

Records should be clean and stored vertically (on edge) in their original jackets. Suitable plastic envelopes that afford added protection from dust and handling are available from several suppliers. If the jacket or container is flat, if no distorting pressure is applied, and if the temperature is not excessively high, the stored records should remain flat and not become warped. Because of the accumulated weight, records can become warped and deformed in a very short time if they are stored horizontally (flat), particularly if they are placed in stacks of many records.

Records should be clean, shouldbe stored in a vertical position in protective jackets, and should not be subjected to excessive pressure or high temperature. This seems to cover the story of record storage.

ROBERT B. DUNHAM



Notes on Test Equipment

(Continued from page 19)

caused by application of too great a sync signal.

A calibration voltage is provided internally. When the CAL (calibrate) button on the front panel is pressed, a square-wave signal with an amplitude of .05 volt peak to peak is applied to the vertical section of the oscilloscope. The calibrating voltage is kept constant by means of a voltage-regulating circuit.

This voltage is applied at a point after the step-attenuator section so that the calibration may be used for all positions of the step attenuator once the calibration has been made. To calibrate the oscilloscope, the operator presses the CAL button; then he adjusts the V-GAIN (vertical amplifier gain) control until the height of the square wave is equal to the distance between the two horizontal calibration lines on the screen. The switch of the vertical attenuator is marked at each position with the peak-to-peak voltage that is represented by the distance between the calibration lines when the oscilloscope has been set up in this manner.

Two input connections to the vertical amplifier are provided on the front panel of the oscilloscope. One is a binding post, and the other is an Amphenol connector for cables such as the one shown in Fig. 1. The probe and cable assembly shown is the Hycon Model 6211 oscilloscope probe having an impedance of 10 megohms and 15 micromicrofarads. Two bind ing posts for ground connections are provided, and there is one for horizontal input and another for Z-axis modulation. All of the binding posts will accept banana plugs, and they are also spaced on 3/4-inch centers to accommodate General Radio 274-MB plugs. The vertical and horizontal step attenuators are frequency compensated for best frequency response at all positions.

HYCON MODEL 614 VTVM

Another Hycon test instrument which we have had an opportunity to use is the Model 614 VTVM pictured in Fig. 2. This meter is designed to measure a wide range of resistances and voltages (both AC and DC). DC voltages are measured with the use of a probe having a built-in isolating resistor. AC measurements are made with the use of a low-impedance probe or a crystal-diode probe.

The Hycon Model 614 VTVM matches other Hycon equipment in

outward appearance. The meter is housed in a green steel case, and the instrument can be stacked vertically with other Hycon instruments. An interesting and convenient feature is that storage compartments are provided in one side of the case where the cables and probes that are permanently attached may be kept when not in use.

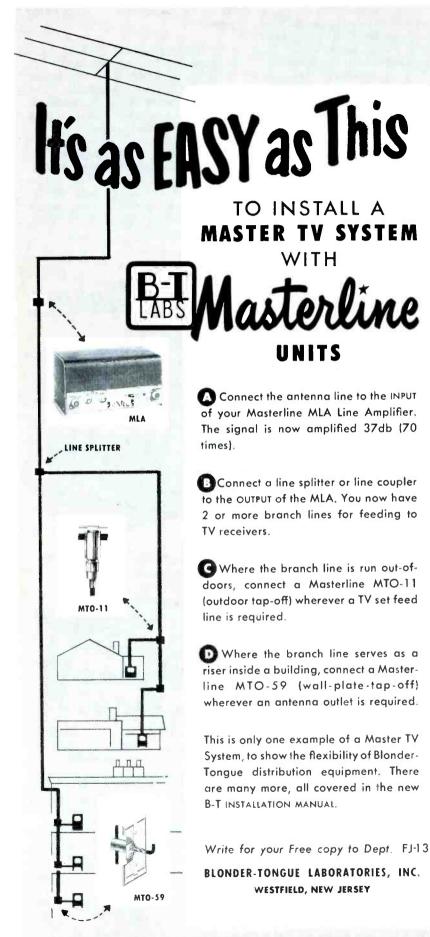
A small circular groove has been cut around the tips of both the AC-OHMS probe and the DC probe. It was noticed during the use of this VTVM in our laboratories that this groove was of great aid in keeping the probe from slipping off the test point.

The size of the case is $8 \frac{1}{2}$ inches wide, 11 inches high, and $7 \frac{1}{2}$ inches deep. Weight of the instrument is approximately 10 pounds. The large 6 $\frac{1}{2}$ -inch meter dial contains seven photo-printed scales and is illuminated by dial lamps.

There are four front-panel controls: (1) an input-selector switch, (2) a range-selector switch, (3) a zero-adjust control, and (4) an ohms-adjust control. The inputselector switch has five positions:



3726 N. Southport Ave. • Chicago 13, Illinois



Manufacturers of TV Cameras, TV Amplifiers, Boosters, Converters, Accessories and Originators of the Masterline and 'Add-A-Unit' Master TV Systems.



Fig. 2. Hycon Model 614 VTVM.

OFF, -VOLTS, +VOLTS, AC VOLTS, and OHMS. The range-selector switch has seven positions. For voltages, the positions are marked as follows: 1.5V, 5V, 15V, 150V, 500V, and 1500V. For resistances, the positions are marked as follows: R x 1, R x 10, R x 100, R x 1K, R x 10K, R x 100K, and R x 1MEG.

The meter dial is calibrated so that DC and AC rms voltages may be read for the voltage ranges just mentioned. The instrument responds to peak-to-peak AC voltages, and separate scales that are marked in red are provided for these ranges.

The input impedance is 11 megohms for all DC ranges, and the accuracy is ± 3 per cent of full scale. The input impedance on AC ranges is 1 megohm shunted by 60 micromicrofarads. The frequency response is 30 cycles per second to 3 megacycles with the direct probe, and it is 50 kilocycles to 250 megacycles with a crystal probe. Accuracy is ± 5 per cent of full scale on all AC ranges.

AUTHORIZED MODEL 101F CATHODE-RAY TUBE TESTER AND REJUVENATOR

In the February 1955 issue of the PF REPORTER, mention was made in this column of the Authorized Model 101 cathode-ray tube tester. A more recent model, the Authorized Model 101F, has some added features to increase its range of applications over that of the previous model.

The general appearance of both instruments is similar. The Model 101F is shown in Fig. 3. The push button which was in the lower left corner of the earlier model has been replaced by a three-position switch marked READ - SET - REJUVENATE.



Fig. 3. Authorized Model 101F Cathode-Ray Tube Tester and Rejuvenator.

This switch adapts the instrument for use in rejuvenating cathoderay tubes which give a low emission reading on the tester. It is claimed that the rejuvenation process will not injure grid structures and that the instrument will indicate whether or not the rejuvenation has proceeded to the necessary degree.

In addition, the emission scale has been recalibrated to give a true indication of beam current in microamperes.

HICKOCK MODEL 770 OSCILLOSCOPE

A new addition to the line of test instruments manufactured by the Hickok Electrical Instrument Co., Cleveland, Ohio, is the Model 770 oscilloscope which is shown in Fig. 4.

The Model 770 is a generalpurpose oscilloscope having high deflection sensitivity and a wide-band frequency response. It is suitable for a great number of applications by the service technician. Although this oscilloscope is classed by the manufacturer as a general-purpose type, its appearance suggests that it is



Fig. 4. Hickok Model 770 Oscilloscope.

more of a laboratory type because of the number and variety of functions which it offers.

Some of the features of the Hickok Model 770 are not usually found in general-purpose oscilloscopes. These features are: DC amplifiers for both vertical- and horizontal-deflection circuits, balanced input to the vertical amplifier, and a driven sweep.

A driven sweep (sometimes called "triggered sweep") depends upon an applied signal to initiate the trace, whereas the usual recurrent

www.americanradiohistory.com

sweep does not depend upon such a signal. The recurrent sweep will operate at a free-running rate if no sync signal is applied; however, if no sync signal is applied to the driven sweep, it will not operate at all. In the Model 770, the triggering signal can be taken from the vertical-input signal if the sync selector is in the INT (internal) position; or it can be taken from some external source if the sync selector is in the EXT (external) position.

We have had occasion to use a driven sweep at various times in our laboratories; and we find that under



difficult synchronization conditions, it may offer a more stable synchroniza tion than the use of a recurrent sweep. A change of setting of the vernier sweep control does not appear to disturb the synchronization greatly. A driven sweep may be used in such a manner as to result in a greatly expanded sweep if the sweep is set to a much higher rate than the repetition rate of the observed signal and if a synchronization signal of the same rate as the observed signal is used. In this manner only a portion of a cycle will be observed; but the detail of that portion will be shown in a stretched or expanded form.

Front-panel controls and switches are provided for the following functions: focusing; phasing; calibration; sync selection; adjustment of beam intensity, sweep stability, scale illumination, and sync amplitude; selection of type of sweep and vertical-amplifier bandwidth; coarse and fine adjustment of sweep rate; vertical and horizontal positioning and attenuation.

The calibration signal may be .1, 1, 10, or 100 volts peak to peak, depending upon the position of the calibration switch.

TO BE SURE OF THIS SOLDERING PERFORMANCE 5 SECOND HEAT

LOOK FOR THIS LABEL

ELECTRIC CORP

Easton, Pa., U.S.A.

Weller was first to design and patent a fast-heating soldering gun. All Weller models heat in 5 seconds.

PERFECT BALANCE

The exclusive streamlined design of Weller Guns permits easy access to tight places, comfortable handling and precision soldering.



lights eliminate shadows and illuminate the work. Lights and heat come on simultaneously.

TRIGGER CONTROL

KARD

Fingertip control brings heat instantly on— instantly off. There's no need to unplug . . . no wasted time or current.

EXCLUSIVE TIP-GRIP

Wiping action of tip-fastening nuts eliminates contact resistance and oxidation. Full, constant heat is assured. 5

LONG-LIFE TIPS

827 Packer Street, Easton, Pa.

Low cost Wellertips give long service, are designed for maximum heat transfer and can be changed in seconds.

ask your distributor for a demonstration CORP.

The vertical- and horizontalgain controls are vernier controls. and the vertical attenuator is governed by a four-position switch. The vertical attenuator is frequency compensated. The LOCKING (or syncamplitude) control will select either polarity of the sync signal.

A sweep range of 2 cycles to 30 kilocycles is covered by the coarse-frequency switch and is obtained by means of six of the switch positions. Two other positions are for frequencies of 30 and 7,875 cycles per second. These positions are useful when viewing vertical and horizontal signals in TV receivers. Another switch position is marked EXT. CAP.; and when this position is used, an external capacitor can be connected between the ground and the horizontal DC terminals in order to extend the sweep rate below 2 cycles per second.

The type of sweep used is governed by the position of the hori zontal selector switch. This is a five-position switch. Two of the positions provide for feeding an external deflection signal to the input of the horizontal amplifier. The signal is fed directly to the amplifier when the switch is in the X1 position, and it is fed through an attenuator in the X10 position. The third position is for a recurrent sweep, the fourth is for a driven sweep, and the fifth is for a sine-wave sweep at line frequency.

The sync-selector switch is a four-position switch marked EXT, INT, LINE, and 2X LINE.

The DC balance controls for the vertical and horizontal amplifiers are accessible through the front panel as screwdriver adjustments. Binding posts are provided for:

CAPACIT Ask For Sprague By **Catalog Number** Know what you're getting ... get exactly what you want. Don't be vague . . . insist on Sprague. Use complete radio-TV service catalog C-610. Write Sprague Products Com-pany, 105 Marshall Street, pany, 105 Marshall Street, <u>North Adams,</u> Massachusetts.

> WORLD'S LARGEST CAPACITOR MANUFACTURER

All input signals to the horizontal and vertical amplifiers.

An output signal at line frequency.

A sawtooth output signal.

An input signal for intensity modulation.

An external sync signal.

The manufacturer's specifications for the deflection sensitivity and frequency range of the Hickok Model 770 are as follows:

Deflection Sensitivity

First vertical amplifier -.010 volt rms per inch with the bandwidth switch in NARROW position.

Second vertical amplifier -.035 volt rms per inch with the bandwidth switch in WIDE position.

Horizontal amplifier -.075 volt rms per inch.

Frequency Ranges

First vertical amplifier -0 to 2.5 megacycles (flat within 3 decibels) with the bandwidth switch in NARROW position.

Second vertical amplifier -0 to 5 megacycles (flat within 3 decibels) with the bandwidth switch in WIDE position.

Horizontal amplifier -0 to 500 kilocycles (flat within 3 decibels).

The size of the Hickok Model 770 is 12 by 14 by 18 inches. The weight is 50 pounds.

MODEL 648	õ	18			MOD	MODEL 715/115	115
Ω	ă		PLATE TEST	FIL.	×	PLATE	ΥZ
AC1234	4	567	16WY	3.0	d.	26	3JKMQ
A123 A127		A45 A89	39V 39V	4.2	1	17	2LR 4NR
A1237 A123		AC689 AC45	50 V 68 Z	5.0	91	20 18	4JNPS 3KR
A128 A129		AC345 AC67	16WY 34WZ	. 6.3	1	30 20	2JLQ 6PR
A128 124		679 A35	32WZ 25WZ	6.3		20 23	9LR 7JOR
A123 A127		A45 A89	39V 39V	6.3	2	17	2 LR 4 NR
A123 126		A89 A45	65 V 35 Z	6.3	F	18 30	20R 4NR
Latest Chart Form 648-13	00	-13	1	Latest	Chai	t Form 7	Latest Chart Form 715/115-7

RCP MODEL 780 SWEEP GENERATOR

The RCP Model 780 electronic sweep generator is made by the Radio City Products Company and is pictured in Fig. 5. This sweep generator is designed to provide a sweep signal within a frequency range from 3 to 1200 megacycles. Six frequency bands are employed to cover this range. The signals on bands A, B, C, and D are at fundamental frequencies; and the signals on bands D_1 and D_2 are harmonics.

The sweep-generating portion of the instrument is entirely electronic

in operation, depending for its action upon a tank circuit which has the property of variable reluctance. The sweep action is in one direction only and starts at the frequency indicated on the dial, sweeping upward in frequency an amount that is dependent upon the setting of the width control and upon the band selected.

According to the manufacturer, the sweep width may be as high as 30 megacycles on band D. The WIDTH control is calibrated with 90 equal divisions from 10 to 100, and a table in the instruction manual gives the different sweep widths obtained for



tape-o-matic[®] tape recorder

Here's What You Have to Offer ...

- TOP FEATURES—many not found on models selling for up to \$500.00!
- . DUAL TRACK
- DUAL SPEED
- . FRECISION TAPE INDEX TIMER
- "RECORD READY" LIGHT
- · AUTOMATIC SHUT-OFF
- . MONITOR SWITCH
- . PAUSE BUTTON
- DUAL INPUT AND OUTPUT JACKS
 PROFESSIONAL QUALITY MICRO-
- PHONE
- · PUSH-BUTTON CONTROLS
- . SAFETY SWITCH
- "OFF" "TREBLE" "BASS" CON-TROLS

-and a cinch to sell!

Many Hi-Fi installation and service jobs can lead right into a plus-profit sale when you demonstrate the versatile V-M tape-o-matic to your customers! A Voice of Music tape-o-matic "rounds out" their installation . . . is remarkably flexible for a wide variety of uses.

See your V-M Distributor Salesman. Stock and sell the Voice of Music Model 700 tape-o-matic for plus profits ! They're yours for the taking!



V-M MODEL 1200 4-speed Record Changer for precisionengineered hi-fi response . . . at a "never-before" price! Easy to install. Trouble-free. Only \$46.50*



"Slightly higher in the west

V-M CORPORATION, BENTON HARBOR 7, MICHIGAN

WORLD'S LARGEST MANUFACTURER OF PHONOGRAPHS AND RECORD CHANGERS

September 1955, PF REPORTER

various settings of the WIDTH control, BAND switch, and TUNING control.

The six ranges provided by the BAND switch are as follows (in megacycles):

Band A - 3.0 to 8.4.

Band B - 9 to 25.

Band C - 28 to 72.

- Band D 72 to 200.
- Band $D_1 216$ to 600.
- Band $D_2 435$ to 1200.

No external blanking signal is required inasmuch as blanking is provided internally by the action of a gating signal.

A HORZ SCOPE OUTPUT jack is provided so that a horizontaldeflection voltage may be applied to the horizontal-input terminals of an oscilloscope when it is desired to view a response curve. The phase of the horizontal-deflection voltage may be varied through 180 degrees by means of the PHASING control of the generator. The knob of this control also operates the ON-OFF switch of the instrument.

Sure-Cure for Replacement Headacbes:

Replace with the **BEST**

OXFORD Speakers

"No more worrying after you've completed your replacement jobs"... that's the saying of more and more servicemen every day because they've switched to OXFORD REPLACEMENT SPEAKERS.

Illustrated literature is available without obligation.

. . . at better jobbers!



We GUARANTEE you products that are built to be replacement speakers. We stand behind each and every speaker with a 100% guarantee against any mechanical or electrical defects for one full year.

OXFORD Replacement Speakers undergo a rigid inspection to make certain that they are as good or better than the original speaker. That's why more servicemen are switching to OXFORD ... the replacement speakers for a better job.

OXFORD ELECTRIC CORPORATION

3 911 SOUTH MICHIGAN AVENUE CHICAGO 15, ILLINOIS EXPORT — ROBURN AGENCIES, NEW YORK CITY IN CANADA — ATLAS RADIO CORP. LTD., TORONTO

The SWEEP OUTPUT cable is permanently attached to the instrument and is terminated at the opposite end with a 50-ohm resistor. An unusual feature of the instrument is the attenuator system that is operated by five push buttons. The attenuator is of the step or ladder type and is calibrated directly in decibels. The attenuation range is from 0 to 78 decibels. It is obtained in 32 steps, and no two successive steps are separated by an amount greater than 3 decibels. Any attenuation ratio within the range can be selected by the proper combination of push buttons. Each section of the attenuator is completely shielded and terminated for low leak age and constant impedance over the entire range of attenuation.

An internal detector circuit is connected to the DET/COMP (detector/comparator) OUTPUT jack, and



Fig. 5. Radio City Products Model 780 Sweep Generator.

this circuit provides a means for checking the output signal of the sweep generator. A marker can be applied to the MARKER INPUT jack, and this marker will appear in the detectorcomparator output. The sweep limits can be determined in this manner. The marker will also be present in the SWEEP-OUTPUT signal fed to the circuit under observation.

An AGC circuit is used to provide a regulated output signal.

The RCP Model 780 is supplied with three cables — one for sweep output, one for horizontal output, and one for detector-comparator output. The size of the instrument is 9 1/2 by 9 1/4 by 12 1/2 inches. The weight is 16 1/2 pounds.

GAS TEST WITH RAYTRONIC CATHODE BEAMER

The Raytronic Laboratories, Inc., of Cincinnati, Ohio, have included facilities for a critical gas test in their latest model of the Raytronic Beamer CB-54A. Other testing and repair operations remain the same as in previous models except for the removal of the toggle switch which controlled the burn current during removal of a cathode-to-grid short. The space formerly occupied by this switch is now occupied by the gastest switch. This gas-test feature is designed to provide the service technician with a means for accurate determination of the gas content of a picture tube. Knowing this content, the technician will then be better able to advise either replacement or repair of the picture tube as he sees fit.

The manufacturer of the Raytronic Beamer states that no attempt should be made to rejuvenate a tube showing indications of more than 1 microampere of ion current (gas) per milliampere of beam current.

Their field tests indicate that a gas content in excess of this amount

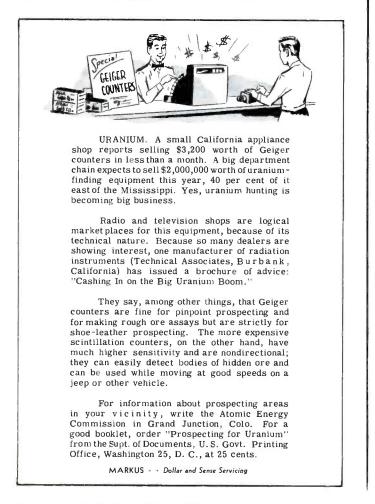
will lower the life expectancy of the tube even though the emission can be increased by rejuvenation. If the gas content is less than this amount (1 microampere), then other factors such as the thickness of the barium coating on the cathode will govern the life expectancy of the tube.

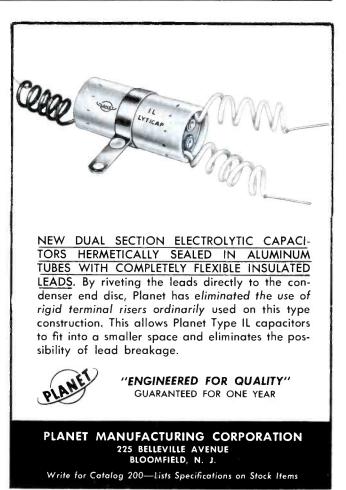
The action of the Cum-A-Tron circuit, as it is called by the manufacturer, will be described briefly. The gas test is made with the master selector switch of the Raytronic Beamer in the GRID position. (The technician should first make sure that the tube is not defective. This means that the tube should have grid control, good emission characteristics, and should not be shorted.) The GAS-TEST switch is then set to the METER SET position, and the grid-control potentiometer is adjusted until the meter needle is at the red calibration mark. Then the GAS-TEST switch is set to GAS CONTENT, POS 1; and the position of the meter needle is noted. At this setting of the controls of the instrument, the meter is registering a current which is the sum of the plate current in the amplifier tube of the instrument, the ion current (gas) in the picture tube, and the interelement leakage.

In the next position, GAS CON-TENT, POS 2, the cathode-ray tube is biased to cutoff so that the meter indicates the sum of the plate current and the interelement leakage. The difference between these two readings for POS 1 and POS 2 is the indication of gas content. This difference can be measured in the number of the smallest scale divisions between the two meter-needle positions. If this number exceeds 10 (15 in some models of the instrument), the tube should be rejected as too gassy for rejuvenation. At these control settings, 10 divisions (or 15 in some models) indicate a gas-ion current of 1 microampere which is the limit previously mentioned.

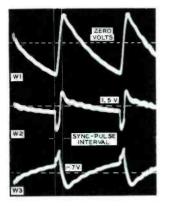
An accurate indication of the gas content of a picture tube willhelp the technician to decide whether to repair or replace. This will save him some wasted time in repairing tubes which would fail at an early date because of high gas content. It will also do much to prevent customer dissatisfaction from cases of early failure after rejuvenation.

PAUL C. SMITH

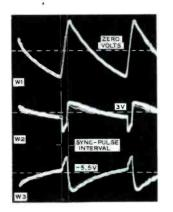




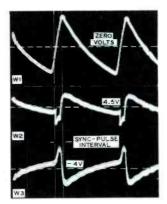
The Triode Phase Detector (Continued from page 23)



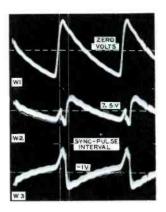
(A) With Oscillator Tending to Run at a Reduced Rate.



(B) With Oscillator Tending to Run at a Slightly Reduced Rate.



(C) With Oscillator Tending to Run at Correct Frequency.



(D) With Oscillator Tending to Run Fast.

• Fig. 2 Waveforms Observed in Circuit of Fig. 1B.

nals as the dual diode; but the negative sync pulse is applied to the cathode, the positive pulse goes to the grid, and the sawtooth wave is fed to the plate of the triode. The correction voltage is taken from the junction of two equal resistors, R79 and R80. These resistors form a voltage-divider network so that the value of the correction voltage is midway between the grid and cathode potentials. The series of waveforms in Fig. 2 shows how the voltage relationships in the Motorola phase detector change when the horizontal oscillator tends to drift off frequency. In each group of pictures, W1 is the sawtooth waveform on the plate; W2 is the negative pulse on the cathode; and W3 is the positive pulse on the grid.

While the waveforms were being taken, the oscilloscope was synchronized externally to a voltage obtained by clipping a lead to the insulation on one of the leads to the horizontal windings of the yoke. In this manner, the true phase relationships between each of the waveforms could be observed. The distance between the two vertical lines in each group of waveforms represents the duration of the sync pulse. The sawtooth voltage W1 applied to the plate maintains an average value of



approximately zero volts with respect to ground at all times.

In Fig. 2C, the free-running frequency of the horizontal oscillator is about the same as the frequency of the sync pulses. Note that the sawtooth voltage crosses its AC axis during the sync-pulse interval. The sync pulses are negative on the cathode and positive on the grid; and there is a flow of grid current from the cathode side of C77, through the tube, and on to the grid side of C76. Capacitors C76 and C77 become charged in the polarities shown in Fig. 1B. The charges leak off slightly between pulses but are reestablished during every sync-pulse interval.

Because of the flow of grid current during each sync pulse, the potential on the grid side of C76 with respect to the potential on the cathode side of C77 is dependent upon the sync amplitude which is almost constant for a given signal. Since the difference between these potentials is essentially the bias on the tube, the bias remains practically constant.

The cathode voltage with respect to ground will vary, however, depending upon the average amount of tube conduction; and the tube conduction will vary depending upon the instantaneous plate voltage during the sync-pulse interval. The voltage at the junction of R79 and R80 together with the grid voltage on the tube will vary in step with the cathode voltage.

The DC levels which were observed in the Motorola circuit under the conditions of Fig. 2 are given in Table I. It can be observed in Table I that the difference of DC potential between the cathode and the grid stays constant regardless of the amount of conduction through the tube; therefore, the potential across R79 maintains a steady value. The output voltage measured from the junction of R80 and R79 to ground is really the result of the combined voltages across R77 and R79. Since the average potential of the grid is more negative than the cathode voltage, the grid end of R79 is negative with respect to the cathode. The cathode, however, is positive with respect to ground. The circuit is designed in such a way that the voltage developed across R77 is equal to that which appears across R79 when the free-running frequency of the oscillator is approximately the same as the frequency of the sync pulses. Cancellation takes place, and no correction voltage is produced.

If the oscillator tends to run fast, the sawtooth voltage reaches a positive value by the time the sync pulses arrive. See waveform W1 in Fig. 2D. Since the plate voltage is positive, conduction is heavier through the tube during the pulse time and the average cathode voltage becomes more positive. The grid voltage is also less negative than it was in Fig. 2C, but the grid constantly maintains the same DC potential with respect to the cathode.

Since the negative voltage across R79 has not changed and the positive voltage across R77 has increased, the correction voltage from the phase detector is positive. This correction voltage serves to decrease the frequency of the cathode-coupled multivibrator which is used as the horizontal oscillator.

If the oscillator tends to run at a reduced rate, the sawtooth voltage on the plate of the triode is negative during pulse time and conduction through the tube is reduced. See Figs. 2A and 2B. The voltage across R77 is lower, and the potential across R79 is as great as before. The output, which is the algebraic sum of these two voltages, is negative.

The incoming sync pulse shown in waveform W4 of Fig. 3 is distorted

TABLE I DC LEVELS IN MOTOROLA CIRCUIT

Figure No.	On Cathode (volts DC)	On Grid (volts DC)	At Junction of R79 and R80 (volts DC)
2A	1.5	-7.0	-3.0
2B	3.0	-5.5	-1.5
2C	4.5	-4.0	0.0
2D	7.5	-1.0	3.0

No Antenna Problem Here! (it came as original equipment)

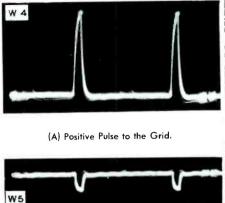
YOUR antenna problems however may not be so easily solved. That's where we come in-specializing in antennas for automotive and mobile communications uses. Proof of our quality workmanship-such fine accounts as Motorcla, Zenith, Lear, RCA, GE, Bendix, and Crosley. Whatever your needs, The Antenna Specialists Company will be pleased to serve you.

Our latest sensation — the Telescapic Auto "Baseball" Antenna in triple chrome, or 6 baked-on automotive calors. Also, the "Double Header" Twintail antennas in chrome or color. In self-displaying units, these QUALITY antennas are a SELL-ING sensation.

Write today for catalog sheets on communication, automotive or special antenna requirements.







(B) Negative Pulse to the Cathode.

Fig. 3. Input Pulses to the Phase Detector of Fig. 1B.

into the shape of waveform W3 of Fig. 2. The incoming sync pulse shown in W5 of Fig. 3 is distorted into the shape of W2 of Fig. 2. This distortion is caused by the action of the circuit of the phase detector. The gradual rise in grid voltage and the gradual fall in cathode voltage between pulses are caused by the discharge of C76 and C77.

Triode in General Electric Model 21T17

Fig. 4 is a schematic diagram of another phase detector using a triode. This circuit, which is found in the General Electric Model 21T17, requires only one sync pulse — a negative one from the cathode of the phase-inverter stage. A sawtooth voltage taken from the output of the horizontal-deflection system is applied to the plate of the phase detector.

The output voltage of the phase detector is developed across R71, R73, and R75 in series and is measured between ground and the junction of R71 and R78. This voltage is applied to one grid of a cathode-coupled multivibrator where it is superimposed upon a small negative bias which is already present on that grid. A more detailed description of this same multivibrator is included in the article, ''Grid Emission and Gas in Vacuum Tubes'' in the August 1955 issue of the PF REPORTER.

Fig. 5A shows the waveform W6 which appears on the cathode of the phase detector, Fig. 5B shows the amplified view of the waveform N7 produced on the grid of the phase detector by conduction through the tube, and Fig. 5C shows the sawtooth waveform W8 which appears on the plate.

The sync pulse is much greater in amplitude than the sawtooth wave.

NEW middleton on sweep and marker generators



Bob Middleton, well known author-engineer, takes you behind the dials and shows you how and why sweep and marker generators operate. In the same free and easy style in which he speaks to thousands of technicians all over the country, he clarifies all the fundamental concepts which are frequently misunderstood.

For more efficient servicing

Sweep and marker generators are standard servicing tools today, and unless you understand fully how they work, you're not getting all you can out of them. This book will give you confidence in your instruments and show you how to put them to uses you never before thought possible. No service technician can afford to be without this book – especially with color TV on the way! SWEEP AND MARKER GENERATORS FOR TELEVISION AND RADIO.

No. 55. By Robert G. Middleton. 224 Pages. Over 200 illustrations. Paper cover. \$2.50

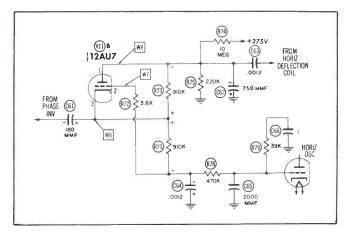
- 10 BIG CHAPTERS • The sweep generator signal. • Generating a sweep signal.
- Attenuating the output.
- Shielding the output.
 Aspects of sweep output.
- Marker generators.
- Marker signal generation.
- Marker signal calibration
- Receiver alignment.
 Visual-alignment
- visual-alignment methods.

ON SALE AT PARTS DISTRIBUTORS

GET THE COMPLETE GERNSBACK LIBRARY

PROBES — \$2.50 RADIO-CONTROL HANDBOOK — \$2.25 THE OSCILLOSCOPE — \$2.25 TRANSISTORS — THEORY AND PRACTICE — \$2.00 TV REPAIR TECHNIQUES — \$1.50 RADIO & TV TEST INSTRUMENTS — \$1.50 HIGH-FIDELITY — Design, Construction, Measurements — \$1.50 RADIO & TV HINTS — \$1.00 TELEVISION TECHNOTES — \$1.50 RADIO & TV HINTS — \$1.00 DASIC RADIO COURSE — \$2.25 MODEL CONTROL BY RADIO — \$1.00 HIGH-FIDELITY TECHNIQUES — \$1.00 PUBLIC-ADDRESS GUIDE — 75¢ PRACTICAL DISC RECORDING — 75¢

Gernsback Publications, Inc. Publishers of RADIO-ELECTRONICS 25 West Broadway New York, N.Y.



When this strong negative pulse is applied to the cathode of the phase detector, the tube conducts. During pulse time, both the grid and plate are positive with respect to the cathode; and both draw current. The operation of this circuit depends upon the proportion between the current drawn by the grid circuit and that drawn by the plate circuit.

At the end of the pulse, C62 and C64 are charged in the polarity shown in Fig. 4. The cathode side of C61 is positively charged. Between pulses, the capacitors discharge as follows. The discharge path in the plate circuit is from the top of C62 through R73, C61, the phase inverter, ground, and back to the bottom of C62. The discharge path in the grid circuit is from the top of C64 through R71, C61, the phase inverter, ground, and back to the bottom of C64. The time constant of each discharge path is long.

Between pulses, the voltage developed across R71 is opposite in polarity to that across R73; and the values of the components in the phase



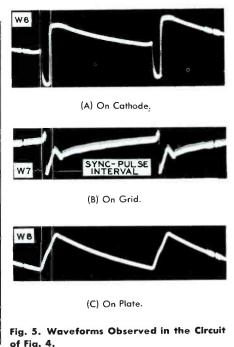
Fig. 4. Phase Detector in General Electric Model 21T17.

SAVE YOU TIME AND MONEY

detector are chosen so that these voltages will be equal if the freerunning frequency of the oscillator is the same as that of the sync signal.

When the oscillator frequency is too low, the sawtooth wave lags behind the sync pulses. The tube conducts at a time when the sawtooth wave is at a value more negative than normal. The grid voltage during the sync pulse is approximately the same as normal. Since plate current in a triode is proportional to plate voltage, provided that the grid voltage is constant, the proportion of cathode current going to the plate is reduced. The charge on C62 is lower than it is when the oscillator frequency is correct. The voltage developed across R73 between pulses is lower than that across R71; therefore, the resultant correction voltage is negative, and the speed of the multivibrator increases.

The sequence of events is exactly the opposite when the oscil-



take RECORD CHANGER PARTS for example

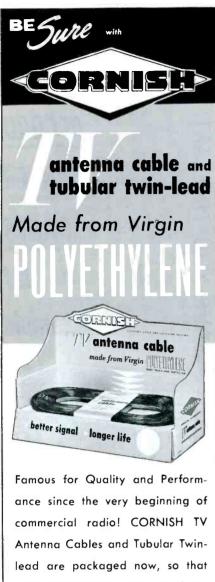


RCA Service Parts for RCA Victor record-changers and "Victrola"® phonographs are specifically designed to save you time and money by fitting right, installing fast. Record-changer parts are an especially important example of how every RCA Service Part is factorytailored to keep your servicing "on the go" profitably. Remember : RCA Service Parts are the only genuine replacement parts for RCA Victor phonographs, record-changers, radios, and TV receivers.



RCA

September 1955, PF REPORTER



your customers just can't miss them. They'll be looking for these brilliant orange-and-black displays . . . the countersign of superior service.

> Write for Complete Illustrated Catalog of Radio-TV Products



lator tends to run at a frequency faster than that of the sync signal. The charge on C62 is higher than usual, the voltage across R73 is greater than that across R71, and the correction voltage is positive.

The value of the positive correction voltage that can be supplied is limited because the grid of the multivibrator will draw current and some of the positive voltage will be neutralized when the bias of the multivibrator is reduced beyond a certain point.

The circuit found in the General Electric Model 21C106 has a phase detector which includes a slight modification of the system used in the Model 21T17. Resistor R72 has been removed, and R71 has been replaced with a potentiometer and a small fixed resistor. The circuit has been modified to accommodate the characteristics of the 5U8 tube used as the phase detector and to permit the inclusion of the potentiometer which is called the phase-balance control.

If there is synchronization at only one extreme of the horizontalhold control or if there is unstable horizontal synchronization, the technician should not immediately look for defective components in the phase detector and horizontal oscillator. The input signals to the phase detector should be checked first with an oscilloscope to make sure that the proper waveforms are arriving and that stray noise pulses are being kept out.

The horizontal-oscillator coil may need adjustment, especially if a new tube has been installed. To make this adjustment, the technician should follow the instructions given in the service notes for the set concerned.

Component deterioration short of actual failure will tend to have a considerable effect on phase detectors. Leakage in a capacitor, gas in a tube, or any change in the value of a resistor will have a more marked effect in phase-detector circuits than in many other applications.

THOMAS A. LESH

MASKS. In a Dick Rogers cartoon in Electrical Merchandising, one lady has just taken a 7-inch mask off a TV console to reveal a 10-inch mask framing the picture while explaining to the other lady, "I bought a 21-inch set last week and I'm breaking the news to my husband gradually."

MARKUS · · Dollar and Sense Servicing





"<u>This</u> bulb indicates gold. This one lights up for Uranium —and this one spots JENSEN NEEDLES."



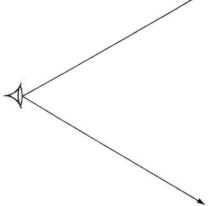
Antennas the Eyes of TV Receivers

(Continued from page 5)

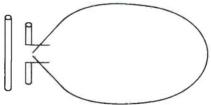
to respond to a wider range of frequencies if the diameter of the receiving elements is increased. See Fig. 1B.

A cone-shaped receiving element like that shown in Fig. 1C will also increase the frequency coverage, but this shape presents a high resistance to wind; therefore, it has been supplanted by the fan shape shown in Fig. 1D. An antenna with the latter shape is referred to as a conical antenna.

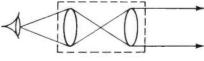
Still another method of obtaining wide-band operation is by using multiple receiving elements. See Fig. 1E. This antenna makes use of more than one receiving element, each tuned



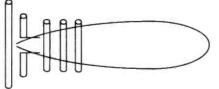
(A) Field of Vision With Unaided Eye.



(B) Field Pattern of Antenna Without Directors.



(C) Field of Vision With Telescope.



(D) Field Pattern of Antenna With Directors.

Fig. 2. Fields of Vision Compared ta Field Patterns af Television Antennas.



TRIAD *CORRECT REPLACEMENT

FLYBACKS

These three new flybacks are mechanically correct and electrically correct, ruggedized versions of manufacturer's items — precisely engineered by **TRIAD** for specific makes and models — to give exceptionally high performance and long, trouble-free service.



**COMPOSITE Replacement

Triad flybacks wherever possible are COMPOSITE items designed to provide correct electrical and mechanical characteristics for as many television chassis as possible.

Ask your distributor, or write, for Catalog TV-155C



September 1955, PF REPORTER



only

\$**69**95

10.000 In Active Use

IT PAYS

FOR

ITSELF

FAST!

IT'S PORTABLE

WEIGHT ONLY 10 LBS.

Unique reactivator function is accomplished by dynamic sweep between cathode and arid . . . removing gas ions and stale emitting material from surface of cathode tube.

the VITAMETER

- analyzes performance *characteristics*
- Iocate and remove inter-element shorts
- repairs open elements
- welds open filaments
- restores or improves emission quality

estimates tube life expectancy At your distributar or write for bulletin.

13224 LIVERNOIS AVENUE ELECTRONIC TEST INSTRUMENT CORP. DETROIT 38, MICHIGAN

The VITAMETER is handsomely designed and housed in rugged steel

case to insure long and dependable service. It is light, compact,

portable and therefore can be used on picture tube while it is still

in the cabinet. Just plug in and attach instrument socket to C.R. Tube

VITAMETER repairs tubes right-on-the-spot.

easy to read indicators tells the whole accurate story at a glance.



to a different frequency range and connected or coupled in such a manner that signals can be received over a wide range of frequencies.

The human eye, by reason of its unchangeable design, responds only to a limited range of light frequencies from red to violet. On the other hand, the frequencies to which an antenna responds can be changed by lengthening or shortening the ele ments. As the element length is increased, the frequencies to which an antenna responds become lower; and as the element length is decreased, the frequencies to which it responds become higher. For this reason, we can choose an antenna which will respond to any frequencies we wish to receive.

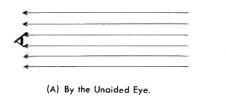
Improving Performance

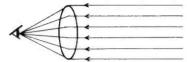
Once the receiving element has been decided upon for a particular range of frequencies, we then have a similarity to the human eye. In the case of the human eve, improvements upon its operation depend upon the addition of a system of lenses and mirrors; whereas, improvements upon the abilities of the receiving element of the antenna are dependent upon the addition of directors and reflectors.

When directors and reflectors are used in a manner similar to the use of lenses and mirrors, they are sometimes referred to as parasitic elements. These elements are not electrically connected to the receiv ing element, and their action is dependent entirely upon mutually induced fields created by the incoming radio wave. Hence, the name "parasitic" elements is derived. The parasitic elements play a large part in shaping the field pattern of the television antenna.

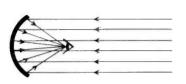
The normal field of vision of the human eye is changed when lenses are placed in front of the eye, as shown in Figs. 2A and 2C. An example is the telescope which creates a narrow field of vision. Directors can be thought of as lenses which act upon the radio waves arriving from the forward direction to a greater degree than on signals arriving from other angles. The director is placed in front of and parallel to the receiving element. The receiving element then makes use of the director to lookdown a narrow field of receptiv ity in much the same manner that a telescope is used by the eye to look at a distant point. Figs. 2B and 2D show field patterns of antennas with and without directors.

Let us refer back to the example of strong surrounding light





(B) By the Eye Through Large Lens.

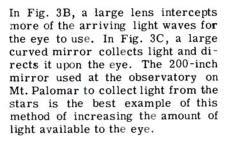


(C) By the Eye Using Curved Mirror.

Fig. 3. Amounts of Energy That Are Intercepted.

blinding the eye. One method of looking at a neon sign in the daylight would be to cup the hands over the eyes to shield them from the bright light. The antenna cannot be shielded in the same manner from interference, but a large screen can be mounted in back of the receiving element. This screen will reduce the interference from the back side. In addition, a system of directors will narrow the field pattern and reduce the amount of interference picked up by the receiving element. The reflector and directors will allow clearer reception of the television signal. This is similar to using a telescope or long tube to narrow the field of vision and to reduce the strong interfering light so that a distant neon sign will appear clearer and brighter.

The problem of the limited receiving area of the human eye, as shown in Fig. 3A, has been solved by increasing the sizes of the lenses and mirrors that are used with the eye.

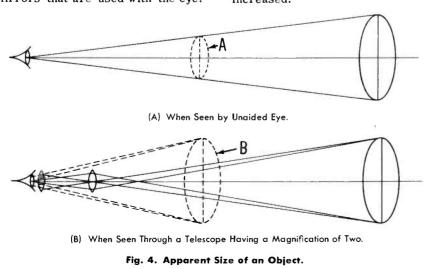


(D) By a Single Dipole.

(E) By Stacked Dipoles.

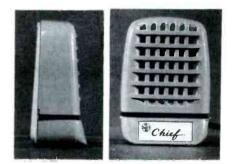
(F) By a Dipole and Reflector.

Fig. 3E shows an array of stacked antennas which present a large receiving area and intercept more of the incoming radio waves in comparison with the amount intercepted by the single antenna in Fig. 3D. The broadside and collinear arrays are examples of this method of increasing the receiving area presented to radio waves. A curved reflector is used in Fig. 3F. The radio waves striking the large area of the reflector are directed back upon the receiving element, and the strength of the received signal is increased.



WANTED FOR VALUE

An amateur, P. A. and tape recording microphone known to be in the vicinity of the price people want to pay



TURNER MODEL 808 CRYSTAL Response: 60-7,000 c.p.s.

Level: -49 db.

ALIAS MODEL 807 CERAMIC Response: 80-7,000 c.p.s. Level: -57 db.

ALIAS MODEL 809 MAGNETIC Response: 100-8,000 c.p.s.



Subject microphone has been seen in desk, stand and hand use where quality was demanded, accompanied by compact size and low cost. By virtue of its good looks and versatility, the Chief is sought by the public for economical amateur use, public address and paging, and is ideal original or replacement equipment for tape recorders. Chief Model 808 has moisture sealed crystal, is wind and blast proof. Ruggedness, good performance and resistance to high humidity and heat are characteristic of Chief Model 809 with magnetic interior. Chief Model 807 with ceramic interior has heat and humidity resistance at a lower cost.

For complete information, write today to



For full details see Literature Service Insert following page 86.

I st with all prices

Dave Rice's Official Pricing Digest answers a need long-felt by Servicemen-List or resale prices for every replacement part or component at your fingertips.

Over 300 pages; covers more than 60,000 items

Compiled like a telephone book (1) Alphabetical by Manufacturer (2) Alphabetical by Product Category (3) Numerical by Part Number. Price and identify any replacement item in seconds-as easy as 1-2-3.

1 st handy sized reference in the industry

 $9\frac{3}{4}$ " long by $3\frac{3}{4}$ " wide . . . convenient for counter, pocket, tool box or tube caddy.



1 st completely revised four times each year

Publication dates are October, January, April and July. Prices will be current on each publication date.

St in savings

Time and money savings-no wasted effort -no calls to your distributor to check prices. No undercharges-no overcharges when you price your tubes and parts from the Official Pricing Digest.

Stissue October, 1955

PRICE \$2.50 PER COPY-will pay for itself many times over by giving you CORRECT PRICES where and when you need them.

unitable exclusively thru

your parts distributor See him now and place your order for the first issue.

Electronic Publishing Co., Inc. 180 North Wacker Drive Chicago 6, Illinois

Directors and reflectors may be combined with the receiving element to produce a variety of antenna arrays which canthen be used singly or grouped together to form more complex arrays.

In any antenna array, there are three important characteristics to be considered. These are the directivity, the gain, and the terminal impedance. Similarly, in an optical system, three factors are of importance: the field of vision, the amount of amplification, and the ability to focus over the entire visible frequency spectrum.

Directivity

Let us consider the field of vision of a pair of binoculars. A pair with a very narrow field angle would be used to look at a single distant object. If these binoculars were used to watch a number of objects, the narrow angle would cut off some of the objects from view. A wide -angle pair of binoculars might allow you to see all of the objects.

An analogy to this would be a highly directive antenna being used in a location where signals are to be received from more than one direction. A highly directive antenna has the ability to receive a signal from one direction while rejecting signals from others. In this case, the signal arriving from a direction other than from the front would be rejected or at best would be received very poorly.

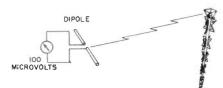
Gain

The second characteristic to be considered is gain. In a telescope, this is rated according to the amount of image amplification realized. Fig. 4 shows a comparison between the image A as seen by the eye and the enlarged image Bas seen through a telescope. A magnification of two has the effect of bringing the object halfway toward you. The area of the object will then appear four times as big. The latter effect is analogous to antenna gain.

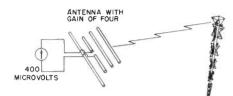
To describe the gain of an antenna, a reference point must be established. In most cases, the signal strength measured at the terminals of a dipole is used for this reference point. This dipole is called a reference dipole and is designed to be resonant at the frequency of the test signal. Assume that a signal strength of 100 microvolts is measured at the terminals of the dipole receiving element, as in Fig. 5A. The dipole is then replaced by an antenna array. The signal present at the terminals of the receiving element of the array



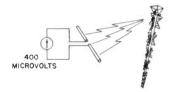
is 400 microvolts. Refer to Fig. 5B. This is four times the signal received on the dipole, or the gain of the antenna array is four.



(A) Signal Received by Single Dipole.



(B) Signal Received by Antenna Array at Same Distance As in A Shows Gain of Four.



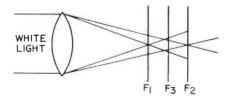
(C) Signal Received by Single Dipole With Source at Half the Distance of A.

Fig. 5. Drawings Which Illustrate Antenna Gain.

The signal of 100 microvolts is received on the dipole from the signal source. If the signal source were closer by one half the distance, a signal of 400 microvolts would be received. Refer to Fig. 5C. This is the same amount of signal received on the antenna array. The addition of parasitic elements to the receiving element has effectively brought the transmitter closer to the receiving element.

Impedance

The third important factor to consider is impedance. This is the



 (A) Focus Points Have Different Positions for Different Light Frequencies.



(B) Impedance Values Are Different for Different Radio Frequencies.

Fig. 6. Plain Lens Compared to Dipole With Small-Diameter Elements.

most difficult of the antenna characteristics to explain. To form an analogy to antenna impedance, we will consider the ability of a lens to focus properly throughout the visible frequency spectrum.

A plain glass lens bends the high-frequency or violet light to a greater degree than it bends the low-frequency or red light. A beam of white light is directed through this lens in Fig. 6A. The violet light or high frequencies will focus at point F_1 ; the red light or low frequencies will focus at point F_2 . A compromise point at F3 can be used for the focal plane, and both red and violet light will be slightly out of focus. At one frequency between the red and violet, the focus will be correct. The condition is known as chromatic aberration.

A similar situation exists in an antenna with a small-diameter receiving element. See Fig. 6B. At the resonant frequency, the impedance will be 72 ohms; and at frequencies off resonance, it will be more than 72 ohms. The maximum transfer of energy to a 72-ohm transmission line takes place when the terminal impedance of the dipole is 72 ohms; therefore, at frequencies other than the resonant frequency, the transfer of energy to the transmission line will be less.

Fig. 7A shows two lenses composed of two types of glass cemented together to form a single lens which causes all light frequencies in the visible spectrum to focus at point F_3 . Similarly, the dipole can be made to retain an impedance match of 72 ohms over a given frequency band by increasing the diameter of the receiving elements, as in Fig. 7B.

In the design of a broad-band antenna, it is important that the impedance variation be as small as possible over the entire range of frequencies being received. A large variation in impedance at any frequency will result in a signal reduction at that frequency.

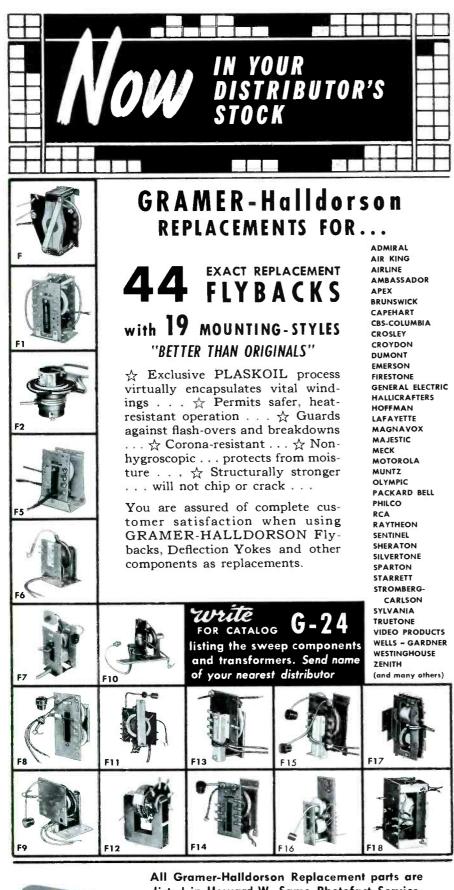
Let us review the three important characteristics of television antennas.

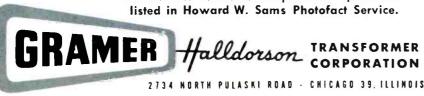
1. Directivity of an antenna is its ability to receive a signal from one direction and to reject simultaneously signals arriving from other directions.

2. The gain of an antenna is the ratio between the signal voltage



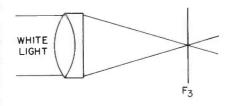
AVAILABLE through all jobbers!



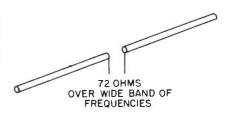


available at the terminals of the test antenna and the signal voltage which would be developed at the terminals of a reference dipole.

3. The terminal impedance of an antenna is the reactance in ohms at the antenna terminals. When the antenna is connected to a resistor having a resistance equal to the terminal impedance, maximum energy will be transferred from the antenna to the resistor. This maximum transfer of energy will also occur if the antenna is connected to a transmission line having a characteristic impedance equal to the terminal impedance of the antenna.



(A) Focus Point Is Fixed for All Visible Light Frequencies.



(B) Impedance Value Is Constant for Wide Band of Radio Frequencies.

Fig. 7. Composite Lens Compared to a Dipole With Large-Diameter Elements.

In presenting the analogy between antennas and the human eye, we have attempted to create a different viewpoint from which to look at the television antenna and its characteristics.

The television antenna plays an important part in television reception. Its application and installation should be given the consideration that a person gives his own eyes when he purchases a pair of eyeglasses.

All types of television antennas will receive a television signal. Many types will give good results, but one antenna which is chosen for a particular area and properly installed will give the best results.

GEORGE B. MANN



CATALOG and LITERATURE SERVICE valuable manufacturers' data available to our readers

- 1J. B & K (B & K Manufacturing Co.) Bulletin No. 500 describing DYNA-QUIK, Model 500, a new dynamic mutual conductance tube tester that completely tests, with laboratory accuracy, 99% of all tubes; and Bulletin 104 describing two new B & K Cathode Rejuvenator Testers—the CRT 400 and the CRT 200. See advertisements pages 68, 69.
- 2J. CBS (CBS-Hytron, a Division of CBS, Inc.) Flyer describing CBS tube promotion kit tying in with advertising on Arthur Godfrey's Talent Scouts and in Good Housekeeping Magazine. See advertisement page 16.
- 3J. CENTRALAB (Centralab, a Division of Globe-Union, Inc.)

Information on how to obtain the Centralab "Pick-Ur-Pak" 4-drawer metal cabinet for storing capacitors and other small parts. See advertisement page 62.

4J. CLAROSTAT (Clarostat Manufacturing Co., Inc.)

Precision Potentiometer, Series 42-900, Form No. 753793010. See advertisement page 4.

5J. CORNELL-DUBILIER (Cornell-Dubilier Electric Corp.)

Vibrator Replacement Guide (VC). See advertisement page 71.

- 6J. EICO (Electronic Instrument Co., Inc.) Free EICO Catalog HS-9 describes complete line of 46 Kits and Wired Instruments, including oscilloscope, VTVM's, signal generators, tube testers, flyback testers, etc. See advertisement page 78.
- 7J. ELECTRONIC TEST (Electronic Test Instrument Corp.)

Brochure on Vitameter. See advertisement page 82.

8J. FINNEY (The Finney Co.)

Combined catalog and technical data sheet; engineering data folder; both on new GEOMATIC series antenna. See advertisement page 34.

JUST CHECK AND MAIL THE CARD

1. Circle or check the corresponding numbers of literature you want to receive.

2. Fill in your complete name and address.

3. Detach and mail selfaddressed card. No postage necessary. 9J. GENERAL CEMENT (General Cement Mfg. Co.)

G-C No. S-57 New Products Supplement and Printed Circuit Service Manual. See advertisement page 24.

10J. GERNSBACK (Gernsback

Publications, Inc.) Descriptive literature on the Gernsback Library Books. See advertisement page 78.

11J. HICKOK (The Hickok Electrical Instrument Co.) New 8-page Radio-TV Test Equipment

New 8-page Radio-TV Test Equipment catalog. See advertisement page 65.

12J. HYCON (Hycon Mfg. Co.)

Catalog sheets on 616 Color Bar Generator, Model 622 5" Oscilloscope, 614 VTVM, and Model 617 3" Oscilloscope. See advertisement page 56.

- 13J. IRC (International Resistance Company) Form S-031, Auto Radio Control Replacements. See advertisement 2nd cover.
- 14J. JENSEN (Jensen Industries, Inc.) Jenselector (guide to correct needle) Wall Chart, (list of needles and cartridges); Catalog; Jenseneedler, (guide to salespeople new in the needle field). See advertisement page 80.

15J. OHMITE (Ohmite Mfg. Co.)

Bulletin No. 147 describes the line of Ohmite Axial Lead Vitreous Enameled All-Welded Construction Resistors. Includes tables of resistance values carried in stock with list prices. See advertisement page 66.

16J. PHAOSTRON (Phaostron Company) "777" VTVM. See advertisement page 48. 17J. RADIART (The Radiart Corp.)

F-925 Vipower Catalog. See advertisement insert.

18J. SOUTH RIVER (South River Metal Products Co.)

Complete catalog of Antenna Mounting Accessories. See advertisement page 81.

19J. SYLVANIA (Sylvania Electric Products, Inc.) Test Equipment Free Trial and Time

Test Equipment Free Trial and Time Payment Plan. See advertisement pages 26, 27, and 42.

20J. TACO (Technical Appliance Corp.)

Catalog 5010 on "Heavy-Duty" fully welded broad-band Yagi Antennas for communications. See advertisement page 53.

21J. TRANSVISION (Transvision, Inc.)

Electronic Components Catalog (instruments, parts, kits, master antennas); "Hi-Fi" Catalog (speakers, cabinets, etc.). See advertisement page 82.

22J. TRIAD (Triad Transformer Corp.)

New Triad TV Replacement Guide, TV-155. listing Triad correct replacement transformers for television use showing recommended Triad items for more than 100 television manufacturers and over 5800 models. See advertisement page 81.

23J. TURNER (The Turner Co.)

Bulletin No. 969 describing the Turner Chief crystal, ceramic or magnetic microphone. See advertisement page 83.

24J. XCELITE (Xcelite, Inc.)

Folder describing new, larger chrome plated hand reamers; also catalog on complete line of screwdrivers, nut drivers, pliers, kits. See advertisement page 76.

Please send me the following literature checked below:

٦J	2J	3J	4J	5J	6J	7J	8J	9J	10J	11J	12J
13J	14J	15J	16J	17J	18J	19J	20J	21J	22J	23J	24J

Print plainly or type below

Firm					OFFER GOOD ONLY UNTIL
Firm Address					NOV. 1, 1955
City	Zor	neState		<mark></mark>	
Has you	r address changed	since you last v	wr <mark>ote us 🗌 I</mark>		Yes
To guard	ntee receipt of litero	iture please check	one of boxes b	elow:	
_	endent Serviceman				

COLOR TV TRAINING SERIES

QUESTIONS ON PART XVI

Part XVI of the Color TV Training Series appears in this issue and should be studied prior to reading the following questions.

These questions are presented to give the reader an opportunity to test himself on the color-television material discussed in this part.

- 1. What is the appearance of the screen when color synchronization is lost?
- 2. What is the best stage in which to begin the trouble-shooting procedure for the loss of color synchronization?
- 3. If the receiver employs a color killer, which tube is the only one that can cause loss of color synchronization?
- 4. What would be the result if the DC correction voltage applied to the oscillator-control stage were lost or had an incorrect value?
- 5. What indication on the screen points to improper color purity?
- 6. What circuits and components should be checked when improper color purity is present?
- 7. What indications in a monochrome picture point to misconvergence of the beams?
- 8. If the beams converge properly in the horizontal direction but not in the vertical direction, what is the procedure to follow for finding the cause of the trouble?

C.P.O. & V.M.R,

FIRST CLASS PERMIT No. 1076 (Sec. 34.9, P. L. & R.)

Indianapolis, Ind.

BUSINESS REPLY CARD

No Postage Stamp Necessary If Mailed in the United States

3¢ POSTAGE WILL BE PAID BY

PF REPORTER

Reader's Literature Service Dept.

2201 EAST 46TH STREET

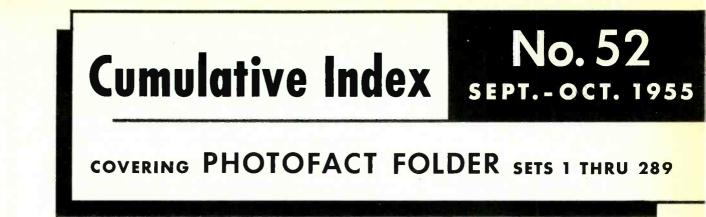
INDEX TO ADVERTISERS September, 1955

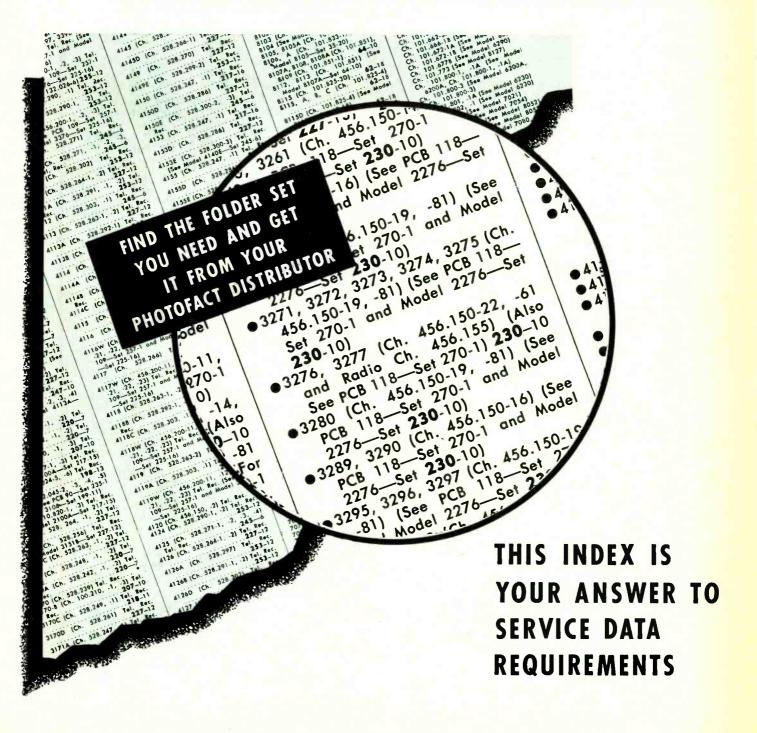
Advertiser

Page No.

B & K Manufacturing Co. 68, 69 Blonder-Tongue Labs., Inc. 70 Bussmann Manufacturing Co. 6 Centralab Div. of Globe-Union, Inc. . . 62 Chicago Standard Trans. Corp. 18 Clarostat Mfg. Co., Inc. 4 Columbia Wire & Supply Co. 85 Cornell-Dubilier Electric Corp. 71 Electronic Pub. Co., Inc. 84 Electronic Test Instrument Corp. . . . 82 General Electric Co. Insert Gernsback Publications, Inc. 78 Gramer-Halldorson Trans. Corp. ... 86 Hickok Electrical Instrument Co. . . . 65 International Rectifier Corp. 28 International Resistance Co. . . 2nd Cover Jackson Electrical Instr. Co. 73 Jensen Industries, Inc. 80 Precision Apparatus Co. 20 Electric Corp. Radio Corp. of America .14, 79, 3rdCover Radio Merchandise Sales, Inc. 50 Sangamo Electric Co. 40 Service Instruments Co. 80 South River Metal Products Co. 81 U. S. Electronic Research & Development Corp. 60, 61

While every precaution is taken to insure accuracy, we cannot guarantee against the possibility of an occasional change or omission in the preparation of the REPORTER.





THIS INDEX CURRENT ONLY UNTIL NOV. 15th, 1955

Cumulative Index to PHOTOFACT FOLDERS

No. 52 · Covering Folder Sets Nos. 1 through 289 · World's Finest Electronic Service Data

HOW TO USE THIS INDEX

To find the PHOTOFACT Folder you need, first look for the name of the receiver (listed alphabetically below), and then find the required model number. Opposite the model, you will find the number of the PHOTOFACT Set in which the required Folder appears, and the number of that Folder. The PHOTOFACT Set number is shown in bold-face type; the Folder number is in the regular light-face type.

IMPORTANT-1. The letter "A" following a set number in the Index listing, indicates a "Preliminary Data Folder." These folders were designed to provide immediate basic data on TV receivers. Many of these were later superseded by regular Photofact Folders. In those cases where short production runs and/or limited distribution prevented availability of a sample chassis the "A" designation has been retained.

2. Models marked by an asterisk (*) have not yet been covered in a standard Folder. However, regular PHOTOFACT Subscribers may obtain Schematic, Alignment Data or other required information on these models without charge by supplying make, model or chassis number and serial number. (When requesting such data, mention the name of the Parts Distributor who supplies you with your PHOTOFACT Folder Sets.)

3. Production Change Bulletins contain data supplementary to certain models covered in previously issued PHOTOFACT Folders, and are listed in this Index immediately preceding the listing of the original coverage of the model or chassis. These Bulletins should be filed with the Folders covering the models to which the changes apply.

Set Folder	Set Folder	Set Folder	Set Folder	Set Folder
No. No.	No. No.	No. No.	No. No.	ADMIRAL-Cont.
ADAPTOL	ADMIRAL-Cont.	ADMIRAL-Cont.	ADMIRAL-Cant.	
CI-1 48—1	Chassis 19A1 (Also see PCB 5-Set	Chassis 22F2Z (Also See PCB 121— Sot 275-1) 260—2	Model T1822 (See Ch. 1981, 1981C) Model T2211 (See Ch. 19F1B)	Models 4H166A, B, C, CN (See Ch. 20B1)
ADMIRAL (Also see Record	Chassis 19A1 [Also see PCB 3—3et 106-1)	Set 275-1)	Model T2211 (See Ch. 19F1B) Model T2211A (See Ch. 19T2A)	Models 4H166S, SN (See Ch. 30B1)
Changer Listing) Chassis UL5K1	Chassis 1981 (Also see PCB 112-	121—Set 275-1}	Model T2212 (See Ch. 19F1A or	• Models 4H167A, B, C, CN (See Ch. 2081)
Chassis UL7C1	Set 263-1)	•Chassis 22M1	19F1B) Models T2215, T2216, T2217,	Models 4H1675, SN (See Ch. 30B1)
Chassis UL7C1	263-1 and Chassis 1981-Set	Chassis 22N2 (Also See PCB 121-	Models T2215, T2216, T2217, T2218, T2219 (See Ch. 19A2) Models T2216A, T2217A (See Ch.	Models 4R11, 4R12 (See Ch. 4R1)
Chassis 3A1 2-24 Chassis 3C1 (Also see PCB 15-		Set 275-1}	Models T2216A, T2217A (See Ch.	Model 4T11 (See Ch. 4T1)
Set 126-11	• Chassis 1982, A, AZ, Z271-1 • Chassis 19C1 (Also see PCB 112-	• Chassis 22R2 (Also See PCB 121- Set 275-1)	20A2) Model T2222 (See Ch. 19F1 or	Model 4111 [See Ch. 411] Models 4W18, 4W19 [See Ch. 4W1] Models 4X11, 4X12 [See Ch. 4X1] Models 4X18, 4X19 [See Ch. 4X1]
Set 126-1)	Set 263-1}	• Chassis 22Y1	19F1C}	Models 4X18, 4X19 (See Ch. 4X1)
Chassis 3G1		Chrissis 23A1	• Model T2226 (See Ch. 19F1)	4711 4717 4714 4718 4719 (Ch.
Chossis 4A1	• Chassis 19E2, A	Chassis 24D1, 24E1, 24F1, 24G1,	Model T2232 (See Ch. 22F2) Model T2232Z (See Ch. 22F2Z)	Models 5A32/12, 5A32/15, 5A32/
Chassis 4B1 24—1 Chassis 4C2 285—1 Chassis 4D1 49—1 Chassis 4HF1 258—2	Chassis 19E2, A	• Chossis 24D1, 24E1, 24F1, 24G1, 24H1 (Also see PCB 9—Set 114-1) 103—2	Model T2232Z (See Ch. 22F2Z) Models T2236, T2237 (See Ch.	4Z1)
Chassis 401	Chassis 19F1, 19F1A (Also see PCB	Chassis 30A1 57—2 Chassis 30B1, 30C1, 30D1. 71—2	22A3) Model T2236Z (See Ch. 22A3Z or	
Chassis 4H1 71-2	Charge 19518 1951C (See PCB 112	Chassis 30B1, 30C1, 30D1, 71-2	22A3AZ3	Models 5D31, A (See Ch. 5D3) Models 5D32, 5D33 (See Ch. 5D3) Model 5D38 (See Ch. 5D3)
Chassis 4H1 71-2 Chassis 4J1, 4K1 77-1	-Set 263-1 and Chassis 1981-	 Models C2215, C2216, C2217 (See Ch. 19A2) 	Models T2237Z, T2239Z (See Ch.	Model 5D38 (See Ch. 5D3)
	Set 210-2)	 Model C2216Z (See Ch. 20A2Z) 	22A3Z) Model 12239 (See Ch. 22A3)	Models 5E21, 5E22, 5E23 (See Ch. 5E21
Chassis 451	• Chassis 19F2AZ, Z	• Models C2225, C2226, C2227 (See	@ Model T2242 (See Ch. 19K1)	Models 5E31, 5E32, 5E33 (See Ch.
Chassis 411, 481 77—1 Chassis 411 100—1 Chassis 481 108—3 Chassis 451 100—1 Chassis 411 108—3 Chassis 411 100—1 Chassis 411 100—1 Chassis 411 100—1 Chassis 421 20—1 Chassis 411 261—1	Chossis 1961, A	Ch. 22A3) Models C2225Z, C2226Z, C2227Z	Model T2242 (See Ch. 22A3) Model T2242 (See Ch. 19K1) Models T23012, ZN, T2302Z, ZN	5E3)
Chassis 4W1	112-Set 263-1}210-2	(See Ch. 22A3Z)	(See Ch. 18XP48Z) Models T2311Z, T2312Z (See Ch.	Models 5E38, 5E39 (See Ch. 5E3) Models 5F11, 5F12 (See Ch. 5F1) Models 5G21, 5G21/15, 5G22,
	Chassis 19J1, A	• Models C2236, C2237 (See Ch.	21 A 3 Z 1	Models 5G21, 5G21/15, 5G22,
Chassis 5A3	• Chassis 19L1	Model C2236A (See Ch. 20A2)	•Models 12316Z, T2317Z, T2318Z,	5G22/15, 5G23, 5G23/15 (See
Chossis 5B1 (See Model 6T02—Set 1-20)	Chossis 1912, Z, 19M2 266-1	Model C2246 (See Ch. 19F1B)	T2319Z (See Ch. 21A3Z) Models T2326Z, ZN, T2327Z, ZN	Ch. 5G2) Models 5J21, 5J22, 5J23 (See Ch.
Chassis SBT Phone 4-24	Chassis 19N1 (See PCB 78—Set 219-1 and Ch. 19E1—Set 203-2)	 Models C2316Z, C2317Z, C2319Z (See Ch. 21A3Z) 	(See Ch. 18XP4BZ)	5,12)
Chassis 581A	Chassis 19N2Z	Models C2326Z, C2327Z (See Ch.	Models TA1811, TA1812, TA1822 (See Ch. 19T1 or 19T1C)	Models 5K11, 5K12, 5K13, 5K14 (See Ch. 5K1)
Chossis 5C3	Chassis 19P1		Models TA2211, TA2212 (See Ch.	(See Ch. 3K1) Models 5L21, 5L22, 5L23 (See Ch.
Chassis 502	• Chassis 1951	•Models C2826Z, C2827Z (See Ch. 21G37)	19W1A or 19W1B)	5171
Chassis 5D3	• Chassis 1952, 1971, 1971C 266 —1 • Chassis 1972, 1972A (See PCB 112 —Set 263-1 and Chassis 1981—	21G3Z) Models CA2215Z, CA2216Z, CA2217Z (See Ch. 19L2Z) H. Ch222A (CA2227 (See Ch.	Models TA2215, TA2216, TA2217, TA2218 (See Ch. 19L2)	Models 5M21, 5M22 (See Ch. 5M2) Models 5M36, 5M37 (See Ch. 5M3) Model 5R10 (See Ch. 5R1)
256-3	-Set 263-1 and Chassis 1981- Set 210-21	CA2217Z (See Ch. 19L2Z)	Models TA2222 (See Ch. 19WI or	Model 5R10 (See Ch. 5R1)
Chassis 5E2	Chossis 19W1, A, B, C, 19Y1A	 Models CA2236, CA2237 (See Ch. 1912) 	19W1C1	Madels SKIL, SKIZ, SKIJ, SKI4
Chassis 5E3	266—1	Models CA2246 (See Ch. 19W1B)	Models TA2226 (See Ch. 19W1) Models TA2242 (See Ch. 19S2)	(See Ch. 5R1) Models 5R32, 5R33 (See Ch. 5R3)
Chassis 5G2	Chassis 20A1, 20B1 (Also see PCB	• Models CU2215, CU2216, CU2217	Models TS2301Z, ZN, TS2302Z, ZN	
	23-Set 140-1) 77-1 Chassis 20A2, 20A22. 256-2 Chassis 20D2 256-2 Chassis 20T1 (Also see PCB 15-Set	(See Ch. 1982) Models CU2225, CU2226, CU2227	(See Ch. 185X4BZ)	(See Ch. 5R3) Model 5521AN (See Ch. 5C3) Model 5522AN (See Ch. 5C3) Model 5523AN (See Ch. 5C3)
Chassis 5H1 20-1 Chassis 5H2 136-2 Chassis 5K1 30-1 Chassis 5L2 160-1 Chassis 5M2 157-2 Chassis 5M2 282-2	• Chassis 2002	(See Ch 2283)	Models TS2326Z, ZN, TS2327Z, ZN (See Ch. 18SX4BZ)	Model 5522AN (See Ch. 5C3)
Chassis 512	126-1 and PCB 26-Set 146-1)	• Models CU2225Z, CU2226Z, CU2227Z (Ch. 22B3Z)	Models TU1811, TU1812 (See Ch.	Model 5523AN (See Ch. 5C3)
Chassis 5M2		• Models CU2236, CU2237 (See Ch.	1951) @ Model TU1822 (See Ch. 1951)	Models 5532, 5533, 5534, 5535, 5538 (See Ch. 553)
Chossis 5M3	 Chassis 20V1 (Atso see PCB 15—Set 126-1 and PCB 26—Set 146-1) 	1982)	Model 101822 (See Ch. 1931) Model 102212 (See Ch. 1931)	
Chassis 581 59—1 Chassis 582 165—3 Chassis 582 272—1	117-2	Models F2216, F2217, F2218 (See Ch 2243)	Models TU2215, TU2216, TU2217,	Models 5731, 5732, 5733, 5734 (See Ch. 573) Model 5738 (See Ch. 573)
Chassis 5R3	Chassis 20X1, 20Y1	Ch. 22A3) Models F2216Z, F2217Z, F2218Z	TU2218, TU2219 (See Ch. 1982) Models TU2222, TU2226 (See Ch.	Model 5T38 (See Ch. 5T3)
Chassis 5K3 2721 Chassis 5K3 2721 Chassis 5T1 681 Chassis 5T3 2791 Chassis 5W1 792 Chassis 5X1 763	Chassis 2023 (Also see PCB 7—Set 110-1) 100-1	(See Ch. 22A3Z)	19/11	
Chassis 511	• Chassis 2021 (Also see PCB 73- 110-1) • Chassis 21A1 (Also see PCB 23- 77	Model F2226 (See Ch. 20A2) Models F2326Z, F2327Z, F2328Z	• Model TU2232 (See Ch. 22G2)	Models 5X11, 5X12, 5X13, 5X14 (See Ch. 5X1)
Chassis 5W1	Set 140-1)	[See Ch. 21A3Z or 21A3AZ]	Model TU2232Z (See Ch. 22G2Z) Models TU2236, TU2237 (See Ch.	Models 5X21, 5X22, 5X23 (See Ch.
Chassis 5X1	• Chassis 21A3Z	 Models FU2216, FU2217, FU2218 (See Ch. 2283) 	2283)	5X2)
Chassis 5Y2	Chassis 21A3Z	(See Ch. 2283) • Models FU2216Z, FU2217Z, FU2218Z (See Ch. 2283Z) • Models H2216, H2217 (See Ch.	Models TU2236Z, TU2237Z (See Ch. 2283Z)	Model 5Y22 (See Ch. 5Y2) Models 6A21, 6A22, 6A23 (See Ch.
Chassis 6A1 (See Model 6T01-Set	144-1 and PCB /9—Set 220-1)	FU2218Z (See Ch. 2283Z)	Model 3G18 (See Ch. 3G1)	6421
1-19) Chassis 6A2103—1	Charges 2101 (Also See PCB 25-	19A2)	Models 4C26, 4C27, 4C28 (See Ch.	Model 6C11 (See Ch. 6C1) Models 6C22, A, 6C23, A (See Ch.
Chassis 6B1	Set 144-1)	Models HA2216Z, HA2217Z (See	4C2) Models 4D11, 4D12, 4D13 (See Ch.	6C2, A1
Chossis 6C1		Ch. 19L2Z)	4D1)	Model 6C71 (See Ch. 10A1)
Chassis 6C2, 6C2A. 252—3 Chassis 6C1, 6E1N. 6—1 Chassis 6J2	Chassis 21D1 (Also See PG 23- Set 144-1)	Models HU2216, HU2217 (See Ch. 1982)	Models 4H15, 4H16, 4H17 (A or B) (See Ch. 2041)	Models 6J21, 6J22 (See Ch. 6J2) Model 6M22 (See Ch. 6M2)
Chassis 6J2	Chossis 21E1 [See Ch. 21D1-Set	Model HiFi6, HiFi7, HiFi8 (Ch. 15HF1, 4HF1, 1HF1)258-2	(See Ch. 20A1) Models 4H15, 4H16, 4H17, 4H18,	Models 6N25, 6N26, 6N27 (See Ch.
Chassis 611		15HF1, 4HF1, 1HF1)258-2 Models K2216, K2217 (See Ch.	4H19 (S or SN) (See Ch. 30B1)	5R2)
Chassis 6M1 25—1 Chassis 6M2 (See Ch. 6J2—Set	30-Set 156-2 and PCB 46-Set	19D23	 Models 4H18, 4H19 (C or CN) (See Ch. 2081) 	Model 6P32 (See Ch. 6E1, 6E1N) Models 6Q11, 6Q12, 6Q13, 6Q14
140-2}	180-1} 135-2 • Chossis 21G3Z 275-2	Models K2216A, K2217A (See Ch.	Models 4H115, 4H116, 4H117 (S or	(See Ch. 6Q1) Model 6R11 (See Ch. 6R1)
Chassis 6Q1	• Chossis 21G3Z	2002) Models K2226, K2227 (See Ch.	SN) (See Ch. 3081) Models 4H126A, B, C, CN (See Ch.	Model 6R11 (See Ch. 6R1) Model 6RP48, 6RP49, 6RP50 (See
Chassis 651	25-Set 144-1)118-2 • Chassis 21K1, 21L1 (Also see PCB	19G1)	21A1)	Ch. 3A1)
Chossis 6Q1 76 Chossis 6R1 54 Chossis 6S1 107 Chossis 6V1 62 Chossis 6V1 71 Chossis 6V1 75 Chossis 6V1 75 Chossis 7E1 18 Chossis 7C1 25	46-Set 180-11	Models KA2216, KA2217 (See Ch.	Model 4H126 (S or SN) (See Ch.	Models 6RT41, 6RT42, 6RT43 (See
Chassis 6W1 71-1	46-Set 180-1)	19M2} Models KA2226, KA2227 (See Ch.	3081) Models 4H137 (S or SN) (See Ch.	Ch. 581 Phono) Models 6RT41A, 6RT42A, 6RT43A
Chassis 6Y1 75-1	Set 156-2, PCB 46-Set 180-1	19Y1A)	3081)	(See Ch. 5B1A)
Chassis 7C1	Chassis 21P1, 21Q1 (Also see PCB	Models KU2216, KU2217 (See Ch.	Models 4H137A, B (See Ch. 21A1)	Model 6RT44 (See Ch. 7B1)
Chassis 7E1	30-Set 156-2 and PCB 46-Set	1902)	Models 4H145A, B, C, CN (See Ch.	Models 6511, 6512 (See Ch. 651) Model 6T01 1-19
Chassis 7G1 54-2	180-1)	Models L2215Z, L2216Z, L2217Z (See Ch. 19F2AZ)	2081) Models 4H1455, SN (See Ch. 3081)	Model 6T01 1-19 Model 6T02, 6T04 1-20
Chassis BC1 (See Ch. 8D1—Set 67-1)	Chassis 21X1, 21X2 (See PCB 62-	● Models 12326Z, 12327Z (See Ch.	Models 4H146A, B, C [See Ch.	Model AT05
Chassis 8D1	Set 196-1 and Ch. 21W1-Set	21C3Z)	2081)	Model 6T06, 6T07 (See Ch. 4A1)
Chards 941 32-1	177-2	•Models LA2215Z, LA2216Z,	Models 4H146S, SN (See Ch. 30B1)	Model 6T11 (See Model 6T02-Set
Chassis 981 49—2 Chassis 9E1 68—2 Chassis 10A1 3–30	• Chassis 21Y1	LA2217Z (See Ch. 19N2Z and Ch. 3D1)	 Models 4H147A, B (See Ch. 20B3) Models 4H147S, SN (See Ch. 30B1) 	Model 6T12 (See Ch. 4A1)
Chassis 10A1	• Chossis 2121, 2121A	Models LU2215Z, LU2216Z, LU2217Z	 Models 4H155A, B (See Ch. 2081) 	Model 6T44A (See Ch. 7B1)
Chossis 15HF1	Chassis 22A3, 22A3AZ, 22A3Z (Also	(See Ch. 19K2AZ)	Models 4H155S, SN (See Ch. 3081)	Models 6V11, 6V12 (See Ch. 6V1)
Chassis I/APJ	See PCB 121-Set 275-11 260-2	Models T1801, N, T1802, N (See Ch. 17XP3)	Models 4H156A, B (See Ch. 2081) Models 4H156S, SN (See Ch. 3081)	Models 6W11, 6W12 (See Ch. 6W1) Models 6Y18, 6Y19 (See Ch. 6Y1)
Chossis 185X4BZ, 185X4EZ, 185X4FZ, 185X4GZ 280—2	 Chossis 22B3, 22B3AZ, 22B3Z (Also See PCB 121—Set 275-1) 260—2 	Ch. 17XP3} Models T1806, N, T1807, N (See	Models 4H157A, B (See Ch. 20B1)	Models 7C60B, 7C60M, 7C60W (See
Chassis 18X4CZ, 18X4EZ, 18X4FZ,	• Chassis 22C2	Ch. 17XP3)	Models 4H157S, SN (See Ch. 3081)	Ch. 681)
18X4GZ	•Chassis 22C2	Models T1811, T1812 (See Ch. 1981	 Models 4H165A, B (See Ch. 2081) 	Models 7C61, 7C62, 7C62-UL (See
• Chossis 18XP4BZ	• Chossis 22F2	or 19B1C)	Models 4H1655, SN (See Ch. 30B1)	Ch. 6M1)

NOTE: PCB Denote: Production Change Bulletin.

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

Denotes Television Receiver.

_2

-3 -3

ADMIRAL-Cont.	AIRCASTLE-Cont.
 Models 321DX15A, 321DX16A, 321DX17A (See Ch. 19£1 or Ch. 	•416 (See Model 14C—Set 472.JP24, 472.JP25 (See 4/2.MP25—Set 168-1)
 19G1) Models 321DX15L, 321DX16L, 	4/2.MP25—Set 168-1) 472.MP24 (See Model 472.N Set 168-1)
 321DX17L (See Ch. 19N1) Model 321DX25B (See Ch. 19E) or 	472,MP251
Ch. 19G1) Model 321DX26 (See Ch. 19E1) Model 321DX26 (See Ch. 19E1)	4/2-053VM
Model 321DX26B (See Ch. 19E1 or Ch. 19G1)	
Model 321DX278 (See Ch. 19E1 or Ch. 19G1)	317-B)
•Models 321F15, 321F16 (See Ch.	●472.17XUCO, 472.17XUCO.1
Models 321F15, 321F16 (See Ch. 21L1 and Ch. 5D2) Model 321F18 (See Ch. 21L1 and	317-8)
Ch. 5D2) Model 321F27 (See Ch. 21L1 and	[See Model 20XUT-Set
Ch. 5D2) Models 321F35, 321F36 (See Ch.	4/2.1/A01.4, 4/2.1/A01.J
Models 321F35, 321F36 (See Ch. 21L1 and Ch. 5D2) Models 321F47 (See Ch. 21L1 and Ch. 5D2)	472.17xUT.6, 472.17xUT.7, 17XUT.8 (Ch. 317-D)2 472.20XUC (Ch. 220B) (See 20XUT—Set 185-3) 472.20XUT, 472.20XUT.1, 20XUT 2 (Ch. 220B) (See
	● 472.20XUC (Ch. 220B) (See 20XUT—Set 185-3)
 Ch. 502) Models 321F65, 321F66, 321F67 (See Ch. 21W1 and Ch. 502) Models 321K15, 321K16 (See Ch. 21U1 and Ch. 3C1) Model 321K18 (See Ch. 21L1 and Ch. 3C1) Model 321K27 (See Ch. 21L1 and 	•472.20XUT, 472.20XUT.1, 20XUT.2 (Ch. 220B) (See 20XUT—Set 185-3)
(See Ch. 21W1 and Ch. 5D2) Models 321K15, 321K16 (See Ch.	2UXUT-Set 185-3) • 472.21XUCM (Ch. 321-B)2
21L1 and Ch. 3C1) Model 321K18 (See Ch. 21L1 and	•472.21XUCM (Ch. 321-B)2 •472.21XUCO (Ch. 321-B)2 •472.21XUCO (Ch. 321-B)2 •472.21XUCO (Ch. 321-B)2
Ch. 3C1) Model 321K27 (See Ch. 2111 and	321-D)
Ch. 3C1)	321-B) 2 •472.21XUT.2 (Ch. 321-D).2
Models 321K35, 321K36 (See Ch. 21L1 and Ch. 3C1) Add A 221K47 (See Ch.	•472.217C, 472.217C.1 (Ch. 2
Model: 321K46, 321K47 (See Ch. 21L1 and Ch. 3C1) Model: 321K49 (See Ch. 21L1 and Ch. 3C1) Ch. 3C1)	•472.2171, 472.2171.1 (Ch. 3
• Model 321K49 (See Ch. 2111 and Ch. 3C1)	•472.221XC (Ch. 321-D)2
 Models 321K65, 321K66, 321K67 (See Ch. 21N1 and 3C1) Models 321M25, 321M27 (See Ch. 21Y1) Models 321M25, 321M26A 	321-D)
 Models 321M25, 321M26, 321M27 (See Ch. 21Y1) 	472.254
Models 321M25A, 321M26A, 321M27A (See Ch. 22Y1) Models 321UDX15L, 321UDX16L	568.205 568.205-1 (See Model 200
Models 321UDX15L, 321UDX16L (See Ch. 19P1)	139-3) 568.305
(See Ch. 19P1) Model 322DX16 (See Ch. 22E2) Model 322DX16A (See Ch. 22P2)	572 594-935 (See Model 93:
Model 322UDX16 (See Ch. 22R2) Models 421M15, 421M16 (See Ch.	128-2)
21Y1) Models 421M15A, 421M16A (See	602-182144 1 603-PR-8.1 1 603.880 2
Ch. 22Y1)	604
 Models 421M35, 421M36, 421M37 (See Ch. 22Y1) Models 520M11, 520M12 (See Ch. 	606-400WB1 607.2991 607-314, 607-3151
	607.314, 607.315
27424) Models 520M15, 520M16, 520M17 (See Ch. 22A2) Models 521M15, 521M16, 521M17 (See Ch. 21Y1) Models 521M15A, 521M16A, 521M17A (See Ch. 22Y1)	
•Models 521M15, 521M16, 521M17 (See Ch. 21Y1)	610.CL152B, M
•Models 521M15A, 521M16A, 521M17A (See Ch. 22Y1)	610.PM-236 (Similar to C
AERMOTIVE	610.D200
181-AD 12—1	610.F100
AERO (See Record Changer Listing)	610.FE153
AIMCEE (See AMC)	610.P-651.1 610.S500
AIRADIO SU-41D	610.W-100
SU-41D	626 641
3100	651 652.A25, 652.A351
AIRCASTLE	552.3A65.12
DM-700 85—1	652.5C1M. V
EV-760	652.5T5E. V
G-521	
K1	652.327SA
127-3)	652.505 652.505
P-20 71-3	659.520E, 1
P-22 87-1 PAM-4 101-1	782.5C1, 782.5R1
PM-78 100-2	935
PX	9151-Set 129-2)
RZU248 (See Model REV248-Set	•1700C, 1700T
121-2)	
SC-448 62-2	• 3170 (For TV Ch. See Set 1
SC-448 62—2 TD-6 103—3 WEU-262 91—1	652.611E, V 22 652.617E, V 22 652.6175.4 2 652.3275.4 2 652.6475.2 2 652.6475.2 2 652.6475.2 2 652.617.6275.3 1 659.5101.629.513 1 659.520E, 1 738.85400, U 1 2 782.5C1.782.5R1 2 782.5C1.782.5R1 2 782.5C1.782.5R1 2 9.51.5e1 129.21 1400C, 14001 1 1700C, 17001 1 1700C, 17001 1 1707 160.7 Ch. See Model 151.5e1 129.21 151.5e 129.21 150.5e 129.21 150.5e 129.21 151.5e 129.21 151.5e 129.21 151.5e 129.21 151.5e 129.21 151.5e 129.21 151.5e 129.21 151.5e 129.21 151.5e 129.21 152.5e 129.21 152.5e 129.21 153.5e 129.21 155.5e 129.25 155.5e 129.5e 129.25 155.5e 129.25 155.5e 129.25 155.5e 129.25 155.5e 129.5e 12
SC-448 62—2 TD-6 103—3 WEU-262 91—1 WRA1-A 47—1 WRA-4M 60—1 OCTOR VERSION 934	 allow allow for Radio Ch. See Set 1 for Radio Ch. See Model Set 126-2) allow for Radio Ch. See Model Set 136 41
SC-448 622 TD-6 1033 WEU-262 911 WRA-1A 471 WRA-4M 601 • K8702, X8703 93A1 • X1530, X8775 93A1	 2000C 3170 (For TV Ch. See Set 1 for Radio Ch. See Model Set 126-2) 4170 (For TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5000, 5001
SC-448 622 TD-6 1033 WEU-262 911 WRA1-A 471 WRA-4M 601 • K870/20, X8703 93A1 • K1750, X8775 93A1 78 521 9	2000 3170 (For TV Ch. See Set 1 for Radio Ch. See Model Set 126-2) 4170 (For TV Ch. See Set 1 for Radio Ch. See Model 5001 3004 5002, 5004 5003, 5004, 5005, 5006
SC-448 622 TD-6 1033 WEU-262 911 WRA1-A 471 WRA-4M 601 + 876702, 88703 93A1 + 81750, X8775 93A1 - 9 521 9 50-2 • 10C, 10T (See Model 14C-Set - 140-31	2000 3170 (For TV Ch. See Set 1 for Radio Ch. See Model Set 126-2) 4170 (For TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002, 5001 5003, 5004, 5005, 5006 5008, 5007 5016, 5011, 5012 (Ch. 110)
SC-448 622 TD-6 1033 WEU-262 911 WRA1-A 471 WRA-4M 601 - 18702, 88703 - 93A1 - 88702, 88703 - 93A1 - 90	*2000 *3170 (For TV Ch. See Set 1 for Radio Ch. See Model Set 126-2) *170 (For TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002, 5004 5003, 5004 5003, 5004 5005, 5004 5005, 5004 5015, 5014, 5012 (Ch. 110) 5015, 1 5020 5005
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
WEU-262 911 WRA1-A 471 WRA-4m 601 • K8702, K8703 93A1 • KK750, X8775 93A1 78 521 9 10C, 10T (See Model 14C-Set 140-3] 12C, 12T (See Model 14C-Set 140-3 14C-14T 140-3 14C-7-2	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024
SC-448 62-2 TD-6 103-3 WEU-262 91-1 WRA1-A 47-1 WRA-4M 60-1 WRA-4M 52-1 9 0.0C, 107 (See Model 14C-Set 140-3) 12C, 101 (See Model 14C-Set 146-3) 14C, 101 (See Model 14C-Set 146-3) 14C, 101 (See Model 14C-Set 140-3) 101 (See Model 14C-Set 140-3) 1021 (See Model 14C-Set 140-3) 1032 (See Model 14C-Set 140-3) 201 (See Model 14C-Set 140-3) 201 (See Model 14C-Set 140-3) 212 (See Model 14C-Set 140-3) 2136 (See Model 14C-Set 140-3) 214 (See Model 14C-Set 140-3) 215 (See Model 14C-Set 140-3)	Set 120-21 4170 (for TV Ch. See Set 1 for Radio Ch. See Model Set 136-4) 5002 5003 5004, 5005, 5006 5008, 5009 5008, 5009 5008, 5009 5008, 5011, 5012 (Ch. 110) 5020 5022 5024 1 5024

140.31 Model MP25-168-1 163-2 1 (Ch. 223-2 JCM.3, XUCM.5 223-2 1 (Ch. 223-2 223-2 472. 217B) 185-3) 5 (Ch. 223-2 7,472. 223-2 e Model 472 Model 223—2 223—2 0.2 (Ch. 223—2 (Ch. 223—2 317-D) 223—2 217-D) 317-D) 223-2 223-2 223-2 (Ch. 223-2 215-2 14-1 141-2 00-Set 141—2 55—1 15—Set 114—2 133—2 53—2 119—2 177—3 122—2 138—2 247—2 174—2 208—1 Chassis) 230—3 hassis) 226-2 242-3 38-3 72-2 442-3 38-3 77-2 442-2 18-3 17-1 15-1 169-2 2660-3 2460-1 169-2 2660-3 2460-1 10-3 11-3 68-2 2554-1 110-3 68-2 2554-1 110-3 68-2 285-4 285-4 285-4 287-2 297-2 29-2 28-2 Model 40---3 40-3 140-3, 350-16-2 19-1 20-1 46-1 13-4 18-3 16-3 23-2 45-1 45-3

AIRCASTLE-Cont. 90081, 9008W 90091, 9009W 90121, 9012W AIRLINE Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

99. 99<u>2</u> 97<u>2</u> 94<u>1</u> 54<u>1</u> 10002 46. 10005 62-59-10021-1, 10022-1 10023 10024-1 108014, 108504 121104 121124 127084 131504 131504 138104 59-3 58-1 58-2 57-4 73-1 61-2 55-2 60-2 69-1 54-3
 138104
 54-3

 138124
 64-1

 139114
 56-3

 59.4)
 147114

 147114
 56-3

 147654
 71-4

 150084
 71-4

 150084
 71-4

 159144
 (See Model 139144-Set 56-3)
 159144 (See Model 139144—Set 59-4) Ch. 2178 (See Model 472.17XUT) Ch. 2178 (See Model 472.10XUCA) Ch. 317-B (See Model 472.17XUCA) Ch. 317-D (See Model 472.17XUCA) Ch. 321-D (See Model 472.21XUT) Ch. 321-D (See Model 472.21XUT.2) AIR CHIEF (See Firestone)
 AIR CHIF (See Firestone)

 AIR KING

 A-400 (Ch. 470)
 23-1

 A-403
 20-2

 A-410 (Revised)
 34-1

 A-410 (Revised)
 40-1

 A-426
 43-1

 A-410 (Revised)
 40-1

 A-426
 43-1

 A-510
 A-502 (Ch. 465-4)

 A-510
 24-3

 A-510
 24-3

 A-510
 24-3

 A-500
 49-4

 A-600
 26-3

 A-625
 50-3

 A-604
 81-2

 A-625
 50-3

 A-1000, A-1001
 58-3

 A-1016
 91-2

 A2012 (See Model A1000-57-2

 A2012 (See Model A1001A-5et

 75-2

 A2013 (See Model A1001A-5et

 75-2

 A2014 (S AIR KING
 • IoC1, 1oC2, 1oC3 (Ch. 700-1)
 121--3

 • IoM1 (Ch. 700-1)
 121--3

 • IoT1B (See Model 1oC1 - Set 121--3
 151--3

 • IoT1B (See Model 1oC1 - Set 121--3
 151--2

 • IoT2 (Ch. 700-96).
 151--2

 • IoT1 (Ch. 700-96).
 151--2

 • IoT1 (Ch. 700-96).
 151--2

 • IoT1 (Ch. 700-93).
 151--2

 • IoT1 (See Model 4609--Set 11-2)
 1600.

 • IoT2 + 400 (See Model 4604--Set 4-23)
 4607.

 • IoT2 + 400 (See Model 4604--Set 4-23)
 4607.

 • IoT2 + 400 (See Model 4004--Set 4-23)
 4607.

 • IoT2 + 400 (See Model 4004--Set 12-2)
 Ch. 400 (See Model 1001)

 • IoT2 + 400 (See Model 4004--Set 12-2)
 Ch. 400 (See Model 1271)

 • IoT4 (See Model 4004--Set 12-2)
 Ch. 400 (S AIR KNIGHT (SKY KNIGHT) CA-500 17-4 CB-500P 17-31 N5-RD291 17-3 GSL-1581A, GSL-1582A ... 280-3 Denotes Television Receiver.

ADMIRAL-Cont

- - NOTE: PCB Denotes Production Change Bulletin.

www.americanradiohistory.com

AIRLINE-APEX ----

AIRLINE_Cont.	AIRLINE-Cont.
	25WG-2758B (Se 202-1 and Mode Set 144-2)
GSL-1614A, GSL-1615A, GSL- 1616A, GSL-1617A 289-2 GSL-3064C, D (See PCB 116-Set 268-1 and Model 35GSL-3064A-	Set 144-2)
268-1 and Model 35GSL-3064A	25WG-2758C, D 25WG-2761B (Se 2745C—Set 13)
Set 218-3) • GSL-3083C, D (See PCB 116—Set 268-1 and Model 35GSL-3083A—	25WG-27650, E G
Set 218-3)	2745C—Set 13 25WG-2765D, E (1 2745C—Set 13 25WG-2766A, B
•GSL-3164A, B, C	25WG-3049B (Se
WG-1572C	3049A—Set 16 • 25WG-3056A • 25WG-3059A (Se
• WG-3071E, F, WG-3073 E, F, WG-	
WG-2767A 241-2 •WG-3071E, F, WG-3073 E, F, WG- 3075D, E, WG-3077D, E, WG- 3079D, E (See PCB 95-Set 240-1 and Model 25WG-3066A-Set 2066	• 25WG-3060A
and Model 25WG-3066A-Set 206-2)	•25WG-3066A, B, •25WG-3070A •25WG-3071A, B, •25WG-3071D (Se
•WG-3180A (For TV Ch. only See Model 35WG-3171A-Set 222-3)	•25WG-3071D (Se
WG-3180A (For TV Ch. only See Model 35WG-3171A—Set 222-3) WG-3190A (For TV Ch. only See Model 35WG-3171A—Set 222-3)	240-1 and Mode
WG-5000 A, b, C, D, E, F, G	25WG-3072A, B, 25WG-3073A, B, 25WG-3073D (S
• WG-5002A 273-2	•25WG-3073D (Sec. 240-1 and Mode
• WG-5002B, WG-5003B2844 • WG-5100A, B	240-1 and Mode Set 206-2) 25WG-3075A, B,
05BR-30218	● 25WG-30//A, D,
05BR-3027A 150—3 05BR-3041A 145-1A	358R-1557A, 35
058R-3041A 145-1A 05GAA-992A 125-2 05GCB-1540A, 05GCB-1541A 131-2	1559A
05GCB-1540A, 05GCB-1541A 131-2 05GCB-3019A 116-2 05GCD-3658A 151-3 05GHA-1061A 175-3 05GHA-1061A 175-3 05GES-3020A, B, C (Alico see PCB 36-56E-3027A, 117-3 05GSE-3037A 117-3 05GSE-3042A (Alico see PCB 36- 554 166-1) 117-3	1559A • 35BR-3158A • 35BR-3167A, 35I 3169A
05GCB-3019A	3169A 35BR-6796A
05GHM-934A	35GAA-944A, 35GAA-946A
OSGSE-3020A, B, C (Also see PCB	35GAA-970A
36-5et 166-1)117-3 05555:3037A117-3 05555:3047A (Alto see PCB 36- 5et 166-1)117-3 05WG-1811B (See Model 94WG- 1811A-Set 99-4) 05WG-1813A	3169A 35BR-6796A 35GAA-944A, 35GAA-946A 35GAA-946A 35GAA-970A 35GAA-970A 35GAA-988A 35GHM-938A 35GHM-938A 35GHM-938A
©U5GSE-3042A (Also see PCB 36- Set 166-1)	35GHM-938A 35GHM-941C 35GHM-1073B, C
05WG-1811B (See Model 94WG- 1811A-Set 99-4)	35GHM-1074A
05WG-1813A	35GHM-2012A 35GHM-2020A
	35GMD-3309A (E UHF Conv. (Si
05WG 2749D 129_3	35GMD-3309A (L
05WG-2752	UHF Conv. (Si
Model 94WG-3006A-Set 72-4) • 05WG-3030A	35GSE-1555C (Se 1555A-Set 17
model 94WG-3006ASet 72-4) 05WG-3030A 119-3) 05WG-3030C 148-2 05WG-3031A 109-1 05WG-3036A, B 148-2 05WG-3036A, B 129-4 05WG-3036A, B 128-2 05WG-3036A, B 129-4 05WG-3035A, B 129-4 05WG-3035A, B 138-1537B 146-2 158R-1543B, 158R-1537B 145-2	1555A-Set 17 35GSE-1556C (Set
05WG-3031A 109_1 05WG-3036A, B 148-2 05WG-3038A 129-4	35GSE-1556C (Se 1556A-Set 17 35GSE-3074A (S
05WG-3038A 05WG-3039A, B	212-1 and Mode Set 195-21
05WG-3045A 129-4 15BR-1536B, 15BR-1537B 146-2	• 35GSE-3076A
158R-1543A, B, 158R-1544A, B 145-2	• 35GSE-3076A • 35GSE-3078A • 35GSE-3085A (S
147 3	212-1 and Mode Set 195-2) • 35GSE-3087A (S
158R-1542A, 158R-1549A, 1913 158R-2756B, 158R-2757A, 1483 158R-3035A, 155R2 158R-3053A, 8, 1492 156R-3053A, 8, 1492	• 35GSE-3087A (5 212-1 and Mode
•158R-3035A	Set 195-2) 035GSE-30954
15GHM-934A	• 35GSE-3097A
15GHM-935	35352-3057A 35522) 355223095A 35525-3097A 35525-3097A 35525-3097A 35525-3097A 35525-3097A 35525-3097A 35525-3097A 3552-3097A 35
	35GSG-2016B 35GSL-2770A 35GSL-3064A, B
15GSE-2764A	 35GSL-3064A, B 35GSL-3083A, B
13G3L-1300A, B, 13G3L-130/A,	• 35GSL-3083A, B 35WG-1570B, C 35WG-1572B (1570A—Set 17
15WG-1545A, B, 15WG-1546A, B	1570A-Set 17 35WG-15738
15WG-2745C 130-2	35WG-2761C, D 1
15WG-2749E, F	35WG-2765F, G
15WG-2758A	• 35WG-3060B (S
B	1570A-Set 17 35WG-1573B 35WG-2761C, D (2745C-Set 13 35WG-2765F, G (2745C-Set 13 • 35WG-3060B (S 237-1 and Mod. Set 212.2)
	• 35WG-3070B (S 237-1 and Mod Set 212-2)
Set 144-21	0.35WG-307TD. E.
2758A-Set 144-2)	Set 240-1 an
15WG-2761A (See Model 15WG- 2758A—Set 144-2) 15WG-2765A, B (See Model 15WG- 2745C—Set 130-2)	 35WG-3073D, E.
•15WG-3046A, B, C142-4 •15WG-3049A, B	3073A-Set 20
2745C-364 [30-2] 15WG-3046A, B, C	•35WG-3171A, B •35WG-3173A, B •35WG-3175A
• 15WG-3051A, B, C 142—4 • 15WG-3059A	•35WG-3175A •35WG-3177A
258R-1548A, 258R-1549B .191-3 258R-3058A B 200-1	• 35WG-3177A • 35WG-3179A • 45BR-3186A
258R-3058A	545R-1501A, 545
• 25BR-3061A	54BR-1501A, 54B 54BR-1503A, B, 6
• 256R-3069A 200-1 256AA-935B 181-2	54BR-1501A, 54B 54BR-1503A, B, C 54BR-1505A, B,
2568-3069A 200-1 256AA-9358 181-2 256AA-9948 170-3	54BR-1501A, 54B 54BR-1503A, B, C 54BR-1505A, B,
• 256R-3069A	54BR-1501A, 54B 54BR-1503A, B, 6
• 256R-3069A	348R-1501A, 348 548R-1503A, B, C 548R-1503A, B, 54KP-1209A, B, 54WG-1209A, B, 54WG-2500A, 54 61-6780 (Simil
2358.3069A 200 2358.3069A 200 235GAA-9358 18 170 325GAA-9948 170 325GAA-9946 170 325GAA-9946 167 235GHM-938A 250 235GHM-9408 252 235GHM-9418, C 235GHM-9418, C 235	548R-1301A, 548 548R-1503A, B, C 548R-1505A, B, 54WC-1209A, B 54WC-1801A, 54 54WC-2500A, 54 61-6780 (Simil 61-6781 (Simil
•258R-3059A 2001 ·25GAA-993B 1812 ·25GAA-994B 1703 ·25GAA-994A 1822 ·25GAA-994A 1822 ·25GAA-994A 1822 ·25GAA-994A 1822 ·25GHM-984A 2504 ·25GHM-940B 2524 ·25GHM-941B, C 2524 ·25GHM-1073A 2422 ·25GHM-1073A 2422 ·25GHM-1073A 2422 ·25GHM-1073A 2454	548K-1507A, B, G 548K-1503A, B, G 548K-1505A, B, 548K-1505A, B, 548K-1209A, B 548K-1209A, B 548K-1208A, B
2588.3057A 200-1 23GAA-9358 18-2 3GGAA-9358 18-2 23GGA-9948 170-3 23GGA-9948 170-3 23GGC-994A 167-4 23GGHM-938A 250-4 23GGHM-9408 252-4 23GGHM-9408 252-4 23GGHM-9408 252-4 23GGHM-1073A 242-2 23GGHM-1073A 242-2 23GGHM-1073A 256- 1555A 174-3 23GSE-1555A 174-3 23GSE-1555A 174-3	548K-1301A, 548 548R-1303A, 8, 6 548R-1303A, 8, 6 548R-1305A, 8, 5 54WG-1801A, 54 54WG-1801A, 54 54WG-2500A, 54 61-6780 (Simil 61-6781 (Simil 61-6783 (Simil
2558.5.3057A 2001 235GAA-9258 1812 235GAA-9948 1703 235GAA-9948 1703 235GCA-994A 1674 235GC+994A 1674 235GC+994A 2504 235GC+994A 2524 235GH-9408 2524 235GH-9418, C 2524 235GH-1073A 2422 235GH-1073A 2422 235GH-1073A 2422 235GH-3555A 1743 235GSE-1555A 174-3 235GSE-1556A 174-3 235GSE-1556A 174-3 235GSE-1556A 174-3 235GSE-15568 1568	3488-1501A, 348 5488-1505A, B, 5488-1505A, B, 5488-1505A, B, 5489-1209A, B, 5499-1209A, B
2358r.3059A 200—1 2358r.3059A 200—1 2350A.9948 18—2 2350A.9948 18—2 2350A.9948 18—2 2350A.996A 182—2 2350A.996A 182—2 2350A.996A 250—4 2350H.938A 250—4 2350H.9418, C 252—4 2350H.9418, C 252—4 2350H.2012A 256—2 2350H.2012A 256—1 2350H.2012A 256—1 2350H.2012A 256 1355A 174–3 23505E-13558 (see Model 2565E-13568 (see Model 2565E-13568) 1356A—5et 174–3 2355E-1356A 174—3 2355E-1356A 5et 174–3 2355E-1356A 5et 174–3 2355E-1356A	3488-1501A, 348 5488-1503A, B, C 5488-1505A, B, 5488-1505A, B, 5487-1209A, B, 5487-1209A, 5497-1209A, 5487-1209A, 5497-1200A, 5497-1200A, 5497-1200A, 5497-1200A, 5497-120
258R-3059A 2001 25GAA-9935 1812 25GAA-9945 1703 25GAA-996A 1822 25GAA-996A 1822 25GAA-996A 1822 25GDC-994A 1674 25GHM-9408 2524 25GHM-9418, C 2524 25GHM-9418, C 2524 25GHM-9418, C 2524 25GHM-9418, C 2524 25GHM-1073A 2422 25GHM-2012A 2561 25GHM-3012A 2561 25GHM-3012A 2561 25GHM-3012A 2561 25GSE-1555A 174-3 25GSE-1556A 174-3 25GSE-1556A 174-3 25GSE-1556A 174-3 25GSE-15578 (See Model 25GSE-15578 1556A -54 174-3 25GSE-15378 (See Model 25GSE-15578 1556A -54 174-3	348K-1501A, 348 548K-1505A, B, 548K-1505A, B, 548K-1505A, B, 548K-1505A, B, 548K-1505A, B, 548K-2500A, 54 61-6780 [Simil 61-6782 [Simil 61-6784 [Simil 61-6788 61-6788 61-6782
258R-3069A 2001 25GAA-993B 1812 25GAA-994B 1703 25GAA-996A 1822 25GAA-996A 1822 25GAA-996A 1822 25GAA-996A 1822 25GAA-996A 1822 25GHA-996A 1822 25GHA-996A 1824 25GHM-940B 2524 25GHM-941B, C 2524 25GHM-1073A 2422 25GHM-2012A 2564 25GHM-2012A 2564 25GHA-2012A 2564 25GSE-1555A 174-3 25GSE-1555A 174-3 25GSE-1556A 174-3 25GSE-15578 (See Model 25GSE-15578) 25GSE-2062A, 25GSE-3063A (Airo 195-2 25GSE-2062A, 25GSE-3063A (Airo	348K-1501A, 348 548K-1505A, B, 548K-1505A, B
258R-3069A 2001 25GAA-9935 1812 25GAA-9945 1703 25GAA-996A 1822 25GAA-996A 1822 25GAA-996A 1822 25GAA-996A 1822 25GAA-996A 1822 25GHA-996A 1822 25GHA-996A 1824 25GHM-9408 2524 25GHM-9418, C 2524 25GHM-9418, C 2524 25GHM-1073A 2422 25GHM-2012A 2564 25GSE-1555A 174-3 25GSE-1555A 174-3 25GSE-1556A 174-3 25GSE-1556A 174-3 25GSE-1556A 174-3 25GSE-1556A 174-3 25GSE-1556A 174-3 25GSE-1556A 174-3 25GSE-15578 (See Model 25GSE-15578) 25GSE-3062A, 25GSE-	348K-1501A, 348 548K-1503A, B, C 548K-1505A, B, 54KK-1209A, B 54KK-1209A, B
258F.30594 200-1 25GA.9358 181-2 25GA.9958 170-3 25GA.996A 182-2 25GA.996A 182-2 25GA.996A 182-2 25GH.996A 182-2 25GH.986 250-4 25GH.9818 250-4 25GH.918 252-4 25GH.918 252-4 25GH.918 252-4 25GH.918 252-4 25GH.918 252-4 25GH.918 212-1 25GH.918 212-1 25GH.918 212-1 25GH.918 212-1 25GH.91558 See Model 25GE-15564 174-3 25GSE-15564 174-3 25GSE-15564 174-3 25GSE-3062A, 25GSE-3063A (Airo 192 25GSE-3063A (Airo 192 25GSE-3081A (Airo 193-2 25GSE-3081A (Airo	348K-1501A, 348 548K-1505A, B, 548K-1505A, B, 544K-1209A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-120A, B, 5
258F.30594 200-1 25GA.9358 181-2 25GA.94358 181-2 25GA.9948 170-3 25GA.9964 182-2 25GDC-994A 167-4 25GHM-9408 252-4 25GHM-9408 252-4 25GHM-9408 252-4 25GHM-9408 252-4 25GHM-9408 252-4 25GHM-9408 252-4 25GHM-9012A 242-2 25GHM-9012A 245-4 25GHM-9012A 245-4 25GSE-15558 (See Model 25GSE-15568) 1356A-Set 174-31 25GSE-15568 1356A-Set 174-31 25GSE-15568 1356A-Set 174-31 25GSE-3062A 25GSE-3062A 25GSE-3063A (Alio see PCB 72-2 25GSE-3063A 212-1) 195-2 25GSE-3081A (Alio see PCB 72-2 25GSE-3087A (See Model 25GSE-3087A 25GSE-3087A (See Model 25GSE-3087A 193-2	348K-1501A, 348 548K-1505A, B, 548K-1505A, B, 544K-1209A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-1200A, B, 544K-120A, B, 5
258F.3059A 200-1 250A.9935 181	3488-1501A, 348 5488-1501A, 348 5488-1505A, B, 5448-1505A, B, 5449G-1801A, 54 61-6780 [Simil 61-6780 [Simil 61-6782 [Simil 61-6782 [Simil 61-6784 [Simil 61-6784 [Simil 61-6784 [Simil 61-6784 [Simil 61-6785 61-6785 61-6785 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-7201 61-6795 61-720 61-6795 61-720 61-6795 61-720 61-6795 61-720 61-6795 61-750 61-7
258F.3059A 200-1 250A.9935 181	348R-1501A, 348 548R-1503A, B, C 548R-1505A, B, 544R-1209A, B 544WG-1801A, 54 61-6780 [Simil 61-6780 [Simil 61-6782 [Simil 61-6782 [Simil 61-6784 [Simil 61-6784 [Simil 61-6785 61-6785 61-6785 61-6785 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-7201 648R-9166 [See Set 17-5] 648R-917A 648R-917A
258F.3069A 200-1 25GAA.9935 1812 25GAA.9945 1703 25GAA.9946 1822 25GAA.996A 1822 25GAA.996A 1822 25GAA.996A 1822 25GHA.996A 1822 25GHA.996A 2524 25GHM.9316 2524 25GHM.9418, C 2524 25GHM.2012A 256 25GHM.2012A 256 25GHM.2012A 256 25GHM.2012A 256 25GHM.2012A 256 25GSE-15558 (See Model 25GSE- 1355A-Set 174-3 25GSE-1556A 1356A-Set 174-3 25GSE-1578 (See Model 25GSE- 1556A-Set 174-3 25GSE-3065A 25GSE-3065A 193 25GSE-3067A (See Mode	348K-1501A, 348 548K-1503A, B, 548K-1505A, B, 548K-1505A, B, 544K-1505A, B, 544K-1505A, B, 544K-1505A, B, 544K-1505A, B, 544K-1505A, B, 544K-1505A, B, 544K-1505A, B, 544K-1505A, B, 548K-1505A, B, 548K-1505A, B, 548K-15075, S, 548K-1574, S, 548K-
258F.30594 200-1 25GA.9358 181-2 25GA.9358 181-2 25GA.9948 170-3 25GA.996A 182-2 25GA.996A 182-2 25GC.994A 167-4 25GHM-9408 252-4 25GHM-9408 252-4 25GHM-9408 252-4 25GHM-9408 252-4 25GHM-9418, C 252-4 25GHM-9012A 242-2 25GHM-9012A 245-4 25GSE-1555A 174-3 25GSE-1556A 174-3 25GSE-1556B 56e Model 1356A-Set 174-3 25GSE-1556A 174-3 25GSE-1556A 174-3 25GSE-3062A, 25GSE-3063A (Alto see PCB 72-5et 122-1) 195-2 25GSE-3063A 193-2 25GSE-3063A 193-2 25GSE-3063A (Alto see PCB 725et 122-1) 195-2 25GSE-3063A 195-2 25GSE-3063A 25GSE-3063A (Alto see PCB 72-2 25GSE-3063A 25GSE-3063A 25GSE-3063A	348R-1501A, 348 548R-1503A, B, C 548R-1505A, B, 544R-1209A, B 544WG-1801A, 54 61-6780 [Simil 61-6780 [Simil 61-6782 [Simil 61-6782 [Simil 61-6784 [Simil 61-6784 [Simil 61-6785 61-6785 61-6785 61-6785 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-6795 61-7201 648R-9166 [See Set 17-5] 648R-917A 648R-917A

AIRLINE-Cont.	AIRLINE-Cont.	AIRLI
GSL-1614A, GSL-1615A, GSL- 1616A, GSL-1617A289-2 GSL-3064C, D (See PCB 116-Set	25WG-27588 (See PCB 65—Set 202-1 and Model 15WG-2758A—	64BR-1 el 54
GSL-3064C, D (See PCB 116-Set	C-1 144 2)	648R-1
Z68- and Model JaGaL-JU04A-	307 144-21 25WG-2758C, D 195—3 25WG-2761B (See Model 15WG- 2745C—Set 130-2) 25WG-2765D, E (See Model 15WG- 2745C—Set 130-2) 25WG-2764A 8 195—3	64BR-1
Set 218-3) GSL-3083C, D (See PCB 116—Set 268-1 and Model 35GSL-3083A—	2745C—Set 130-2) 25WG-2765D E (See Model 15WG-	64BR-2 64BR-7
	2745C-Set 130-2)	64BR-7
Set 218-3] GSL-3164A, B, C272—2 GSL-3183A, B, C272—2 WG-1572C251—1 WG-2767A251—1 WG-3071E, F, WG-3073C, E, F, WG- 3079D, E, WG-3077D, E, WG- 3079D, E, See PCB 95–Set 240-1 and Model 25WG-3066A—Set 206-21	25WG-2766A, B	7120 64BR-7
WG-1572C	3049A-Set 164-2)	7320 64BR-7
WG-2767A	25WG-3059A (See Model 15WG-	64WG
3075D, E, WG-3077D, E, WG-	3049A—Set 164-2) 025WG-3060A 212—2	64WG 64W
and Model 25WG-3066A-Set	•25WG-3066A, B, C	64WG
206-2)	•25WG-3070A	64WG 1052
WG-3180A (For TV Ch. only See Model 35WG-3171A-Set 222-3) WG-3190A (For TV Ch. only See Model 35WG-3171A-Set 222-3)	3049A-Set 164-2) e25WG-3055A 192-2 e25WG-3059A (See Model 15WG- 3049A-Set 164-2) e25WG-3066A, B, C 206-2 e25WG-3070A, B, C 206-2 e25WG-3071A, B, C 206-2 e25WG-3071A, B, C 206-2 e25WG-3071A, B, C 206-2 e25WG-3072A, B, C 206-2 e25WG-3	64WG
WG-3190A (For TV Ch. only See Model 35WG-3171A-Set 222-3)	Set 206-2)	WG-
WG-5000 A, B, C, D, E, F, G 289-3 WG-5002A WG 5002B 273-2	• 25WG-3072A, B, C2062 • 25WG-3073A, B, C2062 • 25WG-3073D (See PCB 96Set 240-1 and Model 25WG-3073A	64WG
WG-5002A	●25WG-3073D (See PCB 96-Set	64WG 1804
WG-5002A 273-2 WG-5002B, WG-5003B 284-4 WG-5100A, 8 280-4 058B-3021B 150-3	Set 206-2)	64WG
058R-30218	• 25WG-3075A, B, C 206-2	64WG 64WG
05BR-30248	Set 206-2) 25WG-3075A, B, C206-2 25WG-3077A, B, C206-2 25WG-3077A, B, C206-2 25WG-3077A, B, C206-2 35BR-1557A, 35BR-1558A, 35BR 1597A 251-2 235BR-3158A 35BR-3158A 221-2 35BR-3167A, 35BR-3167A, 35BR-3168A, 35BR-3169A, 35BR-3167A, 328-2 35BC 35BR-3167A, 328-2 35BR-3168A, 35BR-3167A, 328-2 35BR-3168A, 35BR-3167A, 328-2 35BR-3168A, 35GAA-944A, 35C-A-945A, 255-2 35GAA-970A 253-2 35GAA-946A, 235BR-31969A 227-1 2	64WG-
05BR-3041A	358R-1557A, 358R-1558A, 358R- 1559A	64WG
05BR-3027A 150—3 105BR-3041A 145-1A 05GAA-992A 125—2 05GCB-1540A, 05GCB-1541A 131—2	• 35BR-3158A	2500 64WG
05GCB-3019A	3169A	2500
05GCD-3658A	358R-6796A	74BR-9
05GHM-1061A	35GAA-946A	74BR-1
36-Set 166-11	35GAA-3969A	74BR-1
05GSE-3037A	35GDC-998A, B	74BR-2
Set 166-1) 117-3	35GHM-941C	74BR-2
05WG-18118 (See Model 94WG- 1811A-Set 99.41	35GHM-10738, C	74BR- 74BR- 270
03GC8-1540A, 05GC8-1541A 131—2 03GC8-1540A, 05GC8-1541A 116—2 03GC8-1340A, 116—3 03GC8-1340A, 116—3 03GCH, 134A 151—3 03GC8-1340A, 167—3 03GC8-1310A, B, C (Alio see PC8 36—5et 166-1) 117—3 03GSE8-3042A (Alio see PC8 36— 050GSE-3047A (Alio see PC8 36— 117—3 03GGSE-1811B (See Model 94WG- 1811A—5et 99-4) 05WG 273C D, E (Sa Model 72—4	35GHM-2020A	270: 7488
94WG-2748C, D, E (See Model 94WG-2748A-Set 90-1)	35GMD-3309A (Early Version) Tel.	74BR-2 74GSC
05WG-2748F	33GAA.946A 255 2 33GAA.970A 255 2 35GAA.970A 255 2 35GAA.970A 257 1 35GC.998A, 8 259 1 35GHM-941C 255 4 35GHM-941C 255 4 35GHM-1074A 243 2 35GHM-1074A 245 2 35GHM-2012A 256 4 35GHM-2012A 256 4 35GHM-2012A 256 4 35GHA-2012A 256 4	74650
05WG-2752 100-3	35GMD-3309A (Late Version) Tel. UHF Conv. (Similar to Chassis)	74HA-
1811 A Set 99.4) 05WG-2748C, D, E [Sse Model 05WG-2748C, D, E [Sse Model 05WG-2748C, D, E [Sse Model 05WG-2748C, D, E 139-4 05WG-2748C, D, E 139-4 05WG-2748C, D, E 139-4 05WG-2748C, D, E 100-3 05WG-2749D, 100-3 100-3 05WG-3030A, B 100-3 05WG-3030C, 148-2 20 05WG-3030C, 148-2 148-2 05WG-3030A, B 148-2 05WG-30378, B 148-2 05WG-30378, B 148-2 05WG-30358, B 148-2 05WG-30358, B 129-4 05WG-30358, B 128-4 05WG-30358, B 128-4 05WG-30358, B 128-4 05WG-30454, B 128-4 05WG-30358, B 128-4 05WG-30454, B 128-4 05WG-30	UHF Conv. (Similar to Chassis)	74KR-
05WG-3030A	194—8 35GSE-1555C (See Model 25GSE- 1555A—Set 174-3) 35GSE-1556C (See Model 25GSE- 1556A—Set 174-3) 935GSE-3074A (See PCB 72—Set	74KR-
05WG-3031A	35GSE-1556C (See Model 25GSE-	74WG 74WG
05WG-3036A, B	• 35GSE-3074A (See PCB 72_Set	1050
05WG-3039A, B	212-1 and Model 25GSE-3065A-	74WG
15BR-1536B, 15BR-1537B .146-2	• 35GSE-3076A	74WG
158R-1543A, B, 158R-1544A, B 145-2	• 35GSE-3085A (See PCB 72-Set	105-
1588-1547A	35GSE-3076A	74WG 74WG
1588-27568, 1588-2757A .148-3	35GSE-3087A (See PCB 72—Set 212-1 and Model 25GSE-3063A— Set 195-2)	74WG 74WG
15BR-3053A, B	Set 195-2)	74WG
15GAA-995A	• 35GSE-3095A	Mod 74WG
1452 1452 158R-1547A 1433 158R-1547A 1433 158R-256A 158R-2757A 158R-256A 1483 158R-256A 1483 158R-256A 1683 156R-3035A 1483 156H-936A 1663 156H-936A 1563 156H-936A 1563 156H-1070A 1843 156SE-1565A, 8 1654 156SE-1564A, 8 155-4	35G5-3095A	74WG 180
15GHM-936A, 15GHM-937A 134—2	35GSG-2016B	74WG
15GHM-1070A	3GSG-20168	180- 74WG
ISGSE-2764A	• 35GSL-3083A, B	180 74WG
	35WG-1572B (See Model 25WG-	74WG
15WG-1545A, B, 15WG-1546A, B 158-2	1570A—Set 177-4) 35WG-1573B 228—1 35WG-2761C, D [See Model 15WG- 2745C—Set 130-2] 35WG-2765F, G [See Model 15WG- 2745C—Set 130-2] 35WG-2765F, G [See PCB 92—Set 237-1 and Model 25WG-3060A— Set 212-2]	74WG
15WG-2745C	35WG-2761C, D (See Model 15WG- 2745C—Set 130-2)	200 74WG
15WG-1345A, B, 15WG-1346A, B 15WG-2745C, 15B-2 15WG-2749E, F151-4 15WG-2752D, F151-4 15WG-2752B, 154-4 15WG-2758B (See PCB 65-54) 202-1 and Model 15WG-2758A- Set 144-2)	35WG-2765F, G [See Model 15WG-	201
15WG-2758A	• 35WG-30608 [See PCB 92-Set	74WG
202-1 and Model 15WG-2758A- Set 144-2}	237-1 and Model 25WG-3060A- Set 212-2)	250 74WG
15WG-2759A (See PCB 65-Set	@35WG-3070B (See PCB 92-5et	74WG 250
202-1 and Model 15WG-2758A- Set 144-2}	Set 212-2)	74WG
15WG-2761A (See Model 15WG-	Set 240-1 and Model 25WG-	74WG 250
15WG-2765A, B (See Model 15WG-	3071A-Set 206-2)	74WG
2/45C—Set 130-2} 15WG-3046A, B, C142-4	Set 240-1 and Model 25WG-	74WC 270
15WG-3049A, B	237.1 and Model 25WG-3070A— Set 212.2) 35WG-3071D, E, F [See PCB 96— Set 240-1 and Model 25WG- 3071A—Set 206-2) 35WG-3073D, E, F [See PCB 96— 581 240-1 and Model 25WG- 3073A—Set 206-2) 35WG-3177A, B222—3 35WG-3177A, B222—3 35WG-3177A, B222—3 35WG-3177A	74WC 250
15WG-3051A, B, C 142-4	• 35WG-3173A, B	74W0
25BR-1542A	• 35 to 3177A	250
258R-1548A, 258R-1549B . 191-3 258R-3058A, B	@458R-3186A	84BR- 84GA
25BR-3061A	54BR-1501A, 54BR-1502A . 2-26 54BR-1503A, B, C, 54BR-1504A, B,	84GC 84GD
25BR-3068A, B	C 3-4 54BR-1505A, B, 54BR-1506A, B	84GD
256R-3069A		84GH 84GS 84GS
Set 144-2) ISWG-2755A [See PCB 65—Set 202-1 and Model 15WG-2758A—Set 144-2) ISWG-2765A [See Model 15WG-2758A—Set 144-2) ISWG-3040A, B, C. 142—4 ISWG-3040A, B, C. 142—4 ISWG-3040A, B, C. 142—4 ISWG-3040A, B, C. 144—3 ISWG-3040A, B, C. 200—1 ISBR-3048A, B 200—1 ISBR-3048A, B 200—1 ISBR-3048A, B 200—1 ISBR-3048A, B 200—1 ISGAA-9948 170—3 ISGAA-9948 17	54KP-1209A, B	84HA
25GDC-994A 167-4	54WG-2500A, 54WG-2700A 4-15 61-6780 (Similar to Chassis)	Mod 84HA
25GHM-938A	147-2	84HA
25GHM-941B, C		181 84HA
25GHM-730A 230-4 25GHM-740B 232-4 25GHM-741B, C 232-4 25GHM-7073A 242-2 25GHM-2012A 256-4 25GSE-1555A 174-3 25GSE-1555A 25GSE-1558	61-6782 (Similar to Chassis) 61-6782 (Similar to Chassis) 146-3	• 84HA
25GSE-1555A	61-6783 (Similar to Chassis)	11-
	61-6784 (Similar to Chossis)	84KR- 84KR-
25GSE-1556A	61-6782 (Similar to Chossis) 146-3 61-6783 (Similar to Chossis) 173-4 61-6784 (Similar to Chossis) 174-4 61-6787 256-0 16-6787 266-2	84W0 84W0
1556A-Set 174-3) 25GSE-15578 (See Model 25GSE-	61-6788 264-2 61-6789 260-5	106
1556A-Set 174-31	61-6792	84WC
25GSE-3062A, 25GSE-3063A (Also see PCB 72—Set 212-1).195—2 25GSE-3065A 193—2	174-4 61-6787 256-5 61-6788 264-2 61-6792 237-2 61-6793 236-2 61-6793 236-2 61-6795 242-3 61-6795 242-3 61-12601 241-3 648R-9168 3-34	272 84WC
	61-6795	84WC
• 25GSE-3081A (Also see PCB 72- Set 212-1)	61-12601 241	84WC 271
Set 212-1)	64BR-916B (See Model 74BR-916B	84WC
25GSG-2016A	Set 17-5) 64BR-917A	84WC
189_7	64BR-917B (See Model 64BR-917A Set 10-1)	84WC
25GSL-1814A	64BR-1051A 2-32	84WC
25GSL-1814A	648R-10518 (See Model 648R- 1051A-Set 2-32)	84WC 271
B, 25WG-1572A, B 177-4	64BR-1205A, 64BR-1206A . 10-3	84WC
25WG-1573A	64BR-1208A 16-4	271

A

IRLINE-Cont. 4BR-1503B, 64BR-1504B (See Mod el 54BR-1503A-Set 3-4) 4BR 1512A B. 44BR 1514A 1	1
el 54BR-1503A-Set 3-4)	- 1
4BR-1513A, B, 64BR-1514A, I	3
4BR-1808A	
4BR-7000A 51-2	2
71204 57-	5
488-7300A 6488-7310A. 6488	•
7320A 54 4BR-7810A, 64BR-7820A 53 4WG-1050A 10	
4WG-1050A	
4WG-1050A 4WG-1050B, C, D (See Mode 64WG-1050A—Set 10-2)	
4WG-1052A	2
1052A-Set 9-2)	
4WG-1511A 64WG-1511B 64	5
WG-1512A, 64WG-1512B 5- 4WG-1801C 4-3	5
4WG-1801C 4-3 4WG-1804A, B 4-2 4WG-1804C {See Model 64WG	7
4WG-1804C (See Model 64WG 1804A-Set 4-27)	•
4WG-2007A, 64WG-2007B 5-	5
4WG-2009A, 64WG-2009B 6-2	2
4WG-2500A (See Model 54WG	
2500A—Set 4-15) 4WG-2700A, B (See Model 54WG 2500A—Set 4-15)	.
2500A-Set 4-15)	
4BR-916B 17-	i
4BR-916B 17—. 4BR-916B 17—. 4BR-1513B, 74BR-1514B . 24— 4BR-1812A (See Model 74BR 1812B—Set 22-2)	-
4BR-1812B	2
4BR-2001A (See Model 74BR 2001B-Set 23-2)	
458-20015 23	2
488-2701A	
	3
4GSG-8400A, 74GSG-8/00A	
4GSG-8810A. 74GSG-8820A	3
	2
4KR-1210A 41-	i
4KR-1210A 41 4KR-2706B 35 4KR-2713A 43	1
4WG-925A	6
4WG-1050C, D (See Model 64WG 1050A-Set 10-2) 4WG-1052B (See Model 64WG 1052A, B-Set 9-2) 4WG-1054B (See Model 74WG 1054A-Set 22-1) 4WG-1054A (See Model 74WG	
4WG-1052B (See Mode) 64WG 1052A, B-Set 9-2)	-
4WG-1054A	1
4WG-1054A 4WG-1054B (See Model 74WG 1054A-Set 22-1)	-
4WG-1056A	1
	5
4WG-1509A, 74WG-1510A 27- 4WG-1511B, 74WG-1512B (Se	e
Model 64WG-1511A-Set 2-5	
4WG-15118, 74WG-15128 (5e Model 64WG-1511A—Set 5-5) 74WG-1802A	
1802A-Set 25-41	- 11
74WG-1804C (See Model 64WG 1804A—Set 4-27) 74WG-1807A, B (See Model 64WG	
4WG-2002A	4
AWG-20078, 74WG-2007C 5-	6
4WG-2009B (See Model 64WG 2009A-Set 6-2)	
AWG-2010A ISee Model 74WG	
AWG-2010A ISee Model 74WG	
20108—Set 18-6) 74WG-20108 18-6) 74WG-20108 18-6 74WG-2500A (See Model 54WC 2500A—Set 4-15)	
74WG-20108 (See Model 74WG 20108Set 18-6) 74WG-20108 74WG-2500A (See Model 54WG 74WG-2500A (See Model 54WG	6
74WG-20108 (See Model 74WG 20108Set 18-6) 74WG-20108 74WG-2500A (See Model 54WG 74WG-2500A (See Model 54WG	6
74WG-20108 (See Model 74WG 20108Set 18-6) 74WG-20108 74WG-2500A (See Model 54WG 74WG-2500A (See Model 54WG	6
4WG-200A, See Model 24WG- 20108-Set 18-6) 18- 4WG-2006 (See Model 54WC 2500A-Set 4-15) 4WG-250A (See Model 74WC 2504A-Set 28-1) 4WG-2505A [See Model 54WC	
4WG-200A, See Model 24WG- 20108-Set 18-6) 18- 4WG-2006 (See Model 54WC 2500A-Set 4-15) 4WG-250A (See Model 74WC 2504A-Set 28-1) 4WG-2505A [See Model 54WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4WG-2010A [See Model / 4WG- 2010B-Set 18-6] 18- 4WG-2000B [See Model 54WC 2500A-Set 4-15] 28- 4WG-2504A [See Model 74WC 2504A-Set 28-1] 18- 14WG-2505A [See Model 54WC 2500A-Set 4-15] 28- 4WG-2700A, B [See Model 54WC 2704A-Set 28-1] 28- 4WG-2704B, C [See Model 74WC	
4200-20108 Isee Model 74WC-20008 20108-Set 18-6) 18 4200-20108 18-6) 18 42WG-20008 Ise Model 54WC 2500A-Set 4150 28 250A 42WG-23004 C (See Model 74WC 290A 2504A-Set 28-10 18 4 42002-2504 19 18 4 42002-2504 10 18 4 22004-Set 4130 28 18 42002-2504 19 28 4 22004-Set 4130 28 18 42002-2504 18 74 28 12 7204A-Set 28 10 27 26 27 26 27 26 26 26 26 26 27 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 </th <th></th>	
4200-20108 Isee Model 74WC-20008 20108-Set 18-6) 18 4200-20108 18-6) 18 42WG-20008 Ise Model 54WC 2500A-Set 4150 28 250A 42WG-23004 C (See Model 74WC 290A 2504A-Set 28-10 18 4 42002-2504 19 18 4 42002-2504 10 18 4 22004-Set 4130 28 18 42002-2504 19 28 4 22004-Set 4130 28 18 42002-2504 18 74 28 12 7204A-Set 28 10 27 26 27 26 27 26 26 26 26 26 27 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 </th <th></th>	
4200-20108 Isee Model 74WC-20008 20108-Set 18-6) 18 4200-20108 18-6) 18 42WG-20008 Ise Model 54WC 2500A-Set 4150 28 250A 42WG-23004 C (See Model 74WC 290A 2504A-Set 28-10 18 4 42002-2504 19 18 4 42002-2504 10 18 4 22004-Set 4130 28 18 42002-2504 19 28 4 22004-Set 4130 28 18 42002-2504 18 74 28 12 7204A-Set 28 10 27 26 27 26 27 26 26 26 26 26 27 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 </th <th></th>	
4200-20108 Isee Model 74WC-20008 20108-Set 18-6) 18 4200-20108 18-6) 18 42WG-20008 Ise Model 54WC 2500A-Set 4150 28 250A 42WG-23004 C (See Model 74WC 290A 2504A-Set 28-10 18 4 42002-2504 19 18 4 42002-2504 10 18 4 22004-Set 4130 28 18 42002-2504 19 28 4 22004-Set 4130 28 18 42002-2504 18 74 28 12 7204A-Set 28 10 27 26 27 26 27 26 26 26 26 26 27 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 </th <th></th>	
4200-2010A IS-6 2010B-Set 18-6 14WG-2000B IS-6 14WG-2000B IS-6 14WG-2000B IS-6 14WG-2000B IS-6 14WG-2000B IS-6 14WG-200A IS-6 14WG-200A-Set IS-6 14WG-200A-Set IS-7 14WG-200A, B IS-8 14WG-200A, B IS-7 14WG-200A, B IS-8 14WG-200A, B IS-8 14WG-2700A, B IS-8 14WG-2701A IS-7 14GCB-1062A S2-2 14GCB-1062A S2-2 14GCB-1062A S2-2 14GCB-1062A S2-2 14GCB-1062A S2-2 14GCB-1062A S3-3 14GCB-1062A S3-3 14GCB-1062A S3-3 <	
4200-2010A IS-6 2010B-Set 18-6 14WG-2000B IS-6 14WG-2000B IS-6 14WG-2000B IS-6 14WG-2000B IS-6 14WG-2000B IS-6 14WG-200A IS-6 14WG-200A-Set IS-6 14WG-200A-Set IS-7 14WG-200A, B IS-8 14WG-200A, B IS-7 14WG-200A, B IS-8 14WG-200A, B IS-8 14WG-2700A, B IS-8 14WG-2701A IS-7 14GCB-1062A S2-2 14GCB-1062A S2-2 14GCB-1062A S2-2 14GCB-1062A S2-2 14GCB-1062A S2-2 14GCB-1062A S3-3 14GCB-1062A S3-3 14GCB-1062A S3-3 <	
44WG-2010A [See Model / 4WG 2010B-Sei 18-6) 18-7 4WG-2010B 18-6 4WG-2010B 18-6 2100B-Sei 18-6) 18-7 4WG-2010B 280 2100B-Sei 18-6) 28-0 4WG-2010B 280 4WG-2010B 280 4WG-2010B 280 4WG-2010B 18-0 4WG-2010B 18-0 4WG-2010B 18-0 14WG-2010B 18-0 2004D-Sei 28-10 18-0 2004D-Sei 28-11 18-0 2004D-Sei 28-11 18-0 2004D-Sei 28-11 28-0 2005A-Sei 28-11 24-0 2005A-Sei 28-11 24-0 2005A-Sei 18-7 26-0 2005A-Sei 18-7 26-0 2005A-Sei 18-7 21-0 2005A-Sei 18-7<	- 66 11 7 11 5 3-3-8-3-44-1-1-1883)-2 2-3-B-2-44-1-1
44WG-2010A [See Model / 4WG 2010B-Sei 18-6) 18-7 4WG-2010B 18-6 4WG-2010B 18-6 2100B-Sei 18-6) 18-7 4WG-2010B 280 2100B-Sei 18-6) 28-0 4WG-2010B 280 4WG-2010B 280 4WG-2010B 280 4WG-2010B 18-0 4WG-2010B 18-0 4WG-2010B 18-0 14WG-2010B 18-0 2004D-Sei 28-10 18-0 2004D-Sei 28-11 18-0 2004D-Sei 28-11 18-0 2004D-Sei 28-10 28-0 2004D-Sei 28-11 24-0 2005A-Sei 28-11 24-0 2005A-Sei 18-7 26-0 2005A-Sei 18-7 26-0 2005A-Sei 18-7 21-0 2005A-Sei 18-7<	- 66 11 7 11 5 3-3-8-3-44-1-1-1883)-2 2-3-B-2-44-1-1
44WG-2010A [See Model / 4WG 2010B-Sei 18-6) 18-7 4WG-2010B 18-6 4WG-2010B 18-6 2100B-Sei 18-6) 18-7 4WG-2010B 280 2100B-Sei 18-6) 28-0 4WG-2010B 280 4WG-2010B 280 4WG-2010B 280 4WG-2010B 18-0 4WG-2010B 18-0 4WG-2010B 18-0 14WG-2010B 18-0 2004D-Sei 28-10 18-0 2004D-Sei 28-11 18-0 2004D-Sei 28-11 18-0 2004D-Sei 28-10 28-0 2004D-Sei 28-11 24-0 2005A-Sei 28-11 24-0 2005A-Sei 18-7 26-0 2005A-Sei 18-7 26-0 2005A-Sei 18-7 21-0 2005A-Sei 18-7<	
4.WG-2010A [See Model / 4WG-2010B 2010B-Set 18-6) 18-0 4.WG-2010B 18-0 2.300A-Set 8-15) 28-0 4.WG-2000B 2500A-Set 4-15) 2.4WG-200A-Set 4-15) 28-0 2.4WG-200A-Set 4-15) 18-0 2.4WG-200A-Set 4-15) 18-0 2.504A-Set 4-15) 18-0 2.504A-Set 4-15) 18-0 2.4WG-200A, 15 (See Model 54WC 28-0 2.300A-Set 4-15) 18-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 18-7) 26-0 2.4WG-2709A 26-0 2.305A-Set 18-7) 28-0 2.305A-Set 18-7) 38-0 <th></th>	
4.WG-2010A [See Model / 4WG-2010B 2010B-Set 18-6) 18-0 4.WG-2010B 18-0 2.300A-Set 8-15) 28-0 4.WG-2000B 2500A-Set 4-15) 2.4WG-200A-Set 4-15) 28-0 2.4WG-200A-Set 4-15) 18-0 2.4WG-200A-Set 4-15) 18-0 2.504A-Set 4-15) 18-0 2.504A-Set 4-15) 18-0 2.4WG-200A, 15 (See Model 54WC 28-0 2.300A-Set 4-15) 18-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 18-7) 26-0 2.4WG-2709A 26-0 2.305A-Set 18-7) 28-0 2.305A-Set 18-7) 38-0 <th></th>	
4.WG-2010A [See Model / 4WG-2010B 2010B-Set 18-6) 18-0 4.WG-2010B 18-0 2.300A-Set 8-15) 28-0 4.WG-2000B 2500A-Set 4-15) 2.4WG-200A-Set 4-15) 28-0 2.4WG-200A-Set 4-15) 18-0 2.4WG-200A-Set 4-15) 18-0 2.504A-Set 4-15) 18-0 2.504A-Set 4-15) 18-0 2.4WG-200A, 15 (See Model 54WC 28-0 2.300A-Set 4-15) 18-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 18-7) 26-0 2.4WG-2709A 26-0 2.305A-Set 18-7) 28-0 2.305A-Set 18-7) 38-0 <th></th>	
4.WG-2010A [See Model / 4WG-2010B 2010B-Set 18-6) 18-0 4.WG-2010B 18-0 2.300A-Set 8-15) 28-0 4.WG-2000B 2500A-Set 4-15) 2.4WG-200A-Set 4-15) 28-0 2.4WG-200A-Set 4-15) 18-0 2.4WG-200A-Set 4-15) 18-0 2.504A-Set 4-15) 18-0 2.504A-Set 4-15) 18-0 2.4WG-200A, 15 (See Model 54WC 28-0 2.300A-Set 4-15) 18-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 4-15) 28-0 2.300A-Set 18-7) 26-0 2.4WG-2709A 26-0 2.305A-Set 18-7) 28-0 2.305A-Set 18-7) 38-0 <th></th>	
44WG-2010A [See Model / Amc. 2010B-Set 18-6) 18 74WG-2000B 18-6) 74WG-2010B 18 74WG-2010B 18 74WG-2010B 18 74WG-2010B 250 74WG-2010B 28 74WG-200A [See Model 74WC 74WG-200A, B [See Model 74WC 2504A-Set 28-11 74WG-2700A, B [See Model 74WC 2500A-Set 4-15) 74WG-2700A, B [See Model 74WC 250G-Set 28-11 74WG-270A, C [See Model 74WC 250G-Set 28-11 74WG-270A, B [See Model 74WC 250G-Set 18-71 74WG-270A, B (See Model 74WC 250G-Set 18-71 74WG-270A, B (See Model 74WC 250G-Set 18-71 74WG-270A 18-71 74WG-270A 55 74GC-1062A 52 74GC-1062A 52 74GC-1062A 52 74GC-1062A 52 74GA-15	
44WG-2010A [See Model / Amc. 2010B-Set 18-6) 18 74WG-2000B 18-6) 74WG-2010B 18 74WG-2010B 18 74WG-2010B 18 74WG-2010B 250 74WG-2010B 28 74WG-200A [See Model 74WC 74WG-200A, B [See Model 74WC 2504A-Set 28-11 74WG-2700A, B [See Model 74WC 2500A-Set 4-15) 74WG-2700A, B [See Model 74WC 250G-Set 28-11 74WG-270A, C [See Model 74WC 250G-Set 28-11 74WG-270A, B [See Model 74WC 250G-Set 18-71 74WG-270A, B (See Model 74WC 250G-Set 18-71 74WG-270A, B (See Model 74WC 250G-Set 18-71 74WG-270A 18-71 74WG-270A 55 74GC-1062A 52 74GC-1062A 52 74GC-1062A 52 74GC-1062A 52 74GA-15	
44WG-2010A [See Model / Amc. 2010B-Set 18-6) 18 74WG-2000B 18-6) 74WG-2010B 18 74WG-2010B 18 74WG-2010B 18 74WG-2010B 250 74WG-2010B 28 74WG-200A [See Model 74WC 74WG-200A, B [See Model 74WC 2504A-Set 28-11 74WG-2700A, B [See Model 74WC 2500A-Set 4-15) 74WG-2700A, B [See Model 74WC 250G-Set 28-11 74WG-270A, C [See Model 74WC 250G-Set 28-11 74WG-270A, B [See Model 74WC 250G-Set 18-71 74WG-270A, B (See Model 74WC 250G-Set 18-71 74WG-270A, B (See Model 74WC 250G-Set 18-71 74WG-270A 18-71 74WG-270A 55 74GC-1062A 52 74GC-1062A 52 74GC-1062A 52 74GC-1062A 52 74GA-15	
14WG-2010B [See Model / AWG-2010B 2010B-Sei 18-6) 18 14WG-2001B [See Model / AWG 14WG-2001B 18 14WG-2001B 18 14WG-2001B 2500A-Sei 4-15) 14WG-2001B 28 14WG-2001B 28 14WG-2001B 28 14WG-2001B 18 14WG-2001B 18 14WG-2001B 18 14WG-2001A 150 14WG-2001A 150 14WG-2003A 158 14WG-2003A 158 14WG-2003A 158 14WG-2003A 159 14WG-2003A 158 14WG-2003A 158 14WG-2003A 158 14WG-2003A 18 14WG-2003A 18 14GC-5967A 21 14GC-5967A 35 14GSE-2010A, 84GSE-2711A 70 14GC-5967A 32 14GSE-2010A, 84GSE-271A 32 14GGSE-2011A 18	
4.WG-2010A [See Model / 4WG-2010B 2010B-Sei 18-6) 18 4.WG-2010B [See Model 54WC 2300A-Sei 4-13) 28 4.WG-2000B [See Model 54WC 2300A-Sei 4-13) 28 4.WG-200A [See Model 74WC 4.WG-200A, B (See Model 74WC 200A-Sei 28-1) 18-G 18-G 4.WG-200A, B (See Model 74WC 200A-Sei 28-1) 2.WG-270A, B (See Model 74WC 270A, Sei 28-1) 2.WG-270A, B (See Model 74WC 270A, Sei 28-1) 2.WG-270A, B (See Model 74WC 2050A-Sei 28-1) 2.WG-270A, B (See Model 74WC 2050A-Sei 28-1) 2.WG-270A, B (See Model 74WC 2050A-Sei 18-7) 2.GE 18-7 26-7 2.WG-270A, B (See Model 74WC 2050A-Sei 18-7) 2.GE 205A-Sei 18-7) 26-7 2.WG-200A, B (See Model 74WC 205A-Sei 18-7) 26-7 2.WG-200A, B (See Model 74WC 205A-Sei 18-7) 26-7 2.WG-200A, B (See Model 74WC 205A-Sei 18-7) 24-7 2.WG-200A, B (See Model 74WC 205A-300A 21-3 <t< th=""><th></th></t<>	

A	1	ĸ	N	E	-	C	o	1	ľ	

 94WG-2748A,
 B.
 94WG-2747A

 94WG-2748A,
 B.
 94WG-2747A

 94WG-2748A,
 94WG-2747A
 71-5

 94WG-2748C,
 [See Model 94WG-2748C
 74-5

 94WG-3748C,
 [See Model 94WG-2748C
 72-44

 94WG-3006A,
 72-4
 85-3

 94WG-3016A,
 B.
 C [See See 110-2

 94WG-3016A,
 B.
 C [See See 110-2

 94WG-3022
 85-3

 94WG-3024A,
 See 3006A

 94WG-3028A,
 [See Model 94WG-3006A-Set 72-4]

 94WG-3028A,
 S5-3

 94WG-3028A,
 85-3

 94WG-3028A,
 S5-3

 ALDENS
 S
 ALDENS ALGENE ALLIANCE ALLSTATE

ALTEC LANSING ALC-101 84-2 •ALC-205, ALC-206 105-3 A2238 66-2 A3238 66-2 A3233 86-2 A333A 165-5 A339A 274-3 A-433A 165-5 303A 166-4

• C2052 (See Model T1853-Set 197-3) •C2150 (See Model C1720-Set 175-2) •C2152, A (See Model T1853-Set 197-3)

€C2155 (See Mode) T1B53-Set 197-3)

AMBASSADOR-Cont.

Amprovement of the second seco

AMC (AIMCEE)

 •114C,
 114 joining 0 111-3

 •116C,
 116C,

 •116C,
 116T

 (Similar to Chassis)
 111-3

 125P
 3-27

 126
 16-1

AMERICAN COMMUNICATIONS (5ee Liberty)

AMPEX (See Recorder Listing)

AMPLIFIER CORP. OF AMERICA

ACA-100DC, ACA-100GE 63-2 AMPLIPHONE

10 **21**—1 20 **21**—1 **21**—12 AMPRO (See Recorder Listing)

ANDREA

ANSLEY

Denotes Television Receiver:

32		 	2	 	5-27
41	(Paneltone)	 		 	4-38
53		 		 	24-8
●701		 	÷	 • •	71-0
API	EX				
485		 		 	37-2

192A 17 817, 920, 924 181 9120, 9121 181 9820, 98208, 9821 181 181-3 181-3

NOTE: PCB Denotes Production Change Bulletin. Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

APPROVED ELECTRONIC INSTRUMENT CORP.-AUTOMATIC

ARVIN-Cont.

ARVIN-Cont. 355T (Ch. RE-213) (See Model 356T —Ser 38-1) 356T (Ch. RE-233) (See Model 152T —Ser 33-1) 360TFM, 8E-233) (See Model 152T —Ser 33-1) 360TFM, 361TFM (Ch. RE-260) 4427 (Ch. RE-278) (See Model 440T —Ser 96-3) 442 (Ch. RE-278) (See Model 440T —Ser 96-3) 445 (Ch. RE-278) (See Model 440T —Ser 96-3) 445 (Ch. RE-278) (See Model 440T —Ser 96-3) 445 (Ch. RE-278) (See Model 440T —Ser 96-3) 544 (S44 (Ch. RE-201)) (See Model 440T —Ser 96-3) 544 (S44 (Ch. RE-201)) (See Model 440T —Ser 96-3) (See Model 40T —Ser 96-3) (See Model 40T —Ser 95-3) (Ch. RE-201) (See Model 450-555 (Ch. RE-202) (See Model 450-9 (Ch. RE-308)) (See Model 450-9 (Ch. RE-279) (See Model 471 (Ch. RE-370) (See Model 471 (Ch. RE-370) (See Model 474 (Ch. RE-370) (See Model 551T_S) (See Model 551 APPROVED ELECTRONIC INSTRUMENT CORP.
 INDERUMENT
 41-2

 A-600AC
 175-4

 A710
 177-5

 A-800
 176-2

 A-850
 175-5
 ARC 601 25-5 ARCADIA ARIA ARLINGTON ARLINGTON 30T14-056 (Similar to Chassis) 38T12A-058 (Similar to Chassis) 31713 (Similar to Chassis) 31713 (Similar to Chassis) 318145 (Similar to Chassis) 31814-872 (Similar to Chassis •318T6A (Similar to Chassis) 85—3 •318T6A-950 (Similar to Chassis) 31876A-950 (Similar to Chassis, 85--3
 31879A-900 (Similar to Chassis)
 78--4
 321M531C (Similar to Chassis)
 321M539A (Similar to Chassis)
 321M539A (Similar to Chassis)
 226-11
 226-11
 266-12
 321M539A 226-11 •51876A (Similar to Chossis) 85-33 •51879A-918 (Similar to Chossis) 78-4 •518T10A-916 (Similar to Chossis) 78-4 •518T10A-916 (Similar to Chossis) •2318T6A-954 (Similar to Chassis) 85-3 •231879A-912 (Similar to Chassis) 78-4 •2321MS39A (Similar to Chassis) 226-11 ARTHUR ANSLEY SP-1 TP-1 ARTONE
 ARTONE

 AR21

 AR21

 AR21

 AR21

 AR21

 ARC1

 ARC1

 ARC1

 ARC1

 ARC1

 ARC1

 ARC1

 ARC1

 ARC1

 ITCD (Sale Prod.)

 ITCR (Sar Prod.)

 ITCR (Sar Prod.)

 17L
 172_3

 205_3
 80-1

 205_3
 205_3

 205_3
 205_3

 205_3
 205_3

 205_1
 205_3

 205_1
 705_3

 205_1
 705_1

 205_1
 70-4

 Prod.)
 170_4

 93CM
 170_4
 172-3 112X 203D (1st Prod.) 203D (2nd Prod.) 524 819 1000, 1001 31632CR 8193CM 1128
 Interference
 Interference
 Interference

 •2126CM (Ch. TE280-2, TE-289-3)
 I20-3

 (Alto see PCB 20—Set 124-13

 •2160, 2161, 2162, 2164 (Ch. TE-270, TE-270, 126-3)

 •161, 2162, 2164 (Ch. TE-270, TE-270, 176-3)

 •3100TB, 3100TM, 3101CM, 3100-TM, 3101TM, (Ch. TE-272, 1, TE Bla3CR, B193CM
 Bla3CR, B193CM
 ARVIN
 Bl3-S50K8-UHF
 262--2
 Pl3-S50K8-UHF
 266--2
 Pl3-S50K8-UKAU, 21-S51TBU, TAU, 21-S52K8U, KAU, 21-S51TBU, TAU, 21-S52K8U, KAU, 21-S53TBU, TBU, Ch. TE-379, TE-379-11 (Also See PCB 127--Set 286-11 266-er
 Series, TE386-UHF 'E
 Series, TE386-UHF 'E
 Series, TE-386-UHF 'E
 Series, TE-389, 'A
 Series, TE-388-UHF 'E
 Series, ARVIN 9210, 5211, 5212 (Ch. TE-315, 1, 1, 2, 3, 4, -5) (Alio see PCB 37— Set 166-1 and PCB 59—Set 184-194
 951-5
 95213TM (Ch. TE331-3, -4, -5) (See PCB 66—Set 203-1, PCB 92—Set 181-4)
 96173TM (Ch. TE331-3, -4, -5) (See PCB 66—Set 203-1, PCB 92—Set 181-4)
 96173TM (Ch. TE-331, -1, -2, -3, -4) (Alio see PCB 66—Set 203-1)
 96173TM (Ch. TE-331, -1, -2, -3, -4) (Alio see PCB 66—Set 203-1)
 96173TM (Ch. TE-331, -1, -2, -3, -4) (Alio see PCB 66—Set 203-1)
 96173TM (Ch. TE-331, -1, -2, -3, -4) (Alio see PCB 66—Set 203-1)
 96173TM (Ch. TE-331, -1, -2, -3, -4) (Alio see PCB 66—Set 203-1)
 96177TM (Ch. TE-331, -1, -2, -3, -4) (Alio see PCB 66—Set 203-1)
 972B 67—Set 204-1 and Model 6213TM—Set 195-4)
 96213B (Ch. TE-30, -1, -2) (See PCB 86—Set 203-1)
 96213TM (Ch. TE-30, -1, -2) (See PCB 66—Set 203-1)
 96213TM (Ch. TE-30, -1, -2) (Alio see PCB 66—Set 203-1)
 96213TM (Ch. TE-30, -1, -2) (See PCB 66—Set 203-1)
 96213TM (Ch. TE-30, -1, -2) (See PCB 66—Set 203-1)
 96213TM (Ch. TE-30, -1, -2) (See PCB 66—Set 203-1)
 96213TM (Ch. TE-30, -1, -2) (See PCB 66—Set 203-1)
 96213TM (Ch. TE-30, -1, -2) (See PCB 66—Set 203-1)
 96213TM (Ch. TE-30, -1, -2) (See PCB 66)
 96213TM (Ch. TE-30, -1, -2) (See PCB 86)
 964755524471
 964755524471
 964755524471
 97544
 9754

 Z80TFM.
 281TFM.
 (Ch.
 RE-253

 341T (Ch.
 RE-253)
 44-2

 350P (Ch.
 RE-267).
 69-3

 350P B (Ch.
 RE-277).
 100-4

 351P8 (Ch.
 RE-277).
 100-4

 351P8 (Ch.
 RE-277).
 100-4

 351P8 (Ch.
 RE-277).
 100-4

 351P8 (Ch.
 RE-267-2).
 100-4

 352-PL
 353-PL (Ch.
 RE-267-2).
 100-4

 352-PL
 353-PL (Ch.
 RE-267-2).
 100-4

NOTE: PCB Denotes Production Change Bulletin.

At & i station

 P273C6E-UHF (Ch. TE340, -1, -2)
 P273C6E-UHF (Ch. TE340, -1, -2, -2)
 P273C6E-UHF (Ch. TE331-6) (See PCB 66
 Set 203.1, PCB 92—Set 237.1
 and Model 6175TM—Set 181-4)
 B171TM-UHF (Ch. TE332-5) (See PCB 68
 PCB 88—Set 231-1 and Model 6173TM—UHF (Ch. TE332-4) (See PCB 68
 P374M UHF (Ch. TE332-4) (See PCB 66
 Set 203.1, PCB 92—Set 237.1
 and Model 6175TM—Set 181-4)
 B17TM-UHF (Ch. TE332-4) (See PCB 66
 Set 203.1, PCB 92—Set 237.1
 and Model 6175TM—Set 181-4)
 B211TB (Ch. TE312-3) (See PCB 67
 P374M-UHF (Set 17632-4) (See PCB 67
 Set 1064 (Ch. TE312-3) (See PCB 67
 Set 117B-UHF (Ch. TE332-7) (See PCB 67
 Set 117B-UHF (Ch. TE330-7) (See PCB 66
 Set 204.1, PCB 89—Set 233.1
 and Model 6213TM—Set 195.4)
 B211TM-UHF (Ch. TE330-7) (See PCB 67
 Set 204.1, PCB 89—Set 233.1
 and Model 6213TM—Set 195.4)
 B211TM-UHF (Ch. TE330-6) (See PCB 66
 Set 204.1, PCB 89—Set 233.1
 and Model 6213TM—Set 195.4)
 B213TM-UHF (Ch. TE330-6) (See PCB 66
 Set 204.1, PCB 89—Set 233.1
 and Model 6213TM—Set 195.4)
 B213TM-UHF (Ch. TE330-6) (See PCB 86—Set 231.1
 and Model 6213TM—Set 195.4)
 B213TM-UHF (Ch. TE330-6) (See PCB 86—Set 231.1
 and Model 6213TM—Set 208.2)
 B213GBA (Ch. TE319-21) (See PCB 67—Set 204.1, PCB 89—Set 233.1
 and Model 6213TM—Set 195.4)
 B213GBA (Ch. TE319-21) (See PCB 67—Set 204.1, PCB 89—Set 233.1
 and Model 6213TM—Set 195.4)
 B213GBA (Ch. TE319-21) (See PCB 67—Set 204.1, PCB 89—Set 233.1
 B213GBA (Ch. TE319-21) (See PCB 67—Set 204.1, PCB 89—Set 233.1
 B213GBA (Ch. TE319-21) (See PCB 67—Set 204.1, PCB 89—Set 233.1
 B213GBA (Ch. TE319-21) (See 231-

233-1 and Model 6213TM—Set 195.4) 68215CM-UHF [Ch. TE330-6] (See PCB 88-Set 231-1 and Model 6213TB-UHF—Set 208.2) 67—Set 204-1, PCB 89—Set 233-1 and Model 6213TM—Set 195.4) 68215CMA-UHF (Ch. TE330-61] (See PCB 88—Set 231-1 and Model 6213TB-UHF—Set 208.2) 68218CB (Ch. TE319-3) (See PCB 67 —Set 204-1, PCB 89—Set 233-1 and Model 6213TM—Set 195.4)

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

Ch. RE-224-1 [see Model 1301C Late] Ch. RE-221 [see Model 665] Ch. RE-223 [see Model 1607] Ch. RE-232 [see Model 1507TM) Ch. RE-232 [see Model 187TM) Ch. RE-233 [see Model 187TM) Ch. RE-234 [see Model 240P] Ch. RE-244 [see Model 240P] Ch. RE-244 [see Model 240P] Ch. RE-244 [see Model 240P] Ch. RE-243 [see Model 2407] Ch. RE-244 [see Model 2407] Ch. RE-244 [see Model 2407] Ch. RE-243 (see Model 2407] Ch. RE-243 (see Model 2407] Ch. RE-253 [see Model 2407] Ch. RE-263 [see Model 2617] Ch. RE-264 [see Model 3607] Ch. RE-273 [see Model 3607] Ch. RE-273 [see Model 357] Ch. RE-273 [see Model 357] Ch. RE-277, RE-277-1 [see Model 3617] Ch. RE-278 [see Model 3617] Ch. RE-278 [see Model 2407] Ch. RE-278 [see Model 2607] Ch. RE-278 [see Model 2517] Ch. RE-308 [see Model 553] Ch. RE-308 [see Model 553] Ch. RE-308 [see Model 553] Ch. RE-307 [see Model 553]

ARVIN-Cont. • 2218CB-UHF (Ch. TE330-7) (See PC8 88—Set 231-1 and Model 6213TB-UHF-Set 208-2) • 8218CM (Ch. TE319-3) (See PC8 62-Set 204-1, PC8 89—Set 233-1 and Model 6213TM—Set 195-4) • 8218CM-UHF (Ch. TE330-7) (See PC8 88—Set 231-1 and Model 6213TB-UHF-Set 208-2) • 9210C8 (Ch. TE358, -1, 2, -3) • 9210C8 (Ch. TE358, -1, 2, -3) • 9210CM (Ch. TE358, -1, 2, -3) • 9210CM-UHF (Ch. TE363, -1, 2, -3) • 9210CM-UHF (Ch. TE363, -1, 2, -3) • 9210CM-UHF (Ch. TE355) ... 248— ARVIN-Cont Ch. TE-320 (See Models 5175, 5176) Ch. TE-320-I (See Model 5176CM-E) Ch. TE-320-I (See Model 5176CM-E) Ch. TE-330-6 (See Model 8213TM-UHF) Ch. TE-330-6 (See Model 8213TM-UHF) TE330-7 (See Model 8211TB-Ch h. 18330-7 [Jab UHF] h. TE330-61 (See Model 8215CBA-CH Ch. TE330-61 (ber Model 6.1.900-UHF) Ch. TE-331, -1, -2; -3, -4 (See Model 61757M) Ch. TE 331-5 (See Model 8171TM) Ch. TE 331-6 (See Model 8171TM) Ch. TE332, -1, -2, -3, -4 (See Model 61737M.UHF) Ch. TE332-5 (See Model 8171TB-UHF) Ch. 12122 (See Model 8171TB-UH) Ch. TE322-5 (See Model 8171TB-UH) Ch. TE324 (See Model 5213TM) Ch. TE334 (See Model 5213TM) Ch. TE340, -1, -2, -3, -4, -31 (See Model 7210CB) Ch. TE340, -1, -2 (See Model 7226CB-UH) Ch. TE358 (See Model 921 TM) Ch. TE358, -1, -2, -3 (See Model 9210CB) 921104.-UHF (ch. 1E355). 238-4 921174 (Ch. TE355). 248-2 921174 (Ch. TE355). 248-2 921174 (Ch. TE358, -1, -2, -3) 238-4 9212CFP (Ch. TE358, -1, -2, -3) 238-4 9212CFP (Ch. TE358, -1, -2, -3) -31-2 •9212MEA (Ch. TE358, -1, -2, -3 •9212MEA-UHF (Ch. TE353, -1, -2, -3 •9212MEA-UHF (Ch. TE353, -1, -2, -3) •9213TM (Ch. TE-355) ... 248 --2 •9213TM (Ch. TE-355) ... 248 --2 •9213CM (Ch. TE-355) ... 248 --2 •9213CM (Ch. TE-355) ... 248 --2 •9213CM UHF (Ch. TE-362) 248 --2 •9213CM UHF (Ch. TE353, -1, -2, -3) •9216CB (Ch. TE358, -1, -2, -3) •9218CB (Ch. TE358, -1, -2, -3) •9218CM (Ch. TE358, -1, -2, -3) •9218CM (Ch. TE358, -1, -2, -3) •9219CM (Ch. TE Ch. 1E-338, -1, -2, -3 (see model) 9210CB Ch. TE 359-1 (see Model 9240CB-UHF) Ch. TE 335, -1, -2, -3 (see Model) 9210CB-UHF) Ch. TE 336, -1, -2, -3 (see Model) 9210CB-UHF) Ch. TE 337, TE-382-1 (see Model) 21-550KBU) Ch. TE-337, TE-382-1 (see Model) 21-550KBU Ch. TE-338, 'TE' Series (see Model) 21-554KM) Ch. TE-350-UF 'TE' Series (see Model 21-554KMU) 9210CB) h. TE 359-1 (See Model 9240CB-ASTATIC • 921 9CM-UHF (Ch. TE363, -1, -2, -3) • 9240CB (Ch. TE364, -1), 235--2 • 9240CB (Ch. TE364, -1), 235--2 • 9240CB-UHF (Ch. TE359, -1) • 9240CM (Ch. TE364, -1), 235--2 • 9240CM (UHF (Ch. TE373), 247--3 Ch. RE-91 (See Model 442) Ch. RE-200 (See Model 444) Ch. RE-200 (See Model 444) Ch. RE-200 (See Model 544) Ch. RE-200 (See Model 543) Ch. RE-206 (See Model 543) Ch. RE-206 (See Model 544) Ch. RE-206 (See Model 543) Ch. RE-206 (See Model 140P) Ch. RE-208 (See Model 140P) Ch. RE-228 (See Model 150TC) Ch. RE-228 (See Model 150TC) Ch. RE-229 (See Model 150TC) Ch. RE-229 (See Model 1643) CB-1 Tel. UHF Conv.-Booster 224-3 UHF (Tel. UHF Conv.)264-4 1, -2, -3) .238-4 .235-2 ASTORIA ASTRASONIC (Also see Pentron) ATLAS AB-45 14-5

AUDAR 166-6 26-6 5-10 19-3 5-11 .44-3 13-10 .19-4 .25-8 AV-7T MAS-4 "Bingo Amp".... MAS-4 "Bingo Amp" P-1A P-4A P-5 P-7 PR-6 PR-6A PR-6A RE-8A Telvar BM-25, BMP-25. Telvar FMC-12 Telvar FMC-12 MC-7T 62-5 35-2 65-2 .. 166 AUDIO DEVELOPMENT (ADC) _ 3

71-F128

AUTOMATIC
Tom Boy 27-4
Tom Thumb Buddy 53-7
Tom Thumb Camera-Radio . 496
Tom Thumb Jr 26-7
Tom Thumb Personal ATTP. 23-4
B-44 60-5
C51
C-54
C-54 C60
C-60X
10)
C300
C-351
CL-152B, M
CL-164B
CM-333
D200
DM.132 228-3
F-100
.F-790 23-5
F-790 23—5 M-86 34—3 M-90 67—4
M-90 67-4
P-651
PM-236
S-551
TR-12
•TV-P490 81—3
• TV-707, TV-709, TV-710. 60-6
TV-712 (See Model TV-707-Set
60-6)
eTV-1205 (See PCB 5-Set 106-1
and Model TV-1249-Set 103-5)
•TV-1249, TV-1250103-5
•TV-1294 (See PCB 5-Set 106-1 and Model TV-1249-Set 103-5)
and Model TV-1249-Set 103-5)
TV-1605 (See Model TV-1249-Set
103-5)
•TV-1615 (See Model TV-1249-Set
103-5)
•TV-1649, TV-1650, TV-1651 143-5 •TV-1694 (See Model TV-1249-Set
•TV-1694 (See Model TV-1249-Set 103-5)
•TV-5006
•TV-5020134-4
•TV-5061
•TV-5077
•TV-5116R
eTV-5160
eTV-5160

Ch. TE-289-2, TE-289-3 (See Model 2120CM) Ch. TE-270 (See Model 2160) Ch. TE-320 (See Model 5204) Ch. TE-300 (See Model 5204) Ch. TE-310, -1, -2, -3, -4, -5, -5A, -6 (See Model 5170CB) Ch. TE-319, -1, -2, -3, -4, -5, -5A, -6 (See Model 5170CB) Ch. TE-319, -1, -2 (See Model 6213TMA) Ch. TE-319-3 (See Model 8213TMA) Denotes Television Receiver.

60-6) •TVX404 (See Madel TV-707-Set

AUTOMATIC-CAPEHART

AUTOMATIC-CAPEHART	
AUTOMATIC-Cont. 601, 602 (Series B) 22-5	•
612X 1-34 613X (See Model 612X—Set 1-34) 614X, 616X 8-2 620 12-3	
614X, 616X 620 640, Series B 10-4	
660, 662, 666	1
720	
Changer Listing)	
601	
612 15—3 618 16—6	•
BELL-AIR	
PLIZC (Similar to Chassis) 149–13 PLZOC (Similar to Chassis) 149–13 BELL SOUND SYSTEM5	•
B-23 75-4	
PA3710A-P3 (Above Serial No. 78000)	
PA3715-B 249-4 PA3725-B 244-3 PA3750-B 250-5 RC-47 (RE-CORD-O-FONE) 30-3 RT-65 130-4	•
RC-47 (RE-CORD-O-FONE) 30-3 RT-65 130-4 RT-65 B 171-3 3D 256-7	•
RT-65, B	•
352	
420	:
2075 10-5 2122 77-3 2122A, 2122AR 153-1 1212B 199-2	
21220 278-1	
	:
2150, 2150R 256-8 2195, 2195MG 234-1 2199 228-5 21998 285-2	•
2210 269-4	
3706-м	
2715 22	
3723-MB, -MB3	
3728MB	
3750 31—5 3750-в 250—5	
BELLTONE 500 5–33	•
BELMONT (Also see Raytheon)	•
A-6D110	
4B112, 4B113 (Series A). 10-6 5D110	
SD128 (Series A) 9-4 SP19 (Series A) 9-5 SP113 "Boulevard" 28-2	
6D111 2–33 6D120 24–12	
8A59	
• 22A21, 22AX21, 22AX22 555 BENDIX	
• CMTB21CS (Ch. T14-7) (See Model FB21CU—Set 213-2) • CMTB21CU (Ch. T14-4) (See Model	
B21CU—Set 213-2) • CMTB21CU (Ch. T14-4) (See Model F21CU—Set 213-2) • CMTM21CS (Ch. T14-7) (See Model	
FB21CU-Set 213-2)	
• CMTM21CU (Ch. T14-4) (See Model FB21CU—Set 213-2) • C172 • C174 (See Model 2051—Set 111-3)	:
• C182 (See Model C172—Set 134-5) • C192 (See Model C172—Set 134-5)	•
• C200	
•FB21CU (Ch. T-14-4)	
FB21CU-Set 213-2) • FM21CU (Ch. T14-4) 2132	•
FM27C (Ch. T14-3)215—3 HB21C (Ch. T14-7) (See Model FB21C(L—Set 213.2)	
HB21CU (Ch. T14-4)2132 HB27C (Ch. T14-3)2153	
C 191 .3) (see Model C172_Set 134.5) C182 (see Model C172_Set 134.5) C200 (ch. 1147) (see Model F827(LU-Set 213.2) F827(LU-Set 213.2) F827(LU	
KB21C (Ch. 114-4)213-2 KB21C (Ch. 114-1) (See PCB 101- Set 247-1 and Model OAK3-Set	
Set 247-1 and Model OAK3-Set 183-2) •KB21C [Ch. T14-7] [See Model	
183-2) •K821C (Ch. T14-7) (See Model F621CU—Set 213-2) •K821CU (Ch. T14-4)2132 •K871C7 (Ch. T14-1) (See PCB 101 Set 247-1 ond Model OAK3Set 183-2) •KM21C (Ch. T14-1) (See PCB 101 Set 247-1 ond Model OAK3Set 183-2)	
Set 247-1 and Model OAK3-Set 183-2)	1
 KM21C (Ch. T14-1) (See PCB 101— Set 247-1 and Model OAK3—Set 183-2) KM21CS (Ch. T14-7) (See Model 	
• KM21CS [Ch. T14-7] [See Model	
•KM21CU (Ch. T14-4)213-2 •KM21E (Ch. T14-15)	
• KM21EU (Ch. T14-16)	
•KMT21EU (Ch. T14-16) 268-3 •KS21E (Ch. T18-1)	
FB21CU-Ser 213-2) KM21CU (Ch. T14-4) 2132 KM21E (Ch. T14-15) 2683 KM21E (Ch. T14-16) 2683 KKS21E (Ch. T18-1) 2831 KKS21E (Ch. T18-1) 2831 KKS21E (Ch. T18-1) 2831 KKS21E (Ch. T18-1) 2831	
•KST21EU (Ch. T18-2)283-1	ł.

BENDIX-Cont.	BOGEN (See David Bogen)
•OAK3 (Ch. T14-1) (Also see PCB 101-Set 247-1)	BREWSTER 9-1084, 9-1085, 9-1086 - 2-13
PAR 80 • RB21C [Ch. 114-6] [For TV Ch. only see Model FB21CU—Set 213-2] • RM21C [Ch. 114-6) [For TV Ch. only see Model FB21CU—Set 213-2]	BROCINER
eRM21C (Ch. T14-6) (For TV Ch.	A100 232_2 A100P 198_2 CA-2 200_3 CA-2 (Seriel Ne. 771 and up) CA-2 232_2 Mark 12 273_3 UL-1 229_5
only see Model FB21CU—Set 213-2)	CA-2
213-21 6170 (See Model 2051-Set 111-3) 61717 (See Model 2051-Set 111-3) 6173 (See Model 2051-Set 111-3) 6170 (See Model 2051-Set 111-3) 6170 (See Model 2051-Set 111-3) 6172 (See Model 2051-Set	232-2
eT173 (See Model 2051-Set 111-3)	UL-1
• TB21C (Ch. T14-1) (See PCB 101-	
Set 247-1 and Model OAK3—Set 183-2)	BROOK ELECTRONICS INC. 7 227-4 3B (Issue 2), 3C 184-4 10C 41-4 10C2 43-7 10C3 72-5 10C4 (See Model 10C-Set 41-4 00D4el 48-Set 230-4 10D 41-4 10D 41-4 10D 41-4 12A 89-3
• TB21CS (Ch. T14-7) (See Model	4B
•TB21CU (Ch. T14-4)	10C2-A
•TB21EU (Ch. T14-16)	10C4 (See Model 10C-Set 41-4
rb2/LCU-set 213-27 rb2/LCU [Ch, T14-4]	10D 41-4
• 1021C (Ch. 114-7) (See Model F821CU—Set 213-2) • 1M17C (Ch. 114-1) (See PCB 101— Set 247-1 and Model OAK3—Set 183-2)	12A
•TM17C (Ch. T14-1) (See PCB 101- Set 247-1 and Model OAK3-Set	89-3 and Model 3C—Set 184-4) 12A4 (See Model 12A—Set 89-3
-THOIC ICL TIA 11 (See BCB 101-	and Model 48-Set 230-4}
• TM21C (Ch. T14-1) (See PCB 101- Set 247-1 and Model OAK3-Set	BROOKS LABORATORIES, INC.
•TM21CS (Ch. T14-7) (See Model	ST-10 195—5 ST-10A 237—3 ST-14A 183—3 ST-15A 234—2
FB21CU_Set 213-2) TM21CU (Ch. T14-4)213-2	ST-14A
• TM21E (Ch. T14-15)	ST-15A
TM24D5, DU (Ch. T14-10, -11)	BROWNING PF-12, RJ12
• TS21E (Ch. T18-1)	RJ-12A
•TSF21E (Ch. T18-1)	RJ-14A
•TSF21EU (Ch. T18-2)	RJ-20A
0526E, 0526F 1-22 017K2 (See Model C172-Set 134-5)	RJ-42
Stript (ch. 114-1) See 247-1 and Model OAX3—Set 183-2) Stript 247-1 and Model OAX3—Set 183-2) Stript 247-1 and Model OAX3—Set 183-2) FM21C2 Ch. 114-7) [See Model FB21C2] FM21C2 Ch. 114-7) [See Model FB21C2] FM21C1 Ch. 114-16) 213—2 FM21C1 Ch. 114-16) 268—3 FM24D5, DU Ch. 114-10, -111 STS21E Ch. 118-1) 283—1 STS21E Ch. 118-1) 283—1 STS21E Ch. 118-1] 283—1 STS21E Ch. 118-1] 283—1 OS26A, OS26B, OS26C, OS26D, OS26C, OS26D, OS26C, OS26D, OS26C, OS26D, OS26C, OS26D, 1-22 1742 (See Model C172—Set 134-5) 20K2, 2012 See Model C172—Set 134-5) 20K2, 2012 (See Model C172—Set 134-5) 20K2, OL2 (See Model C172—Set 134-5) 20K2, OL2 (See Model C172—Set 134-5) 21KD (Ch. 114-1) (Also see PCB	RJ-43
20K2, 2012 (See Model C1/2—Set 134-5) 21KD (Ch. T14-1) (Also see PCB 101—Set 247-1)	RJ-49
•21K3	RV-10A
2113 (Ch. 114-1) (Also see PCB 101-Set 247-1)	BROWNING PF.12, RJ12 47-4 RJ.12A 56-6 RJ.12B 146-4 RJ.12B 146-4 RJ.12B 146-4 RJ.12B 146-4 RJ.12B 146-4 RJ.12B 146-4 RJ.20 67-5 RJ.20A 122-3 RJ.42 245-3 RJ.42 245-3 RJ.42 246-3 RV-10 46-6 RV.10A 131-3 RV.11 40-6 RV31 178-3
●21K0 [Ch. 114-1] [Alio tele PCB 101—5ei 247-1] . 183—2 ●21K3 [Ch. 114-1] [Alio tele PCB 101—5ei 247-1] . 183—2 ●21T3A (Ch. 114-1] [See PCB 101— Sei 247-1] and Model OAK3—Set 183-2] ●21X3 (Ch. 114-1] [Alio tele PCB	
183-2) @21X3 (Ch. T14-1) (Also see PCB	BJ-6836 ''Tuscany'' 28—4 C-3300 ''Darby'' 28—4 D-1000, D-1100 56—7 D-6876 ''Buckingham 29—5 T-6000, S, SS, SX, T-6000/y, ''Glas-
101_Set 247.11 183_2	D-1000, D-1100
5512, 5513, 55P2, 55P3 51-4 55X4	T-6000, S, SS, SX, T-60001/2 ''Glas- cow'' (See Model T-4000—Set
65P4 52-4 69B8, 69M8, 69M9 63-3 75B5 75M5 75M8 75P6 75W5	
7585, 75M5, 75M8, 75P6, 75W5 59—5	29-5
79M7 66-3 95B3 95M3 95M9 60-7	T-9000 56-7
53x4 58-6 65P4 52-4 69B8, 69M8, 69M9 63-3 75B5, 75M5, 75M8, 75F6, 75W5 79M7 66-3 95B3, 95M3, 95M9 66-7 7110, 110W, 111, 111W, 112, 114, 115 115, 235M1 (Ch. Codes MA, MB, Code	29-5) T-4000, T-4000 / 'Buckingham' 29-5 T-4400, T-4400 / 61-4 T-9000 56-7 612, 513 61-4 T-6500 61-4 163-3 5000 42-5 5125 163-3
• 23581, 235M1 (Ch. Codes MA, MB,	5000 ● 5125
200 200W 201 202 40 2	• 6165 163 —3
300, 3004, 301, 302 40-2	•8125 8165 163-3
e 23581, 235M1 (Ch. Codes MA, MB, MC, MD)	•8125, 8165
416A	BRUSH SOUND MIRROR (See Recorder Listing)
4164	BRUSH SOUND MIRROR (See
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
416A 43-5 526MA, 526MB, 526MC. 29-3 613 40-3 626A (0626A) 12-4 636A, B, C 15-4	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK
1 6 4 43-5 1 6 4 726 MB, 526 MB, 526 MC, 29-3 1 7 726 MB, 526 MB, 526 MC, 29-3 1 7 726 MB, 526 MB, 526 MC, 29-3 1 7 726 MB, 526 MB	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980690, 980733 18—9 980744, 980744 980737, 980793 15—5 980782 980680, 980745 15—5 980787 980780, 980748 134—4 980868 980197, 980798 144–4 981321 981321 217—2 981321 981321 224—5 981323 981323 225—7 981550 981321 224—3 981351 981323 225—7 981550 981321 257—2 BUTLER BRO5. (See Air Knight or Sky Rover) CADUL SC (Anto Padia)
41.50m 435 326MA, 526MB, 526MC, 293 403 626 A (0626A) 124 6360, 8, C 154 6360, 156e Model 636A-Set 15-41 646A 637A 26-83 687A 10-82 7384, 676C, 676D 5-23 687A 26-83 7384, 75. "Fecto-Meter" 28-33 847.8 27-5 847.5. "Fecto-Meter" 28-33 751, 951W 136-6 1217D (10te) 4633 1518, 1319 37-33 1521 42-44 1524, 1525 37-33 1533 43-6 2001, 2002 84-4 20202, 0201 84-4 20201 (Alto tee PCB 16-Set 126-19)	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980690, 980733 18—9 980744, 980744 980737, 980793 15—5 980782 980680, 980745 15—5 980787 980780, 980748 134—4 980868 980197, 980798 144–4 981321 981321 217—2 981321 981321 224—5 981323 981323 225—7 981550 981321 224—3 981351 981323 225—7 981550 981321 257—2 BUTLER BRO5. (See Air Knight or Sky Rover) CADUL SC (Anto Padia)
41.50m 435 326MA, 526MB, 526MC, 293 403 626 A (0626A) 124 6360, 8, C 154 6360, 156e Model 636A-Set 15-41 646A 637A 26-83 687A 10-82 7384, 676C, 676D 5-23 687A 26-83 7384, 75. "Fecto-Meter" 28-33 847.8 27-5 847.5. "Fecto-Meter" 28-33 751, 951W 136-6 1217D (10te) 4633 1518, 1319 37-33 1521 42-44 1524, 1525 37-33 1533 43-6 2001, 2002 84-4 20202, 0201 84-4 20201 (Alto tee PCB 16-Set 126-19)	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980690, 980733 18—9 980744, 980744 980737, 980793 15—5 980782 980680, 980745 15—5 980787 980780, 980748 134—4 980868 980197, 980798 144–4 981321 981321 217—2 981321 981321 224—5 981323 981323 225—7 981550 981321 224—3 981351 981323 225—7 981550 981321 257—2 BUTLER BRO5. (See Air Knight or Sky Rover) CADUL SC (Anto Padia)
41.50m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326 A, [0626A] 12-4 3360 [5ee Model 636A-Set 15-4] 646 6360 [5ee Model 636A-Set 15-4] 656A 646 A 2-28 6768, 676C, 676D 5-23 687A 61-3 697A 26-8 7368, 676C, 676D 5-23 687A 10-8 7384, 75 16-8 7537, M, W (Ch. C.19), 199-3 36-6 12170 [04:6] 46-3 1518, 1319 37-3 1521 42-4 1524, 1525 37-3 1531, 1533 43-6 2001, 2002 84-4 2020, 2021 84-4 2020, 2021 84-4 20201, 2021 84-4 2021 184-4 2021 184-4 2025 201	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980690, 980733 18—9 980744, 980744 980737, 980793 15—5 980782 980680, 980745 15—5 980787 980780, 980748 134—4 980868 980197, 980798 144–4 981321 981321 217—2 981321 981321 224—5 981323 981323 225—7 981550 981321 224—3 981351 981323 225—7 981550 981321 257—2 BUTLER BRO5. (See Air Knight or Sky Rover) CADUL SC (Anto Padia)
143	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980690, 980733 18—9 980744, 980744 980737, 980793 15—5 980782 980680, 980745 15—5 980787 980780, 980748 134—4 980868 980197, 980798 144–4 981321 981321 217—2 981321 981321 224—5 981323 981323 225—7 981550 981321 224—3 981351 981323 225—7 981550 981321 257—2 BUTLER BRO5. (See Air Knight or Sky Rover) CADUL SC (Anto Padia)
41.00m 435 3260MA, 526MB, 526MC. 293 613 403 626.A (0622A) 124 636.A (0622A) 154 636.A (0622A) 154 6360 (See Model 636A—Set 15.4) 2-8 646.A -2.31 646.A 2-231 647.A 26-8 646.A 2-231 647.A 26-8 736.B 10-8 736.B 10-8 736.B 10-8 736.B 10-8 737.B 74.00 74.B 10-8 736.B 10-8 737.B 74.6 74.5 Fecto-Meter 76.1 127.7 71.7 1217.7 71.7 1217.8 71.7 1217.7 71.7 1217.7 71.7 1217.7 72.4 324 72.5 42-4 1217.7 1217.7 731.1	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980690, 980733 18—9 980781, 980743 19—5 980782 62—6 980797, 980798 59—6 98080797, 980798 59—6 98080797, 980798 59—6 98080979 (See Model 98068—Set 104—4 981311 (See Model 98068—Set 104—4 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 248—3 981551 248—3 981551 248—3 980550 248—3 980551 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 1052—3 7260405 152—3 7260405 152—3
41.0.m. 43-5 320MA, 320MB, 526MC. 29-3 326A, B, C 12-4 360A, B, C 15-4 40-3 15-4 4040 (See Model 636A-Set 15-4) 2-28 656A 2-28 667A 2-31 677A 26-8 687A 21-3 697A 26-8 736B 670C, 676D 533F, M, W (Ch. C19). 199-3 847.8 10-8 7368 27-5 847.5 76cto.Meter 28-3 37-3 531, 931W 136-6 1217D (Lote) 46-5 1518, 1319 37-3 1521 42-4 1524, 1325 37-3 1531, 1533 43-6 2001, 2002 84-4 20202, 0201 84-4 20201, 2021 84-4 20202, 0201 84-4 20203, 0201 84-4 20204 111-3 2005 (Alto see PCB 16-Set 126-11	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980500, 980733 18—9 980797, 980743 19—5 980797, 980745 19—5 980797, 980798 59—6 98080797, 980798 59—6 98080797, 980798 59—6 98120 62—6 98080979 (See Model 980868—5et 104—4 981320 217—2 981320 217—2 981321 224—5 981323 225—7 981323 225—7 981323 225—7 981531 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7238755 7238755 109—2 726003 152—3 726003 152—3 726003 152—3 726003 152—3 726003 152—3 7264165 267—2 7264165 267—2 CALLMASTER (See Lyman)
41.0.m. 43-5 320MA, 320MB, 526MC. 29-3 326A, B, C 12-4 360A, B, C 15-4 40-3 15-4 4040 (See Model 636A-Set 15-4) 2-28 656A 2-28 667A 2-31 677A 26-8 687A 21-3 697A 26-8 736B 670C, 676D 533F, M, W (Ch. C19). 199-3 847.8 10-8 7368 27-5 847.5 76cto.Meter 28-3 37-3 531, 931W 136-6 1217D (Lote) 46-5 1518, 1319 37-3 1521 42-4 1524, 1325 37-3 1531, 1533 43-6 2001, 2002 84-4 20202, 0201 84-4 20201, 2021 84-4 20202, 0201 84-4 20203, 0201 84-4 20204 111-3 2005 (Alto see PCB 16-Set 126-11	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980690, 980733 18—9 980781, 980743 19—5 980782 62—6 980797, 980798 59—6 98080797, 980798 59—6 98080797, 980798 59—6 98080979 (See Model 98068—Set 104—4 981311 (See Model 98068—Set 104—4 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 217—2 981320 248—3 981551 248—3 981551 248—3 980550 248—3 980551 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 1052—3 7260405 152—3 7260405 152—3
1 100 43-5 2 100 43-5 2 100 526 MA, 526 MC, 29-3 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-2 2 100 12-3 2 100 12-3 2 100 12-3 2 100 12-3 2 110 12-4 2 120 12-4 2 120 12-4 2 120 12-4 2 120 12-4 2 120 12-4 2 120 12-4 2 120	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980500, 980733 18—9 980797, 980793 980797, 980793 19—5 980782 980797, 980798 104—4 980999 980798, 980744 19—5 980782 980799, 980798 104—4 980999 981321 224—5 981321 981321 224—5 981323 981323 224—7 981550 981351 257—2 981550 BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60—8 7238755 100-2 109—2 726003 720003 (See Model 7238755—Set 100-3 720053 152—3 7264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185
1 100 43-5 2 100 43-5 2 100 526 MA, 526 MC, 29-3 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-4 2 100 12-2 2 100 12-3 2 100 12-3 2 100 12-3 2 100 12-3 2 110 12-4 2 120 12-4 2 120 12-4 2 120 12-4 2 120 12-4 2 120 12-4 2 120 12-4 2 120	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980500, 980733 18—9 980797, 980793 980797, 980793 19—5 980782 980797, 980798 104—4 980999 980798, 980744 19—5 980782 980799, 980798 104—4 980999 981321 224—5 981321 981321 224—5 981323 981323 224—7 981550 981351 257—2 981550 BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60—8 7238755 100-2 109—2 726003 720003 (See Model 7238755—Set 100-3 720053 152—3 7264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185
41.0.m. 435 320MA, 320MB, 526MC. 293 326A, B, C 124 360A, B, C 154 360A, B, C 154 360A, B, C 154 360A, B, C 2-28 360A, B, C 2-31 367A 2-28 367A 26-3 367A 26-3 367A 26-3 367A 26-3 367A 26-8 367A 26-8 3736B 10-8 7336B 10-8 7348 10-8 7353F, M, W (Ch. C.19). 199-3 3647.8 27-5 847.5 "Facto-Meter" 283 37-3 3531, 1519 37-3 3531, 1533 43-6 20201, 2021 84-4 20202 2031 2031, 533 43-6 20201, 2021 84-4 20202, 2021 84-4 20203 2031 2031, 10,10 see	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980500, 980733 18—9 980797, 980793 980797, 980793 19—5 980782 980797, 980798 104—4 980999 980798, 980744 19—5 980782 980799, 980798 104—4 980999 981321 224—5 981321 981321 224—5 981323 981323 224—7 981550 981351 257—2 981550 BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60—8 7238755 100-2 109—2 726003 720003 (See Model 7238755—Set 100-3 720053 152—3 7264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185
41.0.m. 435 320MA, 320MB, 526MC. 293 326A, B, C 124 360A, B, C 154 360A, B, C 154 360A, B, C 154 360A, B, C 2-28 360A, B, C 2-31 367A 2-28 367A 26-3 367A 26-3 367A 26-3 367A 26-3 367A 26-8 367A 26-8 3736B 10-8 7336B 10-8 7348 10-8 7353F, M, W (Ch. C.19). 199-3 3647.8 27-5 847.5 "Facto-Meter" 283 37-3 3531, 1519 37-3 3531, 1533 43-6 20201, 2021 84-4 20202 2031 2031, 533 43-6 20201, 2021 84-4 20202, 2021 84-4 20203 2031 2031, 10,10 see	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980500, 980733 18—9 980797, 980793 980797, 980793 19—5 980782 980797, 980798 104—4 980999 980798, 980744 19—5 980782 980799, 980798 104—4 980999 981321 224—5 981321 981321 224—5 981323 981323 224—7 981550 981351 257—2 981550 BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60—8 7238755 100-2 109—2 726003 720003 (See Model 7238755—Set 100-3 720053 152—3 7264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185 267—2 264185
43	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980500, 980733 18—9 980797, 980793 980797, 980793 19—5 980782 980798, 980744 19—5 980782 980798, 980798 134—4 980999 981911 134—4 980399 98111 154—4 981321 981321 224—5 981323 981323 225—7 981550 98151 257—2 781550 BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 72360203 152—3 726005 72360203 152—3 7260705 724165 267—2 7264185 724165 267—2 7264185 724165 267—2 7264185 724165 267—2 7264185 724165 267—2 7264185 724165 267—2 7264185 7241645 267—2 7264185 724165 267—2 7264185 7241645 267—2 7264185 724165 267—2 7264185
110.m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 326A, B, C 15-4 460 (See Model 636A—Set 15-4) 12-4 4360 (See Model 636A—Set 15-4) 40-3 646A, B, C 2-31 676B, 676C, 676D 5-23 677A 26-8 687A 26-8 7368 70-8 747A 26-8 737A 26-8 747A 26-8 737A 26-8 747A 26-8 747A 26-8 747A 26-8 753F, M, W (Ch. C.19), 199-3 747.5 *Facto-Meter' 283 847.8 7519, 951W 136-6 12170, (Lotel 46-5 1319 37-3 1521 42-4 1522 323 1531 43-6 20201, 2021 84-4 20202 2021 424 20201 (Alto te	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980:900, 980733 18—9 980:797, 980792 980:900, 980733 19—5 980782 980:9797, 980798 59—6 980:797, 980798 980:9797, 980:798 104—4 980:797, 980:798 980:9797, 980:798 104—4 980:797, 980:798 981:111 (See Model 980:68—Set 104-4) 981:111 (See Model 980:68—Set 104-4) 981:320 214—5 981:321 104:41 225—7 981:321 981:320 214—3 981:321 981:321 225—7 981:321 981:321 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CO—8 7260:05 CADILLAC (Auto Redio) 725—3 7264:165 7260:405 152—3 7264:165 726:405 152—3 7264:165 726:405 152—3 726:4165
110.m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 326A, B, C 15-4 460 (See Model 636A—Set 15-4) 12-4 4360 (See Model 636A—Set 15-4) 40-3 646A, B, C 2-31 676B, 676C, 676D 5-23 677A 26-8 687A 26-8 7368 70-8 747A 26-8 737A 26-8 747A 26-8 737A 26-8 747A 26-8 747A 26-8 747A 26-8 753F, M, W (Ch. C.19), 199-3 747.5 *Facto-Meter' 283 847.8 7519, 951W 136-6 12170, (Lotel 46-5 1319 37-3 1521 42-4 1522 323 1531 43-6 20201, 2021 84-4 20202 2021 424 20201 (Alto te	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980:900, 980733 18—9 980:797, 980792 980:900, 980733 19—5 980782 980:9797, 980798 59—6 980:797, 980798 980:9797, 980:798 104—4 980:797, 980:798 980:9797, 980:798 104—4 980:797, 980:798 981:111 (See Model 980:68—Set 104-4) 981:111 (See Model 980:68—Set 104-4) 981:320 214—5 981:321 104:41 225—7 981:321 981:320 214—3 981:321 981:321 225—7 981:321 981:321 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CO—8 7260:05 CADILLAC (Auto Redio) 725—3 7264:165 7260:405 152—3 7264:165 726:405 152—3 7264:165 726:405 152—3 726:4165
110.m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 326A, B, C 15-4 460 (See Model 636A—Set 15-4) 12-4 4360 (See Model 636A—Set 15-4) 40-3 646A, B, C 2-31 676B, 676C, 676D 5-23 677A 26-8 687A 26-8 7368 70-8 747A 26-8 737A 26-8 747A 26-8 737A 26-8 747A 26-8 753F, M, W (Ch. C.19), 199-3 7-3 747.5 *Facto-Meter' 751, 951W 136-6 12170, (Lotel 46-5 1521 42-4 12125 37-3 1531 53 1531 43-6 20201, 2002 84-4 20202 2031 2031 (Alto tee PCB 16-Set 126-1 2031 (Alto tee PCB 16-Set 126-1 and Model 2031-Set 111-3 20001 (Alto tee PCB 16-Set 126	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980:900, 980733 18—9 980:797, 980792 980:900, 980733 19—5 980782 980:9797, 980798 59—6 980:797, 980798 980:9797, 980:798 104—4 980:797, 980:798 980:9797, 980:798 104—4 980:797, 980:798 981:111 (See Model 980:68—Set 104-4) 981:111 (See Model 980:68—Set 104-4) 981:320 214—5 981:321 104:41 225—7 981:321 981:320 214—3 981:321 981:321 225—7 981:321 981:321 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CO—8 7260:05 CADILLAC (Auto Redio) 725—3 7264:165 7260:405 152—3 7264:165 726:405 152—3 7264:165 726:405 152—3 726:4165
110.m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 326A, B, C 15-4 460 (See Model 636A—Set 15-4) 12-4 4360 (See Model 636A—Set 15-4) 40-3 646A, B, C 2-31 676B, 676C, 676D 5-23 677A 26-8 687A 26-8 7368 70-8 747A 26-8 737A 26-8 747A 26-8 737A 26-8 747A 26-8 753F, M, W (Ch. C.19), 199-3 7-3 747.5 *Facto-Meter' 751, 951W 136-6 12170, (Lotel 46-5 1521 42-4 12125 37-3 1531 53 1531 43-6 20201, 2002 84-4 20202 2031 2031 (Alto tee PCB 16-Set 126-1 2031 (Alto tee PCB 16-Set 126-1 and Model 2031-Set 111-3 20001 (Alto tee PCB 16-Set 126	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980:900, 980733 18—9 980:797, 980792 980:900, 980733 19—5 980782 980:9797, 980798 59—6 980:797, 980798 980:9797, 980:798 104—4 980:797, 980:798 980:9797, 980:798 104—4 980:797, 980:798 981:111 (See Model 980:68—Set 104-4) 981:111 (See Model 980:68—Set 104-4) 981:320 214—5 981:321 104:41 225—7 981:321 981:320 214—3 981:321 981:321 225—7 981:321 981:321 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CO—8 7260:05 CADILLAC (Auto Redio) 725—3 7264:165 7260:405 152—3 7264:165 726:405 152—3 7264:165 726:405 152—3 726:4165
110.m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 326A, B, C 15-4 460 (See Model 636A—Set 15-4) 12-4 4360 (See Model 636A—Set 15-4) 40-3 646A, B, C 2-31 676B, 676C, 676D 5-23 677A 26-8 687A 26-8 7368 70-8 747A 26-8 737A 26-8 747A 26-8 737A 26-8 747A 26-8 753F, M, W (Ch. C.19), 199-3 7-3 747.5 *Facto-Meter' 751, 951W 136-6 12170, (Lotel 46-5 1521 42-4 12125 37-3 1531 53 1531 43-6 20201, 2002 84-4 20202 2031 2031 (Alto tee PCB 16-Set 126-1 2031 (Alto tee PCB 16-Set 126-1 and Model 2031-Set 111-3 20001 (Alto tee PCB 16-Set 126	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980:900, 980733 18—9 980:797, 980792 980:900, 980733 19—5 980782 980:9797, 980798 59—6 980:797, 980798 980:9797, 980:798 104—4 980:797, 980:798 980:9797, 980:798 104—4 980:797, 980:798 981:111 (See Model 980:68—Set 104-4) 981:111 (See Model 980:68—Set 104-4) 981:320 214—5 981:321 104:41 225—7 981:321 981:320 214—3 981:321 981:321 225—7 981:321 981:321 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CO—8 7260:05 CADILLAC (Auto Redio) 725—3 7264:165 7260:405 152—3 7264:165 726:405 152—3 7264:165 726:405 152—3 726:4165
110.m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 326A, B, C 15-4 460 (See Model 636A—Set 15-4) 12-4 4360 (See Model 636A—Set 15-4) 40-3 646A, B, C 2-31 676B, 676C, 676D 5-23 677A 26-8 687A 26-8 7368 70-8 747A 26-8 737A 26-8 747A 26-8 737A 26-8 747A 26-8 753F, M, W (Ch. C.19), 199-3 7-3 747.5 *Facto-Meter' 751, 951W 136-6 12170, (Lotel 46-5 1521 42-4 12125 37-3 1531 53 1531 43-6 20201, 2002 84-4 20202 2031 2031 (Alto tee PCB 16-Set 126-1 2031 (Alto tee PCB 16-Set 126-1 and Model 2031-Set 111-3 20001 (Alto tee PCB 16-Set 126	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980:900, 980733 18—9 980:797, 980792 980:900, 980733 19—5 980782 980:9797, 980798 59—6 980:797, 980798 980:9797, 980:798 104—4 980:797, 980:798 980:9797, 980:798 104—4 980:797, 980:798 981:111 (See Model 980:68—Set 104-4) 981:111 (See Model 980:68—Set 104-4) 981:320 214—5 981:321 104:41 225—7 981:321 981:320 214—3 981:321 981:321 225—7 981:321 981:321 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CO—8 7260:05 CADILLAC (Auto Redio) 725—3 7264:165 7260:405 152—3 7264:165 726:405 152—3 7264:165 726:405 152—3 726:4165
110.m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 326A, B, C 15-4 460 (See Model 636A—Set 15-4) 12-4 4360 (See Model 636A—Set 15-4) 40-3 646A, B, C 2-31 676B, 676C, 676D 5-23 677A 26-8 687A 26-8 7368 70-8 747A 26-8 737A 26-8 747A 26-8 737A 26-8 747A 26-8 753F, M, W (Ch. C.19), 199-3 7-3 747.5 *Facto-Meter' 751, 951W 136-6 12170, (Lotel 46-5 1521 42-4 12125 37-3 1531 53 1531 43-6 20201, 2002 84-4 20202 2031 2031 (Alto tee PCB 16-Set 126-1 2031 (Alto tee PCB 16-Set 126-1 and Model 2031-Set 111-3 20001 (Alto tee PCB 16-Set 126	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUCK 980:900, 980733 18—9 980:797, 980792 980:900, 980733 19—5 980782 980:9797, 980798 59—6 980:797, 980798 980:9797, 980:798 104—4 980:797, 980:798 980:9797, 980:798 104—4 980:797, 980:798 981:111 (See Model 980:68—Set 104-4) 981:111 (See Model 980:68—Set 104-4) 981:320 214—5 981:321 104:41 225—7 981:321 981:320 214—3 981:321 981:321 225—7 981:321 981:321 257—2 BUTLER BROS. (See Air Knight or Sky Rover) CO—8 7260:05 CADILLAC (Auto Redio) 725—3 7264:165 7260:405 152—3 7264:165 726:405 152—3 7264:165 726:405 152—3 726:4165
110.m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 326A, B, C 15-4 460 (See Model 636A—Set 15-4) 12-4 4360 (See Model 636A—Set 15-4) 40-3 646A, B, C 2-31 676B, 676C, 676D 5-23 677A 26-8 687A 26-8 7368 70-8 747A 26-8 737A 26-8 747A 26-8 737A 26-8 747A 26-8 753F, M, W (Ch. C.19), 199-3 7-3 747.5 *Facto-Meter' 751, 951W 136-6 12170, (Lotel 46-5 1521 42-4 12125 37-3 1531 53 1531 43-6 20201, 2002 84-4 20202 2031 2031 (Alto tee PCB 16-Set 126-1 2031 (Alto tee PCB 16-Set 126-1 and Model 2031-Set 111-3 20001 (Alto tee PCB 16-Set 126	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980050, 980733 18—9 980707, 980743 980050, 980733 19—5 980782 980797, 980798 59—6 980797, 980798 9801111 (See Model 980686—Set 104-4) 981111 (See Model 980686—Set 104-4) 981320 217—2 981321 981323 224—5 981323 981351 244—3 981353 981353 244—3 981351 7260609 60—8 7256099 CADILLAC (Auto Redio) 7256005 152—3 7264185 7260005 152—3 7264055 7260005 152—3 7264185 2667—2 7264185 2667—2 7264185 CAL-TECH • •Chattist T-1 285—4 CALMASTER (See Lyman) CAL-TECH • •Chattist T-1 285—4 Pr153 (Ch. CR-79) P133 (Ch. CR-79) 264—4 Pr133 (Ch. CR-79) 264—4 Pr133 T-30 141—3 T-30 254—3 T-522 (Ch. CR-77) T-32 Ch. CR-79 203—5 T-101 (Ch. CR-237) T-32 Ch. CR-77) 264=3 T-524 </td
1 104 43-5 1 104 526MA, 526MB, 526MC, 29-3 260-A, 10226A) 12-4 636A, B, C 15-4 636D (See Model 636A-Set 15-4) 646A 636A (See Model 636A-Set 15-4) 646A 637A 26-8 736B (S7C, 676D 5-23 847.6 10-8 736B (S7C, 676D 5-23 847.8 760-Model 72 847.8 77-5 847.5 760-Model 72 1311, 1323 37-3 1321, 1523 37-3 1321, 1523 37-3 1321, 1523 37-3 1321, 1523 37-3 1323, 1533 43-4 2020, 2021 84-4 2020, 2021 84-4 2020, 2021 84-4 20331 (Also see PCB 16-Set 126-1 111-3 3001, 3002	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980050, 980733 18—9 980707, 980743 980050, 980733 19—5 980782 980797, 980798 59—6 980797, 980798 9801111 (See Model 980686—Set 104-4) 981111 (See Model 980686—Set 104-4) 981320 217—2 981321 981323 224—5 981323 981351 244—3 981353 981353 244—3 981351 7260609 60—8 7256099 CADILLAC (Auto Redio) 7256005 152—3 7264185 7260005 152—3 7264055 7260005 152—3 7264185 2667—2 7264185 2667—2 7264185 CAL-TECH • •Chattist T-1 285—4 CALMASTER (See Lyman) CAL-TECH • •Chattist T-1 285—4 Pr153 (Ch. CR-79) P133 (Ch. CR-79) 264—4 Pr133 (Ch. CR-79) 264—4 Pr133 T-30 141—3 T-30 254—3 T-522 (Ch. CR-77) T-32 Ch. CR-79 203—5 T-101 (Ch. CR-237) T-32 Ch. CR-77) 264=3 T-524 </td
43-5 326MA, 326MB, 526MC, 29-3 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 360 A, B, C 15-4 360 A, B, C -15-4 360 A, B, C -2-31 3767A 2-31 367A 2-31 367A 2-31 367A 61-3 367A 61-3 367A 26-8 3687.8 27-5 367.5 *Focto-Meter 3847.8 27-5 367.5 *Focto-Meter 283 37-33 37.9 SPW 136-6 12170 10-8 3511 42-4 1224 1325 37.3 33-3 42020 2021 44-4 2025 2021 84-4 20223 2021 42-4 126-11 20301, 2021 84-4 20202 201 20301, 3021 84-4 20231	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980050, 980733 18—9 980707, 980743 980050, 980733 19—5 980782 980797, 980798 59—6 980797, 980798 9801111 (See Model 980686—Set 104-4) 981111 (See Model 980686—Set 104-4) 981320 217—2 981321 981323 224—5 981323 981351 244—3 981353 981353 244—3 981351 7260609 60—8 7256099 CADILLAC (Auto Redio) 7256005 152—3 7264185 7260005 152—3 7264055 7260005 152—3 7264185 2667—2 7264185 2667—2 7264185 CAL-TECH • •Chattist T-1 285—4 CALMASTER (See Lyman) CAL-TECH • •Chattist T-1 285—4 Pr153 (Ch. CR-79) P133 (Ch. CR-79) 264—4 Pr133 (Ch. CR-79) 264—4 Pr133 T-30 141—3 T-30 254—3 T-522 (Ch. CR-77) T-32 Ch. CR-79 203—5 T-101 (Ch. CR-237) T-32 Ch. CR-77) 264=3 T-524 </td
110.m 43-5 326MA, 526MB, 526MC, 29-3 40-3 326A, B, C 12-4 326A, B, C 15-4 460 (See Model 636A—Set 15-4) 12-4 4360 (See Model 636A—Set 15-4) 40-3 646A, B, C 2-31 676B, 676C, 676D 5-23 677A 26-8 687A 26-8 7368 70-8 747A 26-8 737A 26-8 747A 26-8 737A 26-8 747A 26-8 753F, M, W (Ch. C.19), 199-3 7-3 747.5 *Facto-Meter' 751, 951W 136-6 12170, (Lotel 46-5 1521 42-4 12125 37-3 1531 53 1531 43-6 20201, 2002 84-4 20202 2031 2031 (Alto tee PCB 16-Set 126-1 2031 (Alto tee PCB 16-Set 126-1 and Model 2031-Set 111-3 20001 (Alto tee PCB 16-Set 126	BRUSH SOUND MIRROR (See Recorder Listing) BRUSH MAIL-O-VOICE (See Recorder Listing) BUICK 980090, 980733 18—9 980797, 980793 980733 19—5 980782 980797, 980798 59—6 980797, 980798 9809797, 980798 59—6 980797, 980798 981321 224—5 981323 981321 224—5 981323 981321 225—7 981323 981321 225—7 981350 981321 225—7 981550 981531 257—2 801516 BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256007 72506050 109—2 7260205 (See Model 7258755—24 109-21 7260405 152—3 7264485 7264185 267—2 CALLMASTER (See Lyman) CAL-TECH 0CAL-TECH 0CAPEHART 0B-152 (Ch. CR-79) 263—4 215—4 RP153 (Ch. CR-79) 130

NOTE: PCB Denotes Production Change Bulletin.

BOGEN (See David Bogen)
BREWSTER 9-1084, 9-1085, 9-1086 au 2-13
BROCINER A100
CA-2
Mark 12
BROOK ELECTRONICS INC.
7
10C 41-4
10C3 72-5 10C4 (See Model 10C-Set 41-4 and Model 4B-Set 230-4)
10D
89-3 and Model 3C—Set 184-4) 12A4 (See Model 12A—Set 89-3
and Model 4B—Set 230-4) 22A 265-2 BROOKS LABORATORIES, INC. ST-10 195-5 ST-10A 237-3 ST-14A 183-3 ST-15A 234-2
BROOKS LABORATORIES, INC. ST-10
ST-10A 237—3 ST-14A 183—3 ST-15A 234—2
BROWNING
RJ-12A
RJ-20 RJ-20
PL42 754_4
RJ-48
RV-10
RV.11 46—6 RV31 198—3 BRUNSWICK
B)-6836 "Tusceny" 284 C-3300 "Dorby" 284 D-1000, D-1100 567 D-6876 "Buckingham" 295 T-6000, S, SS, SX, T-6000/y "Glas- cow" (See Model T-4000-Set
29-51
T-4000, T-4000 ½ "Buckingham" 29-5 T-4400, T-4400 ½ 61-4
• 512, 513
• 5125 103-J
•8125, 8165
BRUSH SOUND MIRROR (See Recorder Listing)
BRU5H MAIL-O-VOICE (See Recorder Listing)
BUICK 980690, 980733 18—9 980744, 980745 19—5
980797, 980798 59-6 980868 104-4 980979 (See Model 980868-Set 104-4)
981111 (See Model 98068-Set
981320 981321 981323 224—5 981323 225—7
981321 224—5 981323 225—7 981550 248—3 981551 257—2
BUTLER BROS. (See Air Knight or Sky Rover)
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio)
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60-8 7258755 109-8 7258755 109-8 109-7 109-7
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60-8 7258755 109-8 7258755 109-8 109-7 109-7
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60—8 7258755 109—2 7260205 [See Model 7258755—Set 109-2] 7260405 152—3 7260405 7260405 152—3 7264105 7264185 267—2 7264185
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256507 60-8 7280203 (See Model 7238755-See 7280403 (See Model 723875-See 72804185 (See Lyman) CAL-TECH
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60-8 7260205 (See Model 7258755-5et 109-2 7260405 152-3 7260405 152-3 7264165 247-2 7264185 247-2 CALLMASTER (See Lyman) CAL-TECH © Chattis T-1 285-4
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60-8 7260205 (See Model 7258755-5et 109-2 7260405 152-3 7260405 152-3 7264165 247-2 7264185 247-2 CALLMASTER (See Lyman) CAL-TECH © Chattis T-1 285-4
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7258755 1092 7260205 (See Model 7258755-Set 109,7) 7260405 1523 7260405 1523 7260405 1523 7264165 2672 7264185 2672 CALLMASTER (See Lyman) CAL-TECH ©Lassis T-1 2854 CAPEHART @8-504.P16 (For TV Ch. see Model 401 PSet 87-2, For Radio Ch. see Model 357Set 135-4] C-14 (Ch. CR-93) 263-4 -213 (Ch. CR-83) 263-4 -214 (Ch. CR-83) 234-4
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7258755 1092 7260205 (See Model 7258755-Set 109,7) 7260405 1523 7260405 1523 7260405 1523 7264165 2672 7264185 2672 CALLMASTER (See Lyman) CAL-TECH ©Lassis T-1 2854 CAPEHART @8-504.P16 (For TV Ch. see Model 401 PSet 87-2, For Radio Ch. see Model 357Set 135-4] C-14 (Ch. CR-93) 263-4 -213 (Ch. CR-83) 263-4 -214 (Ch. CR-83) 234-4
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7258755 1092 7260205 (See Model 7258755-Set 109,7) 7260405 1523 7260405 1523 7260405 1523 7264165 2672 7264185 2672 CALLMASTER (See Lyman) CAL-TECH ©Lassis T-1 2854 CAPEHART @8-504.P16 (For TV Ch. see Model 401 PSet 87-2, For Radio Ch. see Model 357Set 135-4] C-14 (Ch. CR-93) 263-4 -213 (Ch. CR-83) 263-4 -214 (Ch. CR-83) 234-4
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7258755 7258755 109-2 7260205 (See Model 7258755—Set 109,7) 7260405 7260405 7260405 7260405 7264165 267-2 7264185 267-2 CALLMASTER (See Lyman) CAL-TECH ®L-504.P16 (For TV Ch. see Model 401P-Set 37-2, For Radio Ch. see Model 357-267 R35-41 C-14 (Ch. CR-93) 263-4 4-213 (Ch. CR-83) 234-4
BUTLER BROS. (See Air Knight or Sky Rover) CADILLAC (Auto Radio) 7256609 60-8 7260205 (See Model 7258755-5et 109-2 7260405 152-3 7260405 152-3 7264165 247-2 7264185 247-2 CALLMASTER (See Lyman) CAL-TECH © Chattis T-1 285-4

CAPEHART-Cont.

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

CAPEHART-Cont.

- CAPTRART-CONT.
 C(174MS) (Ch. CT-99) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75—Set 203.4)
 C(174MS-1 (Ch. CT-110) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75—Set 203.4)
 C(174 (Ch. CT-77) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-77) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-77) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-77) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-77) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-77) (See PCB 113—Set 264.1 and Ch. CT-77) (See PCB 113—Set 264.1 and Ch. CT-77-Set 203.4)
 SC214 (Ch. CT-121) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214 (Ch. CT-121) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214 (Ch. CT-121) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214 (Ch. CT-121) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-123) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-123) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-123) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-123) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-123) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-123) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-134) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-134) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-133) (Ch. Series CX.37) (See PCB 113—Set 264.1 and Ch. CT-75-Set 203.4)
 SC214B-1 (Ch. CT-134) (Ch. Series CX.37) (See CB 113—Set 264.1 and Ch. CT-75-Set 203.

- 3) [See Ch. Cl-37] (Ch. Serier X2, 30)
 3) [See Ch. Cl-37] (Ch. Serier X2, 30)
 3) [See Ch. 12-72] (Ch. Serier X2, 30)
 4) [See Ch. 12-Serier X2, 30]
 4) [See Ch. 12-Serier X2, 30]
 4) [See Ch. Cl-37] (Ch. Serier X2, 30]
 4) [Ch. Cl-37] (Ch. Cl-37, 158)
 (Ch. Serier X2, 38]
 4) [Ch. Cl-37] (Ch. Serier 32, 31)
 (Ch. Serier X2, 38]
 (Ch. Serier X3, 38]

- Ch. Serier CX 39). 288-2
 P7F212 (Ch. CT-57) (Ch. Serier CX. 37)
 P7F2124 (Ch. CT-77) (Ch. Serier CX. 77) (Ch. Serier CX. 77) (See PCB 113-Set 264-1 and Ch. CT-77-Set 203-4)
 P7F214 (Ch. CT-171) (Ch. Serier CX. 77) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7F2148 (Ch. CT-121) (Ch. Serier CX. 77) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7F2148 (Ch. CT-121) (Ch. Serier CX. 77) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7F2148 (Ch. CT-121) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7F2148 (Ch. CT-123) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7H240 (Ch. CT-115) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7H240 (Ch. CT-71-16) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7H244M (Ch. CT-121) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7H244M (Ch. CT-121) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7H244M (Ch. CT-72) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7H244M (Ch. CT-72) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P7H244M (Ch. CT-72) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P6C15100-4, -5 (Ch. CT-177) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)
 P622128 (Ch. CT-77) (Ch. Serier CX. 37) (See PCB 113-Set 264-1 and Ch. CT-75-Set 203-4)

- 1 and Ch. CT-75—Set 203.4) 97521480 (Ch. CT-115) (Ch. Series CX.37) (See PCB 113—Set 204.1) and Ch. CT-75—Set 203.4) 9752148D-1 (Ch. CT-116) (Ch. Series CX.37.1) (See PCB 113—Set 204.4) 1 and Ch. CT-75—Set 203.4)

- LITAMX (Ch. CT-27) (Ch. Series CX. 33DX) (See CB. 113–Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA (Ch. CT-75) (Ch. Series CX. 37) (See PCB 113–Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA-1 (Ch. CT-10) (Ch. Series CX. 37) (See PCB 113–Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA-1 (Ch. CT-10) (Ch. Series CX. 37-1) (See PCB 113–Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA-1 (Ch. CT-10) (Ch. Series CX. 37-1) (See PCB 113—Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA-1 (Ch. CT-10) (Ch. Series CX. 37-1) (See PCB 113—Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA-15 (Ch. CT-120) (Ch. Series CX. 37-1) (See PCB 113—Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA-15 (Ch. CT-121) (Ch. Series CX. 37-1) (See PCB 113—Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA-15 (Ch. CT-127) (Ch. Series CX. 37) (See PCB 113—Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA-10 (Ch. CT-127) (Ch. Series CX. 37) (See PCB 113—Ser 264-1 and Ch. CT-75—Set 203-4)
 LITZA-10 (Ch. CT-127) (Ch. Series CX. 37) (See PCB 113—Ser 264-1 and Ch. CT-75—Ser 203-4)
 LITZA-10 (Ch. CT-127) (Ch. Series CX. 37) (See PCB 113—Ser 264-1 and Ch. CT-75—Ser 203-4)
 LITZA-10 (Ch. CT-129) (Ch. Series CX. 37) (See PCB 113—Ser 264-1 and Ch. CT-75—Ser 203-4)
 LITZA-10 (Ch. CT-130) (Ch. Series CX. 37) (See PCB 113—Ser 264-1 and Ch. CT-75—Ser 203-4)
 LITZA-10 (Ch. CT-130) (Ch. Series CX. 37) (See PCB 113—Ser 264-1 and Ch. CT-75—Ser 203-4)
 LITZA-10 (Ch. CT-130) (Ch. Series CX. 37) (See PCB 113—Ser 264-1 and Ch. CT-75—Ser 203-4)
 LITZA-10 (Ch. CT-130) (Ch. Series CX. 37) (See PCB 113—Ser 264-1 and Ch. CT-75—Ser 203-4)
 LITZA-11 (See CR CH. 203-4)
 LITZA-140 (Ch. CT-75—Ser 203-4)
 LITZA-140 (Ch. CT-75—Ser 203-4)</li

CAPEHART-CHEVROLET CB5-COLUMBIA-Cont.

• 21C11, B (Ch. 1021) 199-4 • 21C18 (Ch. 821) (See Model 17C18 --Set 188-5)

 21C11, B (Ch. 1021)
 199—4

 21C18 (Ch. 821) (See Model 17C18

 --Set 188-5)

 21C21 (Ch. 1021)
 199—4

 21C31 (Ch. 1021)
 199—4

 21C41 (Ch. 1021)
 199—4

 21C41 (Ch. 1021)
 199—4

 21C41 (Ch. 1021)
 199—4

 21C41 (Ch. 1021)
 199—4

 22C05 (Ch. 921-12).
 283—2

 22C06 (Ch. 921-6, 6A)
 214—2

 22C08 (Ch. 821-6, 6A)
 214—2

 22C08 (Ch. 821-6, 6A)
 214—2

 22C18 (Ch. 821-6, 6A)
 214—2

 22C28 (Ch. 821-6, 6A)
 214—2

 22C28 (Ch. 821-6, 6A)
 214—2

 22C28 (Ch. 821-6, 6A)
 214—2

 22C38 (Ch. 821-3) (See Model 21C11—Set 199-4)
 22C28 (Ch. 821-4, 2)

 22C38 (Ch. 821-4) (See Model 18C18—Set 214-2)
 22C38 (Ch. 821-4, 2)

 22C38 (Ch. 821-1, 2, -3, -4, -10)
 255—3

 22C58 (Ch. 821-1, -2, -3, -4, -10)
 255—3

 22C58 (Ch. 821-1, 2, -3, -4, -10)
 255—3

 22C58 (Ch. 821-1, 2, -2, -3, -4, -10)
 255—3

 22C58 (Ch. 821-1, 2, -3, -4, -10)
 255—3

 22C58 (Ch. 82

■22641B (Ch. 1021-2)....230—5
 ■22648, B (Ch. 822-1, 2, 3, 4, −10)255—3
 ■22648, B (Ch. 821-4) (56—Model 18C18—Set 214-2)
 ■22678, B (Ch. 822-1, 2, 3, 4, −10)255—3
 ■22678, B (Ch. 822-1, 2, 3, -4, 10,255—3
 ■22678, B (Ch. 822-1, 2, -3, -4, ■22688, Ch. 821-2, 0 and 2 bdb (Ch. 821-2)
 ■2268
 ■22688
 ■22688
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■2668
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268
 ■268

Ch. 822-1, -2, -3, -4 (See Mo 22C38) Ch. 822-10 (See Model 22C38) Ch. 921-12 (See Model 22C38) Ch. 1021 (See Model 21C11) Ch. 1021-2 (See Model 22C618) Ch. 1027-1 (See Model 22C618)

Ch. 1027-1 (356 minut) CENTURY (Also see Industrial Television) • 226, 326 (Ch. IT-26R, IT-35R, LJ-398, IT-46R) • 721, 821, 921, 1021 (Ch. IT-21R) • 77A-8

21-5

69-62-69-62-<u>_5</u>

30-25

6-5 19-6 90-2 28-6 75-5 58-7 104-5

93

-4 68-6 70-3 66-4 65-4 257-3

CENTURY (20th) 100X, 101, 104.... 200 300

CHALLENGER

60R 200 600

CHEVROLET

Denotes Television Receiver.

CHANCELLOR (Also see Radionic) 35P

985792 985793 986067 986146 986240

CAPEHART-Cont.

NOTE: PCB Denotes Production Change Bulletin.

CAPEHART-Cont.

- LAPERARI-CONT.
 LIPC214MD-1 (Ch. CT-146) (Ch. Series CX-37.1) (See PCB 113—Set 203-4) 19N4, 21P4
 LIP214ES (Ch. CT-143) (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 121214ES-1 (Ch. CT-144) (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 123 (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 13 (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 13 (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 13 (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 13 (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 13 (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 13 (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 13 (Ch. CT-143) (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 14.1 (Ch. CT-143) (Ch. Series CX-37.1) (See PCB 113—Set 203-4) extra 13.5 extr 13.5 extra 13.5 extra 13.5 extra 13.5 extra 13.5 extra 13.5 e

- 323M--Set 112-3) 325AFX (CT-27) (Ch. Series CX 33DX) (See Ch. CT-27-Set 160) 2)

- 330X) (See Ch. CT-27—Set 160-2) •325F (Ch. C-281) (Ch. Series CX-33) (Alto ree PCB 13—Set 122-1 and PCB 24—Set 142-1] 112—3 •326-M (Ch. C-298) (Ch. Series CX-33) (See PCB 13—Set 122-1, PCB 24—Set 142-1 and Model 323M— Set 112-3) •326MX (Ch. CT-27) (Ch. Series CX-330X) (See Ch. CT-27—Set 160-2) (See Ch. CT-27—Set 160-2) (See Ch. CT-27—Set 160-2) (See Ch. CT-27—Set 130X) (For TV Ch. only see PCB 13 —Set 122-1, PCB 24—Set 142-1) and Model 323M—Set 112-3) •Set 122-1, PCB 24—Set 142-1 and Model 323M—Set 112-3) *Set 122-1, PCB 24—Set 142-1 and Model 323M—Set 112-3) *328CX, X, (Ch. CT-37) (Ch. Series 27-328CX, X, (Ch. CT-37)

- 328CX, X (Ch. CT-37) (Ch. Series CX-33DX) [See Ch. CT-27—Set 160-2)

- Ch. C157 1(A. Series CX.36) (See Model 3C2128)
 Ch. C158 (Ch. Series CX.36) (See Model 12F272M)
 Ch. C1-58 (Ch. Series CX.37) (Also See PCB 113—Set 264-11 203—4
 Ch. C1-77 (See Model 12F272M)
 Ch. C1-75 (Ch. Series CX.37) (Also See PCB 113—Set 264-11 203—4
 Ch. C1-75 (Ch. Series CX.37) (Also See PCB 113—Set 264-11 203—4
 Ch. C1-95 (Ch. Series CX.37) (See PCB 113—Set 264-11 203—4
 Ch. C1-95 (Ch. Series CX.37) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-09 (Ch. Series CX.37) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-108 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-108 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-110 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-113 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-113 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-113 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-113 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-113 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-113 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-113 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
 Ch. C1-113 (Ch. Series CX.37.1) (See PCB 113—Set 264-1 and Ch. C1-75—Set 203-4)
- CX.33DX[See Ch. CT-27-Set 160-2)
 S318, M (Ch. C-303) (Ch. Series X.33) (See PCB 13-Set 122-1, PCB 24-Set 142-1 and Model 323M-Set 112-2)
 S318X, MX (Ch. CT-38) (Ch. Series CX.33DX) (See Ch. CT-38-Set 160-2)
 S318X, MX (Ch. C-286, C-204; (Ch. Series CX.33) (See PCB 13-Set 122-1, PCB 24-Set 142-1 and Model 323M-Set 112-3)
 Series CX.33] (See PCB 13-Set 122-1, PCB 24-Set 142-1 and Model 323M-Set 112-3)
 Series CX.33] (See PCB 13-Set 122-1, PCB 24-Set 142-1 and Model 323M-Set 112-3)
 Series CX.33] (See PCB 13-Set 122-1, PCB 24-Set 142-1 and Model 323M-Set 112-3)
 Series CX.33] (See PCB 13-Set 122-1, PCB 24-Set 142-1 and Model 323M-Set 112-3)
 Satk X, X (Ch. CT-38) (Ch. Series CX-33DX) (See Ch. CT-38-Set 126-1) and Model 323M-Set 112-3)
 Satk X, X (Ch. CT-38) (Ch. Series CX-33DX) (See PCB 13-Set 126-1) and Model 323M-Set 112-3)
 Satk X, X (Ch. CT-38) (Ch. Series CX-33DX) (See PCB 13-Set 160-2)
 Satk C, C-296) (Ch. Series CX-33DX) (See PCB 13-Set 126-1) PCB
- 160-2) 33362 (Ch. C-296) (Ch. Series CX-33] (See PCB 13—Set 122-1, PCB 24—Set 142-1 and Model 323M —Set 112-3) 336CX, FX (Ch. CT-38) (Ch. Series CX-33DX) (See Ch. CT-38—Set 160-2)
- Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

CAPEHART-Cont.

Ch. CT-47 (Ch. Series CX-33DX) (See Ch. CT-27—Set 160-2)
 Ch. CT-52 (Ch. Series CX-36) (See Model 1117ZM)
 Ch. CT57 (Ch. Series CX-36) (See Model 3C212B)

www.americanradiohistory.com

CAPEHART-Cont.

CAPENARI-CONT. C.A. CT-116 (CA. Series CX-37.1) (See PCB 113—Set 264-1 and C. C. T-75—Set 203-4) o. C. CT-75—Set 203-4) o. C. CT-121 (CA. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-123 (CA. Series CX-37.1) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-124 (CA. Series CX-37.1) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-124 (CA. Series CX-37.1) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-124 (CA. Series CX-37.1) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-126 (CA. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-127 (CA. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-127 (CA. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-129 (CA. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-129 (CA. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-139 (CA. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. C. CT-134 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-134 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-134 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-134 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-134 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-144 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-144 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-145 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-145 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-145 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch. CT-145 (Ch. Series CX-37) (See PCB 113—Set 264-1 and Ch. CT-75—Set 203-4) o. Ch

3001) •Ch. Series CX-30-A-2 (See Model 3001)

Ch. Series CX-31 [See Model 3004-M] Ch. Sories CX-31 [See Model 3004-M] Ch. Series CX-32 [See Model 3005] Ch. Series CX-33F [See Model 323M] Ch. Series CX-33I [See Model 326-M] Ch. Series CX-33L [See Model 326-M] Ch. Series CX-33L [See Model 326-M]

320-M) Ch. Series CX-33DX (See Ch. CT-27) Ch. Series CX-36 (See Model TI 72M) Ch. Series CX-37 (See Ch. CT-75) Ch. Series CX-38 (See Ch. CT-109)

CARDWELL, ALLEN D.

266-4 241-4 238-6 242-4

265-4

CAVENDISH (See Bell Air)

CAPITOL

CAVALIER 4CL4 4P3 5AT1 5B1 5C1 5R1

6A2.

CHEVROLET-CROSLEY

CHEVROLET-CROSLEY	
CHEVROLET-Cont. 986443 189-4 986515 149-5 98656 219-2 986668 219-2 986671 262-4 986771 262-4 987087 284-6 987088 276-3 987088 278-3 CHRYSLER (See Mopar) 278-3	
CISCO 1A5 9A5 	
CLARION 1—5 C100 5—9 C102 9—6 C103 6—6 C104 (see Model C-104—Set 1-4) C108 (Ch. 101) 5—8 11011 17—8 11305 18_—11 11802V-M (See Model 11801—Set	
23-61 54-5 12110M 31-6 12708 41-5 12801 61-3 13101 46-7 13201, 13203 62-8 14001 60-9 14965 66-5 16703 102-2	
CLARK PA-10 126 PA-10A 18-12 PA-20 13-12 PA-20A 18-13 PA-30 19-7 CLEARSONIC 19-7	
(See U. S. Television) COLLINS AUDIO PRODUCTS FMA-6	
45-D	
51J-3	
202 219—3 312 287—4 318 281—1 324 279—2	
360 Series "8"	•
COMMANDER INDUSTRIES Commander 3 Tube Record Player	
360 Series 'B'	
360 Series 'B'	
360 Series 'B'	
300 Series 'B' 2133 COMMANDER INDUSTRIES Commander 3 Tube Record Player 17-10 17-10 CONCERTONE IS	
360 Series 'B'	
360 Series 'B'	
300 Series 'B'	
360 Series 'B'	

●15-P-36 (Ch. 36) (See Ch. 36) ●16-B-36 (Ch. 36) (See Ch. 36) ●17-P-39 (Ch. 39) (See Ch. 39)

94

 18-M-39, 18-W-39 (Ch. 39) (See Ch. 39)
 20-M-39, 20-W-39 (Ch. 39) (See CONTINENTAL ELECTRONICS (See Skyweight) CONVERSA-FONE CO-OP 6AWC2, 6AWC3, 6A47WCR, 6A47-WT, 6A47WTR 56-8
 CORONADO

 FFA43.8965 [See Model 43-8965— Set 86-3]

 K.21 [43-9041]
 182—3

 K.72 [43-9031]
 182—3

 K.72 [43-9031]
 182—3

 RAJ7-9850D
 264—5

 RAJ7-9850D
 264—5

 RAJ7-9850D
 264—5

 FA42-9850A
 227—5

 Set 289-1]
 VV1-9137A, B, [Alto See PCB 130—5

 Set 289-1]
 VV1-9137A, B, [V1-9137A, B, [CORONADO 15TV4-43-8948A, 15TV4-43-8949A 15TV4.43.8948A, 15TV4.43.8949A 175-7 25TV2.43.9022A 25TV2.43.9022B 25TV2.43.9022B 2021 ond Model 25TV2.43- 9022A-Set 103.41 25TV2.43.9045A, B 25TV2.43.9045A, B 25TV2.43.9045A, B 25TV2.43.9045A, B 25TV2.43.9045A, B 25TV2.43.9045C 35TV2.43.9045C 25TV2.43.9045C 25TV2.43.9045C 25TV2.43.9045C 25TV2.43.9045C 25TV2.43.9045C 25TV2.43.9045C 25TV2.43.9045C 25TV2.43.9045C 25TV2.43.9045C 25TV2.43.9046B 25T 225 0

CONRAC-Cont.

NOTE: PCB Denotes Production Change Bulletin.

CORONADO-Cont. • 35TV2-43-9022C (See PCB 65—Set 202-1, PCB 72—Set 212-1 and Model 25TV2-43-9022A — Set 35172-43-9022C [See PCB 65—Set 202-1, PCB 72—Set 212-1 and Madel 25172-43-9022A — Set 183-4]
 35172-43-9023A234—4
 35172-43-9043D [See PCB 68—Set 205-1, PCB 71—Set 211-1 and Madel 25172-43-9043B — Set 195-1, PCB 71—Set 211-1 and Madel 25172-43-9045D ...237—5
 35172-43-9045D ...237—5
 35172-43-9040C [See Madel 35-172-43-9045D ...237—5
 35172-43-9060D [See Madel 35-172-43-9060C] [See Madel 35-11-4] 43-6031 ...4455 43-6031 ...445-5et 10-11] 43-7601 [See Madel 43-7601B— Set 10-11] 43-7601 [See Madel 43-7601B— Set 10-11] 43-7601 [See Madel 43-7601B— Set 10-11] 43-7601 [See Madel 43-7651—Set 9-7] 43-7531 ...447—5 **21**-8) **43-8178****21**-8 **43-8180****10**-12
 43-8190
 10-12

 43-8190
 19-11

 43-8201
 (See Model 43-8178-Set

 21-81
 7-5

 43-8201
 7-5

 43-8305
 8-3

 43-8305
 8-3

 43-8305
 8-3

 43-8305
 8-3

 43-8312A
 8-4

 43-8337, 43-8352
 12-9

 43-8337, 43-8352
 12-9

 43-8337, 43-8354
 28-7

 43-8470
 8-3

 43-8470
 8-3

 43-8470
 8-3

 43-8470
 8-3

 43-8476
 9-8

 43-8476
 9-8

 43-8476
 9-8

 43-8476
 9-8

 43-9030
 182-3

 43-9031
 182-3

 43-9041
 182-3

 43-9050
 14-35

 43-9021
 182-3

 43-90201
 182-3

 43-90201
 182-3

 43-9203
 24-14

 43-92041A
 158-709-31

262.--5 45TVII-43-9130A, 45TVII-43-91 31A (Series XT-100)...262.--5 45TVI3-43-903BA ...252.--5 947B1-43-9081A ...252.--5 947B1-43-9045A ...69.--6 947B1-43-7655A, 947B41-43-7657-A ...73---2 A ...73---2 73--2 73--2 73--2 73--2 73--2 73--2 74--2 74--2 74--2 74--2 74--2 74--2 74--2 74--2 74--2 74--2 74--2 74--2 74--2 75-2 A 71-7 94RA1-43-85108, 94RA1-43-8511 8 75-6 94RA2-43-8230A 162-3 94RA4-43-8129A 94RA4-43-8130 94RA4.43.8129A 94RA4.43.8130 A, 94RA4.43.81306, 94RA4.43.8130 8131A, 94RA4.43.81306, 94RA4.43. 8131A, 94RA4.43.81318, 62-10 94RA4.43.8129A 564 62-10 94RA31.43.8129A 564 62-10 94RA31.43.8129A 564 62-10 94RA31.43.9841A 79-3 94RA31.43.9841A 79-3 94RA31.43.98130C, 94RA33.43-8131C 82-3 994TV2.43.8970A, 94TV2.43.8973A, 94TV2.83.8973A, 94TV2.83.897A, 94TV2.83 94TV2-43-8987A, 2-43-8986A 94TV2-43-8993A, 94TV2-43-8994A, 94TV2-43-8995A. 78-4

www.americanradiohistory.com

CORONADO-Cont.

e947V6.43.8953A 155 [See Model 94RA31.43-8115A Set 81-5] 197, U (See Model 94RA31.43-8115A 115A—Set 81-5) 2027 (See Model 43-2027—Set 11-3) 5005 (See Model 43-2027—Set

8115A-Set 81-5) 2027 (See Model 43-2027-Set 11-3) 5005 (See Model 43-5005-Set 28-36) 5101A (See Model 35RA2-43-5101A --Set 214-3) 6301 (See Model 43-6301-Set 7-4) 6435 (See Model 43-6451-Set 10-10) 6435 (See Model 43-6485-Set 11-4) 6730 (See Model 43-6485-Set 11-4) 6730 (See Model 43-6485-Set 11-4) 6735 (See Model 43-8685-Set 11-4) 7635 (See Model 94RA1-43-7655A --Set 10-11) 7635 (See Model 15RA1-43-7655A --Set 147-3) 7655A, 7637A (See Model 43-7651-5735 (See Model 15RA1-43-7656A --Set 123-3) 7755A, 8 (See Model 94RA1-43-7755A --Set 123-3) 7755A, 8 (See Model 94RA1-43-7755A --Set 73-3) 7755A, 8 (See Model 94RA1-43-7755A --Set 73-3)

7851 (See Model 43-7851—Set 47-5) 7901A (See Model 05RA1-43-7901A —Set 115-2) 7902A (See Model 15RA1-43-7902A —Set 134-6) 7910A, 7911A (See Model 15RA1-43-7902A —Set 134-6) 8101 (See Model 94RA31-43-8115A —Set 81-5) 8115A, B. 8116A (See Model 94RA31-43-8115A —Set 81-5) 8120A (See Model 05RA33-43-8125 (See Model 05RA33-43-8125 —Set 217-5) 8120A, 58 110-6) 8125 (See Model 35RA33-43-8125 —Set 217-5) 8130C, 8131C (See Model 94RA33-43-8130C—Set 82-3) 8145 (See Model 35RA33-43-8145 8145 (See Model 35RA33-43-8145 8145 (See Model 35RA33-43-8145 8145 (See Model 35RA33-43-8145 8145 (See Model 33-8160—Set 12-8177 8178 (See Model 43-8176—

7) 8177, 8178 (See Model 43-8178— Set 21-8) 8180 (See Model 43-8180—Set 10-12)

8190 (See Model 43-8190-Set 19-

11) 8201 (See Model 43-8178-Set 21-

8150/ See Model 43-8190—Set 19. 10) [See Model 43-8178—Set 21-80] [See Model 35RA33-43-8225 —Set 19-4] 8230A (See Model 05RA2-43-8230-A=Set 162-3] 8240, 8241 [See Model 43-8240— Set 12-8] 8245A, 8246A—Set 174-5] 8247A (See Model 43-8312A—Set 8305 (See Model 43-8305—Set 8-3] 8312A (See Model 43-8312—Set 19-12] 8353, 8354 (See Model 43-8335— Set 12-9] 8350 (See Model 34RA37-43-8355 —Set 28-7] 8360A—Set 102-3] 8360 (See Model 43-8332—Set 19-12] 8350 (See Model 43-8333—Set 19-12] 8350 (See Model 34RA37-43-8355 —Set 28-7] 8360A—Set 102-3] 8360A—Set 102-3] 8374 (See Model 43-8312A—Set 8470 (See Model 43-8312A—Set 8471 [See Model 43-8312A—Set 8471 [See Model 43-8312A—Set 847] [See Model 43-8312A—Set 847] [See Model 43-8312A—Set 847] [See Model 43-8312A—Set 847] [See Model 43-8315—Set 8-3] 8477 [See Model 43-8312A—Set 847] [See Model 43-8355—Set 8-3] 8477 [See Model 43-8312A—Set 847] [See Model 43-8315—Set 8-3] 8470 (See Model 43-8312A—Set 847] [See Model 43-8313A—Set 847] [See Model 43-8325—Set 8-3] 847] [See Model 13-8374] 850A (See Model 13-8374] 850A (See Model 13-8374] 8484A=Set 17-5] 8945A (See Model 13-8455=Set 11-3] 8945A (See Model 13-8455=Set 846.3] 8957A (See Model 13571-43-8957= 8958A (See Model 13571-43-8957= 8958A (See Model 13571-43-8957= 8958A (See Model 13571-43-8958A=Set 11-3] 8957A (See Model 13571-43-8958A=Set 86-3] 8957A (See Model 13571-43-8958A=Set 8657] 8957A (See Model 13572, Set 34=Set 8657] 8957A (See Model 13572, Set 34=Set 8657] 8957A (See Model 135774, Set 34=Set 8955 (See Model 135774, S

161-3) 88965 (See Model 43-8965—Set 86-3) 8970A, 8971A, 8972A, 8973A (See Model 94TV2-43-8970A — Set 78-4)

78.4) 8985A, 8986A, 8967A (See Model 947U2-43-8970A—Set 78-4) 89993A, 8994A, 8995A (See Model 947U-43-8970A—Set 78.4) 99005A, 9006A (See Model 05TV1-43-8945A—Set 145-5) 9010A (See Model 05TV2-43-9010A Set 146-5)

 Denotes Television Receiver. Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

CORONADO-Cont.

CORONADO-Cont. 90108 (See Model 05TV2-43-90108 --Set 153-2) 90144 (See Model 05TV1-43-9014A --Set 128-4) 90154, 6, 90164, 8 (See Model 15TV1-43-8957A-Set 162-4) 90204, [See 9C8 5(See PC8 34-Set 162-1 and Model 15TV1-43-8958A-Set 161-3] 902224 (See Model 25TV2-43-9022A --Set 183-4) 90228 (See PCB 65-Set 205-1 and PCB 72-Set 212-1 and Model 25TV2-43-9022A - Set 183-4) 90234 (See Model 35TV2-43-9023A --Set 234-4) 90238 (See Model 35TV2-43-9023A --Set 234-4)

231(2-3-5)(22A-3-6)(35172-43-9023A →Set 234-4) 9023A (See Model 35172-43-9023B →Set 234-4) 9023A (See Model 45172-43-9023B 9023A, See Model 451711-43-9027A-Set 262-5) 9023A (See Model 451711-43-9027A-Set 262-5) 903B (See Model 4572 [43-9031] →Set 182-3) 9038 (See Model 451713-43-9038A-Set 252-5) 9041 (See Model 451713-43-9045A-Set 199-5) 9045A (See Model 25-172-43-9045A-Set 199-5) 9045D, E, F (See PCB 68-Set 205-1 and Model 25172-43-9045A - Set 199-5) 9045D, E, F (See PCB 68-Set 205-1 and Model 25172-43-9045A - Set 199-5) 9045D, E, F (See PCB 68-Set 205-1 and Model 25172-43-9045A - Set 199-5) 9045D, E, F (See PCB 68-Set 205-1 and Model 25172-43-9045A - Set 199-5) 90405D, E, F (See PCB 68-Set 205-1 and Model 25172-43-905A - Set 199-5) 90405A (See Model 25172-43-905A -Set 199-5) 90405A (See Model 25172-43-905A -Set 199-5) 90405B (See PCB 68-Set 205-1 and Model 25172-43-9060A - Set

--Set 237-5] • 0060A (See Model 25TV2-43-9060A --Set 179-5] • 0060B (See PCB 68-Set 205-1 and Model 25TV2-43-9060A -- Set 199-5] • 0060B (See PCB 66-Set 205-1, PCB 71--Set 211-1 and Model 25TV2-43-9060A -- Set 199-5] • 0061A (See Model 35TV2-43-9061A --Set 237-5] • 0061A (See Model 35TV2-43-9061A --Set 237-5] • 0063A, (See Model 45TV2-43-9061B --Set 237-5] • 0063A, (See Model 45TV2-43-9064A • 0061B (See Model 45TV2-43-9064A • 0063A, 0060A, 9067A, 9062A, 0063A, 0060A, 9061A, 9062A, 0063A, 0060A, 9061A, 9062A, 0063A, 9060A, 9061A, 9062A, 0063A, 9060A, 9061A, 9062A, 0063A, 9064A, 9063A, 9062A, 0063A, 9064A, 9063A, 9062A, 0063A, 9064A, 9063A, 9062A, 0063A, 9064A, 9063A, 9062A, 0063A, 9064A, 9064A, 9062A, 0063A, 9070A, 9064A, 9062A, 0063A, 9064A, 9064A, 9062A, 0063A, 9064A, 9063A, 9062A, 0063A, 9064A, 9064A, 9064A, 9064A, 0063A, 9064A, 9064A, 9064A, 9064A, 0063A, 9064A, 9064A, 9064A, 9064A, 9070A, 9064A, 9064A, 9064A, 9070A, 9064A, 9064A, 9064A, 9070A, 9064A, 9064A, 9070A, 9064A, 9064A, 9064A, 9070A, 9064A, 9070

CORONET 6-8 C2

CRAFTSMEN (Also see Radio Craftsmen)

 Radio Craftsmen)
 251-4

 C-210 (Ch. C210P, C210V)
 251-4

 C-350
 .272-4

 C-550
 .271-2

 C900
 .253-4

 C1000
 .266-4

 500A
 .239-2

CRESCENT (Also see Changer and Recorder Listings)

76---8 H-16A1 452A 600

CREST 10A, 10B Tel. UHF Conv... 239-4

CRESTWOOD (See Recorder Listing)

CROMWELL (Mercantile Stores)

1010 1020 88-2 89-5 CROSLEY

 Print
 (ch. 35)
 (ch. 35)
 (ch. 35)

 360, 361)
 -163-4

 ●DU-17TOB, TOL (Ch. 356-1, -2)
 -168-6

 ●DU-17TOL1 (Ch. 356-1, -2)
 56-6

 ●DU-17TOB, TOL (Ch. 356-1, -2)
 168-6

 ●DU-17TOM (Ch. 356-1, -2)
 168-6

CROSLEY-DEWALD

CROSLEY-CONT.

DAVID BOGEN-Cont. HX50	. 75-7
HX-632	169-5
JOH. JOL	253-6 257-4 255-4 258-5
	255-4
Ј50 LOH, LOL	80-2
LPIO PRESSORATE PRESSORATE	86-4 227-6 73-3
PH10	. 73-3 H10-Set
73-3)	
PS-1	. 250-6
PX PX10 PX15	. 68-5
R300	238-7
R501 R602	33-3
R604 R640, R640G	.175-9
R701	175-9 268-5 227-6 277-3 242-5 241-5 243-3 183-5 252-6
R750 RC	242-5
RP-1, RP-1L RP500 RX	241-5
RX SA10-40	.183-5 .252-6 .262-6 .249-6
SA10-40 UCT (Tel. UHF Conv.)	262-6
SA10-40 UCT (Tal. UHF Conv.) UCT-1 UHF Conv. UP16 VP17, VP17X 2AR, 2RS 11D	
UP16 VP17, VP17X 2AR, 2RS	259-4
11D 11U	28-8 77-5 76-10 74-2
11U°	
11U 11X 21D 21U	. 70-10
21x	. 74_2
DEARBORN	. 22-13
100	
DECCA DP11	. 24-15
DP29 PT-10	24-15 19-13 25-12
DELCO	
R-705	42-7
R-705 R-1227, R-1228, R-1229 R-1230-A, R-1231-A, R-12	32-A
R-1233	
R-1233 R-1234, R-1235 R-1236, R-1237	7-7
R-1233 R-1234, R-1235 R-1236, R-1237 R-1238 R-1241 R-1242 R-1244 R-1244, R-1245, R-1246 R-1248, R-1249, R-1250 R-1251, R-1252 R-1251, R-1252 R-1251, R-1252 R-1251, R-1254 R-1255, R-1254 R-1255, R-1254 R-1255, R-1254 R-1255, R-1255 R-1255, R-1255, R-1255 R-1255, R-1255, R-1255 R-1255, R-1255, R-12	. 38-4
R-1241 R-1242	62-11 318 324
R-1243 R-1244, R-1245, R-1246.	
R-1248, R-1249, R-1250	. 66-7
R-1251, R-1252 R-1253, R-1254, R-1255 .	. 47-7
R-1243 R-1244, R-1245, R-1246 R-1248, R-1249, R-1250 R-1251, R-1252 R-1253, R-1254, R-1255 R-1408, R-1409 TV-71, TV-71A TV-71, TV-71A	15-7 99A-3
	. 77A-J
	102-Set
	102-Set
TV-101 (See Model TV- 88-3) TV-102 TV-160 •TV-201	102-Set
88-3) TV-102 TV-160 TV-201 DeSOTO (See Mopar)	102-Set
88-3) • IV-102 • IV-102 • IV-102 • IV-201 • IV-201	102—Set 88—3 85—5 59—8
88-3) • IV-102 • IV-102 • IV-102 • IV-201 • IV-201	102-Set . 88-3 . 85-5 . 59-8 el 554-1- 7-8
1:101 (Jee Model 11- 88.3) 6TV-102	102-Set 88-3 85-5 59-8 el 554-1- 7-8
1:101 (Jee Model 11- 88.3) 6TV-102	102-Set 88-3 85-5 59-8 el 554-1- 7-8 9-10 571AL, 10-16
Bit Bit Besoro See Aria Model Besoro See Aria Model Besoro See Aria Model Besoro See Aria Model Stat-1.61A See Aria Model Ses Feb 7-2 Ses 67-2 Ses 1.49A Ses 67-2 Ses 1.49A Ses 67-2 Ses 1.47A S71B, S71A, S71B, S71L S71X, S71AX, S71BX S72-220-226A	102-Set 88-3 85-5 59-8 el 554-1- 7-8 9-10 571AL, 10-16 9-11
Totol Class Model 88.31 •	102-Set 88-3 85-5 59-8 9-10 571AL, 10-16 9-11 8-7 7-9
Totol Class Model Tubel 88.31	102_Set 88-3 85-5 59-8 1554-1- 7-8 9-10 571AL, 10-16 9-11 8-6 9-7 7-9 579-Set
Total (Jee Model 98.01 The Model 97.160 The Model 98.010 Gee Mogar) peSOTO (See Mogar) DETROLA 534.1-61A (See Aria Mod 61A-5set 67-2) 538.1-49A See 67-2) 538.1-49A See 67-2) 571. 571A, 571B, 571L, 571B, 571L, 571B, 571A, 571A, 571B, 577-2026A 577-20226A 577-1-6A 579 .598 (See Model 7-9)	102_Set 88-3 88-3 85-5 59-8 el 554-1- 7-8 9-10 571AL, 10-16 8-4 7-9 579-51 19-14 55-8
Total (Jee Model 98.01 The Model 97.160 The Model 98.010 Gee Mogar) peSOTO (See Mogar) DETROLA 534.1-61A (See Aria Mod 61A-5set 67-2) 538.1-49A See 67-2) 538.1-49A See 67-2) 571. 571A, 571B, 571L, 571B, 571L, 571B, 571A, 571A, 571B, 577-2026A 577-20226A 577-1-6A 579 .598 (See Model 7-9)	102—Set 88—3 85—5 59—8 1554-1- 7—8 9—10 571AL, 10—16 9—11 8—7 7—9 579—Set 19—14 55—8
Total (Jee Model 98.01 The Model 97.160 The Model 98.010 Gee Mogar) peSOTO (See Mogar) DETROLA 534.1-61A (See Aria Mod 61A-5set 67-2) 538.1-49A See 67-2) 538.1-49A See 67-2) 571. 571A, 571B, 571L, 571B, 571L, 571B, 571A, 571A, 571B, 577-2026A 577-20226A 577-1-6A 579 .598 (See Model 7-9)	102_5et 88_3 85_5 59_8 9_10 571AL, 9_11 571AL, 10_15 8_7 9_11 10_571AL, 10_11 10
Tell (Jee Model 98.01 TV-100 TV-100 peSOTO (See Mopar) D D DBTROLA Sat-1.41A (See Aria Mod 61A-5set 67-2) Sat-1.47A Sate 67-2) Sate 7-2) Sate 7-2, Sate 7	102_5et 88_3 85_55 59_8 9_10 571AL 9_11 571AL 9_11 8_7 57_9 57_9 57_9 57_9 57_9 57_9 57_9 57_4 8_7 57_8 8_7 19_14 55_8 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 19_14 55_8 10_14 55_8 55_8 10_14 55_8 55_8 10_14 55_8 55_8 10_14 55_8 55_8 10_14 55_8 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 55_8 10_14 101
Totol (Jee Model 98.01 The Model 98.01 General 98.010 General 98.011 General 98.012 General 98.014 General 97.015 General 97.015 General 98.016 General 98.017 General	102_5et 88-3 85-5 59-8 el 554-1- 7-8 9-10 571AL, 10-16 9-11 8-7 7-9 579-54 19-14 550-6 11-5 48-6 11-5 48-6 16-8
Totol (Jee Model Model 98.01 TV-100 TV-100 peSOTO (See Mopar) DETROLA Sat-1.41A (See Aria Mod 534.1-41A (See Aria Mod 61A-5set 67-2) Sat-1.47A 568.1-3221D S581-49A Sote 67-2) 571.1, 571A, 571B, 571L, 571B, 571A, 571B, 571A, 571B, 577-2026A S77-2026A 572.20226A S77-1-6A S78 570.2256B (See Model) 7.9) Sat-156 720 Sat-156 Sat-157 510.4 Sat-16A Sat-16A 523 Sat-16A Sat-16A 524 Sat-16A Sat-16A 524 Sat-16A Sat-16A 525 Sat-16A Sat-16A 526 Sat-16A Sat-16A 520 Sat-16A Sat-16A 520 Sat-16A Sat-16A 520 Sat-16A Sat-16A 520 Sat-16A Sat-16A	102_5et 88-3 85-5 59-8 1554-1- 7-8 9-10 571AL, 10-16 571AL, 10-16 571AL, 10-16 571AL, 10-16 571AL, 10-16 571AL, 10-16 571AL, 10-16 571-16
Totol (Jee Model 98.01 TV-100 97.01 Ge Model 98.070 (See Mogar) peSOTO (See Mogar) Ge Aria 98.1-49A Ss4-1-61A (See Aria Mod 61ASet 67-2) Ss8-1-49A 568-13-221D Sr14, S71B, S71L, S71B, S71L, S71B, S71A, S71B, S72-22026A 577-2-258B (See Model 579.1-6A S79.1-5A 570.2-258B (See Model 510.4 Seriet 750 Seriet 7270 Seriet 7260 Seriet 7270 SerMALD A50001 (See Model A500- A50001 (See Model A500- A50001 (See Model A500- A50001 (See Model A500- A500	102_Set 88_3 85_5 59_8 9-10 571AL, 19-11 8-7 7-9 579_Set 19-14 55_8 10-16 9-10 571AL, 19-14 55-8 10-16 9-10 579_Set 19-14 55-8 16-8 16-8 48-22 56+4-4-22 56+4-22 56+4-4-
Totol (Jee Model Trees 88.31 • • TV-162 • TV-164 \$72 S714, \$718, \$718, \$718, \$718, \$7718, \$772, \$72, \$72, \$72, \$72, \$72, \$72, \$7	102_5et 88_3 85_5 59_8 9-10 571AL, 10-16 9-10 570-50 10-16 10-
Totol (Jee Model 88.31	102_5et 88_3 85_5 59_8 9-10 571AL, 10-16 9-10 571AL, 10-16 9-10 571AL, 10-16 9-10 571AL, 10-16 8-7 7-9 579-5et 19-14 55-6 16-8 48-6 16-8 48-6 16-8 48-7 50-6 48-6 16-8 48-6 48-7 50-6 48-7 48-7 50-6 48-7 50-6 48-7 48-7 50-6 48-7 42-2 16-9 31-9 31-9 31-9 31-9 31-9 32-7 3
Totol (Jee Model 88.31	102_5et 88_3 85_5 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 50_6 571AL 9_10 511AL 50 6 511AL 50 6 511AL 50 6 511AL 511 511 511 511 511 511 511 51
Totol (Jee Model 11 88.31 • • TV-162 • TV-164 \$68.1.49A Soft 67-2) \$68.1.49A Soft 67-2) \$71.8 \$71.4, \$71.8, \$71.8, \$71.8, \$71.8, \$71.8, \$77.8, \$77.1, \$71.8, \$77.1, \$77.2, \$77.2, \$25.8 \$77.2.226A \$77.1-6A \$77.2.226A \$77.1-6A \$78.2 \$10.4, \$71.8, \$71.8, \$71.8, \$71.8, \$71.8, \$71.8, \$71.8, \$71.8, \$77.2, \$72.226A \$77.2.226A \$77.1-6A \$70.3 \$79.2368 \$82.1 \$60.4, \$65.4, \$70.236A \$77.70 \$58.2 \$500 \$501, \$502, \$503 \$501, \$502, \$503 \$503 \$507 \$504.050 \$608 \$608 Model \$602 \$609 \$605 </th <td>102_5et 88_3 85_5 59_8 1554-1- 7_8 9-10 571AL 7_8 9-10 571AL 19-14 19-14 19-14 19-14 19-14 19-14 19-14 19-14 19-14 10-5 11-5 10-5 11-5 10-5 11-5 10-5 11-5 10-5 11-5 10-</td>	102_5et 88_3 85_5 59_8 1554-1- 7_8 9-10 571AL 7_8 9-10 571AL 19-14 19-14 19-14 19-14 19-14 19-14 19-14 19-14 19-14 10-5 11-5 10-5 11-5 10-5 11-5 10-5 11-5 10-5 11-5 10-
Totol (Jee Model Trees 88.31	102_5et 88_3 85_5 59_8 85_5 59_8 85_5 59_8 9-10 571AL, 10-16 9-11 571AL, 10-16 9-11 571AL, 10-16 9-10 577-9 570-9 5
Totol (Jee Model Trees 88.31 ••••••••••••••••••••••••••••••••••••	102_5et 88_3 85_5 59_8 85_5 59_8 85_5 59_8 85_5 57_8 9_10 571AL, 10_16 9_11 8_7 7_9 57_8 8_7 7_9 57_8 19_14 55_6 10_16 8_7 7_9 57_9 19_14 55_6 10_16 8_7 7_9 57_9 19_14 55_6 10_16
Totol (Jee Model Trees 88.31 ••••••••••••••••••••••••••••••••••••	102_5et 88_3 85_5 59_8 1554-1- 7_8 9-10 571AL, 10-16 9-10 571AL, 10-16 9-10 571AL, 10-16 10-16 9-10 571AL, 10-16 10-
Totol (Jee Model Trees 88.31 ••••••••••••••••••••••••••••••••••••	102_5et 88_3 85_5 59_8 85_5 59_8 9-10 571AL, 10-16 9-10 571AL, 10-16 8-7 57-9
Totol (Jee Model Trees 88.31 ••••••••••••••••••••••••••••••••••••	102_5et 88_3 85_5 59_8 1554_1- 7_8 9-10 571AL, 10-16 9-10 571AL, 10-16 9-10 571AL, 10-16 9-10 571AL, 10-16 4- 57-5 9-10 571AL, 10-16 4- 574-1- 57-5 9-10 571AL, 10-16 4- 57-5 9-10 571AL, 10-16 4- 57-5 9-10 571AL, 10-16 4- 57-5 9-10 571AL, 10-16 4- 57-5 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 48-6 10-16 10-16 48-6 10-16 10-16 48-6 10-16
Totol (Jee Model Trees 88.31 ••••••••••••••••••••••••••••••••••••	102_5et 88_3 85_5 59_8 1554-1- 7_8 9-10 571AL, 19-11 7_8 9-11 19-14 570_5et 19-14 19-14 19-11 19-14 19-16 19-16 11-5 19-16 11-5 19-16 11-5 19-16 11-5 10-5 11-5 15-7
Totol (Jee Model 98.31 ••••••••••••••••••••••••••••••••••••	102_5et 88_3 85_5 59_8 1554-1- 7_8 85_5 571AL 7_8 9-10 571AL 10_11
Totol (Jee Model 98.31 ••••••••••••••••••••••••••••••••••••	102_5et 88_3 85_5 59_8 85_5 59_8 85_5 59_8 10_16 571AL 7_8 9_10 571AL 10_16 8_6 7_8 9_79 579_5et 19_14 10_16 8_6 7_8 9_79 579_5et 19_14 10_16 8_6 10_16 8_6 7_8 9_79 579_5et 19_14 10_16 8_6 7_8 9_79 579_5et 11_15 11_
Totol (Jee Model T 88.31	102_5et 88_3 85_5 59_8 1554-1- 7_8 85_5 59_8 19_14 571AL 10_16 8_6 7_9 579_5et 19_14 10_16 8_6 7_9 579_5et 19_14 11_5 48_6 16_8 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5 48_6 11_5
Totol (Jee Model 98.01 The Model 98.01 Generation	102_5et 88_3 88_3 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 50_1 571AL 7_8 9_10 571AL 10_16 9_10 571AL 10_16 8_7 7_9 57.4 50_8 10_16 8_7 7_9 57.4 50_8 10_16 8_7 7_9 57.4 50_8 10_16 8_7 10_16 8_7 7_9 57.4 10_16 8_7 7_9 57.4 10_16 8_7 7_9 57.4 10_16 8_7 7_9 57.4 10_16 8_7 7_9 57.4 10_16 8_7 10_16 8_7 7_9 57.4 10_16 8_7 10_16 10_17 10_16 10_16 10_16 10_16 10_16 10_16 10_17 10_16 10
Totol (Jee Model 98.01 The Model 98.01 Generation	102_5et 88_3 88_3 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 59_8 50_1 571AL 7_8 9_10 571AL 10_16 9_10 571AL 10_16 8_7 7_9 57.4 50_8 10_16 8_7 7_9 57.4 50_8 10_16 8_7 7_9 57.4 50_8 10_16 8_7 10_16 8_7 7_9 57.4 10_16 8_7 7_9 57.4 10_16 8_7 7_9 57.4 10_16 8_7 7_9 57.4 10_16 8_7 7_9 57.4 10_16 8_7 10_16 8_7 7_9 57.4 10_16 8_7 10_16 10_17 10_16 10_16 10_16 10_16 10_16 10_16 10_17 10_16 10
Toto (Jee Model T 88.31	102_5et 88_3 85_5 59_8 85_5 59_8 85_5 59_8 10_16 571AL, 10_16 8_7 7_9 571AL, 10_16 8_7 7_9 571AL, 10_16 8_7 7_9 570AL, 10_16 570AL, 10_16 560AL, 10_16 560AL, 10_16 560AL, 10_16 560AL, 10_16 560AL, 10_16 560AL, 10_16 560AL, 10_16 560AL, 10_16 560AL, 10_16 10_16 560AL, 10_16 570AL, 10_
Toto (Jee Model T 88.31	102_5et 88_3 88_3 59_8 85_5 59_8 85_5 59_8 10_16 571AL, 10_16 8_7 571AL, 10_16 8_7 57_9 571AL, 10_16 8_7 7_9 57_9 19_14 8_7 7_9 57_9 19_14 8_7 7_9 57_9 19_14 8_7 7_9 57_9 19_14 8_7 7_9 57_9 19_14 8_7 7_9 57_9 19_14 8_7 7_9 57_9 19_14 8_7 7_9 57_9 19_14 10_16 8_7 7_9 57_9 19_14 10_16 8_7 7_9 57_9 19_14 10_16 8_7 7_9 57_9 19_14 10_16 8_7 7_9 57_9 19_14 10_16 8_7 7_9 57_9 19_14 10_16 8_7 7_9 57_9 19_14 10_16 8_7 7_9 57_9 10_16 8_7 7_9 57_9 50_6 8_7 10_16 8_7 7_9 57_9 50_6 8_7 10_16 8_7 7_9 57_9 50_6 8_7 10_16 8_7 7_9 50_6 8_7 10_16 8_7 7_9 50_6 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 8_7 10_16 10_15
Totol (Jee Model Totol 88.31	102-Set 88-3 88-3 59-8 85-5 59-8 1554-1- 7-8 571AL 7-9-8 571AL 10-16 571AL 10-16
11-101 (38) 88.31 ••••••••••••••••••••••••••••••••••••	102_5et 88-3 88-3 59-8 85-5 59-8 85-5 59-8 10-16 571AL, 10-16 8-7 7-9 19-14 50-6 19-14 50-6 19-14 50-6 19-14 51-5 19-14 50-6 19-14 50-6 19-14 50-6 19-14 51-5 10-16 8-7 7-9 19-14 51-5 10-16 8-7 7-9 19-14 51-5 10-16 8-7 7-9 19-14 51-5 10-16 8-7 7-9 19-14 51-5 10-16 8-7 7-9 19-14 51-5 10-16 8-7 7-9 19-14 51-5 10-16 8-7 7-9 19-14 51-5 10-5 10-5 10-5 10-16 8-7 19-14 51-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5 10-5 100-

CROSLEY-Cont.

L. S. C. G. A. M. WE [Ch. 906]
 E. SOBK, CE. GY, RD. WE [Ch. 906]
 E. J. TCOL, COLB (Ch. 385, 1(Also See PCB 73—Set 214-1), 193—3
 EU-17COLBU, COLU [Ch. 396] [See PCB 73—Set 214-1), 193—3
 EU-17COL, TOLB (Ch. 383, 186—3)
 EU-21CDB (Ch. 381, 384) 186—3
 EU-21CDL, CDLB (Ch. 387, 186—3)
 EU-21CDL, CDLB (Ch. 387, 186—3)
 EU-21CDM (Ch. 380, 381, 186—3)
 EU-21CDM (Ch. 380, 381, 186—3)
 EU-21CDM (Ch. 380, 381, 186—3)
 EU-21CDM (Ch. 380, 384), 186—3)
 EU-21COM (Ch. 380, 384), 186—3)
 EU-21COM (Ch. 380, 384), 186—3)
 EU-21COBM (Ch. 381, 384), 186—3)
 EU-21COBM (Ch. 381, 384), 186—3)
 EU-21COLBM (Ch. 381, 384), 186—3)
 EU-21COLBM (Ch. 381, 384), 186—3]
 EU-21COLBM (Ch. 381, 384), 186—3]
 EU-21COLBM (Ch. 381, 186–3)
 EU-21COLBM (Ch. 380, 186–3)
 EU-21COLBM (Ch. 381, 186–3)
 EU-21COLBM (Ch. 381, 186–3)
 EU-21COLBM (Ch. 380, 186–3)
 EU-21COLBM (Ch. 381, 186–3)
 <l

NOTE: PCB Denotes Production Change Bulletin,

CROSLEY-Cont. CROSLEY-Cont. F-21COLU-1 (Ch. 404-5) [See PCB 120—Set 274-1 and Model F-21CDLBH—Set 223-5) F-21TOLBH—Set 223-5) F-21TOLBU, -1 (Ch. 403-1) [See PCB 120—Set 274-1 and Model F-21TOLBH—Set 223-5) F-21TOLBH—Set 223-5) F-21TOLBH—Set 223-5) F-21TOLBH—Set 223-5) F-21TOLBH—Set 223-5) F-21TOSBU (Ch. 404-4) [See PCB 120—Set 274-1 and Model F-21CDLBH—Set 223-5) F-21TOSBU (Ch. 404-3) [See PCB 120—Set 274-1 and Model F-21CDLBH—Set 223-5) F-21TOSBU (Ch. 404-3) [See PCB 120—Set 274-1 and Model F-21CDLBH—Set 223-5) F-21TOSBU (Ch. 404-5) [See PCB 120—Set 274-1 and Model F-21CDLBH—Set 223-5) F-21TOSBU (Ch. 404-5) [See PCB 120—Set 274-1 and Model F-21CDLBH—Set 223-5) F-21COSBU (Ch. 404-5) [See PCB 120—Set 274-1 and Model F-21CDLBH—Set 223-5) F-24COB, CDBU, CDBU, CDMH, CDMU (Ch. 412-1) .234—S F-21TOSH, C-17TOBU, CDM, CDUU (Ch. 411, 411-1) 224—S F-11TOBH, G-17TOBH, G-17TOWH, G-17TOWH, G-17TOWH, G-17TOWH, G-17TOWH, G-17TOWH, G-17TOWH, G-17TOWH, G-17TOWH, G-17TOWH (Ch. 431) C-21TOMH, G-17TOWH, CA 120—Set 274-1 and Model F-21CDLBH—Set 223-5) G-21TOMH, G-17TOWH, G-17TOWU (Ch. 426) .249—S G-21TOMH, G-17TOWH, G-17TOWU (Ch. 431) C-21TOWH (Ch. 431) C-21TOWH (Ch. 431) C-21TOWH, C-17TOWH, G-17TOWU (Ch. 433) C-21TOMH, G-17TOWH, C-120—Set 274-1 and Model F-21CDLBH—Set 223-5) G-F-21CDLH Set 223-H-21 ICOMD (Ch. 432)...283-3
 H-21 HCBHD, H-21 ICGU (Ch. 233-2)
 H-21 HCBHD, HCBHd (Ch. 431.1, -3)
 H-21 HCBHD, HCBHd (Ch. 431.1, -3)
 H-21 HCBHD (Ch. 434)...285-9
 H-21 HCMHD, HCMHd (Ch. 431.1, -3)
 H-21 HCMHD, (Ch. 434)...285-9
 H-21 HCWHD, H-21 HCWU (Ch. 431.1, -3)
 H-21 HCWHD, (Ch. 434)...285-9
 H-21 HFWHG, HPBHd (Ch. 433, -3)
 H-21 HFWHG, (Ch. 435)...285-9
 H-21 HFWHG, (Ch. 435)...285-9
 H-21 HFWHG, HPBHd (Ch. 433, -3)
 H-21 HFWHG, (Ch. 435)...285-9
 H-21 HFWHG, (Ch. 431, -2)...285-9
 H-21 HFWHG, (Ch. 431, -2)...285-9

CROSLEY-Cont. H-21TOWHb (Ch. 431., 279-3) H-21TOWHb (Ch. 432). 285-9 S11-428HU, S11-4744MU, S11-433MU (Ch. 331-4). 153-3 S11-439MU (Ch. 331-4). 153-3 S11-439MU (Ch. 331-4). 153-3 S17COC1, S17COC2, S17COC3 (Ch. 320, 9-104W. 60-10 9-105, 9-106W. 50-7 9-117, 512-3 9-101, 56-8 9-102, 56-4 9-103, 9-104W. 60-10 9-105, 9-106W. 50-7 9-118, 9-118W. 50-4 9-209, 9-203M. 53-3 9-209, 9-212M. 79-4 9-407, 9-407M-1, 9-407M-2 66-6 9-402M. 79-4 9-407, 9-407M-1, 9-407M-2 66-6 9-403M, 9-419M3-LD. 9-419M2, 9-419M2, 9-419M3, 9-419M3-LD. 9-419M2, 9-419M2, 9-419M2, 9-419M2, 9-419M2, 9-419M2, 9-419M2, 9-419M2, 9-422M, 9-424M. 79-4 9-422M, 9-424M. 79-4 9-422M, 9-424M. 79-4 9-424B. 79-4 9-424M. 10-414MU. 5et 116-4 10-414MU. 116-4 9-10-414MU. 116-4 10-414MU. 116-4
 CROSLET-CONT.
 38–3

 BBTA, 88TC
 38–3

 BBTA, 88TC
 7.4

 38TA, 88TC (Revised) (See Set 43-8
 31

 106CP, 106CS
 25–10

 148CP, 148CQ
 42–0

 148CP, 148CQ
 42–0

 154927 Tel. UHF Conv..., 211–3
 5

 15658 Model I-14801
 5

 15785 (See Model IO-414MU)
 5

 1586 Model II-10001
 5

 1531 (See Model II-12601)
 5

 1532 (See Model II-12601)
 5

 1532 (See Model II-12601)
 5

 1533 (See Model II-12601)
 5

 1532 (S Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos, 64 Through 104 Are All Contained in Set No. A-250

DALBAR

DAVID BOGEN

 Barcambo Jr., Barcambo Sr.
 10–14

 M8 "Tonomatic"
 8–34

 100-1000 Series
 10–15

 400
 9–9

Denotes Television Receiver.

DEWALD-EMERSON

DUMONT_Cont

DEWALD-Cont.
•DT-190
OT-190D (Also see PCB 58-Set
102 11 124 7
DT 1020 DT 10204 100 4
DT 1020, DT 10204 100-6
192-1} 136-7 • DT-1020, DT-1020A 100-6 • DT-1030, DT-1030A 100-6 • DT-X-160 100-6
E-520
E-522 141-5 © ET-140, ET-141 118-5
#ET-140R, ET-141R (Also see PCB 58
VET-TAUR, ET-TATK TAISO SEE PLD 38
-Set 192-1)
Set 192-1)
Set (92-1)
• ET-171-20
•ET-172 (Also see PCB 58-Set
192-1}
EL-TYUD, K [Also see PCB 38-Set
192-1)
E1-1900 (Kevised)
F-404
F-405
F-523
• FT-200 (See PCB 58-Set 192-1 and
Model DT-162R-Set 136-7)
•FT-200 (Revised)
• FT-201 (See PC8 58-Set 192-1 and
Model DT-162R-Set 136-7)
•G-174
• G-201
•G-210, G-211
G-408
H-300 UHF Conv
H-410
H-527
H-528
H-533
H-537
511 71—9
DODGE (See Mopar)

DORN'S (See Bell Air)

DOUGLAS

DREXEL

DUKANE

DUMONT

e 327 (Ch. S-103, T-103) 246-4 (Mutual Buying Syndicate) e17CG1, 17TW (Similar to Chassis) 149-13 1A45-A 1A300, 1B300 1U325 184--5 189-6 185-6 186-5 • RA-103 (Also see PCB 6-Set 108-1) 90-3 Andover Model RA-117A) Andover Model RA-147A (See Mod-el RA-147A) Ardmore Model RA-112-A1, -A4 (See Model RA-112A) Banbury Model RA-162-B4 (See Model RA-162)

NOTE: PCB Denotes Production Change Bulletin.

See Model RA-113-B1, -B2
Brockville Model RA-113-B1, -82 (See Model RA-113) Burlingame Model RA-113-B5, -86 (See Model RA-113) Canterbury Model RA-103 (See
Canterbury Model RA-103 (See Model RA-103)
Cariton Model RA-117-A3 (See Mod- el RA-117A) Chatham (See Model RA-103) Chatham Model RA-166 (See Model RA-166) Chatham Model RA-168, RA-169
Chatham Model RA-166 (See Model
RA-166) Chatham Model RA-168, RA-169 (See Model RA-168) Chester (See Model RA-147A)
(See Model RA-168)
Chester (See Model RA-147A) Clinton Model RA-164-A1 (See
Club 20 (See Model RA-106A) Calony (See Model RA-105A) Devon Model RA-160-A1 (See Mod-
Dynasty (See Model RA-162)
Essex Model RA-167 (See Model RA-167)
Fairfield (See Model RA-110A) Flanders Model RA-162-B5 (See Model RA-162)
Model RA-162}
Glendole [See Model RA-321'] Guilford Model RA-112-A2, -A5 [See Model RA-111A] Hampton Models RA-306, RA-307
(See Model RA-111A)
Isee Model KA-JUDI
Hanover Model RA-109-A2, -A6
(See Model RA-109A) Hanover (See Model RA-109A-FAS) Hanover Model RA-162 (See Model RA-162)
Hanover Model RA-162 (See Model RA-162)
Hanover II model KA-1/U (See
Model RA-170) Hanover II Model RA-171 (See
Hanover II Model RA-171 (See Model RA-171) Hartford Models RA-306, RA-307 (See Model RA-306) Hastings (See Model RA-104A)
(See Model RA-306)
Hastings (See Model RA-104A) Lynwood Model RA-167 (See Model
RA-167)
Lynwood Model RA-169 (See Model RA-169)
Monchy (See Model RA-106A)
Meadowbrook Model RA-103 (See
KA-109) Manchu (See Model RA-106A) Mansfield (See Model RA-108A) Meadowbrook Model RA-103 (See Model RA-103) Meadowbrook II (See Model RA-
Marchan and Antonia antoni
Model RA-165)
Mt. Vernon Model RA-112-A3, -A6 (See Model RA-112A)
Newbury (See Model RA-162)
Newbury II Model RA-170 (See Model RA-170)
Model RA-171 (See Model RA-171) Newport Model RA-306, RA-307 (See Model RA-306) Oxford Model RA-167 (See Model RA-167) Park Lang Model RA-117-A7 (See
Newport Models RA-306, RA-307
(See Model RA-306) Oxford Model RA-167 (See Model
RA-167)
Model RA-117A
Parklane (See Model RA-147A)
Madal DA 111A1
model KA-IIIA/
Revere Model RA-113-B3, -B4 (See Model RA-113)
Revere Model RA-113-B3, -B4 (See Model RA-113) Ridgewood Model RA-165-B4 (See
Model RA-11A/ Revere Model RA-113-B3, -B4 (See Model RA-113} Ridgewood Model RA-165-B4 (See Model RA-165) Ridgewood "41" Model RA-167
Model RA-1113-B3, -B4 (See Model RA-113) Ridgewood Model RA-165-B4 (See Model RA-165) Ridgewood '41'' Model RA-167 (See Model RA-167) Royal Soversign (See Model RA-
RA-167 Park Lane Model RA-117-A7 (See Model RA-117A) Parklane (See Model RA-147A) Putnam Model RA-111-A1, -A4 (See Model RA-111A) Revere Model RA-113-B3, -B4 (See Model RA-113) Ridgewood Model RA-165-B4 (See Model RA-165) Ridgewood "41" Model RA-167 (See Model RA-167) Royal Sovereign (See Model RA- 19A)
Model RA-1113-B3, -B4 (See Model RA-113) Ridgewood Model RA-165-B4 (See Model RA-165) Ridgewood ''41'' Model RA-167 (See Model RA-167) Royal Sovereign (See Model RA- 119A) Rumson (See Model RA-103D) Rufand Models RA-306, RA-307
model RA-1 Revere Model RA-1 Model RA-1 Model RA-165 Ridgewood ''41'' Model RA-167 See Model RA-167 See Model RA-167 Royal Sovereign (See Model RA-1 119A) Rumson (See Model RA-1030) Rutland Models RA-306, RA-307 (See Model RA-306) Savey (See Model RA-103)
model AA-1147, Revere Model RA-113-83, -84 (See Model RA-113) Ridgewood Model RA-165-84 (See Model RA-165) Ridgewood RA-167) Royel Soversign (See Model RA- Rumba (See Model RA-1030) Rutland Models RA-306, RA-307 (See Model RA-306) Sover (See Model RA-103) Sheffield (See Model RA-103 Model) Sheffield (See Model RA-104 Model) Sheffield (See
Rutland Madels RA-306, RA-307 (See Madel RA-306) Savay (See Madel RA-103) Sheffield (See Madel RA-103D) Sheffield (See Madel RA-103D) (See Madel RA-306)
Rutland Madels RA-306, RA-307 (See Madel RA-306) Savay (See Madel RA-103) Sheffield (See Madel RA-103D) Sheffield (See Madel RA-103D) (See Madel RA-306)
Ruitand Models RA-300, RA-307 (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103D) Sheffield (See Model RA-103D) Sheffield Models RA-306, RA-307 (See Model RA-306) Shelburne Model RA-105-85 (See Model RA-165) Sherburne Model RA-109-A3 - A7
Rutland Models RA-306, RA-307 (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Shefburne Model RA-1306, RA-307 (See Model RA-135) Sherburne Model RA-109-A3 -A7 (See Model RA-109A) Sherburoke (See Model RA-109A-
Rutiand Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield Madels RA-306, RA-307 (See Model RA-306) Shelburne Model RA-106, RA-307 (See Model RA-106) Shebrooke Models RA-109-A3 -A7 (See Model RA-109A) Shebrooke (See Model RA-109A- FASO
Ruitend Models RA-306, RA-307 (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-136, RA-307 (See Model RA-165, Soffield RA-167, Sherbrooke Models RA-109, A Sherbrooke (See Model RA-109, A Sherbrooke (See Model RA-130A) Somerset (See Model RA-130A) Somerset L Model RA-130A)
Ruitend Models RA-306, RA-307 (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-136, RA-307 (See Model RA-165, Soffield RA-167, Sherbrooke Models RA-109, A Sherbrooke (See Model RA-109, A Sherbrooke (See Model RA-130A) Somerset (See Model RA-130A) Somerset L Model RA-130A)
Ruitend Models RA-306, RA-307 (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-136, RA-307 (See Model RA-165, Soffield RA-167, Sherbrooke Models RA-109, A Sherbrooke (See Model RA-109, A Sherbrooke (See Model RA-130A) Somerset (See Model RA-130A) Somerset L Model RA-130A)
Rutinad Madali RA-306, RA-307 (See Madel RA-306) Savory (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield (See Madel RA-103) Shefburne Madel RA-306, RA-307 (See Madel RA-306) Shefburne Madel RA-109.A3 -A7 (See Madel RA-109A) Sherbrooke (See Madel RA-109A- (FAS) Sherbrooke (See Madel RA-100A) Somerset (See Madel RA-130A) Somerset II Madel RA-170 (See Madel RA-171) Somerset II Madel RA-171 (See Madel RA-171) (See Madel RA-171) (See Madel RA-171) (See
Rutinad Madali RA-306, RA-307 (See Madel RA-306) Savory (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield (See Madel RA-103) Shefburne Madel RA-306, RA-307 (See Madel RA-306) Shefburne Madel RA-109.A3 -A7 (See Madel RA-109A) Sherbrooke (See Madel RA-109A- (FAS) Sherbrooke (See Madel RA-100A) Somerset (See Madel RA-130A) Somerset II Madel RA-170 (See Madel RA-171) Somerset II Madel RA-171 (See Madel RA-171) (See Madel RA-171) (See Madel RA-171) (See
Rutinad Madali RA-306, RA-307 (See Madel RA-306) Savory (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield (See Madel RA-103) Shefburne Madel RA-306, RA-307 (See Madel RA-306) Shefburne Madel RA-109.A3 -A7 (See Madel RA-109A) Sherbrooke (See Madel RA-109A- (FAS) Sherbrooke (See Madel RA-100A) Somerset (See Madel RA-130A) Somerset II Madel RA-170 (See Madel RA-171) Somerset II Madel RA-171 (See Madel RA-171) (See Madel RA-171) (See Madel RA-171) (See
Rutinad Madali RA-306, RA-307 (See Madel RA-306) Savory (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield (See Madel RA-103) Shefburne Madel RA-306, RA-307 (See Madel RA-306) Shefburne Madel RA-109.A3 -A7 (See Madel RA-109A) Sherbrooke (See Madel RA-109A- (FAS) Sherbrooke (See Madel RA-100A) Somerset (See Madel RA-130A) Somerset II Madel RA-170 (See Madel RA-171) Somerset II Madel RA-171 (See Madel RA-171) (See Madel RA-171) (See Madel RA-171) (See
Reitland Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) (See Model RA-306, RA-307 (See Model RA-306, RA-307 (See Model RA-106, RA-307 (See Model RA-109A) Shefbrooke (See Model RA-109A- FAS) Shefbrooke (See Model RA-107A- FAS) Shefbrooke (See Model RA-107A- FAS) Shefbrooke (See Model RA-107A) Shefbrooke (See Model RA-107A) Strathmore Model RA-117-A1 (See Model RA-117A) (See Model RA-103 (See Model Strate (Madel RA-103 (See Model Strate (See Model RA-103 (See Model
Reitland Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) (See Model RA-306, RA-307 (See Model RA-306, RA-307 (See Model RA-106, RA-307 (See Model RA-109A) Shefbrooke (See Model RA-109A- FAS) Shefbrooke (See Model RA-107A- FAS) Shefbrooke (See Model RA-107A- FAS) Shefbrooke (See Model RA-107A) Shefbrooke (See Model RA-107A) Strathmore Model RA-117-A1 (See Model RA-117A) (See Model RA-103 (See Model Strate (Madel RA-103 (See Model Strate (See Model RA-103 (See Model
Reitland Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) (See Model RA-306, RA-307 (See Model RA-306, RA-307 (See Model RA-106, RA-307 (See Model RA-109A) Shefbrooke (See Model RA-109A- FAS) Shefbrooke (See Model RA-107A- FAS) Shefbrooke (See Model RA-107A- FAS) Shefbrooke (See Model RA-107A) Shefbrooke (See Model RA-107A) Strathmore Model RA-117-A1 (See Model RA-117A) (See Model RA-103 (See Model Strate (Madel RA-103 (See Model Strate (See Model RA-103 (See Model
Rutiand Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield Madel RA-306, RA-307 (See Madel RA-306) Rather Madel RA-109A) Shefborke Madel RA-109A) Shefbrooke (See Madel RA-107A) Somerset 11 Madel RA-170 (See Madel RA-170) Somerset 11 Madel RA-171 (See Madel RA-177) Somerset 11 Madel RA-171 (See Madel RA-177) Somerset 11 Madel RA-173 (See Madel RA-177) Strathmore Madel RA-117-A5 (See Madel RA-117A) Surter Madel RA-117-A1 (See Madel RA-117A) Surter Madel RA-117-A1 (See Madel RA-117A) Surter Madel RA-117-A1 Surter Madel RA-117
Rvitand Madali RA-306, RA-307 (See Madel RA-306) Savey (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield Madel RA-103, RA-307 (See Madel RA-306) Rather Madel RA-109A) Shefborke Madel RA-109A) Shefbrooke (See Madel RA-107A) Shefbrooke (See Madel RA-107A) Shefbrooke (See Madel RA-107A) Shefbrooke (See Madel RA-107A) Shefbrooke (See Madel RA-107A) Somerset II Madel RA-171 (See Madel RA-177A) Somerset II Madel RA-173 (See Madel RA-117A) Surfer Madel RA-117-A5 (See Madel RA-117A) Surfer Madel RA-117-A5 (See Madel RA-113) Tarrytown Madel RA-113-B7, -B8 (See Madel RA-113) Tarrytown (See Madel RA-120) Wachelled Madel RA-165-B3 (See Madel RA-164)
Rvitand Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield Madels RA-306, RA-307 (See Madel RA-106) Sheffield Madels RA-109A) Sheffield Madels RA-109A) Sheffield RA-107A) Somerset II Madel RA-171 (See Madel RA-177) Somerset II Madel RA-177 (See Madel RA-117A) Sumter Madel RA-117-A1 (See Madel RA-117A) Suth Madel RA-113-17 (See Madel RA-113) Tarrytown (See Madel RA-105B) Sutton Madel RA-113-17, -B8 (See Madel RA-113-17, -B8 (See Madel RA-113-17) Tarrytown (See Madel RA-120) Wakefield Madel RA-136-B3 (See Madel RA-137)
Rufland Madalis RA-306, RA-307 (See Model RA-306) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-106) Shefburne Model RA-107A) Shefbrooke (See Model RA-107A) Somerset II Model RA-171 (See Model RA-1770) Somerset II Model RA-171 (See Model RA-1770) Strathmore Model RA-117A1 (See Model RA-177A) Sursex (See Model RA-105A) Sursex (See Model RA-105B) Surton Model (RA-103 (See Model RA-103) Carrytown Model RA-113-B7, -B8 (See Model RA-164) Wokefield Model RA-165-B3 (See Model RA-164) Wokefield Model RA-167 (See Model RA-167) Worken Model RA-167 (See
Rufland Madalis RA-306, RA-307 (See Model RA-306) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-306) Shefburne Model RA-109A) Shefburne Model RA-109A) Shefbrooke (See Model RA-109A) Shefbrooke (See Model RA-109A) Shefbrooke (See Model RA-109A) Shefbrooke (See Model RA-107A) Somerset (See Model RA-107A) Somerset (See Model RA-107A) Somerset (See Model RA-107A) Somerset (See Model RA-107A) Strathmore Model RA-117A) (See Model RA-1770) Somerset (See Model RA-105A) Strathmore Model RA-117A1 (See Model RA-117A) Strathmore Model RA-117A1 (See Model RA-103) Sutton Model (RA-103 (See Model RA-103) Corrytown Model RA-113-87, -88 (See Model RA-105B) Sutton Model RA-164) Wokefield Model RA-165-83 (See Model RA-164) Wokefield Model RA-130, RA-307 (See Model RA-137) Warren Model RA-306, RA-307 (See Model RA-136)
Rufland Madalis RA-306, RA-307 (See Model RA-306) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-306) Shefburne Model RA-109A) Shefburne Model RA-109A) Shefbrooke (See Model RA-109A) Shefbrooke (See Model RA-109A) Shefbrooke (See Model RA-109A) Shefbrooke (See Model RA-107A) Somerset (See Model RA-107A) Somerset (See Model RA-107A) Somerset (See Model RA-107A) Somerset (See Model RA-107A) Strathmore Model RA-117A) (See Model RA-1770) Somerset (See Model RA-105A) Strathmore Model RA-117A1 (See Model RA-117A) Strathmore Model RA-117A1 (See Model RA-103) Sutton Model (RA-103 (See Model RA-103) Corrytown Model RA-113-87, -88 (See Model RA-105B) Sutton Model RA-164) Wokefield Model RA-165-83 (See Model RA-164) Wokefield Model RA-130, RA-307 (See Model RA-137) Warren Model RA-306, RA-307 (See Model RA-136)
Rvitand Medeli RA-306, RA-307 (See Model RA-306) Sovoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-306) Sheffield Models RA-306, RA-307 (See Model RA-109A) Shefbrocke Models RA-109A) Shefbrocke (See Model RA-109A) Shefbrocke (See Model RA-109A) Shefbrocke (See Model RA-107A) Somerset II Model RA-171 (See Model RA-170) Somerset II Model RA-171 (See Model RA-177) Strathmore Model RA-105A) Strathmore Model RA-117-A1 (See Model RA-177) Strathmore Model RA-105B) Sutton Model RA-117-A1 (See Model RA-117A) Sussex (See Model RA-105B) Sutton Model RA-103 (See Model RA-103) Sussex (See Model RA-105B) Sutton Model RA-103 (See Model RA-103) Isrytown (See Model RA-167, -BB (See Model RA-137) Wakefield Model RA-167 (See Model RA-137) Wakefield Model RA-167 (See Model RA-307) Workefield Model RA-306, RA-307 (See Model RA-306, RA-307)
Rufland Madalis RA-306, RA-307 (See Model RA-306) Survoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-306) Shefburne Model RA-107A-1555 (See Model RA-165) Shefbrooke (See Model RA-107A- FAS) Shefbrooke (See Model RA-107A- FAS) Shefbrooke (See Model RA-107A- FAS) Somerset (See Model RA-170 (See Model RA-1770) Somerset (See Model RA-177 (See Model RA-1770) Somerset (See Model RA-177 (See Model RA-1770) Somerset (See Model RA-177A) Srathord (See Model RA-177A) (See Model RA-177A) Strathord (See Model RA-177A) Somerset RA-306 Model RA-177A) Somerset RA-306 Weitlington (See Model RA-1306) Weitlington (See
Rvitand Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield Madels RA-306, RA-307 (See Model RA-306) Ra-307 (See Model RA-106) Sheffield Madels RA-109A) Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-171 (See Model RA-177) Somerset II Model RA-171 (See Model RA-177) Somerset II Model RA-173 (See Model RA-177) Strathmore Model RA-117-A5 (See Model RA-117A) Surfer Model RA-117-A5 (See Model RA-117A) Surfer Model RA-117-A5 (See Model RA-117A) Surfer Model RA-113-B7, -B8 (See Model RA-103) Tarrytown (See Model RA-165-B3 (See Model RA-113) Tarrytown (See Model RA-165-B3 (See Model RA-164) Wakefield Model RA-165-B3 (See Model RA-164) Wakefield Model RA-165-B3 (See Model RA-164) Wakefield Model RA-165-B3 (See Model RA-164) Wakefield Model RA-306, RA-307 (See Model RA-306, RA-307 (See Model RA-306) Weitlington (See Model RA-107A) Weithork Models RA-306, RA-307 (See Model RA-306, RA
Rvitand Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield Madels RA-306, RA-307 (See Model RA-306) Ra-307 (See Model RA-106) Sheffield Madels RA-109A) Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-171 (See Model RA-177) Somerset II Model RA-171 (See Model RA-177) Somerset II Model RA-173 (See Model RA-177) Strathmore Model RA-117-A5 (See Model RA-117A) Surfer Model RA-117-A5 (See Model RA-117A) Surfer Model RA-117-A5 (See Model RA-117A) Surfer Model RA-113-B7, -B8 (See Model RA-103) Tarrytown (See Model RA-165-B3 (See Model RA-113) Tarrytown (See Model RA-165-B3 (See Model RA-164) Wakefield Model RA-165-B3 (See Model RA-164) Wakefield Model RA-165-B3 (See Model RA-164) Wakefield Model RA-165-B3 (See Model RA-164) Wakefield Model RA-306, RA-307 (See Model RA-306, RA-307 (See Model RA-306) Weitlington (See Model RA-107A) Weithork Models RA-306, RA-307 (See Model RA-306, RA
Rufland Madalis RA-306, RA-307 (See Madel RA-306) Sovoy (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield Madels RA-306, RA-307 (See Madel RA-306) Sheffield Madels RA-306, RA-307 (See Madel RA-109A) Shefbore Madel RA-109A) Shefbrooke (See Madel RA-109A) Shefbrooke (See Madel RA-109A) Shefbrooke (See Madel RA-107A) Shefbrooke (See Madel RA-107A) Somerset II Madel RA-107 (See Madel RA-177) Somerset II Madel RA-107A) Strathmer Madel RA-107A) Strathmer Madel RA-107A) Strathmer Madel RA-107A) Sutton Madel RA-107A) Sutton Madel RA-107A) Sutton Madel RA-107B) Sutton Madel RA-107B) Starthmer See Madel RA-107B) Starthmer See Madel RA-107B) Wathfield Madel RA-107B) Wathfield Madel RA-306, RA-307 (See Madel RA-306) Wethington (See Madel RA-107A) Wetwork Madels RA-306, RA-307 (See Madel RA-306) Wethington (See Madel RA-107A) Wetwork I (See Madel RA-107A)
Rvitand Models Ra-306, RA-307 (See Model RA-306) Savoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-306) Shefborne Model RA-109A3 - A7 (See Model RA-109A) Shefbrooke (See Model RA-109A- FAS) Shefbrooke (See Model RA-109A) Shefbrooke (See Model RA-109A) Shefbrooke (See Model RA-107A) Somerset (See Model RA-107A) Somerset (See Model RA-107A) Strathmore Model RA-177A) Somerset (See Model RA-107A) Strathmore Model RA-177A) Somerset (See Model RA-105A) Strathmore Model RA-117-A1 (See Model RA-177A) Somerset (See Model RA-105A) Strathmore Model RA-117-A1 (See Model RA-117A) Sutton Model (RA-103 (See Model RA-103) Corrytown Models RA-105B) Sutton Model (RA-105B) Sutton Model (RA-164) Model RA-164) Wokefield Model RA-120 (See Model RA-130, RA-307) (See Model RA-130, RA-307) Wortwick Models RA-306, RA-307 (See Model RA-306) Weitington (See Model RA-1305) Weitbrook Model RA-130, RA-307 (See Model RA-306) Weitbrook Model RA-130, RA-307 (See Model RA-306) Weitbrook Model RA-105A) Weitbrook (See Model RA-1105A) Weitbrook (See Model RA-1104)
Rvitand Madali RA-306, RA-307 (See Madel RA-306, RA-307 (See Madel RA-103) Sheffield (See Madel RA-103) Sheffield Madels RA-306, RA-307 (See Madel RA-306) Sheffield Madels RA-306, RA-307 (See Madel RA-109A) Shefborne Madel RA-169A) Shefbroeke (See Madel RA-109A) FAS) Shefbroeke (See Madel RA-109A) FAS) Shefbroeke (See Madel RA-171 (See Madel RA-170) Somerset II Madel RA-171 (See Madel RA-177) Strathmar Madel RA-117-A1 (See Madel RA-177) Strathmar Madel RA-117-A1 (See Madel RA-177) Strathmar Madel RA-117-A1 (See Madel RA-177) Sutton Madel (RA-117-A1 (See Madel RA-117A) Sutton Madel (RA-117-A1 (See Madel RA-117A) Sutton Madel (RA-103) Strathmar Madel RA-117-A1 (See Madel RA-117A) Sutton Madel (RA-103) Strathmar Madel RA-117-A1 (See Madel RA-117A) Sutton Madel RA-117-A1 (See Madel RA-107) (See Madel RA-107 (See Madel RA-107) (See Madel RA-306, RA-307 (See Madel RA-306, RA-307 (See Madel RA-306) Wettington (See Madel RA-107A) Wettington (See Madel RA-107A)
Rufland Madalis RA-306, RA-307 (See Model RA-306) Sorvoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-103, RA-307 (See Model RA-306) Sheffield Models RA-109, RA-307 (See Model RA-109A) Sheffield Models RA-109A, A7 (See Model RA-109A) Sheffield RA-109A) Sheffield RA-109A) Sheffield RA-109A) Sheffield RA-109A) Sheffield RA-109A) Sheffield RA-109A) Sheffield RA-107A) Somerset II Model RA-170 (See Model RA-170) Somerset II Model RA-171 (See Model RA-177) Somerset II Model RA-105A) Strathmore Model RA-117-A1 (See Model RA-177) Strathmore Model RA-117-A1 (See Model RA-177) Strathmore Model RA-117-A1 (See Model RA-103) Sutton Model (RA-103 (See Model RA-103) Corrytown Models RA-105B) Sutton Model (RA-103 (See Model RA-103) Corrytown Models RA-13-65B) (See Model RA-164) Wokefield Model RA-127) Wortwon Models RA-136, RA-307 (See Model RA-136) Weithington (See Model RA-1306) Weithington (See Model RA-1306) Weithington (See Model RA-1306) Weithington (See Model RA-1306) Weithington (See Model RA-105A) Weithington (See Model RA-105A)
Rufland Medeli Ra-306, RA-307 (See Model RA-306) Sorvoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-103, RA-307 (See Model RA-306) Sheffield Models RA-109A) Sheffield Models RA-109A) Sheffield Model RA-167A) Sheffield RA-164 (See Model RA-109A) Sheffield RA-164 Sheffield RA-164 Sheffield RA-164 Sheffield RA-174) Somerset (See Model RA-170 (See Model RA-170) Somerset II Model RA-171 (See Model RA-177) Somerset II Model RA-171 (See Model RA-177) Strathmer Model RA-171 (See Model RA-171) Strathmer Model RA-171 (See Model RA-173) Strathmer Model RA-105A) Strathmer Model RA-105B) Sutton Model RA-117-A1 (See Model RA-117A) Susset (See Model RA-105B) Sutton Model RA-113-B7, -B8 (See Model RA-113-B7, -B8 (See Model RA-164) Wokefield Model RA-165-B3 (See Model RA-306) Weitlington (See Model RA-165-B3) (See Model RA-136) Weitlington (See Model RA-136) Weitlington (See Model RA-107) (See Model RA-306) Weitlington (See Model RA-107) Werthury II (See Model RA-107) Weithury II (See Model RA-107)
Rvitand Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Model RA-103) Sheffield See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-306) Sheffield Models RA-306, RA-307 (See Model RA-109A) Sheffield Model RA-169A) Sheffield RA-163 Sheffield RA-169A) Sheffield RA-169A) Sheffield RA-169A) Sheffield RA-169A) Sheffield RA-167 (See Model RA-109A) Sheffield RA-177 (See Model RA-177) Somerset II Model RA-177 (See Model RA-177) Somerset II Model RA-177 (See Model RA-177) Strathmore Model RA-117-A1 (See Model RA-177) Strathmore Model RA-117-A1 (See Model RA-177) Sutton Model (RA-117-A1 (See Model RA-117A) Sutton Model (RA-117-A1 (See Model RA-117A) Sutton Model (RA-103 (See Model RA-103) Tarrytown (See Model RA-165-B3 (See Model RA-117) Tarrytown (See Model RA-165-B3 (See Model RA-165-B3 (See Model RA-165-B3 (See Model RA-165-B3 (See Model RA-165-B3 (See Model RA-165-B3 (See Model RA-307) (See Model RA-306, RA-307 (See Model RA-306, RA-307 (See Model RA-306, RA-307 (See Model RA-306) Wettingto (See Model RA-105A) Wettingto (See Model RA-105A)
Rutiand Madali RA-306, RA-307 (See Madel RA-306) Sovoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-306, RA-307 (See Model RA-306) Sheffield Models RA-306, RA-307 (See Model RA-109A) Sheffield Models RA-109A) Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-163 Sheffield RA-171 (See Model RA-170) Somerset II Model RA-177 (See Model RA-177) Somerset II Model RA-177 (See Model RA-177) Strathmore Model RA-117-A1 (See Model RA-177) Strathmore Model RA-117-A1 (See Model RA-177) Strathmore Model RA-117-A1 (See Model RA-177) Sutton Model (RA-117-A1 (See Model RA-117A) Sutton Model (RA-117-A1 (See Model RA-117A) Sutton Model (RA-103 (See Model RA-103) Tarrytown (See Model RA-165-B3 (See Model RA-117) 'Gee Model RA-165-B3 (See Model RA-165-B3 (See Model RA-165-B3 (See Model RA-307) Warkefield Model RA-165-B3 (See Model RA-306) Wathight (See Model RA-107 (See Model RA-307) (See Model RA-306, RA-307 (See Model RA-306, RA-307 (See Model RA-306, RA-307) (See Model RA-306) Weitingto (See Model RA-107A) Weitingto (See Model RA-107A) Whiteholl II (See Model RA-107A) Whiteholl II (See Model RA-107A) Whiteholl II (See Model RA-107A) Witehold (See Model RA-107A) Whiteholl II (See Model RA-107A) Whiteholl II (See Model RA-107A) Witeholl II (See Model RA-107A) Whiteholl II (See Model RA-107A) Whit
Rvitand Medeli Ra-306, RA-307 (See Model RA-306) Savoy (See Model RA-103) Sheffield (See Model RA-103) Sheffield Models RA-103, Sheffield Models RA-103, Sheffield Ka-1064 (See Model RA-1064) Sheffield Model RA-107A] Sheffield Model RA-107A] Sheffield RA-107A] Somerset II Model RA-107A] Somerset II Model RA-107A] Strathmore Model RA-105A) Strathmore Model RA-105A) Strathmore Model RA-105B] Surton Model (RA-103) Surtes Andel (RA-105B) Surton Model RA-113-B7, -B8 (See Model RA-103) See Model RA-107] Workfield Model RA-105 (See Model RA-164) Wokefield Model RA-105 (See Model RA-167) Workfield Model RA-107 (See Model RA-167) Workfield Model RA-107 (See Model RA-166) Weltington (See Model RA-107) (See Model RA-106) Weltington (See Model RA-107) Wertwork Models RA-306, RA-307 (See Model RA-306) Weltington (See Model RA-105A) Weithrook Model RA-105A) Weithehill (See Model RA-105A) Weithehill (See Model RA-105A) Whitehall II See Model RA-105A) Whitehall II See Model RA-105A) Whitehall II See Model RA-105A) Whitehall II See Model RA-105A) Withrook II I Model RA-162-B1 (See Model RA-1052) Withold II Model RA-162-B1 (See Model RA-1052) Withrook II See Model RA-105A) Whitehall II See Model RA-105A) Whitehall II See Model RA-105A) Whitehall II See Model RA-105A) Withrook II I See Model RA-105A) Whitehall II See Model RA-105A) Withrook RA-105A)

DUNDUT CLOU	
DUMONT-Cont. Winslow Model RA-109-AI	, -A5 •
(See Model RA-109A) Winthrop Model RA-103 (See RA-103)	
DUOSONIC K1, K2	19-15
K3, K4	19-16
DYNAVOX AP-514 (Ch. AT)	28-9
M-510	15 <u>8</u> 27 <u>7</u> 7
M-510 Swingmaster 3-P-801	36-3
ECA	
101 (Ch. AA) 102	1-25
104	13-14 16-11
106	7-10
121 131 132	13-15 16-12
132 201	45-9
204	32-5
ECHOPHONE (Also see Hallicrafters)	3-13 148 22-14
EC-113	3-13
	22-14 4-18
TC-600 EX-102, EX-103 EX-306 (See Model EC-30	645
14-8)	0-361
EDWARDS	
Fidelotuner	33-4
(Also see Recorder Listin	1g) 356
EKOTAPE	0
(See Recorder Listing)	
ELCAR 602	5-19
ELECTONE	
T5T53	12-34
ELECTRO B-20	14_9
ELECTROMATIC	
APH301-A, APH301-C	7-11 5-32
ELECTRO-TONE	•
555 706, 712 (See Model 555-5	13-17 iet 13-
16)	
ELECTRO-VOICE	285-10
3300 Tel. UHF Conv	22-5
ELECTRONIC CORP. OF	
AMERICA (See ECA)	
AMERICA (See ECA) ELECTRONIC SPECIALTY	
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger)	
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.)	co,
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 76E, K, M, W (See Model) Set 4.28)	20 _6 2701_
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/1 (ELECTRONIC LABS.) 75 (Sub-Station) 76E, K, M, W (See Model 3 54 4-29) 76BU ("Radio-Utiliphone") 70B, 710M, 710T, 710W,	20_6 2701_ 20_6 Orthe-
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/1 (ELECTRONIC LABS.) 75 (Sub-Station) 76E, K, M, W (See Model 3 54 4-29) 76BU ("Radio-Utiliphone") 70B, 710M, 710T, 710W,	20 _6 2701_ 20 _6 Ortho- 20 _7
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Stotion) 76 (E, M, W) (See Model 54: 4-28) 76 (U ("Redio-Utiliphone") 70 (DR), 7100M, 71017, 7100W, ponic (Ch. 2875) 710PB, 710PC Orthosonic 2860 "Moster Utiliphone".	20-6 2701- 20-6 0rtho- 20-7 (Ch. 24-16 8-8
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 76F, K, M, W [See Model 1 Set 4-28) 768U ("Redio-Utilphone") 7108, 710M, 710T, 710W, sonic (Ch. 2875) 710PB, 710PC Orthesonic 2887)	20 _6 2701_ 20 _6 Ortho- 20 _7
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 76E, K, M, W (See Model) 76E, K, M, W (See Model) 76B, 71040, 7107, 710W, 7108, 71040, 7107, 710W, 7098, 710PC Orthonolic 2660 'Master Utiliphone' 2701 Master Utiliphone' 2701 Master Stational 2660 Orthonolic EMERSON	20_6 2701_ 20_6 0rtho- 20_7 (Ch. 24_16 8_8 4_28 31_10
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Stotion) 76 (S	CO, 20-6 2701- 20-6 270-7 (Ch. 24-16 8-28 31-10 029) 2-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Stotion) 76 (S	CO, 20-6 2701- 20-6 270-7 (Ch. 24-16 8-28 31-10 029) 2-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Stotion) 76 (S	CO, 20-6 2701- 20-6 270-7 (Ch. 24-16 8-28 31-10 029) 2-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 76 (S. M., W (See Model 1 Set 4-28) 768U ("Redio-Utilphone") 7108, 710M, 710T, 710W, sonic (Ch. 127) 2860 ("Master Utiliphone") 700 287) 2600 ("Master Utiliphone") 2000 Orthosonic EMERSON 501, 502 (Ch. 120000, 1200 503 (Ch. 120000, 1200 503 (Ch. 120001, 1200 505 (Ch. 120002) 505 (Ch. 120002) 50	CO, 20_6 2701- 20_6 0rthe- 20-7 (Ch. 20-7 (Ch. 20-8 8-8 8-8 31-10 029) 1-18 2-1 1-18 2-9 lef 523 6-9
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 76E, K, My W (See Model) 501 (*Radio-Utiliphone") 7108, 7109C Orthousine 2660 'Master Utiliphone", 7000 Orthousine EMERSON 501, 502 (Ch. 120000, 120029) 503 (Ch. 120000, 120029) 505 (Ch. 120000, 12000) 505 (Ch. 120000, 12000) 505 (Ch. 120000, 12000) 505 (Ch. 120000) 505 (C	CO, 20_6 2701- 20_6 0rthe- 20-7 (Ch. 20-7 (Ch. 20-8 8-8 8-8 31-10 029) 1-18 2-1 1-18 2-9 lef 523 6-9
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 75, (S., B. W (See Model) 76, K, B. W (See Model) 710, 7100, 7107, 710W, 7108, 7104W, 7107, 710W, 7108, 7104W, 7107, 710W, 71078, 710PC Orthosonic 2600 'Moder Utiliphone''. 2701 Moder Utiliphone''. 2701 Moder Utiliphone''. 2701 Moder Utiliphone''. 2701 Moder Utiliphone''. 2701 Moder Utiliphone''. 2701 Moder Utiliphone''. 2703 (Ch. 120000, 120029) 503 (Ch. 120000, 120029) 505 (Ch. 120000, 120029) 505 (Ch. 120000, 120029) 505 (Ch. 120001, 120029) 505 (Ch. 120000, 12000) 505 (Ch. 120000, 12000) 505 (Ch. 120000, 12000) 505 (Ch. 120000, 12000) 505 (Ch. 120000) 505 (Ch. 120000) 505 (Ch. 120000) 505 (Ch. 120000) 505 (Ch. 1	CO, 20_6 2701- 20_6 0rthe- 20_7 (Ch. 20_7) (Ch. 20_7) (Ch. 20_7) (Ch. 20_7) (Ch. 20_7) (Ch. 20_7) (Ch. 20_7) (Ch. 20_7) (Ch. 20_7) (Ch. 20_7) (Ch.
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 76 (S. M. W (See Model 1 Set 4-28) 700 ("Radio-Utilphone") 7108, 710M, 7101, 710W, sonic (Ch. 12875) 710PB, 710PC Orthesonic 2887) 2640 ("Master Utiliphone") 700 Orthesonic EMERSON 501, 502 (Ch. 120000, 120029) 504 (Ch. 120000, 120029) 505 (Ch. 120002) 505 (Ch. 120002) 507 508 (Ch. 120008) 509	CO, 20-6 2701- 20-7 20-7 (Ch. 24-16 2-7 24-16 4-28 31-10 2-1 1-18 2-9 8-9 4-28 31-10 020) 2-1 1-18 2-9 8-9 8-10 7-12 8-10 8-10 7-12 8-10 8-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 76 (Sub Stotion) 76 (Sub Stotion) 77 (Sub Stotion) 78 (S	CO, 20—6 2701— 20—6 0rtho- 20—7 (Ch. 24—16 8—8 4—28 31—10 029) 2—1 1—18 2—9 8—9 8—10 9—10
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 76 (Sub Stotion) 76 (Sub Stotion) 77 (Sub Stotion) 78 (S	CO, 20—6 2701— 20—6 0rtho- 20—7 (Ch. 24—16 8—8 4—28 31—10 029) 2—1 1—18 2—9 8—9 8—10 9—10
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 76 (Sub Stotion) 76 (Sub Stotion) 77 (Sub Stotion) 78 (S	CO, 20—6 2701— 20—6 0rtho- 20—7 (Ch. 24—16 8—8 4—28 31—10 029) 2—1 1—18 2—9 8—9 8—10 9—10
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Storion) 	CO, 20—6 2701— 20—6 0rtho- 20—7 (Ch. 24—16 8—8 4—28 31—10 029) 2—1 1—18 2—9 8—9 8—10 9—10
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Storion) 	CO, 20—6 2701— 20—6 0rtho- 20—7 (Ch. 24—16 8—8 4—28 31—10 029) 2—1 1—18 2—9 8—9 8—10 9—10
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Storion) 	CO. 20—6 2701— 20—6 20—7 (Ch. 24—16 8—8 4—28 31—10 20-11 1—18 24—16 8—9 8—10 7—12 8—10 8—10 7—12 26—11 20—1 20—1 20—1 20—6 1—10 1—1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 75 (Sub-Station) 76K (K, W, See Model Sat 4-28) 76K (Kadio-Utilphone') 710B, 710M, 7101, 710W, 10PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 710PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 701 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 (Ch. 120000, 120029) 905 (Ch. 120000, 120029) 917 (Ch. 120030, 120029) 918 919 (Ch. 120030, 120029) 921 (Ch. 120000, 120029)	CO, 20-6 2701 20-6 0rrhe- 20-7 (Ch. 24-16 8-8 4-28 31-10 20-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 2-1 1-18 2-1 2-1 2-1 2-1 2-1 2-1 2-1 2-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 75 (Sub-Station) 76K (K, W, See Model Sat 4-28) 76K (Kadio-Utilphone') 710B, 710M, 7101, 710W, 10PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 710PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 701 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 (Ch. 120000, 120029) 905 (Ch. 120000, 120029) 917 (Ch. 120030, 120029) 918 919 (Ch. 120030, 120029) 921 (Ch. 120000, 120029)	CO, 20-6 2701 20-6 0rrhe- 20-7 (Ch. 24-16 8-8 4-28 31-10 20-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 2-1 1-18 2-1 2-1 2-1 2-1 2-1 2-1 2-1 2-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 75 (Sub-Station) 76K (K, W, See Model Sat 4-28) 76K (Kadio-Utilphone') 710B, 710M, 7101, 710W, 10PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 710PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 701 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 (Ch. 120000, 120029) 905 (Ch. 120000, 120029) 917 (Ch. 120030, 120029) 918 919 (Ch. 120030, 120029) 921 (Ch. 120000, 120029)	CO, 20-6 2701 20-6 0rrhe- 20-7 (Ch. 24-16 8-8 4-28 31-10 20-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 2-1 1-18 2-1 2-1 2-1 2-1 2-1 2-1 2-1 2-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 75 (Sub-Station) 76K (K, W, See Model Sat 4-28) 76K (Kadio-Utilphone') 710B, 710M, 7101, 710W, 10PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 710PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 701 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 (Ch. 120000, 120029) 905 (Ch. 120000, 120029) 917 (Ch. 120030, 120029) 918 919 (Ch. 120030, 120029) 921 (Ch. 120000, 120029)	CO, 20-6 2701 20-6 0rrhe- 20-7 (Ch. 24-16 8-8 4-28 31-10 20-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 2-1 1-18 2-1 2-1 2-1 2-1 2-1 2-1 2-1 2-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 75 (Sub-Station) 76K (K, W, See Model Sat 4-28) 76K (Kadio-Utilphone') 710B, 710M, 7101, 710W, 10PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 710PB, 710PC Orthosonic 2857) 2650 'Master Utiliphone' 701 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 'Master Utiliphone' 2650 (Ch. 120000, 120029) 905 (Ch. 120000, 120029) 917 (Ch. 120030, 120029) 918 919 (Ch. 120030, 120029) 921 (Ch. 120000, 120029)	CO, 20-6 2701 20-6 0rrhe- 20-7 (Ch. 24-16 8-8 4-28 31-10 20-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 2-1 1-18 2-1 2-1 2-1 2-1 2-1 2-1 2-1 2-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) F/L (ELECTRONIC LABS.) 75 (Sub-Stotion) Set 0.428 7680 ("Redio-Utiliphone") 7108, 7104, 7107, 7107, ronic (Ch. 2873) 3000 Orthesonic 2887) / JOPC Orthesonic 2887 / JOPC Orthesonic 2900 / Ch. 120000, 120029) 503 (Ch. 120008) 504 (Ch. 120008) 505 / JOPC / JOP	CO, 20-6 2701 20-6 0rrhe- 20-7 (Ch. 24-16 8-8 4-28 31-10 20-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 1-18 2-1 2-1 2-1 1-18 2-1 2-1 2-1 2-1 2-1 2-1 2-1 2-1
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) F/L (ELECTRONIC LABS.) 76 (Sub-Storian) 76 (Sub-Storian) 76 (Sub-Storian) 76 (Sub-Storian) 76 (Sub-Storian) 76 (Sub-Storian) 76 (Sub-Storian) 70 (Sub-Storian) 71 (Sub-Storian) 71 (Sub-Storian) 72 (Sub-Storian) 73 (Sub-Storian) 74 (Sub-Storian) 75 (Sub-Storian) 75 (Sub-Storian) 75 (Sub-Storian) 75 (Sub-Storian) 75 (Sub-Storian) 75 (Sub-Storian) 75 (Sub-Storian) 76 (Sub-Storian) 76 (Sub-Storian) 77 (Sub-Storian) 78 (Sub-Storian) 78 (Sub-Storian) 79 (Sub-Storian) 79 (Sub-Storian) 70 (Sub-Storian) 70 (Sub-Storian) 70 (Sub-Storian) 70 (Sub-Storian) 70 (Sub-Storian) 70 (Sub-Storian) 70 (Sub-Storian) 70 (Sub-Storian) 71 (Sub-Storian) 72 (Sub-Storian) 72 (Sub-Storian) 73 (Sub-Storian) 74 (Sub-Storian) 75 (Sub-Storian) 75 (Sub-Storian) 75 (Sub-Storian) 76 (Sub-Storian) 76 (Sub-Storian) 77 (Sub-Storian) 78 (S	CO. 20-6 2701- 20-6 0710- 20-7 (Ch. 24-16 8-8 4-28 31-10 20-1 2-1 1-18 -29 8-10 8-10 8-10 8-10 9-12 26-11 8-10 8-10 9-12 26-11 1-18 8-10 8-27-8 8-10 8-10 8-10 8-27-8 8-10 8-10 8-10 8-27-8 8-10 8-10 8-27-8 8-10 8-27-8 8-27-8 8-10 8-27-8
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 76E, K, W, W (See Model) 561 4.28) 501 4.28) 501 4.28) 502 (C. 2873) 7089, 710PC Orthousic 2600 'Moster Utiliphone' 2701 Moster Utiliphone' 2701 Moster Utiliphone' 2701 Moster Utiliphone' 2701 Moster Utiliphone' 2701 Jone, 7107 Orthousic 2600 'Moster Utiliphone' 2701 Jone, 7107 Orthousic 2600 'Moster Utiliphone' 2701 Jone, 7107 Orthousic 2701 Moster Utiliphone' 2701 Jone, 7107 Orthousic 2701 Moster Utiliphone' 2701 Jone, 7107 Orthousic 2701 Moster Utiliphone' 2701 Jone, 7107 Orthousic 2701 Jone, 7107 Orthousic 2701 Jone, 7107 Orthousic 2702 Jone, 7107 Orthouse 503 (Ch. 120000, 120029) 503 (Ch. 120010) (See Moc —Set 16-13) 514 (Ch. 12003) 515, 516 (Ch. 12003) 517 (Ch. 12003) 518 Jone (Ch. 12003) 520 (Ch. 12003) 521 (Ch. 12003) 522 (Ch. 12003) 523 Jone (Ch. 12003) 524 Jone (Ch. 12003) 524 Jone (Ch. 12003) 525 Jone (Ch. 12003) 526 (Ch. 12003) 527 Jone (Ch. 12003) 528 (Ch. 12003) 529 Jone (Ch. 12003) 520 (Ch. 12003) 521 Jone (Ch. 12003) 523 Jone (Ch. 12003) 524 Jone (Ch. 12003) 525 Jone (Ch. 12003) 526 Jone (Ch. 12003) 527 Jone (Ch. 12003) 528 Jone (Ch. 12003) 529 Jone (Ch. 12003) 520 Jone (Ch. 12003) 521 Jone (Ch. 12003) 523 Jone (Ch. 12003) 524 Jone (Ch. 12003) 525 Jone (Ch. 12003) 526 Jone (Ch. 12003) 527 Jone (Ch. 12003) 528 Jone (Ch. 12003) 529 Jone (Ch. 12003) 520 Jone (Ch. 12003) 520 Jone (Ch. 12003) 521 Jone (Ch. 12003) 522 Jone (Ch. 12003) 523 Jone (Ch. 12003) 524 Jone (Ch. 12003) 525 Jone (Ch. 12003) 526 Jone (Ch. 12003) 527 Jone (Ch. 12003) 528 Jone (Ch. 12003) 529 Jone (Ch. 12003) 520 Jone (Ch. 12003) 520 Jone (Ch. 12003) 520 Jone (Ch. 12003) 521 Jone (Ch. 12003) 522 Jone (Ch. 12003) 523 Jone (Ch. 12003) 533 Jone (Ch. 12003) 534 Jone (Ch. 12003) 535 Jone (C	20-6 2701 20-6 20-7 (Ch. 24-16 8-8 4-28 31-10 029) 2-1 1-18 8-9 8-10 029) 2-1 8-10 20029) 2-11 8-10 20029) 2-12 8-10 20029) 2-11 26-11 26-11 26-11 26-11 26-11 26-11 26-11 26-11 27-6 20-9 21-14 27-6 20-9 21-14
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 76 (Sub Storion) 76 (Sub Storion) 70 (Sub Storion) 71 (Sub Storion) 71 (Sub Storion) 72 (Sub Storion) 73 (Sub Storion) 73 (Sub Storion) 74 (Sub Storion) 75 (Sub Storion) 75 (Sub Storion) 75 (Sub Storion) 75 (Sub Storion) 75 (Sub Storion) 75 (Sub Storion) 76 (Sub Storion) 77 (Sub Storion) 78 (Sub Storion) 78 (Sub Storion) 79 (Sub Storion) 70 (Sub Storion) 70 (Sub Storion) 70 (Sub Storion) 71 (Sub Storion) 72 (Sub Storion) 73 (Sub Storion) 74 (Sub Storion) 75 (S	CO, 20-6 2701- 20-6 0710- 20-7 (Ch. 24-16 8-8 4-28 31-10 2029) 2-1 1-18 1-18 2-1 8-9 8-9 8-9 8-10 7-12 8-10 8-10 7-12 8-10 12-11 26-11 2079 7-13 8-10 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 12-11 26-11 27-8 20-7 (Ch. 27-9 26-11 27-8 20-7 (Ch. 27-9 27-18 27-18 27-18 27-18 27-19 27-18 27-19 27-18 27-19 27-18 27-19 27-18 27-19 27-18 27-19 27-29 27-19 27-19 27-19 27-29 27-19 27-19 27-19 27-29 27-19
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 76E, K, My W (See Model) 581 (*Radio-Utiliphone") 7108, 71040, 7101, 710W, 7108, 71040, 7101, 710W, 7108, 71040, 7101, 710W, 71098, 71040, 7101, 710W, 71098, 71040, 7101, 710W, 71098, 71040, 7101, 710W, 7000, 71040, 7101, 710W, 7000, 71040, 7101, 710W, 7000, 71040, 710, 710W, 7000, 71040, 710, 710W, 7000, 71040, 710, 710W, 7000, 71040, 710W, 7000, 71040, 710W, 7000, 71000, 120029) 503 (Ch. 120000, 120029) 503 (Ch. 120000, 120029) 505 (Ch. 120008) 504 (Ch. 120008) 505 (Ch. 120008) 505 (Ch. 120008) 506 (Ch. 120000, 120056) 515, 516 (Ch. 120056) 515, 516 (Ch. 120056) 516, 512 (Ch. 120036) 517 (Ch. 120000, 120029) 520 (Ch. 120000, 120029) 521 (Ch. 120000, 120029) 522 (Ch. 120000, 120029) 523 (Ch. 120000, 120029) 524 (Ch. 120006, Ch. 1 534 (Ch. 120006, Ch. 1 534 (Ch. 120007) 535 (Ch. 120007) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120037) 536 (Ch. 120037) 536 (Ch. 120036) 536 (Ch. 120037) 537 (Sh. 120037) 538 (Ch. 120037) 539 (Ch. 120037) 539 (Ch. 120037) 530 (Ch. 120037) 530 (Ch. 120037) 530 (Ch. 120037) 531 (Sh. 120037) 532 (Sh. 120037) 534 (Ch. 120037) 535 (Sh. 120037) 535 (Sh. 120037) 536 (Ch. 120037) 537 (Sh. 120037) 538 (Ch. 120037) 539 (Ch. 120037) 530 (Ch. 120037)	CO. 20-6 2701- 20-6 07nho- 20-7 (Ch. 24-16 8-8 4-28 31-10 2091 2-1 1-18 9-9 10-29 2-1 1-18 9-9 10-29 10-29 2-1 1-18 9-12 2-11 22-13 8-10 20029 22-11 22-11 22-13 8-10 20029 22-11 22-11 22-13 8-10 20029 22-11 22-11 22-13 8-10 20029 22-11 22-11 22-13 8-10 20029 22-11 22-11 22-13 8-10 20029 22-11 22-11 22-13 8-10 20029 22-11 22-11 22-13 8-10 20029 22-11 22-11 22-13 8-10 20029 22-11 22-11 22-13 8-10 20029 22-11 22-13 8-10 20029 22-11 22-13 8-10 20029 22-11 22-13 8-10 20029 22-11 22-13 8-10 20029 22-11 22-13 8-10 20029 22-11 22-13 8-10 20029 22-11 22-13 8-10 20029 22-11 22-13 8-10 20029 22-11 22-13 8-10 20029 22-13 8-10 20029 22-13 8-10 20029 20-7 8-10 20029 20-7 8-10 20029 20-7 8-10 20029 20-7 8-10 20029 20-7 8-10 20029 20-7 8-10 20-7 20-8 20-9 21-13 8-10 27-8 20-9 21-14 22-13 8-10 27-8 20-9 21-14 22-13 8-10 27-8 20-9 21-14 22-13 8-10 27-8 20-9 21-14 22-13 8-10 27-8 20-9 21-14 22-13 8-10 27-8 20-9 21-14 22-
AMERICA (See ECA) ELECTRONIC SPECIALTY (See Ranger) E/L (ELECTRONIC LABS.) 75 (Sub-Station) 76E, K, My W (See Model) 581 (*Radio-Utiliphone") 7108, 71040, 7101, 710W, 7108, 71040, 7101, 710W, 7108, 71040, 7101, 710W, 71098, 71040, 7101, 710W, 71098, 71040, 7101, 710W, 71098, 71040, 7101, 710W, 7000, 71040, 7101, 710W, 7000, 71040, 7101, 710W, 7000, 71040, 710, 710W, 7000, 71040, 710, 710W, 7000, 71040, 710, 710W, 7000, 71040, 710W, 7000, 71040, 710W, 7000, 71000, 120029) 503 (Ch. 120000, 120029) 503 (Ch. 120000, 120029) 505 (Ch. 120008) 504 (Ch. 120008) 505 (Ch. 120008) 505 (Ch. 120008) 506 (Ch. 120000, 120056) 515, 516 (Ch. 120056) 515, 516 (Ch. 120056) 516, 512 (Ch. 120036) 517 (Ch. 120000, 120029) 520 (Ch. 120000, 120029) 521 (Ch. 120000, 120029) 522 (Ch. 120000, 120029) 523 (Ch. 120000, 120029) 524 (Ch. 120006, Ch. 1 534 (Ch. 120006, Ch. 1 534 (Ch. 120007) 535 (Ch. 120007) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120036) 536 (Ch. 120037) 536 (Ch. 120037) 536 (Ch. 120036) 536 (Ch. 120037) 537 (Sh. 120037) 538 (Ch. 120037) 539 (Ch. 120037) 539 (Ch. 120037) 530 (Ch. 120037) 530 (Ch. 120037) 530 (Ch. 120037) 531 (Sh. 120037) 532 (Sh. 120037) 534 (Ch. 120037) 535 (Sh. 120037) 535 (Sh. 120037) 536 (Ch. 120037) 537 (Sh. 120037) 538 (Ch. 120037) 539 (Ch. 120037) 530 (Ch. 120037)	CO. 20-6 2701- 20-6 07nho- 20-7 (Ch. 24-16 8-8 4-28 31-10 029) 2-1 1-18 31-10 029) 2-1 1-18 9-12 9-13 20-10 12-11 22-11 8-9 12-11 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-11 22-11 22-11 22-11 22-13 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-11 22-11 22-11 22-13 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-12 8-10 22-13 22-14 22-13 22

INTRON CON
EMERSON-Cont. •545 (Ch. 120047) Photofact Servi-
140 (ch. 120049) 100 12 547 (ch. 120049) 15 13 548 (ch. 120051) 30 36 549 (ch. 120051) 26 13 550 (ch. 120051) 26 15 550 (ch. 120051) 26 13 550 (ch. 120056) 26 14 550 (ch. 120056) 26 14
547A (Ch. 120050). 25-13 548 (Ch. 120051). 30-8 549 (Ch. 120051). 26-12
550 (Ch. 120006) (See Model 512
550 (Ch. 120056)
552A 24 17
557B (Ch. 120048B) 43-10
558 [CR. 120038]
3594 [Ch. 120059] 31-12 560 [Ch. 120016] 25-14 561 [Ch. 1200018] 63-7 563 [Ch. 1200638] 73-4 564 [Ch. 120027] [San Model 5404]
563 (Ch. 1200638)73-4 564 (Ch. 120027) (See Model 540A Set 20-10) 565 (Ch. 1200188)70-4
-Set 26-12) 567 (Ch. 120016) (See Model 560
567 (Ch. 120016) (See Model 560 Set 25-14) 567 (Ch. 120042) (See Model 540A —Set 20-10) 568 (Ch. 120070A)
-Set 20-10) 568A (Ch. 120070A)
569A (Ch. 120062A) 42-10 570 (Ch. 120064) 97-3
• 571 (Ch. 120066)
C-+ 20 101
• 571 (Ch. 1200868)
83
578 [Ch. 120050] (See Model 547A —Set 25-13) 579A (Ch. 120034A) 61—6
584 (See Model 558Set 31-11)
586 (Ch. 1200238, 1200838) 72-9 587 (Ch. 120033A, 8) 71-16 588 (See Model 547A-Set 25-13)
591 (Ch. 120055A)
370
597 (Ch. 120073B3)
0 876
601 (Ch. 120075B)
407 (CL 1000409) 73 4
605 (Ch. 1200768)
● 606 (Ch. 1200868-D) 76-11 ● 606 (Ch. 1200868-D) 76-11
607 (Ch. 120074A) 90-5 •608A (Ch. 1200898) 84-6
•609 (Ch. 120084-B) 906 610 (Ch. 120100A, B) 71-10
611, 612 (Ch. 1200878-D) 76-11 6134 (Ch. 1200854 B) 79-7
615 (Ch. 1200018)
e619 (Ch. 120092D) 76-11
■620 (Ch. 120091D-QD)76–11 €21 (Ch. 120098B)108–5 622 (Ch. 120098P)108–5 623 (Ch. 120101A, B)87–5 624 (Ch. 120087B-D)76–11 625 (Ch. 1201058)103–8
622 (Ch. 120098) 108-5 623 (Ch. 1200878-0) 08-5 624 (Ch. 1200878-0) 76-11 625 (Ch. 1200878-0) 76-11 626 (Ch. 1201048, 1201048) 1201048
●627 (Ch. 120107B)
●628 (Ch. 1200988)
■226 (ch. 1201048, 1201048, 1201048) ■627 (ch. 1201078). 76-11 ●627 (ch. 1200988). 108—5 ●629 (ch. 120128). 118—5 ●629 (ch. 120128). 119—6 ●6290 (ch. 120129). 119—6 ●630 (ch. 1201098. 108—5 ●631 (ch. 1201098. 108—5 ●631 (ch. 1201098. 193A—7 ●632 (ch. 1200988). 111—6 ●634 (ch. 1201098). 93A—6 ●634 (ch. 1201098). 93A—7 ●635 (ch. 1201098). 92—7 ●637, 8, 8C, C (ch. 120110, 8, 8C, ●74 ●74 ●74
•629D (Ch. 120124B)116-5 •630 (Ch. 120099B108-5 •631 (Ch. 120109)93A-6
●632 (Ch. 120096B)93A-7 ●633 (Ch. 120114)93A-7
6348 (Ch. 1200978) 111-4 635 (Ch. 120108) 92-1
6364 (Ch. 120106A)
•638 (Ch. 120087D) (See Model 571—Set 76-11)
571-Set 76-115 6539 (Ch. 22003B) (Also see PCB 9-Set 114-1) 87-6 640 (Ch. 12012) 93-5 6418 (Ch. 120123B) 120-5 642 (Ch. 12017A) 98-3 643A (Ch. 120117A) 98-3 643A (Ch. 120117A) 91-4 6644, 8, BC, C, (Ch. 120113, B, BC, Cl 97-4
640 (Ch. 120112)
643A (Ch. 120111A) 91-4 644, B, BC, C, (Ch. 120113, B, BC,
• 644, B, BC, C, (Ch. 120113, B, BC, C) (C) • 645 (Ch. 120115). • 94-4 • 645 (Ch. 120121a). • 646B (Ch. 120121B). • 647, B, BC, C (Ch. 120113, B, BC, C) • 647, Ch. 20, Ch. 120113, B, BC, C)
646A (Ch. 120121A)102-6 646B (Ch. 120121B)102-6
•647, B, BC, C (Ch. 120113, B, BC, C) 97-4
C) 97-4 648B (Ch. 120134B, G, H) (See PCB 48-Set 182-1 and Model 661B-Set 137-4)
661B-Set 137-4) •649A (Ch. 120094A) 106-7
•649A (Ch. 120094A)
•650 (Ch. 120118B)113-2 •6508 (Ch. 120118B) (See Model 650-Set 113-2)
650-Set 113-2)
650—Set 113-2) 650D (Ch. 120123-B) (Also see PCB 48—Set 182-1)
e651B (Ch. 120120)
•651C (Ch. 120109)93A-6 •651C (Ch. 120124)116-5

EMERSON_Cant

Denotes Television Receiver.

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

EMERSON-FAIRMONT

	EMERSON-PAIRMONT
EMERSON-Cont.	FADA
Ch. 120143B, H (See Model 676F)	• DL21T 200—5 • DL21T8 (See Model 215C — Set 200-5) • G-925 • 89—6 • HD821T (See Model UH21T — Set 200)
Ch. 1201448, G, H (See Model 676D)	OL2118 (See Model 215C - Set 200-5)
Ch. 120147-B (See Model 7908)	● DL211T .200-5 ● DL211TB (See Model 215C Set 200-5) ● Set C-925 .89-6 ● HD821T (See Model UH21T Set 228.10) ● H212C (See Model UH21T ● H212C (See Model UH21T Set 228.10) ● H211K (See Model UH21T ● H211K (See Model UH2100T-Set 228.10) ● H421T (See Model UH2100T-Set 228.10) ● H421T (See Model UH21T Set 228.10) ● H421T (See Model UH21T ● H421T (See Model UH21T Set 228.10) ● H421T (See ● H421T (See Model UH21T Set 228.10) ● H421T (See ● H421T (See Model UH21T Set ● H30 27-9 P80 27-9 P82 21-16 ● 100 27-10 P111 178-6 ● S4715 142-8 ● S
Ch. 120149A (See Model 725A)	HD821T (See Model UH21T - Set
Ch. 120150-B (See Model 716B) Ch. 120151-B (See Model 724B)	H212C (See Model UH21T - Set
Ch. 120152-B (See Model 731D)	228-10)
Ch. 120152-F (See Model 733F) Ch. 120153-B (See Model 700B)	•H218C (See Model UDL21001Set 228-10)
Ch. 120153-B (See Model 700B)	•H274T, H276T
Ch. 120155A, B (See Model 705A,	H321T (See Model UDL2100T-Set
B) Ch. 120159-B (See Medal 700D)	228-10)
Ch. 120159-B (See Model 800B)	228-10)
Ch. 120160-B (See Model 699D)	•H442C
Ch. 120162-A (See Model 709A)	•H542C
Ch. 120103 D (See Model 710D) Ch. 120164-B (See Model 711B)	228-101
Ch. 120166-D (See Model 721D)	P80 27-9
Ch. 120167-D (See Model 731D)	P82 21-16
Ch. 120168-D (See Model 710F)	P111 178-6
Ch. 120169-D (See Model 720F)	P130
Ch. 120169F (See Model 733F)	• R7C15, R7C25158-3
Ch. 120170-B (See Model 729B)	• R-1025
Ch. 120171-B (See Model 730B) Ch. 120172A. B (See Model 737A.	• S4C20
B)	• \$4C40 142-8
Ch. 120173-D (See Model 740D)	• \$4115 142—8
Ch. 120174-B (See Model 752A)	• 54130 • 54055 • 134-7
Ch. 120176-B (See Model 745B)	• S6C70
Ch. 120177-B (See Model 746B)	• S6T65
Ch. 120178 (See Model 747)	• 5/C20, 5/C30 [See Model SoC35-
Ch. 120180-D (See Model 753D)	• S7C70
Ch. 120182-D (See Model 741F)	• S7T65 134—7
Ch. 120184-B (See Model 775A)	• \$9010
Ch. 120189-B (See Model 808B)	134-7)
Ch. 120190-D (See Model 760H)	•\$1015
Ch. 120191-D (See Model 760D)	• \$1020 109—4
Ch. 120192-B (See Model 707A) Ch. 120192-D (See Model 771D)	• \$1055, \$1055X
Ch. 120192-F (See Model 775A)	•\$1060134—7
Ch. 120193-B (See Model 768A)	• \$1065 134-7
Ch. 120193-F (See Model 7/6A) Ch. 120194-D (See Model 757E)	eUI700CD 244_4
Ch. 120195-D (See Model 785K)	•U1770CD
Ch. 120196-B (See Model 781A)	• U2150C
Ch. 120197-B (See Model 784E) Ch. 120197-D (See Model 784G)	eUH217 228-10
Ch. 120198-D (See Model 753F)	•V21T (See Model 215C-Set 200-5)
Ch. 120199-B (See Model 778B)	•V2176 (See Model 215C - Set
Ch. 120200-B (See Model 783B)	eV211CD 257-5
Ch. 120202-D (See Model 805B)	• V213CD
Ch. 120203-B (See Model 748C)	V217C (See Model DL217 - Set
Ch. 120204-B (See Model 7776) Ch. 120205-B (See Model 797C)	● V219C (See Model 215C - Set
Ch. 120206-D (See Model 781E)	200-5)
Ch. 120207-B (See Model 789B)	• V221TBM
Ch. 120208-D (See Model 1001E)	•7C42
Ch. 120209-F (See Model 799E)	sac.30 134 7 sac.30 134 7 sac.30 5720 5720 5720 system 134-71 134 7 system 134 7 134 7 system 109 4 134 7 system 134 7 109 4 system 134 7 109 4 system 134 7 134 7 system 74 134 134 7 system 74 <
Ch. 120210-D (See Model 766D)	•7132
Ch. 120211-D (See Model 784M)	1711 1712 FB 10 281-3
Ch. 120220-D (See Model 1030D)	•1776
Ch. 120221-A (See Model 809A)	• 1779
Ch. 120222-B (See Model 810B)	• 20C22
Ch. 120225-D (See Model 1002F)	e21C2 200-5
Ch. 120225-F (See Model 1044F)	• 21KA
Ch. 120228-B (See Model 811B)	•21K1, LO
Ch. 120229-B (See Model 8128) Ch. 120220 B (See Model 8128)	• 2111, 2112, EB, LO, 2113, BM
Ch. 120232-B (See Model 822B)	•21T
Ch. 120239-D (See Model 1058D)	•21T3 (See Model DL21T - Set
Ch. 120243-B (See Model 825B)	200-5) @ 2114 (See Model 215C-Set 200-5)
Ch. 120250-b (See Model 823b)	•21110
EMPRESS	• 24C4, 24C5
55, 56 7-14	• 2412 • 24110 180-3
ESPEY (Also see Philharmonic)	•1737, 175C, 177CD 192-5
PD12 PD121 13 17	1737, 175C, 177CD 192—5 215C 200—5 402 14–12
RR13, RR13L	602 14-12 605, 606 Series 1-13
7C	605, 606 Series
188	633 637 17–13
100	637 17-14 652 Series 1-23
200 241-7	700
201	•721
300	740
400, 500	740 • 775T (See Model 7T32—Set 177.7) 780 (Early) 64—6
500A	795
RR13, RR134 13-1/ 78 47B 76 1534 188 907 31 1039 100 2364 101 2417 200 2474 201 2883 300 2426 301 2878 400, 500 2453 501 2825 512 688 512 688 513, 514 638 524 90-7 581 14-10 621 10-17 641 42 8-11 10-17	•7731 (See Model 7132—Set 177-7) •700 (Errly) •646 •795 •646 •797 •646 •799 •743 830 •975 845 •976 880 •95A5 889 •743 •925 896 •930, 940 743 •965 896 1000 Series 1-17 1001 17-15 •2100C 228-10
512	830 97-3 845 97-6
512B	855
513, 514 63-8	•880
581	•899
621 10–17	• 925
	e 965 89-6
651 9-14 652, 653 (See Model 651-Set 9.14)	1000 Series 1-17
2-14)	1001
751 90-7 6511, -2, -5, 6514, 6516, 6517, 6520, -2, 6521, 6533 (Ch. FJ97) (See Model 651-Set 9-14)	
6520, -2, 6521, 6533 (Ch. FJ97)	FAIRCHILD
(See Model 651-Set 9-14)	260
6540, 6541	FAIRMONT
Set 9-14)	30T14A-056 (Similar to Chassis)
6545 (Ch. FP97)	• 38T12A-058 (Similar to Chassis)
Set 9-14)	
6547 8-12 6560 (Ch. FJ97) (See Madel 651-	•317T3 (Similar to Chassis) 72-4
Set 9-14) (See Model 651-	• 317T3 (Similar to Chassis) 72-4 • 318T4 (Similar to Chassis) 85-3
Set 9-14) 6611, 6612, 6613, 6614, 6615, 6630, 6631, 6632, 6634, 6635 (Ch. 97A) 18 -16	• 318145 (Similar to Chassis) 033
6630, 6631, 6632, 6634, 6635	●318T4-872 (Similar to Chassis) 85—3
(Ch. 97A)	85-3 •31876A (Similar to Chassis) 85-3 •31876A (Similar to Chassis) 85-3
Set 9-14)	
7552 90—7	85-3
ESQUIRE	• 31879A-900 (Similar to Chassis) 78-4
	• 518T6A (Similar to Chassis) 85-3
60-10, 65-4	 518T9A-918 (Similar to Chassis)
517 (See Model 520-Set 163-5)	
520	• 518T10A-916 (Similar to Chassis) 78-4
	enotes Television Receiver.

EMERSON-Cont. DIMENSURA-CONT.
 DIODE (Ch. 12020-D) (See PCB 103 -Set 235-5)
 DIODE (Ch. 12022-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIODE (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIODE (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLOE (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLC (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLC (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLC (Ch. 12012-117-Set 235-5)
 DIOLZ (Ch. 12011-F) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12011-F) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12012-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12012-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12012-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12015-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12015-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12016-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOLZ (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOZE (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOZE (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOZE (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOZE (Ch. 12020-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOZE (Ch. 120211-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOZE (Ch. 12022-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOZE (Ch. 12022-D) (See PCB 103 -Set 249-1, PCB 117-Set 235-5)
 DIOZE (Ch. 120225-D) (See PCB 103 -Set 249-1, PCB 1 ^b)₁ Ch. 120 Ch. 12

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

EMERSON-Cont.

PMRR SUPP-Conf.
 P17D (Ch. 120163-D). (190-2
 P17F (Ch. 120163-D). (190-2)
 P18F (Ch. 120163-D). (190-2)
 P18F (Ch. 120163-D). (190-2)
 P18F (Ch. 120163-D). (190-2)
 P19D (Ch. 120163-D). (190-2)
 P208 (Ch. 120164-B). (180-5et 190-2)
 P208 (Ch. 120164-B). (180-5et 190-2)
 P208 (Ch. 120164-B). (190-2)
 P208 (Ch. 120164-B). (197-5)
 P202 (Ch. 120163-D). (197-5)
 P220 (Ch. 120163-D). (197-5)
 P220 (Ch. 120163-D). (197-5)
 P220 (Ch. 120163-D). (197-5)
 P227 (Ch. 120164-B). (197-5)
 P228 (Ch. 120149A). (29-2)
 P277 (Ch. 120164-B). (197-5)
 P278 (Ch. 120164-D) (ACB 77-5et 201-1)
 P305 (Ch. 120167-D) (107-5et 190-2)
 P206 (Ch. 120167-D) (107-5et 197-5)
 P298 (Ch. 120170-B). (205-4)
 P328 (Ch. 120169B). (206-4)
 P328 (Ch. 120170-B). (207-3)
 P368 (Ch. 120170-B). (207-3)
 P374 (Ch. 120164-B) (5ee PC8 6)
 S-set 202-1; PC8 77-5et 218-1
 ond Model 710D-5et 197-5)
 P374, B (Ch. 120172, B). (207-3)
 P38 (Ch. 120173-D) (5ee PC8 6)
 S-set 202-1; PC8 77-5et 218-1
 ond Model 710D-5et 197-5)
 P374, B (Ch. 120173-D) (5ee PC8 6)
 S-set 202-1; PC8 77-5et 218-1
 ond Model 710D-5et 197-5)
 P374, B (Ch. 120173-D) (5ee PC8 6)
 S-set 202-1; PC8 77-5et 218-1
 ond Model 710D-5et 197-5)
 P374, B (Ch. 120173-D) (5ee PC8 6)
 S-set 202-1; PC8 77-5et 218-1
 ond Model 710D-5et 197-5)
 P340 (Ch. 120174-B). (243-4)
 P345, Ch. 120174-B). (243-4)
 P346 (Ch. 120174-B). (2

•771D (Ch. 120192-D)......243-4 •772A (Ch. 120193-B)......243-4

•773A (Ch. 120192-B)243-4 •774A (Ch. 120193-B)243-4

NOTE: PCB Denotes Production Change Bulletin.

www.americanradiohistory.com

97

EMERSON-Cont.

FAIRMONT-GENERAL ELECTRIC

FAIRMONT-Cont.

@2318T6A-954 (Similar to Chassis) •231879A-912 {Similar to Chassis} 78-4

FARNSWORTH (Also see Record Changer Listing)
 Record Changer Listing)

 EC-200
 FK-081, E-203WI, E

 EK-081, FK-082, EK-083, Z6-13
 EK-263, Z6-23

 EK-262, EK-263BI, E-263WI, E
 Z64BI, E-263WI, E

 Z64BI, EK-264WI, EK-265, 7-155
 EK-681, E-263WI, E

 EK-080, ET-061, ET-063, G-11
 ET-064, ET-065, EF-066, 4-2

 GK-102, GK-102, GK-103, GK-104, GK-115
 GK-104, GK-114, GK-115

 GK-114, GK-112, GK-114, GK-115
 GK-144, GK-142, GK-143, GK-144, GK-155

 GT-050, GT-051, GT-052, 35-65
 GT-060, GT-064, GT-064, GT-064

 Str. 267, K-669
 Str. 264, 100)
 FEDERAL
 MFG.
 CO.

 104
 [Select-A-Coll]
 18–17

 135
 [Select-A-Coll]
 11—7
 FEDERAL TEL. & RADIO CORP. 1021 (See Model 1030T-Set 8-13) 1030T 8-13 1032 (See Model 1030T-Set 1031 15407 15407 221M539A (Similar to Chassis) 2221M539A (Similar to Chassis) 226-11 EEDD 27 FERRAR C-81-8 17-16 T-618 39-4 WR-11 15-10 FIRESTONE (AIR CHIEF) 4-A-2 (Code No. 297-6-LMMU-143) 14 4-A-3 (Code No. 297-6-LMFU-134) 4-A-10 (Code No. 297-7-RN228) 4.A-10 (Code No. 297-7-RN228) 28-11 (Code No. 188-8-4A11) 4.A-12 (Code No. 188-8-4A11) 4.A-12 (Code No. 213-8-8370) 4.A-15 (Code 177-7-4A15). 36-8 4.A-15 (Code No. 213-7-7270) 4.A-21 (Code No. 213-7-7270) 4.A-22 (Code No. 5-5-9001A). 15-11 4.A-21 (Code No. 5-5-9001A) 4.A-22 (Code No. 5-5-901A) 4.A-22 (Code No. 5-5-901A) 4.A-22 (Code No. 5-5-901A) 4.A-22 (Code No. 5-5-901A) 4.A-23 (Code No. 5-5-901A) 4.A-2 4.A-22X (Code Ne. 5.5-9001B) 4.A-23 (5-5-9003.A) 2-29 4.A-24 (Code 291-6-566). 13-5 4.A-25 (Code 291-6-572). 13-6 4.A-25 (Code 201-6-572). 13-6 4.A-26 (Code 307-6-9030.A) 33-5 4.A-27 (Code 10., 177-54A31) 4.A-41 (Code 177-54A37). 13-7 4.A-41 (Code 177-54A37). 13-7 4.A-41 (Code 177-574). 52-8 4.A-42 (Code No. 307-8-9047A) 4.A-60 (Code No. 307-8-9047A) 4.A-61 (Code No. 332-83-6 4.A-61 (Code No. 332-83-137)271 4.A-63 (Code No. 332-83-137)271 4.A-64 (Code No. 332-83-137)272 4.A-64 (Code No. 332-83-137)272 4.A-64 (Code No. 332-83-137)272 4.A-64 (Code No. 332-83-137)272 4.A-64 (Code No. 340-83-137)272 4.A-64 (Code No. 340-83-137)272 4.A-
 4-A-62, 4-A-63
 67-10

 4-A-64, 4-A-65
 68-9

 4-A-66
 (Code No. 177-8-4A66)
 4.4.66 [Code No. 177:6.4A66] 4.4.68 [Code No. 332:6:14363] 4.4.69 [Code No. 155:8:85] 61—8 4.4.70 [Code 291:8:628]. 59—9 4.4.73 [Code 291:8:628]. 59—9 4.4.78 [4.4.79 [17—5 4.8.85 129—6 4.8.85 129—6 4.8.85 118—7 4.8.85 118—7 4.8.90 118—7 4.4.95 [See Model 4.444 FISHER (See Model 4-A-87—Set A -96 (See Model 4-A-07-54 119-7) A -97, 4-98 147-5 A -101, 4-A-102 181-7 A -108 (Code 297-2-361) 191-8 A -110 See Model 4-A-92-5et 154-4) A -113, 4A-114 224-8 A -115 224-8 A -115 4-92-5et A -92-5et FORD

NOTE: PCB Denotes Production Change Bulletin.

155-6

FIRESTONE (AIR CHIEF)-Cont. | FORD-Cont. $\begin{array}{c} 18-62 & ... 182-6 \\ 48-63 (Similar to Chessis) 173-4 \\ 48-67 (Code 120-2-F152). 187-6 \\ 48-67 & ... 223-6 \\ 48-72 & ... 223-7 \\ 48-72 & ... 223-7 \\ 48-74 & ... 266-7 \\ 48-75 & ... 222-6 \\ 48-72 & ... 223-7 \\ 48-74 & ... 266-7 \\ 48-75 & ... 267-4 \\ 4-C.3 & ... 266-7 \\ 4-C.4 & ... 266-7 \\ 4-C.5 & ... 266-7 \\ 4-C.13 & ... 266-7 \\ 4-C.13 & ... 266-7 \\ 4-C.14 & ... 266-7 \\ 4-C.21 & ... 266-7 \\ 4-C.22 & ... 266-7 \\ 4-C.24 & ... 266-7 \\ 4-C.24 & ... 266-7 \\ 13-6-3 \\ 13-6-48 & ... 266-7 \\ 13-6-36-7 & ... 168-6 \\ 13-6-56 & ... 128-7 \\ 13-6-66 & ... 128-7 \\ 13-6-66 & ... 128-7 \\ 13-6-66 & ... 128-7 \\ 13-6-160 & ... 266-7 \\ 13-6-170 & ... 166-168 \\ 13-6-170 & ... 166-168 \\ 13-6-170 & ... 166-7 \\ 13-6-170 & ... 166-168 \\ 13-6-170 & ... 166-168 \\ 13-6-170 & ... 166-168 \\ 13-6-1169 & ... 166-56-81 \\ 17-10 & ... 166-169-26 \\ 13-6-1169 & ... 166-56-81 \\ 17-10 & ... 168-160 \\ 13-6-1169 & ... 166-56-81 \\ 17-10 & ... 168-56 \\ 13-6-117 & ... 166-56-81 \\ 17-10 & ... 182-50 \\ 13-6-117 & ... 166-56-81 \\ 17-10 & ... 182-50 \\ 13-6-119 & ... 13-6-120 \\ (Code 334-2-8170) \\ (Ch 317) & ... 182-50 \\ 13-6-119 & ... 13-6-120 \\ (Code 334-2-8170) \\ (Ch 317) & ... 182-50 \\ 13-6-119 & ... 13-6-120 \\ (Code 334-2-8170) \\ (Ch 317) & ... 182-50 \\ 13-6-117 & ... 166-56-750 \\ 13-6-119 & ... 13-6-100 \\ (Code 334-2-8170) \\ (Ch 317) & ... 182-50 \\ 13-6-119 & ... 13-6-120 \\ (Code 105-2-8170) \\ (Ch 31-6-119 & ... 120 \\ (Code 105-2-8170) \\ (Ch 31-6-119 & ... 120-60 \\ (Ch 31-2-700140) \\ (See Model 13-6-107-581 \\ 197-6 \\ 13-6-119 & ... 120 \\ (Code 105-2-8170) \\ (See Model 13-6-107-581 \\ 197-6 \\ 13-6-119 & ... 120 \\ (Code 105-2-8170) \\ (See Model 13-6-107-581 \\ 197-6 \\ 13-6-134 & (Code 105-4-8270) \\ (See Model 13-6-107-581 \\ 13-6-134 &$ 13-G-165 (Code 280-4-1/18)
 282-7
 13-G-166 (Code 280-4-21119)
 282-7
 13-G-167 (Code 280-4-21119AGH)
 FISHER

 FM.80
 277-5

 50-A
 229-6

 50-CB, -CM (SOC Series) (Ch. 30C-1)
 209-13

 50-F
 262-7

 50-PR
 262-7

 50-F
 262-8

 50-F
 262-7

 50-F
 262-8

 50-F
 262-8

 50-R
 262-8

 50-R
 262-8

 50-R
 262-8

 50-R
 262-8

 50-R
 263-8

 70-A
 258-7
 262—8 231—7 263—0 FLEETWOOD FLUSH WALL
 FORD

 FAC-18805.A
 175-10

 FAC-18805.A
 184-7

 FAC-18805.B
 167-7

 FAC-18805.C
 See Model M4A or

 Model 307-D
 208-6

 FAD-18805.A
 215-7

 FAD-18805.A
 215-7

 FDA-18805.A
 255-6

 FDA-18805.B
 236-5

 FDA-18805.B
 236-6

 FDA-18805.A
 236-6

 FDA-18805.B
 286-6

 FDH-18805.B
 286-6

 FDA.1803-8-2
 250-10

 FDH.1803-A2
 289-4

 FDH.1803-81
 286-6

 FDH.1803-81
 286-6

 FDH.1803-82
 281-4

 GF890, E (OA.18805-81)
 109-5

 M-1 (SA.18805-A1)
 46-4

 M-1 (AA.18805-A1)
 46-4

 M-1 - Sci 46-4
 10-18805-A1

 M-2 (1A.18805-A1)
 106-8

 M-2 (1A.18805-A1)
 132-7

 M-4 (FAC-18805-A1)
 184-7

FORD-Cont. M4.A (FAC-18805-C) (See Model M4-Sei 184-7) M-48 (FDA-18805-81) ...236-5 OA-18805-A1 (See Model M-1A or Model M-1A-1) OA-18805-A1 (See Model M-1A or M-8805-A2 ...135-9 OA-18805-A1 (See Model M-1A or 150,000 and below) (See Model M1-Sei 46-4) OBF (OA-18805-A1) (Serial No. 150,000 and below) (See Model M1-Sei 46-4) OBF (OA-18805-A1) (Serial No. 150,001 and up) (See Model M-1A-1-Sei 106-8) OCF7 51.1 (1A-18805-8). 157-4 OMF (OA-18805-A1) (See Model M-18805-A2 ...131-8 OMF (OA-18805-8). 132-7 1A-18805-A2 ...132-7 1A-18805-A2 ...131-8 Sei 133-7 or Model 1CF743-1 Sei 133-7 or Model 1CF743-1 Sei 133-7 or Model 1CF743-1 Sei 133-7 (A-18805-8). 157-4 1A-18805-6. 157-4 1A-18805-6. 157-4 1A-18805-8] (See Model M-2 Sei 132-7 1CF77312 (A-18805-8). 157-4 1BF (IA-18805-8). 157-4 1BF (IA-18805-8). 157-4 1BF (IA-18805-8). 157-5 Sei 184-7] 28F (FAC-18805-A) ...175-10 39F (FAC-18805-A) ...126-7 27F756 (FDA-18805-A) ...126-7 27F756 (FDA-18805-A) ...256-6 SMF
 Sin FG (FDH-19805-4.2)
 289--4

 Sin FG (FDH-19805-4.2)
 280--4

 Sin FG (FDH-19805-4.2)
 62-12

 Sin FG (FDH-19805-4.1)
 62-14

 Sin FG (FGH-19805-4.1)
 62-14
 FREED EISEMANN GALVIN (See Motorola) GAMBLE-SKOGMO (See Coronado) GAROD (Also see Majestic)
 4A1, 4A-2
 29-9

 4B-1
 51-6

 5A-1
 22-15

 5A-2
 5-28

 5A-3
 44-5

 SA.3
 44-3

 SA.4
 40-6

 SAPL
 40-6

 SAPL
 15-12

 SD, 5D-2
 12-12

 SD, 35D-3A
 12-12

 SD-4, 5D-5
 33-7

 SD-4, 5D-5
 36-8

 GA-2
 28-13

 GAU-1
 5-29

 SBU-1, The Senercity
 5-29

 5RC-1
 28-13

 6A-2
 28-13

 6AU-1
 "Dessendor"

 6BU-1A
 "The Senator"

 13-18
 60PS

 60P5, 6DPS-A
 12-13

 10721, 10722, 10723, 10724, 10727, 10727, 10722, 10723
 10724, 10729, 1 ■15/224, 15/225, 15/226, 15/227 ■16/74, 16/75 (See Mojestic Model 16/74–5er 133-6) ■19(6, 19/7) (See Mojestic Model 19/66–3er 133-6) 9/907 9/107 50–7 ■10007, 10107 50–7 ■10426, 10436 (See Mojestic Model 10/437 934–17 ■10427, 10437 34–17 ■10427, 10437 34–17 ■10427, 10437 34–17 ■10427, 10437 34–17 ■10427, 10477 34–17 ■10477 34–17 ■10477 34–17 ■10477 34–17 ■10477 34–17 ■10477 34–17 ■1 12C4—Set 108-7) 10427, 10431 1100TVP, 1110TVP. 1200TVP, 1110TVP. 1244G, 1245G (See Majestic Model 12C4—Set 108-7) 12444T, 1245T. 93A—7

GAROD-Cont.

- GARRARD (See Record Changer Listing)

A1-200	
A1-300	
10C101, 10C102 96-4	
10C101, 10C102 96 10T1, 10T5, 10T6 96 10T4, 10T5, 10T6 96 12C101, 12C102, 12C108, 12C108, 12C108, 12C108, 12C108, 12C108, 12C108, 12C108, 12S 96 12C107, 12C1078, 12C108, 12C108, 12C108, 12C108, 12C108, 12S 96 12K10 95 96	
12C107, 12C1078, 12C108, 12C- 1088, 12C109, 12C1098 125-7	
12K1	
12k1	
217 35-8 4C102, 14C103 35-8 44C102, 14C103 123-4 46C103, 14C103 123-4 46C103, 16C111 123-4 6C113, 16C114 123-4 6C113, 16C116, 16C117 123-4 6C113, 16C116, 16C117 123-4 6C113, 16C12, 1673, 1674 123-4 6C13, 16C12, 1673, 1674 123-4 6C13, 16C104, 17C103 (Alio see PCB 32-5et 158-1) 7C103, 17C103, 17C103 (Alio see PCB 32-5et 158-1) 7C110, 17C103, 17C103 (Alio see PCB 32-5et 158-1) 7C110, 17C103, 17C103 (Alio see PCB 32-5et 158-1) 7C110, 17C103, 17C103-5et 141-6) 17C113 7C111 [Early, "D' and Model 17C103-5et 141-6) 17C113 7C113, 17C103, PCB 32-5et 158-1 166-10 7C114 [See PCB 32-5et 141-6) 17C113 7C115, 126, 17C103-5et 141-15 166-10 7C114 [See PCB 32-5et 138-1 166-10 7C115, 126, 17C103-5et 141-6 17C113 7C115, 126, 17C103-5et 141-6 17C113 7C115, 126, 17C103-5et 141-6 17C113 7C114 [See PCB 32-5et 138-1 166-10 7C115, 126, 17C103-5et 141-6<	
14T2, 14T3	
16C110, 16C111	
16C115, 16C116, 16C117, 123-4 16K1, 16K2	
16T5 (See Model 16T4-Set 123-4)	
17C103, 17C104, 17C105 (Also see PCB 32—Set 158-1) 141—6	
•17C107, 17C108, 17C109 (Also see PCB 32-Set 158-1)141-6	
• 17C110, 17C111 (Early, "D" and "W" Versians)	
and Model 17C103—Set 141-6)	
•17C114 (See PCB 32—Set 158-1 and Model 17C103—Set 141-6)	
•17C115	
166-10) ● 17C120	
•17C125 (See PCB 64—Set 201-1 and Model 21C201—Set 194-2)	ĺ
• 17C125-UHF (For TV Ch. see PCB 64 —Set 201-1 and Model 21C201— Set 104-2 for UHE Conv. Son	
Model UHF-103—Set 209-5)	Į
and Model 21C115-Set 229-7) 17T1, 17T2, 17T3 (Also see PCB 32	
Set 158-1)	L
WY Versional 17C112 (See PCB 32—Set 195-1) and Model 17C103—Set 141.6) 17C113	
•1717 (See Model 17C113-Set 166-10)	ł
166-10) 17T10 - UHF (For TV Ch. see Model 17T10 - Sei 196-3, for UHF Canv. see Model UHF-103 - Set 209-5) 17T11 - See Model 17T10 - Set 196-3) 17T11 - UHF (For TV Ch. see Model 17T10 - Set 196-3, for UHF Conv. see Model UHF-103 - Set 209-5) 17T12 (See Model 17T10 - Set 196-3)	1
see Model UHF-103-Set 209-5) 17111 (See Model 1710-Set	
196-3) • 17T11-UHF (For TV Ch. see Model	
17T10-Set 196-3, for UHF Conv. see Model UHF-103-Set 209-5)	
tee Model UHF-103—Set 209-5) 17112 (See Model 17110—Set 1713-17110—Set 17110—Set 196-3, for UHF Conv. tee Model UHF-103—Set 209-5) 17115, 1717 (See PCS 97—Set 242-1 and Model 21C11—Set 229-7) 17170	
17T10—Set 196-3, for UHF Conv. see Model UHF-103—Set 209-5)	
17T15, 17T17 (See PCB 97—Set 242-1 and Model 21C11—Set	
229-7) • 17T20	
•19C101	
and Model 21C201-Set 194-2)	
64-Set 201-1 and Model 21C201	
e 17120 265-6 19C101 99A-6 20C105, 20C106 176-3 20C107 (see PCB 64-Set 201-1 and Madel 21C201-Set 194-2) 20C107-UHF (For TV Ch. see PCB 46-Set 201-1 and Madel 21C201 -Set 194-2, for UHF Conv. see Model UHF-103-Set 209-51 20C150, 20C151 153-6 20C150, 20C151 753-6	Î
• 20C130, 20C131	
200150, 200151	
205-6) •21C114 (See PCB 97—Set 242-1 and Model 21C115—Set 229-7)	
@21C115 (Also see PCB 97-5et	
@21C116. 21C117 (See PCB 97-Set	
229-71	
• 21C120, 21C121 (See PCB 97—Set 242-1 and Model 21C115—Set 229-7)	
•21C200	
21(220)	
-Set 201-1 and Model 21C201- Set 194-2, for UHF Conv. see	
•21C202 (Also see PCB 64—Set 201-1)	
-Set 201-1 and Model 21C201- Set 194-2, for UHF Conv. see	

GENERAL ELECTRIC-Cont.

- 21(35) ('''' Line)275-8 21(1) (Alto see PCB 64-Set 201-1) 21(1) (JHE [For TV Ch. see PCB 64-Set 201-1 and Model 2111-Set 194-2; for UHF Conv. see Model UHF-103-Set 209-5) 21(11) UHF (For TV Ch. see PCB 64-Set 201-1 and Model 2111-Set 194-2; for UHF Conv. see Model UHF-103-Set 209-5) 21(13; (See Model 2111-Set 194-2) 21(13; UHF (For TV Ch. see PCB 64-Set 201-1 and Model 2111-Set 194-2; for UHF Conv. see Model 2117, 2115, See Model 2111-Set 194-2; for UHF Conv. see Model 2117, 2115, See Model 2111-Set 194-2; for UHF Conv. see Model 2117, 2115, See Model 2111-Set 194-2; for UHF Conv. see Model 2117, 2116, See Model 2111-Set 194-2; for UHF Conv. see Model 2117, 2116, See CB 9-5) 2117, 2112 (See PCB 9-5) 21114 (Also see PCB 97-Set 242-1) 2114 (Also see PCB 97-Set 242-1) 2114 (Also see PCB 97-Set 242-1)

	PCB 97-S	
 		.2297
	21724	

#1774 1775 1776 (See PCB 32_	•24C101
• 1774, 1775, 1776 (See PCB 32- Set 158-1 and Model 17C103-	41, 42, 43, 44, 45 32-8
Set 158-1 and Model T/C103-	50 7-16
Set 141-6)	60, 62
e17T7 (See Model 17C113-Set	64 65 9R_4
166-10)	64, 65
•17T10	100 101 6-13
@17T10.IIHE (For TV Ch see Model	
 17T10-UHF (For TV Ch. see Model 17T10—Set 196-3, for UHF Conv. 	102, 102W 41-8
1/110-301 190-3, 101 0111 CONT.	103, 105 6-13
see Model UHF-103-Set 209-5)	106 8-14
17T11 (See Model 17T10-Set	107 107W
196-3)	107, 107W
17T11-UHF (For TV Ch. see Model	114 114W 115 115W 41-8
17T10-Set 196-3, for UHF Conv.	114, 114W, 115, 115W 41—8 118, 119M, 119W 39—5
see Model UHF-103-Set 209-5)	123 124 97-7
@17T12 (See Model 17T10-Set	123, 124
196-3)	131 (See Model 118-Set 39-5)
●17T12-UHF (For TV Ch. see Model	135, 136 81-8
	140
17T10—Set 196-3, for UHF Conv.	143 75—9
see Model UHF-103-Set 209-5)	145 60-13
•17T15, 17T17 (See PCB 97-Set	150
•17T15, 17T17 (See PCB 97-Set 242-1 and Model 21C11-Set	
229-7)	
● 17T20	165 89-7
•19C101	180 20-11
e200105 200104 174 2	186-4 57—7
•20C105, 20C106	200, 201, 202, 203, 205, 205M
20C107 (See PCB 04-Set 201-	815
and Model 21C201-Set 194-2)	210, 211, 212 51-8
● 20C107-UHF (For TV Ch. see PCB	218 218 ""H" 121_5
64-Set 201-1 and Model 21C201	219, 220, 221 4-1
-Set 194-2, for UHF Conv. see	226
Model UHF-103-Set 209-5)	
	230 (See Kaiser-Frazier Model
•20C150, 20C151153-6	200001-Set 35-13)
• 20T2	250 4–13
e 21C103, 21C104 265-6	254 32—9
@21C105 (See Model 17T20-Set	260 15-13
	280 23-10
265-6)	303 18–19
@21C114 (See PCB 97-Set 242-1	304 32 –10
and Model 21C115-Set 229-7)	321
@21C115 (Also see PCB 97-Set	324
242-1)	204 227 20 11
@21C116, 21C117 (See PCB 97-Set	320, 327
242-1 and Model 21C115-Set	328
	326, 327 328 329, 330 (See Model 324-Set
229-7)	64-7)
@21C120, 21C121 (See PCB 97-Set	354, 355 33—9
242-1 and Model 21C115-Set	356, 357, 358 37-6
229-7)	376, 377, 378 45-11
•21C200	400, 401
egicani (Ales an PCB 44 Set	404, 405
•21C201 (Also see PCB 64—Set 201-1)	404, 403
201-1)	408
@ 21C201-UHF (For TV Ch. see PCB 64	409
-Set 201-1 and Model 21C201-	410
Set 194-2, for UHF Conv. see	411
Model UHF-103-Set 209-5)	412
ADICOD IAko see PCB 64-Set	
•21C202 (Also see PCB 64-Set 201-1)	412F
201-1)	414
● 21C202-UHF (For TV Ch. see PCB 64	414F
-Set 201-1 and Model 21C201-	414F
	414F
—Set 201-1 and Model 21C201— Set 394-2, for UHF Conv. see Model UHF-103—Set 209-5)	414F
—Set 201-1 and Model 21C201— Set 194-2, for UHF Conv. see Model UHF-103—Set 209-5) @21C204 (Also see PCB 64—Set	414F 211-6 415 175-11 415F 211-6 416 175-11
—Set 201-1 and Model 21C201— Set 194-2, for UHF Conv. see Model UHF-103—Set 209-5) @21C204 (Also see PCB 64—Set	414F
	414F

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

GENERAL ELECTRIC-HOFFMAN HOFFMAN-Cont.

GENERAL ELECTRIC-Cont.	GLOBE-Cont.
417 16-14 419	
422, 423 154-5	85
427 428 429 270_4	456
430	457
431A (See Madel 431-Set 241-9)	517
1224 (C M. d. 122 C 241 0	552
440	333
440	GOUFRET
233-2) 455 A 456 457 287-5	6AD
500, 501 98-4	GONSET
505, 506, 507, 508, 509. 98-4	3-30 Meter Con
510	GOODELL ATB-3
	ATB-3 NSA-20
511F, 512F, 513F	
521, 522	(Also see Mar
530	92-523, 92-524 92-527, 92-52
542, 543	GOTHAM
546, 547, 548, 549 191-9 551, 552	• 319 • 323
321F, 522F 143-7 530 98-4 535 151-7 542, 543 198-7 546, 547, 548, 549 191-9 551, 552 201-4 555, 5556, 556 250-11 1557, 558, 559 (See Model 560-Set 240-7)	GRANCO
557, 558, 559 (See Model 560—Set 249-7) 560, 561	LCU UHF Conv.
249-7) 560, 561	MTU (Tel. UHF C
572, 573, 574, 575, 274, 9 577, 578, 278, 278, 4 580, 581, 582, 270, 6	W. T. GRANT
	GRANTLINE
601. 603. 604	300 (Series B)
605, 606	
145.6)	508-7
610, 611 612, 613 614, 615 147–7 614, 615 199– 6	
620, 621, 622	0.51
231.91	6547
630, 631, 632 261 -7	GROMMES
199-41	1.1-3
	50PG2
752, 753	55PG
	117PS 205PA
757 (See Model 755-Set 130-6)	206PA
•800A, B, C, D (See Model 805	215BA
• 803	HALLICRAFTER (Also see Echo
●810 53-12	A-84 (Run 1)
e 814 69-9	B-55 [See Model
●815	CA-2, CA-2A CA-4 S-38
• 821 78-7	S-38 S-38B
830 Early 81—9 835 Early 81—9	S-38B S-38C (Run 2) S-40
●835 Early	S-40A S-40B
910	S-41G, S-41W S-47
GENERAL IMPLEMENT	S-51
9A5 37—7	
GENERAL INDUSTRIES (See Changer and Recorder	S-55, S-56
	S-58 S-59
GENERAL INSTRUMENT (Also see Record Changer	\$-72 5-72L
Listing) 63A, 64 Tel. UHF Conv232-7	S-76, S-76U
GENERAL MOTORS CORP.	S-78
(GMC) 2233029	S-80 S-81
GENERAL TELEVISION	S-82
1A5, 2A5, 3A5, 5A5 (Ch. 1-1) 1-21	ST-74 ST-83
1A5, 2A5, 3A5, 5A5 (Ch. 1-1) 1-21 4B5	SX-42 SX-43
27-12 27-12 9A5 39-6 9B6P 36-10 14A4F 3-21	SX-42 SX-43 SX-62 SX-71
	•T-54 (Early) •T-54 (Late)
17A5	•T-60 •T-61, T-64, T-67 Set 158-1]
12-14 12-14 12-14 12-14 13-19 13-19	Set 158-1) •T-68
14A4F 3-21 15A5 (Ch. 1-1) 1-21 17A5 5-22 19A5 (Ch. 1-1) 1-21 17A4 12-14 12A5 12-14 12A5 12-14 12A5 12-14 12A6 13-19 12A6 13-19 12A6 14-14	
25B5	TW-500 (Runs 1
2685	TW-25 (Runs 1 o TW-55 ond B-55 TW-500 (Runs 1 TW-600 (Runs 1 TW-1000 (Run 1) TW-2000 (Run 1) 3HFP-1, 3HFP-2 5R10
GILFILLAN	TW-2000 (Run 1) 3HFP-1, 3HFP-2
	5R10
56A, 56B	5R10 5R10A (Run 1) 5R10A (Run 4) (Run 1)-Set 1 5P11 5P12 5P1
36E (See Model 36A-Set 1-27)	5R11, 5R12, 5R1
58M, 58W	Model 5811-5
66B The Overland 8-17 66D, 66DM 8-16	5R10A (Run 1) 5R10A (Run 4) (Run 1)—Set 1 5R11, 5R12, 5R1 5R18, 5R19, 5R2 Model 5R11—S 5R24 5R30, A, 5R31, 5 5R24 A, 5R34 A
66P, 66PM 'The El Dorado' 9-15 68B-D 46-10	5850 5851 585
49E 46 11	SR60, SR61 SR100A (Run 4) (Run 1)—Set 1 (Run 2)
68-48	(Run 1)—Set 1 5R230, 5R231,
	8R40, 8R40C
GLOBE	

GLOBE

											18-20
											20-12
											20-13
											20-12
											20-13
7CP-1		•		•		•				÷	28-14

19-18 19-19 49-9 41-9 • 506 (Early) (See Model 505 (Early) —Set 48-10]
 500
 1207171
 See model 305
 1

 -Set 48-101
 500
 510
 See model 305
 1

 500
 510
 (Also see PCB 32-158-11)
 9
 512
 1
 513
 8
 511
 9
 515
 514
 9
 515
 515
 8
 518, 519, 520
 9
 5202
 1
 9
 521
 9
 521
 9
 521
 521
 9
 521
 521
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 524
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8
 8< 40-7 39-7 21-18 21-17 16-16 27-13 28-15 50-8
 520i
 80

 521
 92

 521
 80

 521
 80

 524
 80

 524
 80

 524
 80

 524
 80

 524
 80

 605, 601, 602, 603, 604
 92

 605, 606
 107

 606, 681
 113

 716 (See Model 680—Set 113.3)

 730, 731 (Run 1) (See Model 680

 Set 113.3)

 740, 741 (Run 1) (See Model 680

 Set 113.3)

 745, 751

 750, 751

 680, 880

 810

 Set 113.3)

 745, 751

 750, 751

 666

 810

 810

 810

 811

 124

 810

 811

 124

 810

 811

 124

 820 (See Model 810A—Set 124

 821 (See Model 810A=Set 124

 822 (S33

 124 FREY 28–17 28–17 Meter Converter.... 61-11 Meter Converter.... 37-9 DELL 20 70—5 73—6 MAH NCO . GRANT (5ee Grantline) NTLINE 2-17 12-15 11-9 35-11 11-10 MMES .194—3 .277—6 .163—6 .206—6 .279—7 .189–10 .190—3 .191–10 .262–10 .190—3 .198—8 51PG CRAFTERS (Run 1) (Run 1) (See Model TW-55) (See Model TW-55) CA-2A 209-7 30-12 36-13 3-7 121-7 (Run 2) 190-4 2-19 33-10 22_4 10-19 46-12 40-8 48-9 5-41W ___á AU 5-56 -6 -6 -9 S-76U (Run 1) -11 -8 -5 44_6 45-13 61-12 48-10 91-6 63-10 Early) Late) 63-10 7.64, 1-67 (Also see PC8 32-158-1) 63-10 63-10 63-10 63-10 63-10 64-10 724-9 0 (Run 1 ond 2) 724-7 0 (Run 1 ond 2) 725-10 00 (Run 1) 723-7 1, 3HFP-2 (Run 1) 288-4 130-7 130-7 273-7 288-4 130-7 155-7

●1022C (Ch. G1200D) 188—6 ●1025 (Ch. C1000D) 172—4
• 1022C (Ch. G1200D) 188-6 • 1025 (Ch. C1000D) 172-4 • 1026P (Ch. D1200D, L1200D, X1200D) 188-6 • 1027C (Ch. G1200D) 188-6
•1027C (Ch. G1200D) 188-6
•1050, A (Ch. AL1200D) (Also see PCB 81—Set 222-1)211—7
 1051P, 1052P (Ch. P1200D) (See PCB 75—Set 216-1 and Model
1010P-Set 188-6)
PCB 75-Set 216-1 and Model
 1025 (Ch. C1000D)172-4 1026 (Ch. D1200D, L1200D, X1200D, X1200D)188-6 1037 (Ch. G1200D)188-6 1037 (Ch. G1200D)188-6 1037 (Ch. G1200D) (Also see PGB 81-Set 222-1)211-7 1051P, 1052P (Ch. P1200D) (See PGB 75-Set 216-1 and Model 1010P-Set 188-6) 10537, 1054P (Ch. R1200D) (See PGB 75-Set 216-1 and Model 1010P-Set 188-6) 1055C, 1054C (Ch. R1200D) (See PGB 75-Set 216-1 and Model 1010P-Set 188-6) 1055C, 1054C (Ch. T1200D) (See PGB 75-Set 216-1 and Model 1010P-Set 188-6) 1060C, 1061C (Ch. T1200D) (See PGB 75-Set 216-1 and Model 1010P-Set 188-6) 1062C, 1063C (Ch. J1200D) (See PGB 75-Set 216-1 and Model 1010P-Set 188-6) 1062C, 1063C (Ch. J1200D) (.211-7 1074 (Ch. AG1200D)211-7 1074 (Ch. AG1200D)211-7 1075A (Ch. AG1200D)211-7 1076A (Ch. AG1200D)211-7 1078AT (Ch. AG1200D) (See PCB 81-Set 222-1)211-7 1081B (Ch. AZ1200D (See PCB 81-Set 222-1)211-7 1081B (Ch. AA1200D) (See PCB 81-Set 222-1)211-7 1081B (Ch. AA1200D) (See PCB 81-Set 22
PCB 75-Set 216-1 and Model 1010P-Set 188-6)
 1060C, 1061C (Ch. T1200D) (See PCB 75—Set 216-1 and Model
1010P—Set 188-6) •1062C, 1063C (Ch. J1200D) (See
PCB 75-Set 216-1 and Model
•1072 (Ch. AG1200D)2117
•1074 (Ch. AG1200D)211-7
•1074A (Ch. AR1200D)
PCB 81Set 222-1) 211-7 ●1075 (Ch. AG1200D) 211-7
1075A (Ch. AR1200D)211-7 1075AT (Ch. AY1200D) (Also see
PCB 81-Set 222-1) 211-7 01077 (Ch. AH1200D) 211-7
1078 (Ch. AG1200D)211-7
•1078AT (Ch. AY1200D) (Also see
PCB 81-Set 222-1)211-7 •1081, A (Ch. AJ1200D) (Also see
PCB 81-Set 222-1) 211-7
Set 222-1 and Model 1050-Set
•1081C (Ch. BA1200D) (See PCB 81
 211-71 01081C (Ch. BA1200D) (See PCB 81 Set 222-1 and Model 1050 Set 211-7) 01081D (Ch. A21200D) (See PCB 81 Set 222-1 and Model 1050 Set 211-7) 01081E (Ch. BA1200D) (See PCB 81
1081D (Ch. AZ1200D) (See PCB 81 —Set 222-1 and Model 1050—
Set 211-7)
-Set 222-1 and Model 1050-
•1085A (Ch. AJ1200D) (Also see
PCB 81—Set 222-1) 211—7 • 1085B (Ch. AZ1200D) (See PCB 81
-Set 222-1 and Model 1050-
Set 211-7) 01085A (Ch. AJ1200D) (Also see PCB 81—Set 222-1) 211—7 01085B (Ch. AJ1200D) (See PCB 81 —Set 222-1 and Model 1050— Set 211-7) 1085C (Ch. 8A1200D) (See PCB 81 —Set 222-1 and Model 1050— Set 211-7) 01085C (Ch. 8A1200D) (See PCB 81 —Set 222-1 and Model 1050— Set 211-7)
Set 211-7)
-Set 222-1 and Model 1050-
Set 211-7) • 1085E (Ch. BA1200D) (See PCB 81
det 211-7) 1085D (ch. A21200D) (See PCB 81 −Set 222-1 and Mode) 1050− Set 211-7) €1085E (ch. BA1200D) (See PCB 81 −Set 222-1 and Mode) 1050− Set 211-7)
010884 (Ch. AJ1200D) (Also see PCB 81—Set 222-1)211—7 010888 (Ch. AZ1200D) (See PCB 81 —Set 222-1 and Model 1050— Set 211-7)
•10888 (Ch. AZ1200D) (See PCB 81
• 1088C (Ch. BA1200D) (See PCB 81 —Set 222-1 and Model 1050— Set 211-7)
Set 211-7)
•1088D (Ch. AZ1200D) (See PCB 81 —Set 222-1 and Model 1050— Set 211-7)
ange Bulletin Nos. 1 Through 63 Are ange Bulletin Nos. 64 Through 104 Are
ange senath Hos. of Hindogh 104 Ale

HALLICRAFTERS-Cont.

505 (Early)	 1092 (Ch. AZ1200D) (See PCB 81— Set 222-1 and Model 1050—Set
91-6 B 32-Set	211-7)
65-7	•1111P (Ch. A1200D) 188—6 •1113P (Ch. D1200D) 188—6 1621, 1622 (Run 1) 253—8
80—7 91—6 80—7	1621, 1622 (Run 1)
80-7 92-3	
80—7 92—3	A17912 17912 17914 17915 H
80-7	17814, 17817, 155–8 17816, 17817, 156–6 17819, 155–8 17824, 155–8
0.2 2	•17824
107-5 .250-12 .271-5 .113-3 .113-3 .113-3	17825 (See Model 17804C—Set 155-8)
113-3	•17829 (Ch. F1100D) (See Model 1002-Set 169-7)
113-3 113-3)	•17838
	●17860-H, 17861-H
odel 680	152-9) •17906
105-4	• 17908 (See Model 17824-A-Set 165-6)
105-4 105-4 136-9 136-9 124-6	• 17922 (See Model 17824-A-Set 165-6)
136-9	•17930, 17931, 17932, 17933, 17934
	• 20823B (Ch. L900D) 167-10
	• 20823C • 20882
Set 124-6) 124-6 121-1A 124-6	• 21923
	•21928 165-6 •21940 165-6
810A-Set	21928 1656 21980 1656 Ch, Al100D (See Model 1005) Ch, Al200D (See Model 1010P) Ch, Al600D (See Model 1713108) Ch, AG1200D (See Model 1072) Ch 400D (See Model 1072)
Set 124-6)	Ch. A1200D (See Model 1010P) Ch. A1600D (See Model 17T310B) Ch. A1600D (See Model 17T310B)
ee Model	
. F1100D) . 169—7 D) 177—8	Ch. AJ1200D (See Model 1081) Ch. AL1200D (See Model 1050) Ch. AR1200D (See Model 1072A)
169—7	
K1200D,	Ch A71200D (See Model 1091B)
188-6 K1200D,	Ch. A21200D (See Model 1081B) Ch. BA1200D (See Model 1081C) Ch. D1200D (See Model 1021P) Ch. F1200D (See Model 1013C)
188-6	Ch. G1200D (See Model 1013C) Ch. G1200D (See Model 1022C)
1019 (Ch. 177-8	Ch. J1200D (See Model 1062C) Ch. K1200D (See Model 1010P)
180—7 L1200D, 188—6	Ch. L1200D (See Model 1017) Ch. L1200D (See Model 1051P) Ch. R1200D (See Model 1053P)
	Ch. 11200D (See Model 1055C) Ch. W1000D (See Model 1055C) Ch. W1200D (See Model 1010P)
L1200D,	Ch. W1200D (See Model 1010P) Ch. X1000D (See Model 1008)
188-6/	Ch. X1000D (See Model 1008) Ch. X1200D (See Model 1021P) Ch. Z1000D (See Model 1019)
	HAMILTON ELECTRONICS
ind Model	H-15-5 16-17 H-50-25 16-18
00D) (See	H-50-25 16-18 HAMILTON RADIO CORP.
00D) (See and Model	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic)
00D) (See and Model 200D) (See and Model	H-50-25
00D) (See and Model	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND HQ-129-X 8-18 SP-400-X 10-20
and Model 00D) (See and Model 200D) (See and Model 00D) (See and Model 00D) (See	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND HQ-129-X 8-18 SP-400-X 10-20 HARVEY-WELLS AT-38-6, AT-38-12 32-11
00D) (See and Model 200D) (See and Model 00D) (See and Model 00D) (See and Model	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND HQ-129-X 8-18 SP-400-X 10-20 HARVEY-WELLS AT-38-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14
and Model 00D) (See and Model 200D) (See and Model 00D) (See and Model	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND HQ-129-X 8-18 SP-400-X 10-20 HARVEY-WELLS AT-38-6, AT-38-12 32-11
and Model 00D) (See and Model 200D) (See and Model 00D) (See and Model 00D) (See and Model 00D) (See and Model	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND HQ-129-X HQ-129-X 8-18 SP-400-X 10-20 HARVEY-WELLS 31-11 AT-38-6, AT-38-12 36-14 HEATH HBR-5 HOFFMAN 24-20
and Model 00D) (See and Model 200D) (See and Model 00D) (See and Model and Alao and and	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARUUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARVEY-WELLS 32-11 AT:38-6, AT:38-12 32-11 AT:3-6, AT:3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A:202 (Ch. 113) 1-21
and Model 00D) (See and Model 200D) (See and Model 00D) (See and Model and Alao and and	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARUUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARVEY-WELLS 32-11 AT:38-6, AT:38-12 32-11 AT:3-6, AT:3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A:202 (Ch. 113) 1-21
and Model 00D) (See and Model 200D) (See and Model 00D) (See and Model and Alao and and	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARUUD HQ-129-X HQ-129-X 8-18 SP-400-X 10-20 HARVEY-WELL5 32-11 AT-38-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH H8R-5 24-20 HOFFMAN 4-23 A:200 (Ch. 119) 11-11 A:300 (Ch. 119) 14-41 A:300 (Ch. 119) 11-11 A:300 (Ch. 119) 11-11 A:300 (Ch. 119) 11-11 A:01 (Ch. 102) 11-12
ind Model 00D) (See ind Model 200D) (See ind Model 00D) (See ind Model 0211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-20 HARVEY-WELL5 32-11 AT-3B-6, AT-3B-12 32-11 AT-3B-6, AT-3B-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-202 (Ch. 119) 11-11 A-300 (Ch. 103) 4-33 A-501 (Ch. 107) 4-34 A-501 (Ch. 107) 4-34 A-501 (Ch. 107) 3-35
ind Model 00D) (See ind Model 200D) (See ind Model 00D) (See 100D) (See 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND Ho-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND Ho-129-X HARMARLUND HARVEY-WELLS AT-3B-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A:202 (Ch. 119) 11-11 A:300 4-21 A:209 (Ch. 119) 11-11 A:300 (Ch. 102) 11-11 A:300 (Ch. 103) 4-23 A:209 (Ch. 119) 11-11 A:300 (Ch. 103) 4-23 A:201 (Ch. 103) 11-11 A:301 (Ch. 1083T) 3-33 A:700 (Ch. 103) 12-15 A:000 72-17 B:000 72-16 A:000 40
ind Model 00D) (See ind Model 200D) (See ind Model 00D) (See 100D) (See 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND Ho-129-X HQ-129-X 8-18 SP-400-X 10-20 HARAWEY-WELLS AT-38-6, AT-38-12 AT-38-6, AT-38-12 32-11 ATR-3-6, AT-38-12 36-14 HEATH HBR-5 HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-209 (Ch. 119) 11-11 A-300 4-41 A-300 (Ch. 103) 4-23 A-200 (Ch. 103) 4-23 A-300 (Ch. 103) 4-23 A-300 (Ch. 103) 4-23 A-301 (Ch. 103) 4-23 A-302 (Ch. 105) 11-11 A-303 (Ch. 10857) 3-35 B-400 20-14 C-501 48-11 C-502 50-9
ind Model 00D) (See ind Model 200D) (See ind Model 00D) (See ind Model 0211-7 211-7	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND Hq-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND Hq-129-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 36-14 HEATH HBR-5 HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 4-41 A-300 (Ch. 103) 11-12 A-500 (Ch. 107) 4-34 A-501 (Ch. 102) 11-11 A-600 17-17 B-400 17-17 B-400 17-17 B-1000 20-14 C-501 42-16 C-503 50-9 C-503 42-10
ind Model 00D) (See ind Model 200D) (See ind Model 2010) (See 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 201-7 211-7 201-7 211-7 201-7 211-7 201-7 211-7 201-7 211-7 201-7 210-7 2050-Set 200-	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND Hq-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND Hq-129-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 36-14 HEATH HBR-5 HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 4-41 A-300 (Ch. 103) 11-12 A-500 (Ch. 107) 4-34 A-501 (Ch. 102) 11-11 A-600 17-17 B-400 17-17 B-400 17-17 B-1000 20-14 C-501 42-16 C-503 50-9 C-503 42-10
ind Model 00D) (See ind Model 200D) (See ind Model 200D) (See ind Model 00D) (See (Also se 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 211-7 (Also see 211-7 (Also see 211-7 (Also see 211-7 (Bioso-set 211-7 1050-Set 1150-	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND HQ-129-X HQ-129-X B-18 SP-400-X 10-20 HARMARLUND HQ-129-X HARVEY-WELLS AT.3B-6, AT.3B-12 AT.3B-6, AT.3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 HOFFMAN 4-23 A-200 (Ch. 103) 4-24 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-21 A-300 11-11 A-300 11-11 A-301 (Ch. 102) 11-11 A-501 (Ch. 1035) 12-16 B-400 17-17 B-1000 26-14 C-303 49-10 C-304 (Ch. 123) 47-10 C-305 C-507 49-10 C-304 2
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARMARLUND 10-20 HARVEY-WELLS 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, AT-38-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-24 A-300 4-41 A-300 (Ch. 102) 11-11 A-300 (Ch. 102) 11-12 A-500 (Ch. 103) 4-23 A-501 (Ch. 102) 11-12 A-500 (Ch. 103) 12-16 B-400 17-17 B-1000 12-16 B-400 17-17 B-1000 451-9 C-501 45-19 C-503 47-010 C-513 50-9 C-514 47-10 C
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<></td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<>
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<></td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<>
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<></td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<>
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<></td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<>
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<></td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND H0-129-X HQ-129-X 8-18 SP-400-X 10-20 HARMARLUND H0-27-X HARVEY-WELLS 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, AT-3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 24-20 HOFFMAN 4-23 A-200 (Ch. 103) 4-23 A-500 (Ch. 102) 11-11 A-501 (Ch. 102) 12-16 B-400 17-17 B-1000 20-14 C-501 45-19 C-503 45-19 C-504 (Ch. 123) 47-10 C-513 50-9 C-514 <t< td=""></t<>
ind Model 00D) (See ind Indice ind Indice indice indice indin indin </td <td>H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND HQ-129-X HQ-129-X B-18 SP-400-X 10-20 HARMARLUND HQ-129-X HARVEY-WELLS AT.3B-6, AT.3B-12 AT.3B-6, AT.3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 HOFFMAN 4-23 A-200 (Ch. 103) 4-24 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-21 A-300 11-11 A-300 11-11 A-301 (Ch. 102) 11-11 A-501 (Ch. 1035) 12-16 B-400 17-17 B-1000 20-14 C-304 (Ch. 123) 47-10 C-304 (Ch. 123) 47-10 C-303 C-30-9 C-313 50-9</td>	H-50-25 16-18 HAMILTON RADIO CORP. (See Olympic) HAMMARLUND HQ-129-X HQ-129-X B-18 SP-400-X 10-20 HARMARLUND HQ-129-X HARVEY-WELLS AT.3B-6, AT.3B-12 AT.3B-6, AT.3B-12 32-11 ATR-3-6, ATR-3-12 36-14 HEATH HBR-5 HOFFMAN 4-23 A-200 (Ch. 103) 4-24 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-23 A-200 (Ch. 103) 4-21 A-300 11-11 A-300 11-11 A-301 (Ch. 102) 11-11 A-501 (Ch. 1035) 12-16 B-400 17-17 B-1000 20-14 C-304 (Ch. 123) 47-10 C-304 (Ch. 123) 47-10 C-303 C-30-9 C-313 50-9

HALLICRAFTERS-Cont.

•1092 (Ch. AZ1200D) (See PCB 81-Set 222-1 and Model 1050-Set

Denotes Television Receiver.

HOFFMAN-Cont.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $
• 20M101 (Ch. 183T) 168-8 • 20M101F (Ch. 194) 201-5
• 20M500 (Ch. 183T) 168-8 • 20P502 (Ch. 183T) 168-8
•21B107 (Ch. 191, B)201-5 •21B116 (Ch. 196, M)195-8
●21B122 (Ch. 211, M) 194-4 ●21B134 (Ch. 211) (See Model
218122-Set 194-4) • 218137 (Ch. 196) (See Model
218116-Set 195-8) 21813714 (Cb. 196 M1 (See PCB 124
-Set 280-1 and Model 218116-
•218144, U (Ch. 300-21) (Also see
• 218147, U (Ch. 401-21) 249-8
•218154, U (Ch. 301-21)
•218161A, U (Ch. 406-21) (See Model 218161—250-13)
●21B164, U (Ch. 301-21)254—6 ●21B164X, U (Ch. 301X-21) (See
Model 21B154—Set 254-6) • 21B167, U (Ch. 302)254—6
•21B167A, U (Ch. 302) (See Model 21B167—Set 254—6)
•21B179, L, LU, N, NU, U (Ch. 407- 21, L, N)
●21B301 (Ch. 191, B)201—5 ●21B306B (Ch. 211, M)194—4
●218309 (Ch. 196M, T) 195—8 ●218309U (Ch. 196M, T) (See PCB
124-Set 280-1 and Model 218309-Set 195-81
e21B315 (Ch. 2117) (See Model 21B122 Set 194.4)
•21B318, U (Ch. 300-21) (Also see
•21B321, U (Ch. 400-21)
•21B331, 0 (Ch. 405-21) 250-13 •21B334, U (Ch. 405-21) 250-13
•218337, U (Ch. 301-21) 254-6 •218337P, U (Ch. 302)254-6
•21B339, U (Ch. 406-21) (See Model 21B161—Set 250-13)
●218346, U (Ch. 407-21)284-8 ●218352, U (Ch. 408-21)277-7
●218352L, LU (Ch. 408-21L) 277-7 ●218352N, NU (Ch. 408-21N)
● 218504 (Ch. 191 B) 201-5
●218507 (Ch. 211, M) 194 4 ●218510, T. (Ch. 196) (San Madal
218116-Set 195-8)
124 - Set 280-1 and Model
• 218701 (Ch. 191, B) 201-5
•218701 (Ch. 196M, 1) 193-6 •218701TU, U (Ch. 196M, T) (See
218701—Set 195-8)
•218/16 (Ch. 2111) (See Model 218122-Set 194-4)
•218719, U (Ch. 300-21) (Also see PCB 108-Set 256-1) 236-6
●218723, U (Ch. 400-21)249—8 ●218729U (Ch. 408-21)277—7
•218901 (Ch. 192) (TV Ch. only) 201-5
●218904 (Ch. 213, M)211—8 ●218907 (Ch. 199, M, T and Radie
Ch. 182)
2187290 (Ch. 408-21) 277—7 218901 (Ch. 192) (TV Ch. only) 218904 (Ch. 213, M) 201—5 218907 (Ch. 199, M, I and Radie Ch. 192,
•21M106 (Ch. 191, B)201-5 •21M115 (Ch. 196, M)195-8
•21M121 (Ch. 211, M) 194-4 •21M133 (Ch. 211) (See Model
218122-Set 194-4) @21M136 (Ch. 196) (See Model
218116-Set 195-8) •21M136U (Ch. 196) (See PCB 124
Set 280-1 and Model 218116-
•21M143, U (Ch. 300-21) (Also see PCB 108-Set 256-1)236-6
●21M146, U (Ch. 401-21) 249—8 ●21M153, U (Ch. 301-21) 254—6
21M160, U (Ch. 406-21)
Model 21M160—Set 250-13) •21M163, U (Cb. 301-21) (See
Model 21B154—Set 254-6) • 21M163X, (1 (Ch. 301X-21) (See
Model 218154—Set 254-6)
21M166A, U (Ch. 302) (See Model
•21M178, L, LU, N, NU, U (Ch.
•21M300 (Ch. 191, B)
•21M305 (Ch. 201)
•21M308 (Ch. 196M, T) 193-8 •21M308U (Ch. 196M, T) (See PCB
21M308-Set 280-1 and Model 21M308-Set 195-8)
21B122-Set 194-4)
PCB 108—Set 256-1) 236-6
•21M320, U (Ch. 400-21) 2498 •21M330, U (Ch. 406-21) 250-13
•21M333, U (Ch. 406-21) 250-13 •21M336, U (Ch. 301-21) 254-6
021M336P, U (Ch. 302)
Model 21B161-Set 250-13)
● 21M345, U (Ch. 407-21)284—8 ● 21M351, U (Ch. 408-21)277—7
021M351L, LU (Ch. 408-21L) 277-7 021M351N, NU (Ch. 408-21N)
• 21M503 (Ch. 191, B)
e21M506 (Ch. 211, M) 194-4
21B116—Set 195-8)
■21M50910, 0 (Ch. 196) (See PCB
124 — Set 280-1 and Model
 110122-51 196-81 (See Model 211136-55-198-81) 21M136U (Ch. 196) (See PCB 124-55-195-8) 21M136U (Ch. 196) (See PCB 124-55-195-8) 21M136U (Ch. 196) (See PCB 124-55-195-8) 21M136U (Ch. 301-21) (Alto see PCB 108-55+256-11)234-65 21M136U (Ch. 301-21)249-88 21M136U (Ch. 301-21)254-65 21M163, U (Ch. 3021) (See Model 218154-55-155 21M163, U (Ch. 3021, See PCB 108-55-13) 21M163, U (Ch. 3021, See PCB 108-55-13) 21M164, U (Ch. 3021, See Model 218154-55-165 21M1305 (Ch. 191, B)261-55 21M305 (Ch. 191, B)261-55 21M305 (Ch. 191, B)261-55 21M305 (Ch. 190, T)155-85 21M305 (Ch. 190, T)155-85 21M305 (Ch. 201)255-13 21M305 (Ch. 201)255-13 21M305 (Ch. 301, 21)255-13 21M305 (Ch. 191, B)201-55 21M305 (Ch. 191, B)201-55 21M305 (Ch. 191, B)201-35 21M305

NOTE: PCB Denotes Production Change Bulletin.

Production Ch Production Ch All Contained in Set No. A-200 All Contained in Set No. A-250

HOFFMAN-LEAR

HOFFMAN-LEAK +OFFMAN-Cont. • 21M700TU, U (Ch. 196M, T) (See FCB 124-Set 280-1 and Madel 21M710-Set 195-8) • 21M710 (Ch. 2111) (See Madel 21B122-Set 194-4) • 21M710, U (Ch. 300-21) (Also see FCB 108-Set 256-11...236-6 • 21M728U, U (Ch. 400-21) • 21M728U, UU (Ch. 408-211) • 21M728U (Ch. 408-21) • 21M700 (Ch. 197, M) • 21M900 (Ch. 375-21) (See FCB 108 • Set 236-6) • 21P108 (Ch. 197, B) • 201-5 •920 (Ch. 152) [See Model 830— Set 97A-6] •946, 947, 948 (Ch. 164) ..97A—7 •950, 951, 952 (Ch. 172), 950A, 953, 954, 952 (Ch. 174) ...127—6 •953, 954, 955 (Ch. 184) ...141—7 Ch. 102 (See Model A401) Ch. 103 (See Model A401) Ch. 103 (See Model A401) Ch. 103 (See Model A401) Ch. 105 (See Model A401) Ch. 105 (See Model A401) Ch. 105 (See Model A401) Ch. 114 (See Model A500) Ch. 114 (See Model A202) Ch. 123 (See Model A202) Ch. 123 (See Model A202)

NOTE: PCB Denotes Production Change Bulletin.

HOFFMAN-Cont. HOFFMAN-Cont. Ch. 137 (See Madel 902) Ch. 140 (See Madel 902) Ch. 141 (See Madel 902) Ch. 142 (See Madel 902) Ch. 142 (See Madel 802) Ch. 143 (See Madel 826) Ch. 143 (See Madel 826) Ch. 147 (See Madel 826) Ch. 147 (See Madel 826) Ch. 148 (See Madel 914) Ch. 153 (See Madel 914) Ch. 153 (See Madel 914) Ch. 153 (See Madel 916) Ch. 153 (See Madel 916) Ch. 153 (See Madel 900) Ch. 154 (See Madel 900) Ch. 155 (See Madel 960) Ch. 155 (See Madel 960) Ch. 173 (See Madel 960) Ch. 173 (See Madel 960) Ch. 177 (See Madel 960) Ch. 177 (See Madel 960) Ch. 177 (See Madel 900) Ch. 178 (See Madel 900) Ch. 182 (See Madel 900) Ch. 183 (See Madel 9100) Ch. 183 (See Madel 9100) Ch. 183 (See Madel 9100) Ch. 184 (See Madel 9100) Ch. 185 (See Madel 9100) Ch. 185 (See Madel 9100) Ch. 186 (See Madel 9100) Ch. 187 (See Madel 218707) Ch. 197 (See Madel 218107) Ch. 211 (M (See Madel 218701) Ch. 213 (See Madel 218107) Ch. 213 (See Madel 218701) Ch. 213 (See Madel 218107) Ch. 214 (See Madel 218107) Ch. 301-71 (See Madel 218113) Ch. 213 (See Madel 218107) Ch. 301-71 (See Madel 218107) Ch. 402-71 (HOWARD HUDSON (Auto Radio)
 BB47 (Foct. No. 64/H089).
 25-16

 DB484 (Foct. No. 64/H089).
 25-16

 DB848 (Foct. No. 64/H089).
 25-90

 225908 (Lore) (Ch. 749-1).
 167-11

 229403 (Ch. 749-2).
 167-11

 236486 (5H758).
 215-8

 236486 (5H758).
 214-4
 HUDSON (Dept. Stores) ■ 321M3370 (2000) ■ 51876A (Similar to Chossis) 85—3 ■ 51879A-918 (Similar to Chossis) 78—4 ■ 518710A-916 (Similar to Chossis) 78—4 •518TIOA-910 (Similar to Chassis) 85-33 85-3 •2318104-732 (Similar to Chassis) •231879A-912 (Similar to Chassis) 78-4 •2318174-714 [Similar to Chassis] •2321MS39A (Similar to Chassis] •226-11 HUDSON ELECTRONICS
 HUDSON ELECTRONICS

 RPM-71
 186-6

 300
 186-7

 3010R
 194-5

 312H
 194-5

 324H
 194-5

 327H
 123-6

 3478L
 121-6

 374H
 123-6

 374H
 124-6

 374H
 121-8

 360
 126-6

 374H
 188-7

 384
 191-12

 HYDF PASK
 194-5
 HYDE PARK • AR14L • AR17L • MST12, MST14 • 14TR, 16TR • 17CD (1st Prod.) • 17CD (2nd Prod.) 169—8 169—8 168—9 168—9 168—9

HYDE PARK-Cont. 17CRR (1st Prod.)
17CRR (2nd Prod.)
17ROG (1st Prod.)
20CD (1st Prod.)
20CD (2nd Prod.)
20CD (2nd Prod.) 168 9 169 8 168 9 168 9 168 9 168 9 168 9 168 9 168 9 168 9 168 9 168 9 168 9 168 9 168 9 168 9 20CD (2nd Prod.) 20TR 203R 203D (2nd Prod.) 203D (2nd Prod.) 312 819 1000, 1001 3163CR 8163CR 8163CR 168_0 168_9 INDUSTRIAL ELECTRONIC CORP. (See Simplon) INTERNATIONAL ELECTRONICS (See Recorder Listing) JACKSON
 316
 132_-8

 350
 131_-9

 412
 132_-8

 416
 132_-8

 1400 [See Model 10C_Set 132.8]
 130.6

 14000, T [See Model 10C_Set 132.8]
 130.0

 13000, T [See Model 10C_Set 132.8]
 5000, 5050

 5000, 5050
 88-5

 55000, 5550
 88-5

 5600, 5550
 88-5

 Ch. 114H, 117H
 162_-7

 Ch. 120H
 62_-7

 Ch. 321-8, -D
 226-3

 Tersenson Travilla, -D
 226-3
 JEFFERSON-TRAVIS MR-28 MR3 10-22 JEWEL JEWEL
91700, 1719, 171W7
187-7
3000, 2179
33-1
3004
33-12
5004, B, C, 5014, B, C, 5024, B, C, 5024, B, C, 504, B, C, 5054, B, 99---8 99---8 55-10
 915
 99-8

 920A
 55-10

 921 (See Model 920-Set 55:10)
 935, 936 (See Model 920-Set 55:10)

 935, 936 (See Model 920-Set 55:10)
 98-5

 955
 98-5

 956
 98-5

 956
 98-5

 960U, 961 (See Model 960-Set 55:10)

 9785
 98-5

 985
 97-8

 960U, 961 (See Model 960-Set 960-Set 960-50:50:1111-7

 97:0
 183-7

 5010
 111-7

 5020 (See Model 5020-Set 136-10

 5030
 128-7

 50350
 128-7

 50350
 128-7

 50350
 127-7

 5000
 194-6

 5203
 196-4

 5203
 196-4

 5203
 206-7

 5310
 225-12

 5310
 225-12
 920A KAISER-FRAZER
 200002
 S4-10

 KAPPLER
 102T

 102T
 S4-10

 KARADIO
 233-3

 80C
 66-10

 1275, 1275A
 85-7

 1276
 115-4
 KAYE-HALBERT

KAYE-HALBERT-Cont. 003, 034, 035, 036, 037 (Ch. 242) 139-7 044, 045, 046 (Ch. 253) (Also see PC6 83-Set 197-1). 146-8 074, 076, 077 (Ch. 253) (Also see PC6 83-Set 197-1). 146-8 104, 114 (Ch. F-243) (See Model 012-Set 169-9) 104 (Ch. 243) (See Model 012-Set 169-9) 114 (Ch. 243) (See Model 012-Set 169-9) 1122 (Ch. 243) (See Model 012-Set 169-9) 122 (Ch. 7-243) (See PC8 96-Set 241-1 and Model 012-Set 169-9) 124 (Ch. F-243) (See PC8 96-Set 241-1 and Model 012-Set 169-9) 138 (Ch. F-243) (See PC8 96-Set 241-1 and Model 012-Set 169-9) 138 (Ch. F-243) (See PC8 96-Set 241-1 and Model 012-Set 169-9) 138 (Ch. F-243) (See PC8 96-Set 241-1 and Model 012-Set 169-9) 138 (Ch. F-243) (See PC8 96-Set 241-1 and Model 012-Set 169-9) 144, 145, 146 (Ch. F-243) (See PC8 96-Set 241-1 and Model 012-Set 169-9) 144, 145, 146 (Ch. F-243) (See PC8 96-Set 241-1 and Model 012-Set 169-9) 144, 145, 146 (Ch. F-243) (See PC8 96-Set 241-1 and Model 012-Set 169-9) 144, 145, 146 (Ch. F-243) (See PC8 9170-9) 144 (Ch. 233) (See Model 012-Set 169-9) 144 (Ch. 233) (See PC8 45-Set 170-9) 144 (Ch. 243) (See Model 012-Set 169-9) 144 (Ch. 243) (See PC8 45-Set 241-1 and Model 012-Set 169-9) 144 (Ch. 243) (See PC8 45-Set 169-9) 145 (Ch. 243) (See PC8 45-Set 169-9) 144 (Ch. 243) (See PC8 45-Set 169-9) 144 (Ch. F-243) (See PC8 45-Set 169-9) 144 (Ch. F-243) (See PC8 45-Set 170-9) 144 (Ch. F-243) (See PC8 45-Set 179-1 and Model 012-Set 169-9] 334 (Ch. F-243) (See PC8 45-Set 179-1 and Model 012-Set 179-1 and Model 012-Set 179-1 and Model 012-Set 179-1 and Model 012-Set 179-9 338 (Ch. 253DX) (See PC8 45-Set 179-9 336 (Ch. 253DX) (See PC8 45-S KAY MUSICAL INSTRUMENT CO. 77 42-13 KEENEY (J. H.) (See Croydon) KITCHENAIRE 93-380 LAFAYETTE LAMCO LEAK

5 Tube Radio 6-14 KNIGHT (Also see Recorder Listing)
 (Also see Recorder Listing)

 SX81727
 .244-6

 SX101722
 (See Model 722-Set 240-4)

 SX111719
 .246-7

 SX111719
 .246-7

 SX111710
 .246-7

 SX111710
 .246-7

 SX111710
 .246-7

 SX111710
 .248-8

 40-430
 .40-9

 40-430
 .40-9

 40-430
 .40-9

 5A150, 5A152, 5A154
 .12-17

 5B-160
 .20-15

 Sta177
 .20-15
 20-16 S5-11 34-9 50-250, 50-251, 344 - 9 50-250, 55-251 (Similar to Chasis) 55-250, 55-251 (Similar to Chasis) 57-250, 55-326, 55-32 57-536 (Similar to Chasis) 57-250, 55-326 57-250, 55-326 57-250, 55-320 57-250, 55-320 57-250, 55-320 57-320, 57-320 57-320, 5 143-10) 5H-607, 5H-608 (Similar to Chas-sisi) 5H-678, 5H-679 (Similar to Chas-sis) 5H-678, 5H-679 (Similar to Chas-sis) 5H-700 123-7 sis) 5H-700 5J-705 5K715 6A-122 6A-127 174-8 9-18
 78-220
 247-14

 7D-405
 31-11

 8D-340
 24-13

 8D-340
 24-13

 8D-340
 24-13

 8D-340
 24-13

 8D-340
 24-13

 8D-340
 24-14

 8D-340
 24-14

 8D-824
 2-14

 108-200
 29-12

 110-302
 57-9

 121-610
 176-5

 145-406
 63-12

 185-50
 158-50

 195-402
 194-49

 195-402
 194-49

 125-91
 195-402

 195-402
 194-49

 125-91
 195-402

 125-91
 194-49

 9353212
 288-5

 93-024
 32-13

 93-103
 31-15

 93-104
 32-13

 93-103
 31-16

 93-120
 74-3

 93-320
 74-3

 93-320
 74-3

 93-320
 74-3

 93-320
 74-3</t 164-4 288-5 255-7 31-15 32-13 31-16 36-15 37-10 38-8 74-5 99-9 76-13 79-9 75-10 90-8 167-12 287-10 289-5 160-6 137-5
 9-3-431
 187-10

 945445
 287-10

 945475
 289-57

 96-279
 160-6

 96-326
 137-5

 96-334 (Similor to Chassis)
 139-15

 97-70
 8-9

 97-870
 78-9
 97-870 78-449 83-5118 125-LAFAYETTE FA15W, FA15Y 15-15 162, 162C 16-21 MC108, MC10Y 14-16 MC11 28-18 MC12 27-15 MC13 15-16 MC16 28-18 MC13 27-16 MC16 28-18 MC13 27-16 MC16 28-18 MC17 28-18 MC17 28-18 MC18 28-18
 IN554, IN555 (Similar to Chassi)

 S5-10

 IN555, IN557 (Similar to Chassi)

 109—7

 IN559 (Similar to Chassi)

 IN560, IN557 (Similar to Chassi)

 IN560, Similar to Chassi)

 IN561, IN562 (Similar to Chassi)

 97—8

 IN810 (Similar to Chassi)

 97=1184 (Similar to Chassi)

 97=1184 (Similar to Chassi)

 91784 (Similar to Chassi)

 920CP (Similar to Chassi)

 920CP (Similar to Chassi)

 920CH 1000 16-20 LEAR (See Record Changer Listing) · Denotes Television Receiver.

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

LEARADIO
RM.402C (Learavian) 42-15 561, 562, 563 1-26 563, 563BL, 566, 567, 568 9-20 1281-PC (Ch. 7B) 9-11 6610PC, 6611PC, 6612PC 9-21
1281-PC (Ch. 7B)
6610PC, 6611PC, 6612PC. 9-21 6614, 6615, 6616, 6619. 3-18
6614, 6615, 6616, 6619. 3-18 6617PC 16-22 Chassis R-971 51-11
LEE (See Royal)
LEE TONE AP-100
LEWYT
615A 11–13 711 42–16
LEXINGTON 42-16
6545
LIBERTY
A6K, A6P, 6K 20-18 507A 20-19
LINCOLN (Auto Radio)
FAA-18805
FAA-18805 FAG-18805-A FDD-18805-A, -B FDD-18805-A, -B FDD-18805-A, -B
FAA-18805 167—7 FAG-18805-A 214—5 FDD-18805-A 246—8 GL892 (OL-18805-A) Set 522-1 and Ford Model GF890 (OA-18805-B) Set
GF890 (OA-18805-B) Set 109-51
109-5] 1CH748 (1H-18805) (See Ford Mod- el 1CF743—Set 133-7)
el 1CF/43-Set 133-/) 1CH748-1 (1H-18805)158-5 1H-18805 (See Model 1CH748 or
2CH753 (FAA-18805-A)167-7 3SH756 (FAG-18805-A)214-5
4SH764 (FDD-18805-A), 4SH766 (FDD-18805-B)
5EH-18805-A
7ML080 (5EH-18805-A), 7ML081
(5EH18805-B)
BH-18805-B CO-11 8H-18805-A 83-4 8H-18805-A (See Model 8ML882Z- Set 44-7 or 8ML985Z-Set 83-4) 8L-18805-A (See Model 8ML882Z- Model 8ML882- Set 44-7 or 8ML985-Set 83-4)
8L-18805-A (See Model 8ML882- Set 44-7 or 8ML985-Set 83-4)
8L-18805-B 83-4 8ML882 (8L-18805-A), 8ML882Z
(8H-18805-A) (Ch. 8E82) 447
8ML985 (8L-18805-A), 8ML985E (8L-18805-B), 8ML985Z (8H-
18805-A), 8ML985ZE (8H-18805) 83-4
LINCOLN
S131-B 2-10
LINCOLN (Aliied Radio Corp.)
5A-110 5-34
LINDEX CORP. (See Swank)
LIPAN (See Supreme) LULLABY (See Mitchell)
LYMAN CM10, CM20 44—8
LYMAN CM10, CM20
LYMAN 44—8 CM10, CM20 44—8 LYRIC (Also see Rauland) 5461, 5461W 5461, 5461W, 5461W 7–17 MAGIC TONE 500, 501 504 (Bothe Receiver) 22–18 508 (Keg Radio) 38—9 510 52–10 900 38—9
LYMAN CM10, CM20
LYMAN CM10, CM20 44—8 LYRIC (Also see Rauland) 5407, 54617W 7–17 MAGIC TONE 5–40 504 (Bottle Receiver) 22–18 508 (Bottle Receiver) 38—9 MAGNAVOX 52–10 CP251M (Chasis AMP-128A, 8, AMP-129A, 8, AMP-129A, 8, AMP-129A, 74
LYMAN CM10, CM20
LYMAN CM10, CM20 44—8 LYRIC (Also see Rauland) 5407, 54617W 7-17 MAGIC TONE 5-40 5048 (Bottle Receiver) 22-18 5048 (Bottle Receiver) 22-18 5048 (Bottle Receiver) 38—9 MAGNAVOX CP251M (Chassis AMP-128A, B, AMP-128A, B, AMP-128), 254-7 252M (Chassis CR700 and AMP-128A, B, AMP-129) 254-7 254M (Chassis CR700 and AMP-128A, B, AMP-129) 24-7 254M (Chassis CR700 and AMP-128A, B, AMP-129) 254-7 254M (Chassis CR700 and AMP-128A, B, AMP-128
LYMAN CM10, CM20 44—8 LYRIC (Also see Rauland) 5407, 54617W 7-17 MAGIC TONE 5-40 5048 (Bottle Receiver) 22-18 5048 (Bottle Receiver) 22-18 5048 (Bottle Receiver) 38—9 MAGNAVOX CP251M (Chassis AMP-128A, B, AMP-128A, B, AMP-128), 254-7 252M (Chassis CR700 and AMP-128A, B, AMP-129) 254-7 254M (Chassis CR700 and AMP-128A, B, AMP-129) 24-7 254M (Chassis CR700 and AMP-128A, B, AMP-129) 254-7 254M (Chassis CR700 and AMP-128A, B, AMP-128
LYMAN CM10, CM20 44—8 LYRIC (Also see Rauland) 5407, 54617W 7-17 MAGIC TONE 5-40 5048 (Bottle Receiver) 22-18 5048 (Bottle Receiver) 22-18 5048 (Bottle Receiver) 38—9 MAGNAVOX CP251M (Chassis AMP-128A, B, AMP-128A, B, AMP-128), 254-7 252M (Chassis CR700 and AMP-128A, B, AMP-129) 254-7 254M (Chassis CR700 and AMP-128A, B, AMP-129) 24-7 254M (Chassis CR700 and AMP-128A, B, AMP-129) 254-7 254M (Chassis CR700 and AMP-128A, B, AMP-128
LYMAN CM10, CM20

LEARADIO	MAGNAVOX-Cont.	MAGUIRE-Cont.	MAJESTIC-Cont.	MASCO
RM-402C (Learavian) 42-15 561, 562, 563 1-26	Chassis CR-188 (155B Regency Sym-	661, 661A 12-18	•700, 701 (Series 106) (Also see	(Also see Recorder Listing)
563, 565BL, 566, 567, 568 9-20	phony)	700A 7–18 700E 15–17	PCB 43—Set 177-1)153—8 •712, 715, 717, 718, 719 (Series	AC-12, AC-24
1281-PC (Ch. 7B) 49-11 6610PC, 6611PC, 6612PC. 9-21	Chassis CR-192A, CR-192B. 41-11 Chassis CR-197C	MAJESTIC	106) (Also see PCB 43—Set 177- 1)	ACL 222-7 ACS, ACS-6 222-7 CAM-5 269-8
0014, 0013, 0016, 0019 3-18	Lhossis C.R. 198A. B. C. (Mepple-	• G-414	• 800, 801, 802, 803, 804 (Series 108) (Also see PCB 43-Set 177-	CAM-10
6617PC 16-22 Chassis R-971	white, Modern Symphony 17-20 Chassis CR-199 Chassis CR-199	• G-614	1)	CM-10
LEE (See Royal)	Chassis CR-200A, B, C, D, E, F 44-9	•G-914	•902, 903 (Ch. 103) 127—7 •910, 911 (Ch. 103) 127—7	CS-6P-3
LEE TONE	Chassis CR-207A, B, C, D. 41–12 Chassis CR-208A, CR-208E 43–13	4P1	• 1042, G, GU, T (See Model 12C4- Set 108-7)	CM-10
AP-100 16-23	Chassis CR-208A, CR-208E 43-13 Chassis CR-210A, CR-210B. 52-11 Chassis CR-211A, B	4504)	• 1043, G, GU, T (See Model 12C4	IM-10 JM-5 (Master Station), JR (Sub-
	Chassis CR300AA-1	5AK711	•1142, 1143 (See Model 12C4Set 108-7)	Station)
615A 711 11–13 42–16	Charrie CP 702A P (240M Sector)		●1244 G GU T TX (See Model	JM-10
LEXINGTON	Chassis CT-214, CT-218	5C-2, 5C-3 5LA5, 5LA6	12C4—Set 108-7) 1245, G, GU, T, TX (See Model	JMP-12
6545	• Chassis CT-219, CT-220 82-7 • Chassis CT-221	5LA7, 5LA8	12C4Set 108-7) •1348 (See Model 12C4Set 108-7)	MA-8N
LIBERTY A6K, A6P, 6K 20-18	•Chassis CT-222 82-7 •Chassis CT-224 97A-8	6FM714 (Ch. 6802D) 50-10 6FM773 (Ch. 6B11D) 57-10	●1400, B (Ch. 100)	MA-10HF
507A	• Chassis CT-232	78K758 (See Model 7J777R-Set 27-18)	Set 166-2)	MA-17
LINCOLN (Auto Radio) FAA-18805	• Chossis CT-235	7C432 (Ch. 4706) 14-17 7C447 (Ch. 4707) (See Model	• 1546, G, GU, T (See Model 12C4- Set 108-7)	MA-17N
FAG-18805-A	954.0 and Ch (T210	7C432-Set 14-17)	• 1547, G, GU, T (See Model 12C4 Set 108-7)	MA-17PN
GL892 (OL-18805-A) [See PCB 105 Set 252-1 and Ford Model	• Chassis CT239	7FM877, 7FM888 (Ch. 7C11D) 56-14	•1548, G, GU, T (See Model 12C4	JM-10 187—8 JMP-6 147—7 JMP-12 147—7 JMR-13 147—7 JMR 31–17 MA-80N 119—8 MA10EX 113—4 MA-12HF 51–13 MA-17N 50–11 MA-17P 14–32 MA-17PN 50–11 MA-20HF 28–21 MA-25EX 60–15 MA-25EX 60–15 MA-25EN 43–14
Set 252-1 and Ford Model GF890 (OA-18805-B) Set	• Chassis CT250, CT251, 135-1A	7JK777R (Ch. 4708R) 27–18 7JL866 (Ch. 7C25A) 60–14	 1549, G, GÜ, T (See Model 12C4 Set 108-7) 	MA-25HF
109-5] 1CH748 (1H-18805) (See Ford Mod-	 Chassis CT250, CT251 135–1A Chassis CT252, CT253 95A-9 Chassis CT257, CT258, CT259, 	7P420 (Ch. 4705)	•1600, 1600B (Ch. 101) 1277	MA-25NR
el 1CF743-Set 133-7) 1CH748-1 (1H-18805) 158-5	CT260 • Chassis CT262, CT263, CT264,	4703) 22–19 7YR752 (Ch. 7B04A) 29–13	•1605, 1605B (Ch. 102) 127-7 •1610, 1610B (Ch. 102) 127-7	MA-25P
1H-18805 (See Model 1CH748 or	C1203	/YR/53 (Ch /B09A-1) 7YR/72	•1646, 1647, 1648, 1649 (See Model 12C4—Set 108-7)	43 -14) MA-35 21 -20
1CH748-1) 2CH753 (FAA-18805-A)167-7	• Chossis CT266, CT267, CT269 131-1A	(Ch. 7809A) 42-17 8FM744 (Ch. 8806D) 30-15	•1671, 1672, 1673, 1674, 1675 133-8	MA-35N 44-11 MA-35RC 21-20 MA-50 30-16
3SH756 (FAG-18805-A)214-5 4SH764 (FDD-18805-A), 4SH766	 Chassis CT-270, CT-271, CT-272, CT-273, CT-274, CT-275, CT-276. 		■ 1700C (See PCB 37—Set 166-2 and	MA-50
(FDD-18805-8)	Chossis CI-270, CI-271, CI-272, CI-273, CI-274, CI-275, CI-276, CI-277, CI-278, CI-279, CI-280, CI-281, CI-282, I48-8 Chossis CI283, I55-10	8607D) 29-14 8FM889 (Ch. 8C07D) 54-12 8JL885 (Ch. 4810B) 47-11	Model 17DA—Set 127-7) 1710 ({Ch. 101}	MA-50N 45-15 MA-50NR 53-14 MA-60 119-9 MA-75 28-22
5EH-18805-B 66-11 7ML080 (5EH-18805-A), 7ML081	• Chassis CT283	85452, 85473 (Ch. 4810). 8-19 10FM891 (Ch. 10C23E) (See Model	166-2 and Model 17DA-Set	MA-60
(5EH18805-B)	Chassis CT283	10FM981-Set 65-8]	127-7) •1720, 1721 (See PCB.37—Set 166-2	MA-75N 52-27 MA-77, MA-77R 190-7
8H-18805 83-4 8H-18805-A (See Model 8ML882Z-			and Model 17DA—Set 127-7) • 1900	MA-121
Set 44-7 or 8ML985Z—Set 83-4) 8L-18805-A (See Model 8ML882-	Chassis CT290	12FM475, 12FM778, 12FM779 (Ch. 41201) 28-20 12FM895 (Ch. 12C22E) 59-11	•1974, 1975	MA-75N 26-27 MA-77N MA-77R 190-7 MA-121 24-21 MA-125 188-8 MA-808 26-18 MA-18 68 26-19 MA-19 66 19
Set 44-7 or 8ML985—Set 83-4) 8L-18805-8	• Chassis CT294	●12T2, 12T3	Set 108-7) • 25461, 25471, 25491 (See Model	MAP-18
8ML882 (81-18805-A), 8ML882Z (8H-18805-A) (Ch. 8E82) 447	Chassis CT301 thru CT314 .161-4 Chassis CT331 thru CT349 (105	•14C4 (See Model 12C4—Set 108-7)	12C4-Set 108-7)	MAP-105 25-18 MAP-105N 52-12 MAP-120N 21-21 MAP-120N 46-15 MB-8N 196-5
8ML985 (8L-18805-A), 8ML985E (8L-18805-B), 8ML985Z (8H-	Series] 68-10	•14CT4 133-8 •14T2 (See Model 12C4-Set 108-7)	Ch. 5B01A (See Model 5AK711) Ch. 5B05A (See Model 5AK731)	MAP-120
18805-A), 8ML985ZE (8H-18805)	 Chassis CT350 thru 357 (105 Series) (See Ch. CT331—Set 168-10) 	16C4, 16C5 108—7 16C74, 16C75 133—8 16T2, 16T3 108—7	Ch. 6B02D (See Model 6FM714) Ch. 6B11D (See Model 6FM773)	MB-50N
LINCOLN 83-4	 Chassis CT358 (107 Series) 226—4 Chassis CT358AA, AB, BA, BB, CB, 	•16T2, 16T3	Ch. 7B04A (See Model 7YR752) Ch. 7B09A (See Model 7YR772)	MB-60 127-8 MB-60 (Late) 148-10
S13L-B	DC (107 Series) (See Ch. CT358 -Set 226-4)	(See Series 112Set 233-4) •17C62, 17C64, 17C65 (Series 106)	Ch. 7B09A1 (See Model 7YR753) Ch. 7C11D (See Model 7FM887)	MB-75
LINCOLN (Allied Radio Corp.)	Chassis CT359AA, AB, BA, BB, CB (107 Series) (See Ch. CT358—Set	(See PCB 43-Set 177-1 and Mod- e1 70-Set 153-8)	Ch. 7C25A (See Model 7JL866) Ch. 8B06D (See Model 8FM744)	MB-77 206—8 MB-125 211—9
5A-110 5-34	226-4) • Chassis CT362, CT363 (105L, M	●17DA (Ch. 101)	Ch. 8807D (See Model 8FM776) Ch. 8808D (See Model 8FM775)	MC-25, MC-25P 17-21
LINDEX CORP. (See Swank) LIPAN (See Supreme)	Series)	•17T6A1, 17T6B1 (Series 106) (See Model 70-Set 153-8 and PCB 43	Ch. 8C07D (See Model 8FM889) Ch. 10C23E (See Model 10FM891)	MG-10 47-12 MC-25, MC-25P 17-21 MC-25N, MC-25PC, MC-25PN, MC- 25PC 57-11 MC-126, MC-126P 111-8 MCR-5 15-18 MCR-5 15-18
LULLABY (See Mitchell)	Series)	Set 177-1) •17T40, 17T41 (Series 112, 112-2)	Ch. 12B26E (See Model 12FM475) Ch. 12C22E (See Model 12FM895)	MCR-5 15-18
LYMAN	•Chassis CT385AA, AB, BA, BB, CB	(See Series 112—Set 233-4) •17162 (Series 106) (See PCB 43—	Ch. 18C90, 18C91 (See Model 7TV850)	ME-8 152–10 ME-18, ME-18P 151–8 ME-27 155–11 ME-27 (Revised) 270–9
CM10, CM20 44-8	(107 Series) (See Ch. CT-358- Set 226-4)	Set 177-1 and Model 70-Set 153-8)	Ch. 4501 (See Model 5A410) Ch. 4504 (See Model 5A430)	ME-27 (Revised)
LYRIC (Also see Rauland) 546T, 546TY, 546TW 7-17	Chassis CT385CB, DC (107 Series)	•19C6, 19C7	Ch. 4506 (See Model 5A445) Ch. 4702, 4703 (See Model 7S433)	ME-27P-3 270-9 ME-36, ME-36R 154-7 ME-52 149-7
MAGIC TONE	(See Ch. CT358—Set 226 4) • Chassis CT386AA, AB, BA, BB, CB	•20C82, 20C83, 20C84 (Series 108) (See PCB 43-Set 177-1 and	Ch. 4705 (See Model 7P420)	ME-52
500, 501	(107 Series) (See Ch. CT358- Set 226-4)	Model 70—Set 153-8) • 20FP88, 20FP89 (Series 109)	Ch. 4706 (See Model 7C432) Ch. 4707 (See Model 7C447)	MF-5
504 (Bottle Receiver) 22–18 508 (Keg Radio) 38—9	 Chassis CT401AA, CT402AA, CT403AA, CT404AA, CT405AA, 	● 20F82, 20F83 (Series 108) (See PCB	Ch. 4708R (See Model 7JK777R) Ch. 4810 (See Model 8S452)	MHP-110X
510 900	CT406AA, CT407AA (108, 108B Series)	43—Set 177-1 and Model 70— Set 153-8)	Ch. 4810B (See Model 8JL885) Ch. 41201 (See Model 12FM475)	MM-27P 153-9
MAGNAVOX	• Chassis CT410AA (108, 108B Series) 239	 20F85, 20F86, 20F87 (Series 108) (See PCB 43—Set 177-1 and 	Series 106 (See Model 70—Set 153-8)	MHP-110 14-0 MHP-110X 115-5 Midgetolk 116-7 MM-10X 153-9 MPA-3, MPT-4 16-25 MSD-16 150-9 MU-5 117-6 MU-17 185-8 PR-1 218-6
CP251M (Chassis AMP-128A, B, AMP-129)	•Chassis CT418AA, CT419AA, CT420AA (108, 108A Series)	Model 70—Set 153-8) •20F811 (Series 108) (See PCB 43	 Series 106-5 (See PCB 43—Set 177-1 and Model 70—Set 153-8) 	MU-17
252M (Chassis CR700 and AMP132) 260-9	• Chassis CTA401BB, CTA402BB,	Set 177-1 and Model 70-Set 153-8)	 Series 108, 108-5 (See PCB 43—Set 177-1 and Model 70—Set 153-8) 	RK-5 (Early)
•104 Series (Ch. CT301 thru CT314)	CTA403BB, CTA404BB, CTA405BB, CTA4068B, CTA407BB (108B Se-	•2018A1 (Series 108) (See PCB 43— Set 177-1 and Model 70—Set	 Series 109 [See Model 20FP88— Set 170-10] 	RK-5, RK-5L, RK-5M, RK-5ML, RK- 5SL
108, 108A Series	ries)	153-8) • 20782, 20783, 20784 (Series 108)	 Series 110, 111 (See Model 21P62 —Set 221-7) 	RK-55LR
• 250 Series		(See PCB 43—Set 177-1 and	• Series 112, 112-2, 113 233-4 • Series 116 (See Model 21C36-Set	ST-2 (ST-M, ST-R)
• 300 Series	Chassis CTA413BB (108B Series) 240—5	Model 70-Set 153-8) •21C30, 21C31 (Series 108) (See	280-5)	
Chassis AMP-108A, AMP-108B	 Chassis CTA418BB, CTA419BB, CTA420BB (108B Series). 240-5 	PCB 43—Set 177-1 and Model 70 —Set 153-8)	MALLORY TV-101 (Below Serial No. 200,000)	I-IC I23B TD-16 120B TP-16A 30-17 TWB (TV Booster) 254B WF-1A 209B 76, 711 20-20 86, 811 20-21
41-10 Chassis AMP-111A, B, C. 68-10 Chardie AMP.128A, B, 254-7	Chossis CTA427CE (300 Series) 287-11	•21C36, 21C37, 21C38, 21C39 (Se- ries 116)	Tel. UHF Conv	WF-1A
	•Chassis CTA435AA, CTA436AA (Se- ries 250)	•21D40, 21D41 (Series 108) (See PC8 43—Set 177-1 and Model 70	Above) Tel. UHF Conv 194-8	86, 811 20-21
Chassis AMP-129	ries 250)	-Set 153-8) •21D50, 21D51 (Series 108) (See	MANTOLA (B. F. Goodrich Co.) R630-RP 3-22	MASON
Chassis AMP132		PCB 43—Set 177-1 and Model 70 —Set 153-8)	R643-PM (See Model R643W-Set 4-29)	45-1A
Chassis AMP-135	CHIdsais CHA26CE (300 36(18)) 287–11 Chossis CU401AA, CU402AA, CU403AA, CU404AA, CU405AA, CU405AA, CU405AA, LU60, L08,	21056, 21057, 21058, 21059 (Se-	R643W	(See Model 45-1A-Set 14-18)
CMU4U/AA, 108, 108A Series	CO100AA, CO107AA (100, 100A	ries 116)	R643W 4-29 R652, R652N 9-22 R654 PM, R654-PV 3-5 R655W (Ch. No. 501APH) 8-20 R655 W (Dh. No. 501APH) 8-20	MATTISON
239-6	Series)	-Set 153-8)	R655W (Ch. No. 501APH) 8-20 R662, R662N 3-33 R664, R664-PV, R664-W 23-13	●630DXM (Series 26000)243-7 ●630DXM (Series 27000) (See PCB
Chassis CMU410AA, (108, 108A Series)	ries)	● 21F88, 21F89 (Series 108-5) (See PCB 43—Set 177-1 and Model 70		105 — Set 252-1 and Model 630DXM—Set 243-7)
Series)	ries)	-Set 153-8} •21P62, 21P63 (Series 110, 111)	4-29) R-7543	●630MDXL (Series 26000)
Series)	CU420AA (108, 108A Series) 239—6	•21120, 21121 (Series 108) (See	R-75143	105 - Set 252-1 and Model 630MDXL 243-7)
Chassis CMUA401BB, CMUA402BB,	Chossis CUA401BB, CUA402BB, CUA403BB, CUA402BB, CUA403BB, CUA4040BB, CUA403BB, CUA404BB, CUA403BB, CUA404BB, CUA407BB (1088 Series) 240—5 Chossis (10400000000000000000000000000000000000	PCB 43—Set 177-1 and Model 70 —Set 153-8)	R/43W (See Model Rd43W_3er 4.29	● 630-6A
CMUA403BB, CMUA404BB, CMUA405BB, CMUA406BB,	CUA405BB, CUA406BB, CUA407BB (108B Series) 240-5	@21722, 21723 (Series 116). 280-5	R-76162	
CMUA407BB (108B Series) 240-5	Chossis CUA4IUBB (1068 Series)	● 22 thru 35 Series 106-5) (See PCB 43—Set 177-1 and Model 70—	R76262 (Fact. No. 7160-17) 51-12 R-78162 43-11	MAYFAIR 510, 510W, 520, 520W, 530,
Chassis CMUA410BB (108B Series)	• Chassis CUA413BB (108B Series) 240-5 • Chassis CUA418BB, CUA419BB,	Set 153-8) • 70, 72, 73 (Series 106) (Also see	2486	510, 510W, 520, 520W, 530, 530W
Chassis CMUA413BB (108B Series) .240-5	Chassis CUA4188B, CUA4198B, CUA42088 (1088 Sector) 244	PCB 43-Set 177-1) 153-8 80FMP2 137-6	4-29) 92-503, 92-504 (See Model R654PM	McGOHAN (Don)
Chassis CMUA41888, CMUA41988, CMUA42088 (1088 Series)	CUA420BB (108B Series). 240-5 • Chassis MCT228	•120, 121, 121B (Ch. 99) (Also see PCB 37—Set 166-2)127—7	-Set 3-51 92-505, 92-506 (See Model R664PM	MG.7 195 7
Chassis CMUA427CE (300 Series)	MAGNECORD	•141, 1418 (Ch. 100), 141C (Ch.	-Set 23-13) 92-520, 92-521, 92-522 68-11	MG-108 90-8 MG-188 91-6 MG-20-8 189-5
Chassis CMUA435AA, CMUA436AA	(See Recorder Listing)	•141, 1418 (Ch. 100), 141C (Ch. 101), 142, 1428 (Ch. 100) 127-7	92-529	MG-20-B 1895 MG-25B 280-6
(Series 250)	MAGUIRE (Also see Record Changer Listing)	143 (See PCB 37—Set 166-2 and Model 17DA—Set 127-7)	MARKEL (See Record Changer Listing)	MG-25B 280—6 MG-30-B 188—9 MG60 260-10
263-9	500BI, 500BW, 500DI, 500DW	•160, 1608, 162, 163 (Ch. 101) 	MARK SIMPSON (See Masco)	WA-310
Chossis CMD428CE (300 30163) 287-11 287-11 CP251M (Chossis AMP-128A, B, AMP-129	6-15 561Bi, 561BW, 561Di, 561DW 6-16	•170 (Ch. 101)	MARTIN 3524 264 9	McGRADE
AMP-129)	5 71	Model 17DA-Set 127-7)	352A	M-100 16–27

LEARADIO-McGRADE

MASCO	
(Also see Recorder Listing) AC-12, AC-24	-7
ACL	-7
CAM-5	-8
CM-8	-8 -8
CM-10 255-	-8
CS-6P-3	-9
EMM-6	-3
IM-10	-8
Station) 42-1 JM-10 187-	8
JM-10 JMP-6	-8 -7
JMP-12	-7
MA-8N	-8
MA-10HF 112_ MA-12HF 51-1 MA-17 14-3 MA-17N 50-1	4
MA-12HF	32
MA-25	24
MA-17PN 50-1 MA-20HF 28-2 MA-25 16-2 MA-25EX 60-1 MA-25HF 54-1	5
	42
MA-25P	24
MA-35N	1
	0
MA-50N 45-1	5
MA-50NR 53-1 MA-60 119- MA-75 28-2	49
MA-75 28-2 MA-75N 52-2	27
MA-77, MA-77R	.7
MA-125 188	-8
MAP-15 26-1	89
MAP-18	2
MAP-105N	2
MAP-120 21-2 MAP-120N 46-1	5
MB-8N 196	.5 2
MB-60	8
MB-75 61-1	5
MB-125 711	8
MB-125 211 MC-10 47-1 MC-25, MC-25P 17-2 MC-25N, MC-25PC, MC-25PN, MC	2 21
MC-25P, MC-25PC, MC-25PN, MC 25PC	1
MC-25N, MC-25PV, MC 25RC	8
MCR-5 ME-8 ME-18, ME-18P	
ME-8 32-1 ME-18, ME-18P 151 ME-27 155 ME-27 (Revised) 270 ME-27P-3 270 ME-36, ME-36R 154 ME-32 149	8
ME-27 (Revised)	9
ME-36, ME-36R	7
	7 0
MF-10	0
MHP-110 114 MHP-110X 115 Midgetalk 116 MM-27P 153 Midgetalk 116	5
MM-27P 153-	9
MSD-16 150	9
MU-5	6
PR-1	6
RK-5, RK-5L, RK-5M, RK-5ML, RK	÷
RK-55LR	9
RK6, RK6R 244- ST-2 (ST-M, ST-R) 267-	7
ST-5	7
TD-16 120-	8
PR-1 218 RK-5 (Eorry) 33-1 RK-5 (RK-5L, RK-5M, RK-5ML, PK SSL 168 RK-5 (RK-5L, RK-5M, RK-5ML, PK SSL 177- RK6, RK-6R 244 ST-2 (ST-M, ST-R) 267- ST-5 272- T-16 120- TD-16 120- TVB (TV Booster) 254- WF-1A 209- 76, 711 20-2 86, 811 20-2	8
WF-1A	8
86, 811 20-2	1
MASON	
45-1A	8
45-1A	5
MATTISON	
- (200 VII (C)	7
COUDAM (Series 26000) 243-	
 630DXM (Series 26000)	ł
 • 630DXM (Series 26000)	0 11 7
 oJUXM [Series 26000]243— 630DXM [Series 27000] [See PCI 105 — Set 252.1 and Mode 630DXM_Series 243.7] 630MDXL [Series 26000]243— 630MDXL [Series 27000] [See PCI 105 — Set 252.1 and Mode 	7 B
OJUDXM [Series 26000]243 SJDDXM [Series 27000] [See PC] SJDDXM [Series 27000] [See PC] SJDDXM-Set 243.7] SJOMDXL [Series 27000] [See PC] To 5 - Set 252.1 and Mode SJOMDXL 243.7]	B I
• 630DXM (Series 26000). 243- • 630DXM (Series 27000) (See PC 105 — Set 252:1 and Mode 630DXM—Set 243.7) • 630MAXI (Series 27000) (See PC 105 — Set 252:1 and Mode 630MAXI (Series 27000) (See PC 105 — Set 252:1 and Mode 630-6A	7B-1 77
• 630-6AB	7
• 630-6AB	7
• 630-6AB	7
● 630 6AB	ó
• 630- 648	ó
• 630- 648	7 52 78556706
• 630- 648	7 52 78556706
• 630-648	7 .02 736567067

Denotes Television Receiver.

NOTE: PCB Denotes Production Change Bulletin. Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

MCINTOSH-MOTOROLA

MCINTOSH-MOTOROLA	
McINTOSH	MERCURY-Cont.
A.116	OM-18805-A (See N 1CM747-1 (1M-188 Model 1CF743-5
C104	Model 1CF743-5
MC-30	1CM747-1 (1M-1880 1M-18805 (See Mor
	1M-18805 [See Mor
MECK (Trail Blazer-Plymouth) CD-500 (PX-5CS-EW-19) . 33-12 CE-500 (5CS-P12) . 34-10 CM-500 (5D7-W18) . 34-11 CR-500	1 CM747-1) 2 CM752 (FAB-18805 3 SM757 (FAF-18805 4 SM767 (FDC-18805 6 MM790 (59A-1880 6 MM790 (59A-1880
CE-500 (5CS-P12) 34-10	35M757 (FAF-18805 45M767 (FDC-18805
CR-500	6MM790 (59A-1880
CW-500	6MM790-E (59AF-18 8MM890 (Ch. 8E90
DA601, DB6021 81-10	
EC720 85-8	8MM990 (8M-18805 8MM991 (8M-18805
EV-760	(8M-18805)
• JM717C (Ch. 9021)148-11	8M-18805-B (See Mr
• JM717C (Ch. 9032) 180-9	8MM990 or 8MM9
• JM717CU (Ch. 9021) 148-11	59AF-18805 59A-18805-A1
• JM717T (Ch. 9021)	MEDCHPY (Pacifi
• JM717T (Ch. 9040) 220-4	•2013 (Ch. 150-2)
• JM717TU (Ch. 9021)	57-Set 191-1) .
• JM720C (Ch. 9032) 186-9	• 2013 (Ch. 150-2) 57-Set 191-1). • 2080 (Ch. 150-2) Set 191-1 and M 172-6)
• JM720T (Ch. 9021)	172-6)
• JM720TU (Ch. 9021) 148-11	155)
• JM721C, CD (Ch. 9032) 186-9	•2113, 2115 (Ch. 15
M616C, T (Ch. 9023) (See Model	e2116, 2117 (Ch. 1
JM717C-Set 148-11)	• 2081 (Ch. 150.4 155) • 2113, 2115 (Ch. 15 see PCB 57—Set 2116, 2117 (Ch. 1 57—Set 191-1 —Set 172-6) - 2181 (Ch. 150.31
JM717C—Set 148-11)	•2181 (Ch. 150-31,
• MM510T, MM512T, MM516C, MM	Ch. 155)
CM.500 (567.W18) 34-11 CR.500 38-11 CR.500 48-13 DCM.500 48-13 CX.500 48-13 DCM.500 48-13 DM.717C (Ch.9021) 148-11 JM717T (Ch.9021) 148-11 JM717T (Ch.9021) 148-11 JM717T (Ch.9021) 148-11 JM720T (Ch.9023) 186-9	●2224 (Ch. 200-11)
PCB 12—Set 120-1). 117—8	•2284 (Ch. 200-11)
PCB 12-Set 120-1117-8	PCB 57-Set 191
5107,	
• MM617T (Ch. 9040)	Ch. 159-1 and R
mm3/5.7 C.17023 (186.9) JM3/77 C.17023 (186.9) MM6/77 (Ch. 9040) .20.4 MM6/77 (Ch. 9018) (Alice see PCB 12-58:120-117-58 117-58 MM.02007, T (Ch. 9032) (See Model JM-717C-58:186-9) .20.4 MM621RT, RPTB (Ch. 9040) .220-4 MM621RT, RPTB (Ch. 9040) .20.4 PM.5CS:DW10 2-4 PM.5CS:DW10 2-4 PM.5CS:DW10 1-19 RC.5C3.7-F0 31-18 SA-10, SA-20 101-4 XA.701 5et SA-10, SA-20 101-4 XA.701 5et SA-10, SA-20 101-4 XA.701 5et	•4120 (Ch. 150-2) 57—Set 191-1). •4220 (Ch. 150) (A —Set 191-1) •4317 (Ch. 150.9)
MM-620C, T (Ch. 9032) (See Model	57-Set 191-1) .
JM-717C—Set 186-9)	●4220 (Ch. 150) (A
MM621RPT, RPTB (Ch. 9040)	e4317 (Ch. 150-9)
PM-5CS.DW10 24	
PM-5CS-PW10 21-19	●4421 (Ch. 150-81)
RC-5C5-P	Set 191-1 and # 172-61
SA-10, SA-20	Ch. 150-2 (See Mo
• XA-701 (See Model XA-701 - Set	Ch. 150-4 (See Mo
61-16)	Ch. 150-9 (See Mc
•E-705 (See Model XA-701 — Set •F-777 101-5 •F-777 101-5 ×K752 101-5 ×C08 110-9 *F-775 101-5 ×C08 101-9 *F-775 101-5 ×C076 101-5 ×C076 101-5 ×C08 100-9 ×K-776 101-5 ×C08 101-5 ×C08 101-5 ×S08 101-5 ×S26 101-5 ×S27 S58 ×S27 101-5 ×S27 102-5 ×S120-11 110-9 ×S27 100-9 ×S27 100-9 ×S27 101-5	Set 191-1 and # 172-6) Ch. 150-2 (See Mo Ch. 150-2 (See Mo Ch. 150-9 (See Mo Ch. 150-11 (See Mo Ch. 150-11 (See Mo Ch. 150-15 (See Mo Ch. 150-15 (See Mo Ch. 150-51 (See Mo Ch. 150-61 (See Mo Ch. 155-16) (See Mo
• XN-752 101-5	Ch. 150-15 (See M
• XP-775	Ch. 150-51 (See M
XQ-776	Ch. 150-61 (See M
•XQA-776	Ch. 155 (See Mode
• XQR	Ch. 159-1 (See Mo
XRA, XRPT	Ch. 159-1 (See Mod Ch. 159-1 (See Mo Ch. 160-1 (See Mo Ch. 200-11 (See M Ch. 201-34 (See M Ch. 201-553 (See J
•XS-786	Ch. 201-34 (See M Ch. 201-553 (See /
•XSB (Ch. 9018) (Also see PCB 12	MIDLAND
• XSC, XSD (Ch. 9018) (See Model	M68
MM614C-Set 117-8 and PCB	MIDWEST
• XSPT	P6, PB-6
• XT-785 • XT-785 • XT- XTP • 101-5	R-12, RG-12, RT-1
	R-12, RG-12, RT-1
4C7	R-16, RG-16, RT-1
5D7/WL18 21-22	
●514C, T (Ch. 9018) (See PCB 12-	\$8, \$T-8 [Ch. STM 5-12, \$G-12, \$T-
xxy000 110—9 4C7 35-14 5A7-P11 37-18 37-14 5A7-P11 31-18 5D7/WU18 21-22 6A6.W4 16-26 514C, T (Ch. 9018) (See PCB 12— Set 120-1 and Madel MM614C— Set 117-8) 614C, 614TL (Ch. 9022) (See Madel MM717C—Set 148-11) 616C, T (Ch. 9018) (See PCB 12— Set 120-1 and Madel MM614C— Set 120-1 and Madel MM614C—	S-16, SG-16, ST-
●614C, 614TL (Ch. 9022) (See Model	
JM717C-Set 148-11)	TM-8 (Ch. STM-8) 716, A (See Mode
Set 120-1 and Model MM614C-	24}
616C, T (Ch. 9018) (See PCB 12 Set 120-1 and Model MM614C Set 117-8) 617C, 617T1 (Ch. 9022) (See Model JM717CSet 148-11) 619C, T (Ch. 9018) (See PCB 12 5002) - 5002 (See PCB 12 502) (See PCB 12	Ch. KD-16 Ch. RN-16
JM717C—Set 148-11)	MILWAUKEE ER
	(See Record Ch
	MINERVA
9030	L-702
Ch. 9021 (See Model JM717C)	1.778
Ch. 9022 [See Model Mo16T]	W-117-3
9030	
	W-728
MEDCO (See Telesonic)	410, 411
MEISSNER	702H,702H-1 729 (Portapal)
• TV-1 (Ch. 24TV) 56-15 4E	MIRRORTONE (
5A (See Maguire Model 571-Set	 A-17C, T (Ch. 904 A-21C, CB, T, TB,
44-10) 6H (See Maguire Model 661—Set	
12-18)	A24C (Ch. 9049,
R8T 141 4	A LAMTS
88T 8C 37-12	•14MTS •16MC, MT, 17MC,
88T 161-5 8C 37-12 9AJ 123-9 9.1045 3-15	•14MTS •16MC, MT, 17MC, •17PC (Cb. 9025) (
8BT 161-5 8C 37-12 9AJ 123-9 9-1065 3-15	 16MC, MT, 17MC, 17PC (Ch. 9025) Model 20PC—Si
BBT 161—5 BC 37-12 PAJ 123—9 9-1065 3-15 9-1091A, 9-1091B 35-15 9-1091C 116—8 9-1093 55-13 9-1093 257—9	 14MTS 16MC, MT, 17MC, 17PC (Ch. 9025) (Model 20PC—Si 17PCSB, 17PCW 17PT (Ch. 9025) (Model 20PC—Si

9-1091C8
9-1093 55-13
9-1160
16A
24TV [See Model TV1-Set 56-15]
574 (See Maguire Model 571—Set 44-10)
661 (See Maguire Model 661-Set
12-18)
2961 Series 27-19
MERCURY (Automobile)
FAB-18805-A
FAF-18805-A

FAB-18805-7									
FAF-18805-									
FDC-18805-	Α.						. 2	46	
GM891 (O	M-1	88	05	-A	1	[See	. 1	PCI
105-Set	253	2.1		ind	Ē	0	d	Mo	de
GF890	10	A - '	18	BO.	5-1	31	14	-	Se
109-5]									

NOTE: PCB Denotes Production Change Bulletin. Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

Ch. 9040 (See Model A-17 Ch. 9047

MERCURY-Cont. OM-18805-A (See Model GM891)
MERCURY_Cont. OM-18805.A (See Model GM891) ICM747-1 (1M-18805) (See Ford Model ICF743—Set 133.7) ICM747-1 (1M-18805)158—5 IM-18805 (See Model ICM747 or ICM747-1) ZCM752 (FAB-18805-A)167—7 SM757 (FAE-18805-A)214—5 SM767 (FOC-18805-A)246—8 GMM790c (S9A-18805-A)242—2 GMM790c (FS9A-18805-A)242—2 GMM790c (S9A-18805-A)246—3 GMM790c (S9A-18805-A)42-12 GMM790c (S9A-18805-A)42-12 GMM790c (S9A-18805-A)42-12 GMM790c (S9A-18805-A)42-12 GMM790c (S9A-18805-A)42-12 GMM790c (S9A-18805-A)42-12 GMM790c (S9A-18805-A)42-13 GMM790c (S9A-18805-A)42-14
1M-18805 (See Model 1CM747 or 1CM747-1) 2CM752 (FAB-18805-A) 167-7
35M757 (FAF-18805-A)214-5 45M767 (FDC-18805-A)246-8
6MM790 (59A-18805-A1). 62-12 6MM790-E (59AF-18805) . 62-12 8MM890 (Ch. 8E90) (8M-18805-B)
84MA890 (Ch. 8E90) (84-18805-8) 49-13 84MA990 (84-18805-8) . 69-10 84MA991 (84-18805-8), 84M4991-E, (84-18805). 83-4 84-18805-8 (See Model 84M890 or 84M990 or 84M991) 62-12 64-1990 6-212
(8M-18805) 83-4 8M-18805-B (See Model 8MM890 or
8MM990 or 8MM991) 59AF-18805
MERCURY (Pacific-Mercury)
2013 (Ch. 150-2) (Also see PCB 57—Set 191-1)
Set 191-1 and Model 2013—Set 172-6) • 2081 (Ch. 150-4 and Radio Ch.
2080 (Ch. 150-2) [See PCB 37— Set 191-1 and Model 2013—Set 177-6] 2081 (Ch. 150-4 and Radio Ch. 155]
•2116, 2117 (Ch. 150-8) (See PCB 57—Set 191-1 and Model 2013
•2217, 2218, X (Ch. 200-11) 216—8 •2224 (Ch. 200-11)
•2284 (Ch. 200-11)
 2424 (Ch. 201-34)
•4120 (Ch. 150-2) (Also see PCB
•4220 (Ch. 150) (Also see PCB 57 —Set 191-1)
•4317 (Ch. 150-9) 172-6 •4320 (Ch. 150-2, -15) Also see PCB 57-Set 191-1) 172-6
Ch. 159-1 and Redia Ch. 160-1] • 4120 (Ch. 150-2) (Also see PCB 57—Set 191-1)172—6 • 4220 (Ch. 150) (Also see PCB 57 —Set 191-1)172—6 • 4317 (Ch. 150-2) -15) Also see PCB 57—Set 191-1)172—6 • 4421 (Ch. 150-81) (See PCB 57- Set 191-1) and Model 2013—Set 172-6)
Ch. 150-2 (See Model 2013) Ch. 150-4 (See Model 2081)
Ch. 150-5 (See Model 2401) Ch. 150-9 (See Model 4317) Ch. 150-11 (Se Model 2113)
Ch. 150-12 (See Model 4317) Ch. 150-15 (See Model 4320) Ch. 150-15 (See Model 4320)
Ch. 150-31 (See Model 2181) Ch. 150-51 (See Model 2401) Ch. 150-61 (See Model 2181)
Ch. 150-81 (See Model 2113) Ch. 155 (See Model 2081) Ch. 159-1 (See Model 2701)
Ch. 160-1 (See Model 2701) Ch. 200-11 (See Model 2217) Ch. 201 34 (See Model 2424)
Ch. 160-1 (See Model 2701) Ch. 200-11 (See Model 2217) Ch. 201-34 (See Model 2424) Ch. 201-553 (See Model 2701)
Ch. 201-553 (See Model 2701) MIDLAND M6B
M6B 2–30 MIDWEST P6 PB-6 14–19
M6B 2-30 MIDWEST 14-19 P6, PB-6 14-19 R-12, RG-12, RT-12 (Ch. RGL-12) 44-12 R-12, RG-12, RT-12 (Ch. RGL-12) 76-12
M68 2-30 MIDWEST 14-19 P6, P5-6 14-19 R-12, RG-12, RT-12 (Ch. RGL-12) 4-13 R-12, RG-12, RT-12 (Ch. RGT-12) 4-13
M68 2-30 MIDWEST 14-19 P6, P5-6 14-19 R-12, RG-12, RT-12 (Ch. RGL-12) 4-13 R-12, RG-12, RT-12 (Ch. RGT-12) 4-13
M68 2-30 MIDWEST 14-19 P6, P5-6 14-19 R-12, RG-12, RT-12 (Ch. RGL-12) 4-13 R-12, RG-12, RT-12 (Ch. RGT-12) 4-13
Móß 2–30 MIDWEST 14–19 Pó. P8-6 14–19 R.12, RG.12, RT.12 (Ch. RGL.12) 44–12 R.12, RG.12, RT.12 (Ch. RGT.12) 44–13 R.16, RG.16, RT.16 (Ch. RGT.16) 45–16 S.12, SG.12, ST.12 (Ch. SGT.12) 42–33 S.16, SG.16, ST.16 (Ch. SGT.12) 21–23 S.16, SG.16, ST.16 (Ch. SGT.16) 15–19 S.16, SG.16, ST.16 (Ch. SGT.12) 21–24 M.8 (Ch. STM.8) 15–19 J.6, A (See Model S.16–Set 21–24 12–24
M66 2–30 MIDWEST 14–19 P6, P8-6 14–19 R.12, RG-12, RT-12 (Ch. RG-12) 44–12 R.12, RG-12, RT-12 (Ch. RG-12) 44–13 R.16, RG-16, RT-16 (Ch. RG-13) 45–16 St.2, SG-12, ST-12 (Ch. SG-12) 51–12 S.12, SG-12, ST-12 (Ch. SG-12) 21–23 S.16, SG-16, ST-16 (Ch. SG-16) 21–23 S.16, SG-16, ST-16 (Ch. SG-16) 21–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 Ch. RD-16 263–10 Ch. RD-16 263–10
Móß 2–30 MIDWEST 14–19 Pó. P8-6 14–19 R.12, RG.12, RT.12 (Ch. RGL.12) 44–12 R.12, RG.12, RT.12 (Ch. RGT.12) 44–13 R.16, RG.16, RT.16 (Ch. RGT.16) 45–16 S.12, SG.12, ST.12 (Ch. SGT.12) 42–33 S.16, SG.16, ST.16 (Ch. SGT.12) 21–23 S.16, SG.16, ST.16 (Ch. SGT.16) 15–19 S.16, SG.16, ST.16 (Ch. SGT.12) 21–24 M.8 (Ch. STM.8) 15–19 J.6, A (See Model S.16–Set 21–24 12–24
M66 2-30 MIDWEST 14-19 P6, P8-6 14-19 R.12, RG-12, RT-12 (Ch. RG-12) 44-12 R.12, RG-12, RT-12 (Ch. RG-12) 44-13 R.16, RG-16, RT-16 (Ch. RG-14) 44-13 S-15, ST-8 (Ch. STM-8) 15-19 S-12, SG-12, ST-12 (Ch. SG-12) 51-6 TM-8 (Ch. STM-8) 15-19 TM-8 (Ch. STM-8) 15-19 TM-8 (Ch. STM-8) 15-19 TM-8 (Ch. STM-8) 15-10 Ch. RN-16 263-10 Ch. RN-16 263-10 MIWAUKEE ERWOOD (See Record Changer Listing) MINERVA MINERVA
M66 2-30 MIDWEST 14-19 P6, P8-6 14-19 R.12, RG-12, RT-12 (Ch. RG-12) 44-12 R.12, RG-12, RT-12 (Ch. RG-12) 44-13 R.16, RG-16, RT-16 (Ch. RG-14) 44-13 S-15, ST-8 (Ch. STM-8) 15-19 S-12, SG-12, ST-12 (Ch. SG-12) 51-6 TM-8 (Ch. STM-8) 15-19 TM-8 (Ch. STM-8) 15-19 TM-8 (Ch. STM-8) 15-19 TM-8 (Ch. STM-8) 15-10 Ch. RN-16 263-10 Ch. RN-16 263-10 MIWAUKEE ERWOOD (See Record Changer Listing) MINERVA MINERVA
M66 2-30 MIDWEST 14-19 P6, P8-6 14-19 R.12, RG-12, RT-12 (Ch. RG-12) 44-12 R.12, RG-12, RT-12 (Ch. RG-12) 44-13 R.16, RG-16, RT-16 (Ch. RG-14) 44-13 S-15, ST-8 (Ch. STM-8) 15-19 S-12, SG-12, ST-12 (Ch. SG-12) 51-6 TM-8 (Ch. STM-8) 15-19 TM-8 (Ch. STM-8) 15-19 TM-8 (Ch. STM-8) 15-19 TM-8 (Ch. STM-8) 15-10 Ch. RN-16 263-10 Ch. RN-16 263-10 MIWAUKEE ERWOOD (See Record Changer Listing) MINERVA MINERVA
Móß 2–30 MIDWEST 14–19 Pó, P8-6 14–19 R.12, RG.12, RT.12 (Ch. RG.12) 44–12 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 S.16, RG.16, RT.16 (Ch. RG.16) 45–16 S.16, ST.8 (Ch. ST.40) 15–19 S.16, SG.16, ST.16 (Ch. SG.12) 21–23 TM-8 (Ch. STM-8) 12–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 MM-8 (Ch. STM-8) 26–30 Qh. KD-16 263–10 Ch. RN-16 263–10 MILWAUKEE ERWOOD (See Record Changer Listing) MINERVA 11–15 V-702 12–20 V-703 11–14 V-703 12–20 V17.3 12–20 V704 13–14 V704 14–14
Móß 2–30 MIDWEST 14–19 Pó, P8-6 14–19 R.12, RG.12, RT.12 (Ch. RG.12) 44–12 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 S.16, RG.16, RT.16 (Ch. RG.16) 45–16 S.16, ST.8 (Ch. ST.40) 15–19 S.16, SG.16, ST.16 (Ch. SG.12) 21–23 TM-8 (Ch. STM-8) 12–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 MM-8 (Ch. STM-8) 26–30 Qh. KD-16 263–10 Ch. RN-16 263–10 MILWAUKEE ERWOOD (See Record Changer Listing) MINERVA 11–15 V-702 12–20 V-703 11–14 V-703 12–20 V17.3 12–20 V704 13–14 V704 14–14
Móß 2–30 MIDWEST 14–19 Pó, P8-6 14–19 R.12, RG.12, RT.12 (Ch. RG.12) 44–12 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 S.16, RG.16, RT.16 (Ch. RG.16) 45–16 S.16, ST.8 (Ch. ST.40) 15–19 S.16, SG.16, ST.16 (Ch. SG.12) 21–23 TM-8 (Ch. STM-8) 12–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 MM-8 (Ch. STM-8) 26–30 Qh. KD-16 263–10 Ch. RN-16 263–10 MILWAUKEE ERWOOD (See Record Changer Listing) MINERVA 11–15 V-702 12–20 V-703 11–14 V-703 12–20 V17.3 12–20 V704 13–14 V704 14–14
Móß 2–30 MIDWEST 14–19 Pó, P8-6 14–19 R.12, RG.12, RT.12 (Ch. RG.12) 44–12 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 S.16, RG.16, RT.16 (Ch. RG.16) 45–16 S.16, ST.8 (Ch. ST.40) 15–19 S.16, SG.16, ST.16 (Ch. SG.12) 21–23 TM-8 (Ch. STM-8) 12–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 MM-8 (Ch. STM-8) 26–30 Qh. KD-16 263–10 Ch. RN-16 263–10 MILWAUKEE ERWOOD (See Record Changer Listing) MINERVA 11–15 V-702 12–20 V-703 11–14 V-703 12–20 V17.3 12–20 V704 13–14 V704 14–14
Móß 2–30 MIDWEST 14–19 Pó, P8-6 14–19 R.12, RG.12, RT.12 (Ch. RG.12) 44–12 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 S.16, RG.16, RT.16 (Ch. RG.16) 45–16 S.16, ST.8 (Ch. ST.40) 15–19 S.16, SG.16, ST.16 (Ch. SG.12) 21–23 TM-8 (Ch. STM-8) 12–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 MM-8 (Ch. STM-8) 26–30 Qh. KD-16 263–10 Ch. RN-16 263–10 MILWAUKEE ERWOOD (See Record Changer Listing) MINERVA 11–15 V-702 12–20 V-703 11–14 V-703 12–20 V17.3 12–20 V704 13–14 V704 14–14
Móß 2–30 MIDWEST 14–19 Pó, P8-6 14–19 R.12, RG.12, RT.12 (Ch. RG.12) 44–12 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 S.16, RG.16, RT.16 (Ch. RG.16) 45–16 S.16, ST.8 (Ch. ST.40) 15–19 S.16, SG.16, ST.16 (Ch. SG.12) 21–23 TM-8 (Ch. STM-8) 12–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 MM-8 (Ch. STM-8) 26–30 Qh. KD-16 263–10 Ch. RN-16 263–10 MILWAUKEE ERWOOD (See Record Changer Listing) MINERVA 11–15 V-702 12–20 V-703 11–14 V-703 12–20 V17.3 12–20 V704 13–14 V704 14–14
Móß 2–30 MIDWEST 14–19 Pó, P8-6 14–19 R.12, RG.12, RT.12 (Ch. RG.12) 44–12 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 S.16, RG.16, RT.16 (Ch. RG.16) 45–16 S.16, ST.8 (Ch. ST.40) 15–19 S.16, SG.16, ST.16 (Ch. SG.12) 21–23 TM-8 (Ch. STM-8) 12–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 MM-8 (Ch. STM-8) 26–30 Qh. KD-16 263–10 Ch. RN-16 263–10 MILWAUKEE ERWOOD (See Record Changer Listing) MINERVA 11–15 V-702 12–20 V-703 11–14 V-703 12–20 V17.3 12–20 V704 13–14 V704 14–14
Móß 2–30 MIDWEST 14–19 Pó, P8-6 14–19 R.12, RG.12, RT.12 (Ch. RG.12) 44–12 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 S.16, RG.16, RT.16 (Ch. RG.16) 45–16 S.16, ST.8 (Ch. ST.40) 15–19 S.16, SG.16, ST.16 (Ch. SG.12) 21–23 TM-8 (Ch. STM-8) 12–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 MM-8 (Ch. STM-8) 26–30 Qh. KD-16 263–10 Ch. RN-16 263–10 MILWAUKEE ERWOOD (See Record Changer Listing) MINERVA 11–15 V-702 12–20 V-703 11–14 V-703 12–20 V17.3 12–20 V704 13–14 V704 14–14
M68 2-30 MIDWES7 14-19 P6, P8-6 14-19 R:12, RG:12, RT:12 (Ch. RG:12) 44-12 R:12, RG:12, RT:12 (Ch. RG:12) 44-13 R:16, RG:16, RT:16 (Ch. RG:14) 44-16 S: 57-8 (Ch. STM-8) 15-19 S:12, SG:12, ST:12 (Ch. SG:12) 32-13 S:16, SG:16, ST:16 (Ch. SG:14) 15-19 TH:8 (Ch. STM-8) 15-19 S:16, SG:16, ST:16 (Ch. SG:14) 15-10 TH:8 (Ch. STM-8) 15-10 TH:8 (Ch. STM-8) 15-10 Ch. ND:16 263-10 Ch. RN-16 263-10 Ch. RN-16 263-10 MINERVA 12-20 L:702 12-20 L:728 11-15 W:117, Tropic Moster 6-17 W:100, W710A (W119) 5-22 W720 11-13 A10, 411 41-14 Y20 (Ch. 9049, 9051) 16-4 A:21C, Ch. 70, X, Z (Ch. 9040) 216-4 A:21C, Ch. 70, X, Z (Ch. 9040) 216-4 A:21C, Ch. 70, X, Z (Ch.
M68 2-30 MIDWES7 14-19 P6, P8-6 14-19 R:12, RG:12, RT:12 (Ch. RG:12) 44-12 R:12, RG:12, RT:12 (Ch. RG:12) 44-13 R:16, RG:16, RT:16 (Ch. RG:14) 44-16 S: 57-8 (Ch. STM-8) 15-19 S:12, SG:12, ST:12 (Ch. SG:12) 32-13 S:16, SG:16, ST:16 (Ch. SG:14) 15-19 TH:8 (Ch. STM-8) 15-19 S:16, SG:16, ST:16 (Ch. SG:14) 15-10 TH:8 (Ch. STM-8) 15-10 TH:8 (Ch. STM-8) 15-10 Ch. ND:16 263-10 Ch. RN-16 263-10 Ch. RN-16 263-10 MINERVA 12-20 L:702 12-20 L:728 11-15 W:117, Tropic Moster 6-17 W:100, W710A (W119) 5-22 W720 11-13 A10, 411 41-14 Y20 (Ch. 9049, 9051) 16-4 A:21C, Ch. 70, X, Z (Ch. 9040) 216-4 A:21C, Ch. 70, X, Z (Ch. 9040) 216-4 A:21C, Ch. 70, X, Z (Ch.
Móß 2–30 MIDWEST 14–19 Pó, P6-6 14–19 R.12, RG.12, RT.12 (Ch. RG.12) 44–12 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 R.12, RG.12, RT.12 (Ch. RG.12) 44–13 S.16, RG.16, RT.16 (Ch. RG.16) 45–16 S.16, ST.8 (Ch. ST.40) 15–19 S.16, SG.16, ST.16 (Ch. SG.12) 21–23 TM-8 (Ch. STM-8) 12–24 TM-8 (Ch. STM-8) 21–24 TM-8 (Ch. STM-8) 21–24 MM.8 (Ch. STM-8) 21–24 Ch. RD-16 263–10 Ch. RD-16 263–10 MILWAUKEE ERWOOD (See Record Changer Listing) MINERVA 11–15 V-702 12–20 V-703 11–12 V-703 12–20 V-703 12–20 V-704 41–1 V-705 12–20 V-702 12–20 V-703 12–20 V-704 41–1 V-704 30–18

14-5	MITCHELL © T16-B, M, T16-2KB, T16-2KM, T17. B, M, T172B, T-172M 189-11 T1212B, M, T172M 1200, T251 1230, T251 1250, T251 1250, T251 1250, T251 1250, T251 1251, T255 1256, T356 1236, T257 1236, T257 1266 1266 1264, T264, A, 259-9 1266 1271, T272, T273 1277 1277, T260 1270, T278 1270, T280 1270, T270 1281 264-11 1281, T264 265-13 1278 265-14 1270, T272 265-15 1278 265-11 1281 264-11 1281 264-11 1281	GMT2A (Ch. 2A and P6-2 or P8-2) 197-7	•
46—8 62–12 62–12	B, -M	GMT2M (Ch. 2M and P6-2 or P8-2)	
805-B)	•T212-B, -M		
49-13 69-10 991-E,	3D	GMT53A6 (Ch. R17A6 and P6-2 or	
991-E, 83-4	1252, 1253	GMT53A6 (Ch. R17A6 and P6-2 or P8-2)	
890 or	1256	HJ2M (Ch. 2M and P6-2 or P8-2)	
62-12	1261, 1262	HI3A6 (Ch. P.15A6 god P6-2 gr	•
62-12	1263, A, 1264, A	P8-2)	
ry)	1267	P8-2)	ľ
PCB 72—6 3 57—	1271, 1272, 1273 260–11 1274 1275	HN2A6 (Ch. R-15A6 and P6-2 or P8-2)	•
3-Set	1276, 1277	HN2M (Ch. 2M and P6-2 or P8-2)	•
io Ch. 1 98 –11	1278		•
98-11	1281	HN3A6 (Ch. R17A6 and P6-2 or P8-2) HN4A6 (Ch. R17A6 and P6-2 or P8-2) 263-13	
) (Also	1287	UNIANA ICL PLANA and PA.7 or	•
ee PCB 2013	MOLDED INSULATION CO.	P8-2)	
Radio	(Also see Viz) MR-6 (Wiretone) 41-15	HN53M6 (Ch. R16M6 and P6-2 or	
98 -11 216 -8	MONITOR	PB-21	•
216-8	1 400 (F M. 470 0) 30 20	HT3A6 (Ch. R-15A6 and P6-2 or P8-2)	
so see	M-500 (Fact. No. 4/5) 20-23 M-510 (Fact. No. 472) 23-15	ILOTC (See Ch. 10—Set 106-10)	•
so see 72-6 254-9	M-500 (Fact. No. 475)	1L2T2 (See Ch. 1A-Set 134-8)	
160-1)	RA-50	KR2A (Ch. 2A and P6-2 or P8-2)	
254_9 ee PCB	MONITORADIO	KR2A (Ch. 2A and P6-2 or P8-2) .1977 KR2M (Ch. 2M and P6-2 or P8-2) .1977 KR3A6 (Ch. R-15A6 and P6-2 or P8-2)	
172-6 PCB 57	(Radio Apparatus) AR-1	KR3A6 (Ch. R-15A6 and P6-2 or	•
172_6	(Radio Apparatus) AR-1	KDO KDO (See Ch SA_Set 46.14)	
see PCB	13)	KRYA (See Ch. IUA-Set IUG-IU)	
172 4	13) 261—8 DRS-1 261—8 DR-200 233—5 MR-32 233—5 M-51A 162—8 M-101 159—9	NHIC	-
B 57- 3-Set	MR-32	NH3C (See Nash Model NH3C—Set	
ų –	M-101	216-6) NH4AC (See Nash Model AC-154	•
1	MONTGOMERY WARD (See Airline)	216-6) NH4AC (See Nash Model AC-154	
) 7) 3)	WODAR	Set 264-13) NH6 9-24	
7)	602 (671A) 19-20	INHO	
	603 65—9 604	OEO (See Ch. 10A-Set 106-10) OE2 (See Ch. 8A-Set 46-16)	•
n)	606 133—9 407 170–11	OE2A (Ch. 2A and P6-2 or P8-2) 197-7	
3)	608	NH8 (See Ch. 8A—Set 46.16) OEO (See Ch. 10A—Set 106.10) OE2 (See Ch. 3A—Set 46.16) OE2A (Ch. 2A and P6.2 or P8.2) OE2A (Ch. R.15A6 and P6.2 or P8.2) OE2A (Ch. R.15A6 and P6.2 or P8.2) OE2M (Ch. 2M and P6.2 or P8.2)	
)	MOP at 19-20 602 (671A) 65-9 604 106-9 605 133-9 607 170-11 608 207-4 609 201-6 6101 220-5 6111 (San Model 6) 01-547 220-5	OE2A6 (Ch. K-15A6 and P6-2 of P8-2)	
7) 4)	611T (See Model 610T-Set 220-5) 612 (See Model 609-Set 201-6)	OE6	
oi)	613, 614	OE8, OE9 (See Ch. 8A—Set 46-16) PC0 (See Ch. 10A—Set 106-10) PC2 (See Ch. 8A—Set 46-16)	
2 20	c09	PC2 (See Ch. 8A—Set 46-16) PC2A (Ch. 2A and P6-2 or P8-2)	
2 –30	804	PC2 (See Ch. 8A—Set 46-16) PC2A (Ch. 2A and P6-2 or P8-2) 	•
14-19 -	805 (C-4908)	PB-2)	
RGL-12) 44-12	12) 808	197	
RGT-12)	809 (C-5009) (See Model 805—Set 71-11)	PC6	
RGT-16)	810 (C-5010) (See Model 805-5et	PC9-A (See Ch. 10A—Set 106-10) PD2A (Ch. 2A and P6-2 or P8-2)	
45-16 15-19	812 (P-5106)	197-7	1
SGT-12) 21-23	813 (05107)	P8-2)	
SGT-16) 21-24	815 (C-5109)	197-7	
21-24 15-19 Set 21-	817 (C-5111)	SROB (Ch. OB)	
	820 (D-5207) 202-3	SR2A (Ch. 2A and P6-2 or P8-2) 197-7	
263-10 263-10	71:11 39-8 813 (D5107) 139-8 814	PD2M (Ch. 2M and P6-2 or P8-2) 1977 SROB (Ch. OB)	'
	202-3) 247 7	SR2A6 (Ch. R-15A6 and P6-2 of P8-2)	
Listing)	829	EDTAL ICH DISAA and PA.7 or	
12-20	831 (See Model 830-Set 249-10) 832 (P.5506)	P8-2)	
11-15 6-17	832 (P.5506)	46-16) SR9A (See Ch. 10A—Set 106-10) SR52A6 (Ch. R17A6 and P6-2 or SR52A6 (Ch. R17A6 and P6-2 r	
11-14	833, 834, 836. 835 (C-5509) 900, 901 902 (C-5595) 279-8 279-8 279-8		
12-20 5-25	903 (C-5596)	SP52M6 (Ch. R16M6 and P6-2 or	
11-15 41-14	MOTOROLA (Also see Record Changer Listing)	P8-2)	
30-18		TK19M Tel, UHF Conv 193-5	
Meck)	AR-96-23 (M-5) 11-16 BKO-A (See Ch. 10A-Set 106-10) BK2A (Ch. 2A and P6-2 or P8-2)	TK-19ME Tel. UHF Conv. (See Mod- el TK17M—Set 193-5) TK-20M Tel. UHF Conv193—5	
216-4		TK-20M Tel. UHF Conv 193-5	
h. 9040) 216—4 247—6	197—7	TK-22M Tel. UHF Conv	
. 103-/	P8-21	TK-24M Tel. UHF Conv 193-5 TK-24ME Tel. UHF Conv. (See Mod-	
-C. MZ-T	BK8. X (See Ch. 8A-Set 46-16)	TK-24ME Tel, UHF Conv. (See Mod- el TK17M—Set 193-5) TK-31M Tel, UHF Conv. (See Model	
163-7 P':) (See 2)	BK53A6 [Ch. RI/A6 and Po-2 or PR-2] 263-13	TK1/M-Set 193-5)	
2) 204—5 P'') (See	CR-6 20-24	TK-33M Tel. UHF Conv. (See Model TK17M—Set 193-5) VF102, A, C (Ch. TS-7 and Radio Ch. HS-317)	
	CR-76	•VF102, A, C [Ch. TS-7 and Radio Ch. HS-317]	
204—5 163—7 175–12 204—5	CTO (See Model CT-9-Set B2-8)	eVF103, VF103M (Ch. TS-8) 73-8	
204-5	CT1 (See Ch. 1A—Set 134-8) CT1M	Ch. HS-108) 51-14	
Set 175-	CT2A (Ch. 2A and P6-2 or P8-2)	VK106 (Ch. TS-9D) Photofact Serv- icer 82	
204-5		• VK106, B, M (Ch. TS-9, A, B, C) 67-13	
204-5		●VK106, VK107 (Ch. TS-9E, TS-9E1)	
204-5	CT-6 CT-6 CT-6 CT8 (See Ch. 8A-Set 46-16)	• VT718, M-A (Ch. 48 through J)	
. 204—5 Model	CT8-A (See Ch. 10A-Set 106-10)	32-10	
7()	CT9	• VT-73, VT-73A (Chassis TS-4J Late) 71–12 • VT101 (Ch. TS-3)	
.251-11	P8-2)	I OVTIOI (Ch. TS-3) 51-14	1
	Change Bulletin Nos. Through 63 Are	All Contained in Set No. A-200 . D	er

MIRRORTONE-Cont.	MOTOROLA-
•Ch. 9048	FD-6 FD7 (See Mode
•Ch. 9050	FD8 (See Ch. 8 GM9T (See Ch.
•Ch. 9053, 9054	GM9T-A [See
MITCHELL	GMOT (See Ch GMT2A (Ch. 2
•T16-B, -M, T16-2KB, T16-2KM, T17-	GMT2M (Ch. 2
• T16-B, -M, T16-2KB, T16-2KM, T17- B, -M	GMT3A6 (Ch.
3D	P8-2) GMT53A6 (Ch.
1252, 1253	P8-2) HJ2A (Ch. 2A
1256	HJ2M (Ch. 2M
● 1728, 1-172M 189-11 ● 1728, 1-172M 189-1 172128, M 190-9 3D 251-12 1250, 1251 55-14 1252, 1253 155-12 1254, 1255 159-8 1256 159-8 1258, 1259 264-11 1261, 1262 259-9 1266 264-11 1267 264-1 1267 264-1 1267 264-1 1277 269-9 1271, 1272, 1273 260-1 1274, 1275 257-10 1276 265-8 1279, 1280 270-18 1279, 1280 270-10 1281 264-1 1281 274 263-1 1274 265-1 1276 2	HJ3A6 (Ch. R
1266	P8-2) HN2A (Ch. 2/
1268R	HN2A6 (Ch.
1274, 1275	P8-2) HN2M (Ch. 2)
1278	HN3A6 (Ch.
1281	P8-2) HN4A6 (Ch.
1287 267—6	P8-2) HN4M6 (Ch.
MOLDED INSULATION CO. (Also see Viz)	P8-2) HN8, HN9 (See HN53M6 (Ch.
MR-6 (Wiretone) 41-15	HN53M6 (Ch. P8-2) HN0 (See Ch. HT3A6 (Ch. 1
MONITOR	HNO (See Ch. HT3A6 (Ch. I
M-403 (Fact. No. 470-2) 22–20 M-500 (Fact. No. 475) 28–23 M-510 (Fact. No. 472) 23–15 M-3070	HNU (See Ch. HT3A6 (Ch. I P8-2) ILOTC (See C IL2TC (See Ch IL2T2 (See Ch. KRI (See Ch.
M-3070 29-15 RA-50 24-23	IL2T2 (See Ch
TA56M, TW56M 0-18	KR2A (Ch. 24
MONITORADIO (Radio Apparatus)	KR2M (Ch. 2)
AR-1	KR3A6 (Ch. 8
AR-5 (See Model AR-3)-Set 175-	KR8, KR9 (See
13) DRS-1	P8-2) KR8, KR9 (See KR9A (See Ch NHIC
DR-200	Set 184-9)
M-51A	NHIC NH2AC (See N Set 184-9) NH3C (See N 216-6) NH4AC (See N Set 264-13)
MONTGOMERY WARD (See Airline)	Set 264-13 NH5AC (See 1 Set 264-13
MOPAR	Set 264-13 NH6
602 (671A) 19–20 603	NH6 NH8 (See Ch. OEO (See Ch. OE2 (See Ch. OE2A (Ch. 2
602 (671A) 19-20 603 65-9 604 133-9 605 170-11 608 207-4 609 201-6	OE2 (See Ch. OE2A (Ch. 2
607	OE2A6 (Ch.
607	P8-2) OE2M (Ch. 2
612 (See Model 609-Set 201-6)	OE6
613, 614	OE6 OE8, OE9 (Se PCO (See Ch. PC2 (See Ch. PC2A (Ch. 2)
613, 614, 263-6 802 (C-4508), 18-24 802 (C-4508) (Revised), 42-19 803 (PD-4708), 66-12 804,, 67-12 805 (C-4908),, 71-11	
805 (C-4908)	PC2A6 (Ch. P8-2) PC2M (Ch. 2
	PC2M (Ch. 2
808	PC6 PC8, PC9 (Ser PC9-A (See C PD2A (Ch. 2
71.11	PD2A (Ch. 2
813 (0310/)	PD3A6 (Ch.
814	P8-2) PD2M (Ch. 2
817 (C-5111)	SROB (Ch. OI SRIB (See Ch
819 (P-5206)	SR2A (Ch. 2
819 (P-2/06) 202—3 820 (D-5207) 202—3 821	SR2A6 (Ch. P8-2)
202-3) 829	SR2M (Ch. 2
202-3) 829	SR3A6 (Ch. P8-2) SR6, SR8, S
832 (P-5506)	46-16)
835 (C-5509)	SR9A (See C SR52A6 (Ch. P8-2)
832 (P:5306) 284-10 833 834, 836 281-5 835 (C:5509) 284-10 900, 901 282-8 902 (C:5595) 279-8 903 (C:5596) 279-8	
MOTOROLA (Also see Record Changer Listing)	5852246 (Ch. P8-2) TC-101, B Te TK-17M Tel. TK19M Tel. U
11 16	TK19M Tel. U TK-19ME Tel.
BK2A (Ch. 2A and P6-2 or P8-2)	TK-19ME Tel. el TK17M- TK-20M Tel.
BK2M (Ch. 2M and P6-2 or P8-2) 197-7	TK-22M Tel. TK-23M Tel.
BK2M (Ch. 2M and P6-2 or P8-2) 197—7 BK3A6 (Ch. R-15A6 and P6-2 or P8-2) BK-6	TK-24M Tel.
BK-6	TK-24ME Tel. el TK17M- TK-31M Tel.
BK53A6 (Ch. R17A6 and P6-2 or P8-2)	
CP.76 25-21	TK-33M Tel. TK17M-Se
CTA3	•VF102, A, C Ch. HS-312 •VF103, VF10
CTM3	•VK101, B, W Ch. HS-100
CT2A (Ch. 2A and P6-2 or P8-2) 197-7	•VK106 (Ch.
197-7 CT2A6 (Ch. R-15A6 and P6-2 or P8-2)	• VK106, B, A
CT2M (Ch. 2M and P6-2 or P8-2)	•VK106, VK10
CT-6 CT8 (See Ch. 8A-Set 46-16)	• VT718, M-A
CT8-A (See Ch. 10A—Set 106-10) CT9 82—8 CT52M6 (Ch. 816M6 and 86-2 ar	• VT-73, VT-73

MOTOROLA-Cont.

FD-6 7-20 FD7 (See Model FD-6—Set 7-20) FD8 (See Ch. 8A—Set 46-16) GM91-6 (See Ch. 8A—Set 46-16) GM91-A (See Ch. 10A—Set 106-

 WTIDS (CL. TS-90) Photofoct Service
 82

 VTIDS, VTID5M (Ch. TS-9, TS-94, TS-95, TS-9C)
 67-13

 VTID7 (Ch. TS-90) Photofoct Service
 87-13

 VTID7 (Ch. TS-90, TS-94, Service)
 80

 VTID7, B, M (Ch. TS-9, A, B, C)
 87-13
 Ch. 10A—Set **106**–10) 2A and P6-2 or P8-2) **197**–7 2M and P6-2 or P8-2) **197**–7
 icer
 82

 VT107, B, M (Ch. TS-9, A, B, C)

 VT121 (Ch. TS-13)

 VT121 (Ch. TS-14)

 WB (See Milly: Model 677012-

 Set 156-14)

 VS2C (See Willy: Model 677517-

 Set 172-12)

 V17117, A, AB, B (Ch. TS-402Y)

 See PCB 106-Set 253-1)

 See PCB 106-Set 253-1)

MOTOROLA-Cont.

Y17720B, E, M (Ch. Y15.418Y)
 Y17721 (Ch. T5.418Y) (See PCB 124 - Set 280.1)
 Y17721 (Ch. T5.418Y) (See PCB 124 - Set 280.1 and Model Y17720B - Set 269.9)
 Y17728, E (Ch. YT5.418Y) (See PCB 124 - Set 280.1 and Model Y17720B - Set 269.9)
 Y17728, B (Ch. T5.418Y) (See PCB 124 - Set 280.4 and Model Y17720-Set 269.9)
 Y17729, B (Ch. T5.418Y) (See PCB 124 - Set 280.4 and Model Y17720-Set 269.9)
 Y19721, B (Ch. T5.418Y) (See PCB 124 - Set 280.4 and Model Y17720-Set 269.9)
 Y19721, B (Ch. T5.902AV.03, 04 and Model Y17720, A (Ch. T5.902AV.03, 04 and BP-902A.01)
 Y19CK1, B, Y19CK2, B (Ch. T5.902AV.03, 04 and BP-902A.01)
 Y19CK1, B, Ch. T5.902AV (See PCB 106-Set 235.1)
 Y21C28 (Ch. T5.502Y) (Also see PCB 106-Set 235.1)
 Y21C28 (Ch. T5.502Y) (Also see PCB 106-Set 235.1)
 Y21C3, B (Ch. T5.502Y) (Also see PCB 106-Set 235.1)
 Y21C3, B (Ch. T5.502Y) (Also see PCB 106-Set 235.1)
 Y21C3, B (Ch. T5.502Y) (Also see PCB 106-Set 235.1)
 Y21C3, B (Ch. T5.502Y) (Also see PCB 106-Set 235.1)
 Y21C3, B (Ch. T5.502Y) (Also see PCB 106-Set 235.1)
 Y21C3, Ch. Ch. Y15.502Y) (Also see Y17K12C, CB, CW, D, DB, DW (Ch. WT5.502Y) (Also see PCB 106-Set 235.1)

(Also tee PCB 106-Set 253.1) 237-8 ▼21K12C, CE, CW, D, DB, DW (Ch. WT5.502Y) [See PCB 106-Set 237-8] ▼21K12G (Ch. RT5.502Y) (See PCB 106 - Set 253.1 and Model Y1K17-Set 237-8] *21K13 (Ch. T5.502Y) (Also tee PCB 106-Set 253.1] ...237-8 *21K134, AB (Ch. T5.502Y) (See PCB 106-Set 253.1] ...237-8 *21K134 (Ch. T5.502Y) (Also tee PCB 106-Set 253.1] ...237-8 *21K134 (Ch. T5.502Y) (Also tee PCB 106-Set 253.1] ...237-8 *21K134 (Ch. T5.502Y) (Also tee PCB 106-Set 253.1] ...237-8 *21K144, AB (Ch. T5.502Y) (Also tee PCB 106-Set 253.1] ...237-8 *21K144, AB (Ch. T5.502Y) (Also tee PCB 106-Set 253.1] ...237-8 *21K144, AB (Ch. T5.502Y) (See

PCB 106—Set 233-13 ... 237—8 *721K14 (Ch. TS-502Y) (JS-502Y) (Alto see PCB 106—Set 233-1 erz) (K14A, AB (Ch. RTS-502Y) (See PCB 106—Set 233-1 and Model Y17K17—Set 237-8) *721K14B (Ch. TS-502Y, GTS-502Y) (Alto see PCB 106—Set 233-1 erz) (K14B (Ch. TS-502Y, GTS-502Y) (Alto see PCB 106—Set 233-1 erz) (K15A (Ch. TS-502Y) (See PCB 106—Set 233-1 erz) (K15A (Ch. TS-502Y) (See PCB 106—Set 233-1 erz) (K16AB, AW (Ch. RTS-502Y) (Alto see PCB 106—Set 233-1 erz) (K16AB, AW (Ch. RTS-502Y) (Alto see PCB 106—Set 233-1 erz) (K16AB, AW (Ch. RTS-502Y) (Alto see PCB 106—Set 233-1 erz) (K16AB, AW (Ch. RTS-502Y) (Alto see PCB 106—Set 233-1 erz) (K16AB, AW (Ch. RTS-502Y) (Alto see PCB 106—Set 233-1 erz) (K17A (Ch. WTS-502Y) (See PCB 106—Set 233-1 erz) (K17A (Ch. WTS-52SY) (See PCB 124—Set 230-1 erz) (See 106—Set 232-1 erz) (See PCB 106—Set 232-1 erz) (Alto See PCB 106

106 — Set 253-1 and Model 17K17-Set 237-8) €721711, B, W (Ch. VTS-5027) (Aiso ise PCB 106-Set 253-1) 237-6 •721713, B (Ch. TS-5247) (See PCB 106 — Set 253-1 and Model 17K17-Set 237-8) •721714 (Ch. TS-5077) (See PCB 107K17-Set 237-8) •721715 (Ch. WTS-5187A-02) (Aiso See PCB 124-Set 280-1) 269-9 •721717, B (Ch. VTS-5187) (Aiso See PCB 124-Set 280-1) 269-9 •721717, B (Ch. VTS-5187) (Aiso See PCB 124-Set 280-1) 269-9 •721717, B (Ch. VTS-5187) (Aiso See PCB 124-Set 280-1) 269-9 •721717, B (Ch. VTS-5187) (Aiso See PCB 124-Set 280-1) 269-9 •721718, B (Ch. RTS-5257, A-00, A-01, A-02, A-03)272-8

Denotes Television Receiver.

MOTOROLA

MOTOROLA-Cont.

- ■21K13B (Ch. TS-502) (Also See PCB 106—Set 233-1)
 237—8
 21K14 (Ch. TS-502) (Grs-502) (Also See PCB 106—Set 233-1) 237—8
 21K14A AB (Ch. TS-502) (See PCB 106—Set 237-8)
 21K14B (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 21K15 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 237—8
 21K15 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 237—8
 21K15 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 237—8
 21K15 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 237—8
 21K15 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 237—8
 21K16 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 237—8
 21K16 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 237—8
 21K16 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 237—8
 21K16 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 21K17 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 21K17 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 21K17 (Ch. TS-502, QTS-502) (Also See PCB 106—Set 233-1) 21K18, B (Ch. PTS-502, QTS-502) (Also See 7CB 124—Set 237-8)
 21K18, B (Ch. PTS-502, QTS-502) (Also See 7CB 124—Set 230-1) 20 (See PCB 106—Set 233-1) 21 (Also See PCB 106—Set 233-1) 21 (Also See 7CB 107—1) 21 (Also See 7CB 106—Set 137-1) 21 (Also See 7CB 106—Set 137-1) 21 (Also See 7CB 106—Set 137-1) 21 (Also See Set 137-1) 21 (Also See 7CB 106—Set 137-1) 21 (Also See 7CB 107—1) 21 (Also See 7CB 107—1) 21 (Also See 7CB 107—

 - 21115, 21116, B, E (Ch. WTS-518)
 (Alto See PCB 124—Set 280-1)
 269—9
 21117, B (Ch. YTS-518)
 (Alto See PCB 124—Set 280-1)
 269—9
 21117, B (Ch. YTS-518)
 (Alto See PCB 124—Set 280-1)
 269—9
 21118, B (Ch. YTS-525), A:00, A-01, A-02, A-03)
 272—8
 21119, B (Ch. TTS-528)
 278—7
 21123, B (Ch. TTS-528)
 278—7
 21123, B (Ch. TTS-528)
 278—7
 21123, B (Ch. TTS-527)
 (See Model 21123, Ch. TS-502)
 24K4, B, 24K5, B (Ch. TS-602)
 278—7
 2748, 24K5, B (Ch. TS-602)
 238—6
 24F1 (Ch. HS-44)
 286—7
 281 (Ch. HS-44)
 29-17
 3110, 49113Q (Ch. HS-183)
 41110, 49113Q (Ch. HS-244)
 280 (See Model 31-Set 100-7)
 51111, 5112U (Ch. HS-224)
 52810 (Ch. HS-305)
 199—10
 31110, 5112U (Ch. HS-224)
 280 (See Model 511-Set 116-9)
 51110, 5112U (Ch. HS-224)
 52810 (Ch. HS-309)
 149—8
 52810 (Ch. HS-309)
 191–15
 52C1A (Ch. HS-309)
 191–15
 52C24 (Ch. HS-309)
 197–15
 52C24 (Ch. HS-309)
 197–15
 52C4 (Ch. HS-309)
 197–15
 52C4 (Ch. HS-309)
 197–15
 52C6 (Ch. HS-309)
 197–15
 52C6 (Ch. HS-307)
 197–16
 52C6 (Ch. HS-307)
 197–15
 52C6 (Ch. HS-307)
 197–16

 - 52C6A
 (Ch. HS.373)
 (See Model 52C6—Sei 177-10)

 52C7
 (Ch. HS.310)
 177-10

 52C7
 (See Model 52C7—Sei 177-10)
 177-10

 52C8A
 (Ch. HS.310)
 177-10

 52C8A
 (Ch. HS.375)
 (See Model 52C8—Sei 177-10)

 52C8A
 (Ch. HS.375)
 See Model 52C8—Sei 177-10)

 52C9
 (Stritz)
 52H110

 52C1
 A, S2L2, A, S2L30, S2H140
 (Ch. HS-327)

 52H110
 52L12, A, S2L2, A, S2L3, A, Ch. HS-327, HS-357, 190-11
 52M110

 52R11, S2R12, S2R13, S2R14, S2R14, S2R11, S2R12, S2R13, S2R14, S2R15, S2R15, S2R16 (Ch. HS-209A)
 188-10

 52R11, S2R12, S2R13, S2R14, S2R-15, S2R16 (Ch. HS-209A)
 188-11

 52R11, S2R12, S2R13, S2R14, S2R-14A, S2R15A, S2R15A, S2R14A, (Ch. HS-317)
 178-7

103

- Denotes Television Receiver.

MOTOROLA-Cont.

MOTOROLA-Lont.
 1772W (Ch. TS-118 and Radio Ch. HS-253).
 121-10
 1773B (Ch. TS-118 and Radio Ch. HS-253).
 121-10
 1774A (Ch. TS-189 and Radio Ch. HS-253).
 121-10
 1774A (Ch. TS-18 and Radio Ch. HS-253).
 121-10
 1774A (Ch. TS-18 and Radio Ch. HS-253).
 121-10
 1775A. (Ch. TS-118 and Radio Ch. HS-253).
 121-10
 1775A. (Ch. TS-18 and Radio Ch. HS-253).
 121-10
 1775A. (Ch. TS-18 and Radio Ch. HS-253).
 121-10
 1775A. (Ch. TS-18 and Radio Ch. HS-253).
 121-10
 1775A. (Ch. TS-118 and Radio Ch. HS-253).
 121-10
 1776B. (Ch. TS-118) and Radio Ch. HS-253).
 121-10
 1776B. (Ch. TS-118) and Radio Ch. HS-253).
 1776B. (Ch. TS-174 and Radio Ch. HS-253).
 17778 (Ch. TS-118).
 1778 (Ch. TS-174 and Radio Ch. HS-251).
 1779 (Ch. TS-174 and Radio Ch. HS-261).
 1779 (Ch. TS-228 and Radia Ch. HS-261).
 1771 (Ch. TS-228 and Radio Ch. HS-302).
 1771 (Ch. TS-4004).
 1771 (S

MOTOROLA-Cont.

MOTOROLA-Cont.

 ID Construction

 17155 (Ch. TS-236)
 165-7

 17155 (Ch. TS-236)
 152-4A

 17155 (Ch. TS-236)
 152-4A

 17155 (Ch. TS-236)
 152-4A

 171768F, F (Ch. TS-228)
 165-7

 171768 (Ch. TS-124A, B)
 167-13

 171768 (Ch. TS-228)
 165-7

 17176 (Ch. TS-225A, B)
 165-7

 1717 (Ch. TS-225A, B)
 165-7

 1717 (Ch. TS-225A, B)
 168-8

 1717 (Ch. TS-225A, B)
 158-80

 1717 (Ch. TS-325A, B)
 158-80

 1717 (Ch. TS-325A, B)
 158-80

 1717 (Ch. TS-325A)
 158 (Se Model)

 1717 (Ch. TS-325A)
 158-80

 1717 (Ch. TS-325A)
 158-80

 1717 (Ch. TS-325A)
 158-80

 1717 (Ch. TS-325A)
 158-80

 1717 (Ch. TS-325A)
 159-60

 1717 (Ch. TS-325A)
 171-8)

 1711 (Ch. TS-325A, C)
 192-6

 1711 (Ch. TS-325A)
 192-6

 1711 (Ch. TS-325A)
 192-6

 1711 (Ch. TS-325A)
 192-6

 1711 (Ch. TS-325A)
 192-6</

211 and model 21C1→361 [91-2177 (bh. 15.292A, B, C) (Alto see Set 214-1 and PCB 73→ Set 214-1 and PCB 73→ Set 214-1 and PCB 73→ 21K7D, DY (Ch. WTS-202A, AY, B, BY, C, CY) (See PCB 63→Set 197-1, PCB 73→Set 214-1 and Model 21C1→Set 197-191-13) 21K7Y (Ch. 15.292AY, BY, CY) (See PCB 63→Set 197-1, PCB 73→Set 214-1 and Model 21C1→Set 191-13)

www.americanradiohistory.com

P(B 63—Set 197-1, P(B 73—Set 214-1 and Model 21(C1—Set 191-13) 21(K9, Y (Ch. WTS-292A, AY, B, BY, C, CY) (See PCB 63—Set 197-1, P(B 73—Set 214-1 and Model 21(C1—Set 191-13) 21(K10 B, BY, Y (Ch. YTS-292A, AY, B, BY, C, CY) (See PCB 63— Set 197-1, P(B 73—Set 214-1 and Model 21(C1—Set 191-13) 21(K11 B, BY, Y (Ch. YTS-292A, AY, B, BY, C, CY) (See PCB 63— Set 197-1, P(B 73—Set 214-1 and Model 21(C1—Set 191-13) 21(K12 A, B, AW (Ch. WTS-502) (Also See PCB 106—Set 233-1) 21(K12 C, CB, CW, D, DB, DW (Ch. WTS-502) (See PCB 106—Set 237-8) 21(K12 C, (Ch. RTS-502) (See PCB 106—Set 233-1 and Model 17K17 —Set 237-8) 21(K12 A, AB (Ch. RTS-502) (See PCB 106—Set 233-1 and Model 17K17 —Set 237-8) 21(K13 A, AB (Ch. RTS-502) (See PCB 106—Set 233-1 and Model 17K17—Set 237-8) NOTE: PCB Denotes Production Change Bulletin. Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

 1/3-10

 3MF (See Ford Model 3MF—Set

 206-5)

 3MFT (See Ford Model 3MFT—Set

 215-7)

 SA1 (Ch. HS-6)

 2-11

 SA2 (Ch. HS-6)

 2-11

 SA3 (Ch. HS-6)

 2-11

 SA3 (Ch. HS-26)

 SA7 (Ch. HS-228)

 29-16

 SC1 (Ch. HS-228)

 SC3 (Ch. HS-228)

 SC3 (Ch. HS-221)

 SC4 (Ch. HS-271)

 SC4 (Ch. HS-272)

 SC6 (Ch. HS-272)

278-7 2MF (See Ford Model 2MF-Set 175-10) 3MF (See Ford Model 3MF-Set

MOTOROLA-OAK

MOTOROLA-Cont. S2R1U, 52R12U, 52R13U, 52R-115) 52R12U, 52R13U, 52R-115) 52R15U, 52R16U (5.R. HS. 115) 51C, 33C2, 33C3, 53C4 (6. HS. 117-11 33C1, 33C2, 33C3, 53C4 (6. HS. 117-11 33C1, 33C2, 53C3, 53C4 (6. HS. 117-11 33C1, 33C2, 53C3, 53C4 (6. HS. 117-11 33C1, 33C2, 53C3, 53C4 (6. HS. 117-11 117-12 117 MOTOROLA-Cont. MOTOROLA-Cont. 59411U, 59412IU ICh. marging 97-0 1871, 59412Q, 59414Q ICh. HS-1871, 59412Q, 59414A ICh. HS-78-10 59411, 59412I, 59413M, 59414E, 59415G, 59416Y ICh. HS-1401 59411, 59412I ICh. HS-1401 59411, 59412I ICh. HS-1401 59421U, 59422IU ICh. HS-1921 59421C, 59422IU ICh. HS-1921 59421C, 59422IU ICh. HS-1921
 Control
 Control
 Control

 Gell
 Gell
 Gell
 Gell

 Gel
 85F21 (Ch. HS-22)
 6-20

 85K21 (Ch. HS-52)
 5-3

 88F821 (Ch. HS-133)
 54-15

 91FM21 (Ch. HS-1203A) (See Model
 19FI-3er

 19FI-3er
 111-9)

 92FM21, A, B, BA (Ch. HS-316A)
 (See Model 21FI-3er

 (See Model 21FI-3er
 173-9)

 95F31, 95F318 (Ch. HS-37), 95F33
 (Ch. HS-38)

 (Ch. HS-38)
 19-22

 97FM21R (Ch. HS-170)
 80-10

 403--Set 3-8)
 38-12

 408
 38-12

 409 (See Model 408-Set 38-12)
 215-10

 412
 215-10

 500
 98-7

 501
 133-10

 503
 221-8

 504
 221-8

 503
 221-8

 504
 261-9

 505 (Ch. A5-14)
 4-37

 508
 (See Model 508-Set 39-13)

 509
 (See Model 506-Set 39-13)

 500
 (See Mogar Model 603-Set 65-9)

 600
 (See Mogar Model 607-Set 133-9)

 605 (She A5-15)
 5--1

 605 (She A5-15)
 5--1

 607 (See Mogar Model 607-Set 133-9)

 607 (See Mogar Model 607-Set 133-9)

 607 (See Mogar Model 607-Set 170-1)

 608 (Mogar) (See Mogar Model 607-Set 170-1)

 170-11
 39-14

 608
 39-14

 608 (Moport) (See Mopor Model 608
 Set 207-4)

 609 (See Model 608-Set 39-14)
 6111 (See Mopor Model 6101)—Set 220-5)

 612 (See Mopor Model 609—Set 201-6)
 609-Set 201-6)

 700
 100-9

 012
 issee mopor
 Model
 609—Set

 201-6.
 100—8

 701
 ...
 100—8

 702
 ...
 137—8

 705
 [Ch. A5-16)...
 ...

 709
 [See Model 708—Set 40-12

 700
 ...
 103-10

 801
 ...
 138—6

 802
 [Ch. B7-2 and P8-2].
 197—7

 804
 [See Mopar Model 804—Set
 67-12]

 808
 [See Mopar Model 804—Set
 103—Set

 814
 [See Mopar Model 814—Set
 Set
 107-6) 814 (See Mapar Model 814-Set 817-7) 829 (See Mapar Model 829-Set 247-7) Ch. AS-13 (See Model 405) Ch. AS-14 (See Model 405) Ch. AS-14 (See Model 405) Ch. AS-15 (See Model 505) Ch. AS-16 (See Model 505) Ch. AS-17 (See Model 511) Ch. HS-2 (See Model 545) Ch. HS-2 (See Model 5511) Ch. HS-18 (See Model 545) Ch. HS-2 (See Model 5571) Ch. HS-2 (See Model 5751) Ch. HS-2 (See Model 5751) Ch. HS-36 (See Model 5751) Ch. HS-37 (See Model 5771) Ch. HS-36 (See Model 5771) Ch. HS-37 (See Model 5771) Ch. HS-67 (See Model 5771) Ch. HS-68 (See Model 5771) Ch. HS-69 (See Model 5771) Ch. HS-69 (See Model 5771) Ch. HS-71 (See Model 5771) Ch. HS-72 (See Model 5771) Ch. HS-73 (See Model 5771) Ch. HS-72 (See Model 5771) Ch. HS-73 (See Model 5771) Ch. HS-73 (See Model 5771) Ch. HS-74 (See Model 5771) Ch. HS-712 (See Model 67711) Ch. HS-712 (See Model 67771) Ch. HS-712 (See Model 5771) Ch. HS-712 (See Model 5771) Ch. HS-712 (See Model 5771) Ch. HS-712 (See Model 67711) Ch. HS-712 (See Model 67711)

Ch. HS.244 [See Model SH11U] Ch. HS.244 [See Model SH11U] Ch. HS.245 [See Model SFM21] Ch. HS.247 [See Model SFM21] Ch. HS.250 [See Model SM11] Ch. HS.250 [See Model SM11] Ch. HS.250 [See Model SM21] Ch. HS.271 [See Model SM21] Ch. HS.272 [See Model SM21] Ch. HS.272 [See Model SM21] Ch. HS.272 [See Model SM21] Ch. HS.273 [See Model SM21] Ch. HS.273 [See Model SM21] Ch. HS.273 [See Model SM21] Ch. HS.260 [See Model SM21] Ch. HS.200 [See Model SM11] Ch. HS.200 [See Model SM11] Ch. HS.200 [See Model SM11] Ch. HS.200 [See Model SM21] Ch. HS.201 [See Model SM21] Ch. HS.201 [See Model SM21] Ch. HS.201 [See Model SM21] Ch. HS.203 [See Model SM21] Ch. HS.213 [See Model SM21] Ch. HS.213 [See Model SM21] Ch. HS.237 [See Model SM21] Ch. HS.237 [See Model SM21] Ch. HS.337 [See Model SM21] Ch. HS.343 [See Model SM21] Ch. HS.344 [See Model SM21] Ch. HS.345 [See Model SM21] Ch. HS.345 [Ch. 15.90 [See Model V1105] Ch. 15.90 [See Model V1105] VK106] Ch. 15.95 [See Model 10VK-12] Ch. 15.15 [See Model V1-12]] Ch. 15.15 (See Model 16VF8B] Ch. 15.16 A (See Model 16VF8B] Ch. 15.16 A (See Model 16VF8B] Ch. 15.16 A (See Model 17VT1] Ch. 15.23 (A See Model 12X2) Ch. 15.33 [See Model 1671] Ch. 15.33 [See Model 1671] Ch. 15.45 (See Model 1671] Ch. 15.46 (See Model 1671] Ch. 15.47 [See Model 1671] Ch. 15.48 [See Model 1671] Ch. 15.48 [See Model 1671] Ch. 15.48 [See Model 1671] Ch. 15.49 [See Model 1672] Ch. 15.41 [See Model 1672] Ch. 15.44 [See Model 1672] Ch. 15.44 [See Model 1672] Ch. 15.47 [See Model 1771] Ch. 15.47 [See Model 1774] Ch. 15.20 [See Model 1774] Ch. TS-292A, B, C (See Model 21C1) Ch. TS-292AY, BY, CY (See Model 21C1Y) 21C1Y) Ch. T5-307 (See Model 20K6) Ch. T5-314A, B, T5-315A, B (See Model 17K10E) Ch. T5-324, A, B (See Model 2114A) Ch. TS-324AY, BY (See Models 21T4A and TK-19M)

MOTOROLA-Cont.

MUNTZ-Cont. MOTOROLA-Cont.
 multoRolla-Cent.

 Ch. 15:322, A., TS:326, A. (See

 Ch. 15:3232, A., TS:326, A. (See

 Ch. 15:3295, A. (See Models 17F12)

 Ch. 15:3295, -02 (See Models 17F113)

 Ch. TS:3295, -02 (See Model 17F13)

 Ch. TS:320, C. (See Model 17F13)

 Ch. TS:401 (See Model 17F17)

 Ch. TS:402 (See Model 17F17)

 Ch. TS:403 (See Model 17F17)

 Ch. TS:404 (See Model 17F17)

 Ch. TS:404 (See Model 17F13)

 Ch. TS:418 (See Model 17T13)

 Ch. TS:418 (See Model 17T13)

 Ch. TS:501 (See Model 17T13)

 Ch. TS:502 (See Model 17T20)

 Ch. TS:507 (See Model 21T3)

 Ch. TS:507 (See Model 21T3)

 Ch. TS:507 (See Model 21T3)

 Ch. TS:502 (See Model 21T3)

 Ch. TS:502 (See Model 21T3)

 Ch. TS:502 (See Model 21C3)

 Ch. TS:502 (See Model 21T3)

 Ch. TS:502 (See Model 21T3)

 Ch. TS:502 (See Model 21T4)

 C
 MUNTZ

 M30 (Ch. TV-16A1)
 108—8

 M31 (Ch. TV-16A2)
 108—8

 M31 (Ch. TV-16A2)
 108—8

 M31 (Ch. TV-16A2)
 16-10

 M31 (Ch. TV17A3)
 5er Model

 M32 (Ch. TV17A3)
 5er Model

 M32 (Ch. TV17A3)
 5er Model

 M32 (Ch. TV17A3)
 16-10

 M32 (Ch. TV17A3)
 16-10

 M32 (Ch. TV17A3)
 5er Model

 M32 (Ch. TV17A3)
 5er Model

 M32 (Ch. TV17A3)
 5er Model

 M32 (Ch. TV17A3)
 5er 116-10

 M33 (Ch. TV17A4)
 16-10

 M34 (Ch. TV17A4)
 16-10

 M41, M42 (Ch. TV17A3)
 5er Model

 7053
 7751

 M42 (Ch. TV17A7)
 5er Model

 2053
 7751
 MUNTZ
 Mödel 1750]

 2053]

 Méd (Ch. TV17A7) (See Model 2053)

 Méd (Ch. TV17A7) (See Model 2053)

 May (Ch. TV17A7) (See Model 2053)

 Miss (Ch. 37C4)

 Miss (Ch. 1788, Above Serial No. 374500) (See PCB 87—Set 230-1 and Model 2763A—Set 208-7]

 Miss (Ch. 1785), 1752 (Ch. 17A7) (See PCB 33)—Set 116-10]

 Miss (Ch. 17A7) (See PCB 33)—Set 116-10]

 Miss (Ch. 17A7) 2034 (Ch. 1774) (see FCb 33-36) (150-360 Model W31-361 FCb 10)
 2034-A (Ch. 1781, 1782) (For TV Ch. only see Ch. 1781-Set 163-8)
 2035 (Ch. 17A7) (See FCB 33-Set 159-3 and Model W31-361 Set 116-10)
 2035 (Ch. 1782, Above Seriol No. 369500 or Ch. 1786, Above Seriol No. 3619500) ...207-35
 2035-A (Ch. 1782, Above Seriol No. 369500 or Ch. 1782, Above Seriol No. 3619500 or Ch. 1782, Above Seriol No. 3619500 or Ch. 1786, Above Seriol No. 3619500 or Ch. 1786, Above Seriol No. 3619200) ...207-5

MUNTZ-Cont. • 2055-8 (Ch. 1782) (See Ch. 1782-Set 163-8] • 20558 (Ch. 1782) (See Ch. 1786, Above Serial No. 3619500) ... 207-5 • 2035 (Ch. 1787) (See PCB 33-Set 159-3 and Model M31-Set 116-10) • 2056-A (Ch. 1781, 1782) (See Ch. 1781-Set 163-8] • 2060 (Ch. 1782, Above Serial No. 369500 or Ch. 1786, Above Serial No. 3619500) ... 207-5 • 2158A (Ch. 1782, Above Serial No. 369500 or Ch. 1786, Above Serial No. 3619500) ... 207-5 • 2159A (Ch. 1782, Above Serial No. 369500 or Ch. 1786, Above Serial No. 3619500] ... 207-5 • 2159A (Ch. 1782, Above Serial No. 369500 or Ch. 1786, Above Serial No. 3619500] ... 207-5 • 2159A (Ch. 1782, Above Serial No. 369500 or Ch. 1786, Above Serial No. 3619500] ... 207-5 • 2159A (Ch. 1782, Above Serial No. 395500 or Ch. 1786, Above Serial No. 3619500] ... 207-5 • 2162-A (Ch. 1782, Above Serial No. 395500 or Ch. 1786, Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1783, 1784) (See Ch. 1785-Set 163-8] • 2463-A (Ch. 1785, 1786) • Ch. 1781 (Above Serial No. 349-500) (See Model 2053) • Ch. 1784 (See Model 2053) • Ch. 1784 (See Model 2763) • Ch. 3744 (See Model 2763) • Ch. 3744 (See Model 2763) • Ch. 3744 (See Model 321C1) • A 3744 (See Model 32
 6MN082
 9-23

 NATIONAL CO.
 Criterion
 268-9

 Criterion
 268-9
 9

 Horizon 5
 269-10
 9

 Horizon 10
 266-10
 9

 Horizon 20, 20A
 270-11
 9

 HRO-7R, HRO-7T
 50-12
 112--7

 HRO-50R1, HRO-50T1
 169-11
 112--7

 HRO-50R1, HRO-50T1
 169-11
 149-13

 NC-240DR, NC-240DT
 41-16
 NC-33

 NC-357
 48-14
 NC-46
 9-26

 NC-57
 48-14
 NC-68
 233-7

 NC-103R, NC-103T
 49-15
 NC-173T

 NC-173R, NC-173T
 40-13
 NC-173R, NC-173T

 NC-172R, NC-173T
 49-15
 9

 NC-17V, NC, T, W (Alios tee PCB 1<-58</td>
 103-19)
 94-5

 NC-TV-102 (Alio stee PCB 1<-58</td>
 103-19)
 94-5

 NC-TV-120, NC-TV-1226, Alias tee
 10-49
 94-5

 NC-TV-120, NC-TV-1226, Alias tee
 10-58
 10-58

 NC-TV-120, NC-TV-1226, Alias tee
 10-58
 10-58

 <t NOBLITT SPARKS (See Arvin) OAK (See Record Changer Listing)

NOTE: PCB Denotes Production Change Bulletin. Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

www.americanradiohistory.com

Denotes Television Receiver.

MUSI	TRON				
PT-10			 ۰.	 	15-20
PX			 	 	16-28
SRC-3			 	 	13-21
101 '	Piccolo	۰ .	 	 	13-21
103 "	Piccolo	۰.	 	 	15-21
105 .			 	 	21-26
202 .			 	 	21-27

(See Drexel or General)

NASH

NATIONAL UNION G-613 "Commuter" 19–23 G-619 11–35 571, 571A, 571B 17–22 NEWCOMB

NORFLCO

- MURPHY
- 113 122 (See Model 112-Set 2-15)

MUTUAL BUYING SYNDICATE

NATIONAL CO.

OLDSMOBILE-PHILCO

PHILCO-Cont.

 PHILCO-Cont.
 1

 B804
 (See Model 53:804-Set 210:4)
 53:804-Set 210:4)

 8:956
 218-8
 81349
 239-11

 8:1350
 (See Model 53:1350-Set 203:7)
 235-9
 81750
 53:750-Set 203:7)

 8:1752
 8:1753
 240-6
 81754
 (See Model 53:1754-Set 214:8)
 754
 Set 31:1754-Set 214:8)

 8:1753
 240-6
 81754
 (See Model 53:1754-Set 214:8)
 214:8)
 81756
 241-10

 C:570
 (Codes 124:126)
 272-9
 C:570
 C:580
 272-10

 C:581
 C:584
 C:587
 C:584
 C:587
 C:584
 C:587

1343

41, C-1342, C-1343 285--11 279-10 259-11

C-1343, C-1344, C-1342, C-1343 C-1340, C-1341, C-1342, C-1343 C-1347, Z79-10 C-1348, Z79-10 C-1735, ISee Model B-1756-Set Z41-10) C-4608 (Code 121) (See Mopar Model 802-Set 18-24) C-4608 (Code 122) (See Mopar Model 802-Set 18-24) C-4608 (See Mopar Model 809-Set T-11) C-500 (See Mopar Model 809-Set T-11) C-5100 (See Mopar Model 815-Set T-11) C-5100 (See Mopar Model 815-Set T-139-8) C-5500 (See Mopar Model 800-Set Z49-10) C-5500 (See Mopar Model 805-Set T-139-8) C-5500 (See Mopar Model 805

 CR-9
 38-13

 CR-9R (See Model CR-9-Set 44-17)
 7

 CR-12
 39-16

 CR-501
 142-9

 CR-503
 128-10

 D-5107 (See Mopor Model 813-Set 139-8)
 0

 D-5207 (See Mopor Model 820-Set 202-3)
 0

 D-5407 (See Mopor Model 920
 0

C-1334 C-1340, C-1341, C-1342,

OLDSMOBILE	OLYMPIC-Cont.
982375	•21158 (Ch. TN-21)
982420 57-12	•21174 (Ch. TN-21)
982421 87-7 982454 60-16	 21186 (Ch. TN-21) (See Model 21C65-Set 214-7)
982543	•21TS11, 21TS17 (Ch. "S") 267-8
982375 20-25 982375 59-14 982421 57-12 982421 877 982421 877 982423 1577 982543 60-16 982543 1577 982543 1577 982579 96-7 982590 150-10 982990 225-13 983004 235-8 983004 235-8 983004 235-8 983004 261-10 983004 261-10 983204 58-127-7 983205 (See PCB 122-Set 27-7) 983205 (See PCB 122-Set 27-7) 983205 (See PCB 122-Set 27-7)	OLTMPIC-Cont. 21158 (Ch. TN-21) 214-7 21154 (Ch. TN-21) 214-7 21174 (Ch. TN-21) 214-7 21174 (Ch. TN-21) [See Model 21655-Set 214-7] [See Model 21511, 211517 (Ch. 'S') 267-8 211712 (Ch. 'J') 267-8 211712 (Ch. 'J') 267-8 211728 (Ch. Y) 267-8 21172 (Ch. TN-21) (See Model 2165-Set 214-7) 220113 through 220117 (Ch. TN-
982697, 982698 (See Model 982544	• 22D100 through 22D109 (Ch. TN-
982699, 982700 150-10	214-7)
982990	● 22D111 (Ch. TN-21) (See- Model 21C65—Set 214-7)
983090	•22D113 through 22D117 (Ch. TN-
983204 (See PCB 123—Set 277-1	21C65—Set 214-7) •22D113 through 22D117 (Ch. TN- 21) {See Model 21C65—Set 214-7)
and Model 983090-Set 267-7)	51-421W
and Model 983091-Set 261-1)	152-11)
OLYMPIC	132-11) 286-8 402 264-15 445 156-9 585 058 2528 357-11 752, 7520, 753, 7530 126-8 754 (See Model 752-Set 126-8) 126-8 755 (Total 176-8 126-8
•DX-214, DX-215, DX-216, 106-11 •DX-619, DX-620, DX-621, DX-622 106-11	489
• DX-619, DX-620, DX-621, DX-622 106-11	505, 505B
•DX-931, DX-932	•752, 752U, 753, 753U 126-8
HF500	•755, 755U
RTU-3H (Duplicator) 62–15 • TV-104, TV-105	 755 (57550
•TV-106, TV-107, TV-108 (See Model	•762
• TV-246 (See Model TV-946-Set	●764, 764U
106-11 •DX-931, DX-932 106-11 •DX-950 106-11 HF500 256-11 HF501 62-15 *TV-104, TV-105 67-15 *TV-104, TV-107, TV-108 (See Model TV-946-Set 67-15) 17V-204 (See Model TV-946-Set 67-15) *TV-247 (See Model TV-947-Set 17V-947	• 758 (See Model 752Set 126-8) • 762
85-10)	•767
•TV-248 (See Model TV-948-Set 67-15)	•767 1268 •768, 769, 773 (See Model 752 Set 126-8) •783 139-11
e TV-922 58-14	5et 120-8) 783
TV-928 (See Model TV-922—Set	•791, 792 (See Model 752-Set 126-8)
58.141	
•TV-944, TV-945	971, 972, 973 [See Model 967- Set 139-11] Ch. "P" [See Model 17CR20] Ch. "W" [See Model 12(S12] Ch. "W" [See Model 12(S12] Ch. "W" [See Model 12(CU15) Ch. "X" [See Model 12(CU15) Ch. TK1 [See Model 17740] Ch. TL20 [See Model 17740] Ch. TL-17 [See Model 17757] Ch. TL-21 [See Model 12(C55]
	Ch. "R" (See Model 17CR20)
TV-947	Ch. "W" (See Model 17TW27)
eTV-949, TV-950	Ch. ''U'' (See Model 21CU15) Ch. ''X'' (See Model 21CY29)
(V-948 (See Model (V-104—Set	Ch. TK17 (See Model 17T40)
6-501, 6-502, 6-502-P, 6-503 4-10	Ch. 1120 [See Model 20C45] Ch. TM-17 (See Model 17C57)
6-501V-U (See Model 6-501W-U- Set 3-20)	Ch. TN-21 (See Model 21C63)
Sef 3-20) 5-501%-U, 6-502-U 3-20 6-504, 6-504L 3-25 6-601%, 6-601%, 6-602, 8-24 6-604 Series 22-21 6-604 -110, 6-604 -20, 6-604 - 156 - 6-604 -560 - 5604 - 5604 - 20 22-21 - 20 - 20 - 20 - 20 - 20 - 20 - 20	
6-504, 6-504L	OPERADIO 1A30 34-15 1A35 33-15 1A45 48-16 1A65 52-14 1A40 46-17 1A40 46-17 4A25-E 101-8 4A30-A 102-9 4A30-A 102-9 4A35-A 102-9 4A35-A 102-9 4A35-A 102-9 4A35-A 102-9 4A35-A 102-9 530, 531, 1335 'Soundcoster' 37-14 37-14
6-604 Series	1A45
110, 6-604W-150, 6-604-220	1A65
	1A140
6-606 4-36 6-606-A 1117 6-606-U 1118	4A30-A
6-606-U 11-18	4A35
6.61711 (See Medel 6.617 - Set 4.7)	4455
7-421V, 7-421W, 7-421X. 57-13	11A55
7-435V, 7-435W	530 531 1335 "Soundroster"
7-526 30-21	37.14
7-526	
7-421% 7-421% 7-13 7-435% 7-435% 34-13 7-532% 30-21 7-532% 7-5337 37-13 37-13 7-628 34-14 34-14	ORTHOSONIC (See Electronic Labs.)
7-622, 7-638	ORTHOSONIC (See Electronic Labs.)
7-622, 7-638 34-14 7-724 29-19 7-728 (See Model 7-724—Set 29- 19)	ORTHOSONIC
7-622, 7-638 34-14 7-724 29-19 7-728 (See Model 7-724—Set 29- 19)	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) BACKARD
7-522, 7-538 34-14 7-724 29-19 7-728 (See Model 7-724—Set 29-19) 19) 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533W 57-14	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) BACKARD
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 PA.392067 ST-15
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA:382042 20-26 PA:392307
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA:382042 20-26 PA:392307
7-522, 7-638 34-14 7-724 29-19 7-728 [See Model 7-724—Set 29- 19] 7-925, 7-934, 7-936, 7-939 31-22 8-451 48-15 8-533V, 8-533W 57-14 8-618 35-16	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA:382042 20-26 PA:392307
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA:382042 20-26 PA:382042 20-26 PA:382042 100-7 10387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 113910 See 763 104-See 130-71 113910 See 768 104-See 120-8 1143930 See 768 104-See 120-8 11439305 See 768 101-See 120-8 11439464 158-87-28-81 11439465 See 768 101-See 120-7 11439465 See 768 101-See 120-7 11439466 See 768 101-See 120-7 11439466 </td
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA:382042 20-26 PA:382042 20-26 PA:382042 100-7 10387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 113910 See 763 104-See 130-71 113910 See 768 104-See 120-8 1143930 See 768 104-See 120-8 11439305 See 768 101-See 120-8 11439464 158-87-28-81 11439465 See 768 101-See 120-7 11439465 See 768 101-See 120-7 11439466 See 768 101-See 120-7 11439466 </td
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA:382042 20-26 PA:382042 20-26 PA:382042 100-7 10387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 113910 See 763 104-See 130-71 113910 See 768 104-See 120-8 1143930 See 768 104-See 120-8 11439305 See 768 101-See 120-8 11439464 158-87-28-81 11439465 See 768 101-See 120-7 11439465 See 768 101-See 120-7 11439466 See 768 101-See 120-7 11439466 </td
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA:382042 20-26 PA:382042 20-26 PA:382042 100-7 10387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 113910 See 763 104-See 130-71 113910 See 768 104-See 120-8 1143930 See 768 104-See 120-8 11439305 See 768 101-See 120-8 11439464 158-87-28-81 11439465 See 768 101-See 120-7 11439465 See 768 101-See 120-7 11439466 See 768 101-See 120-7 11439466 </td
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA:382042 20-26 PA:382042 20-26 PA:382042 100-7 10387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 11387 100-7 113910 See 763 104-See 130-71 113910 See 768 104-See 120-8 1143930 See 768 104-See 120-8 11439305 See 768 101-See 120-8 11439464 158-87-28-81 11439465 See 768 101-See 120-7 11439465 See 768 101-See 120-7 11439466 See 768 101-See 120-7 11439466 </td
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39305 (See PCB 104—Set 250-1 and Model 416387—Set 120-7 and Model 40414 and Model 40416387—Set 22-81 and Model 404164 22-28 A39666 (See PCB 101—Get 24-71 and Model 404164 22-28 PACKARD-BELL C1461 C1461 12-22 SD6 44-15 SD7 12-28
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39305 (See PCB 104—Set 250-1 and Model 416387—Set 120-7 and Model 40414 and Model 40416387—Set 22-81 and Model 404164 22-28 A39666 (See PCB 101—Get 24-71 and Model 404164 22-28 PACKARD-BELL C1461 C1461 12-22 SD6 44-15 SD7 12-28
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
7-322 7-638 34-14 7-224 See Model 7-724—Set 29-19 7-92 7-925 7-936, 7-936, 7-939 31-22 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-431 See Model 7-724—Set 29-19 7-92 8-433 See Model 7-724—Set 29-19 7-92 8-433 See Model 752—Set 126-81 7-74 9-4353 9-435 See Model 752—Set 126-81 9-7025 FC44 FC477 26-7 9-7625 FC44 FC4777 26-7 9-7625 FC47 FC47-86 FC47-8 9-7625 FC47 FC47-8 FC47-8 9-7625 FC47-17 26-7 FC480 9-7625 FC47-8 FC47-8 FC47-8 9-7625 FC47-17 126-7 FC757-6 9-7748 FC4. TK17) 196-9 F7756 9-7748 FC4. TK17) 196-9 F7756 9-7749 FC4. TK17) 196-9<	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ORTHOSONIC (See Electronic Labs.) PACIFIC MERCURY (See Mercury) PACKARD PA.382042 20-26 and Model 416387—Set 160-71 43964 A39661 [See PCB 104—Set 220-1 and Model 416387—Set 160-71 and Model 404 16387—Set 120-1 and Model 416387—Set 22-81 and Model 404 16387—Set 22-81 PACKARD-BELL C1362 12-21 C1461 12-22 SD8 44-15 SD8 44-15 A1 30-22 SJ1 21-128 A71 3

14-7	PACKARD-BELL-Cont. • 2001TV, 2002TV	
14—7 14—7 14—7 Model	• 2001TV, 2002TV 98_8 • 2041, 2042, 2043, 2044 (Ch. 2040) 	
	•2101, 2102 123-10 •2105, 2105A 123-10	•
67—8 67—8 88—7	2101, 202, 203, 204 (cf. 2047) 23-8 2101, 2102	
1. TN- 5-\$et	• 2118	
Model	• 2202, 2204 123-10 • 2291TV, 2292TV, 2293TV, 2294TV,	
1. TN-	2295TV, 2296TV 82-10 • 2297-TV De Luxe, 2297-TV Stand-	
5—Set	● 2297.TV De Luxe, 2297.TV Stand- ord 82-10 ● 2298-TV 82-10 ● 2301.TV 1269 ● 2301.TV 1269 ● 2301.TV 1269 ● 2301.TV 1269 ● 2311 121-0 ● 2421, 2422, 2423 1879 ● 2601.TV 12210 ● 2602, 2622 (Ch. 2621-2) 136-10 ● 2622, 2622 (Ch. 2621-2) 136-10 ● 26272, 2724 (Ch. 2701) 2076 ● 2723, 2724 (Ch. 2701) 2076 ● 2723, 2724 (Ch. 2701) 238-10 ● 2803TV 1269 ● 2803TV 1269 ● 2803TV 1269 ● 2803TV 1269 ● 2811A 1616	
51—9 /—Set	•2301-TV	
86—8	•2311	•
64–15 54–9	• 2601-TV 122-6 • 2602 123-10	
54—9 59–10 57–11	• 2621, 2622 (Ch. 2621-2) . 196-10 • 2692 TV	•
26—8 6-8) 26—8	2723, 2724 (Ch. 2710) 207-6 2723, 2724 (Ch. 2710) 207-6	
6-8) 6-8)	•2801-TV, 2801A-TV	
39 –11 26—8	• 2811A	•
Set	2801-TV, 2801A-TV	
26—8 752—	and the second s	•
39-11	2841—Set 242-7) 2921, 2922, 213—4 2941 (Ch. 2940-1), 238=10 2942 (Ch. 2840), 242—7 2945 (2947 (Ch. 2840) (See Model 2841—Set 242—7) 2991 TV, 94—6	
9.11) —Set	●2942 (Ch. 2840)	•
	● 2991TV	
967	• 3041 (Ch. 2940-1)	•
)) 7)	•17101, U, 17104, U {Ch. T-10}	
)	●21102, U (Ch. T-10)	•
	●21201, U (Ch. T-10)	
}	2946, 2947 (ch. 2840) (See Model 2841—5et 242—7 2991TV	•
14.16	●21401, U (Ch. T-1)	
34-15 33-15 18-16	17101-Set 274-11)	
52-14	Ch. T-10 [See Model 1710]}	
47-16 16-17 01-8	Ch. 2040 (See Model 2041) Ch. 2115-2 (See Model 2115)	
29 009	Ch. 2117 (See Model 2117) Ch. 2621-2 (See Model 2621)	
02_9 00_9	Ch. 2710 (See Model 2723) Ch. 2720 (See Model 2721)	
99-11 3-6 ster''	Ch. 2740 (See Model 2742) Ch. 2840 (See Model 2841)	
37 -14	Ch. 2940-1 (See Model 2941) Ch. 3040-1 (See Model 3042)	
	PARKVIEW •17x	٠
	PATHE	
	•17-N25, 17-RPC, 17-RPT (Ch. TAP) (Similar to Chassis)127-12	
0-26 7-15 50-7	PEDERSEN	•
	PCP-20	
250-1 0-7}	PENTRON (Also see Recorder Listing)	•
250-1 0-7) 298	AFM 26416 AM-T 18311 F-100 18410	
250-1 0-7)		•
247-1	MM4	
250-1	PHILCO (Also see Record Changer Listing) A-T1814, A-T1816, L (Code 123)	•
247-1 9-8}	• A-T1814, A-T1816, L (Code 123) (Ch. 81, H-1, H-1A) (See PCB 83 Set 224-1 and Model 53-T1824 Set 201-7)	
2-21 2-22 6-29	D-oij (Also see FCB 115-3e)	
4~15	●A-T1817, HM (Code 123) (Ch. 81, H.) H.1A) (See PCB 83—Set	
3-16		٠
0-22 1-11 12-4	201-7) • A-T1818 (Code 128) (Ch. 91A, J-2) (See PCB 66-Set 203-1, PCB 82 Set 223-1 and Model 53-T1853 Set 185-10)	
0-12	-Set 185-10) •A-T1856, HM, L. W (Code 123)	•
2-12 2-7		
-7) 2—35 15)		
9-24	D-81) (Alto See PCB 115Set 227-10 - 227-10 (See PCB 66-Set 203-1, PCB 82 -Set 223-1 and Model 53-T1853 Set 125-10 •A-72230, L (Code 123) (Ch. 81, H-1, H-1A) (See PCB 83Set 224-1 and Model 53-T1824Set 201-7)	
22)	A-[1858 (Code 128) (Ch. 91A, J-2) (See PCB 66—Set 203-1, PCB 82	•
4-15) 18		
6-12	H-1, H-1A) (See PCB 83—Set 224-1 and Model 53-T1824—Set	
4-42 8-25 3-22 6-18	A-T2230 (Code 129) (Ch. 81A,	
	D-81) (Also See PCB 115—Set 267-1)	
4-16 7-23 11-23	267-1)	
1-23 6-16	and Model 53-T1824—Set 201-7) • A-T2233, A-T2234 (Code 128) (Ch. 91, A, J-2) (See PCB 66—Set	
6-16 7-17 4-7	 A.12233, A.12234 (Code 128) (Ch. 91, A. J.2) (See PCB 66-Set 203.1, PCB 82-Set P23.1 and Model 53.11853-Set 185.10) A.72262HM (Code 123) (Ch. 81, H.1A) (See PCB 83-Set 224.1 and Model 53.11824-Set 201.21) 	
8-26	●A-T2262HM (Code 123) (Ch. 81, H-1, H-1A) (See PCB 83—Set	
8-25 5-12 6-19		
0-19	A-T2266, L. A-T2271HM (Code 128)	

201-7} ● A-T2256, L, A-T2271HM {Code 128} (Ch. 91A, J-2) [See PCB 66—Set 203-1, PCB 82—Set 223-1 and Model 53-T1853—Set 185-10)

 PHILCO-Cont.
 A.172772, L [Code 123] (Ch. 81, H-1, H-1A) (See PCB 83—Set 224-1 and Model 53-11824—Set 201-7)
 A.17272 (Code 129] (Ch. 81, D-81) (Also See PCB 115—Set 267-1)
 A.27274, W [Code 123] (Ch. 81, H-1, H-1A) (See PCB 83—Set 201-7)
 A.722745 (Code 128) (Ch. 91A, J-2) (See PCB 66—Set 203-1, PCB 82—Set 223-1 and Model 53-11833—Set 185-10)
 A.722755 (Code 129) (Ch. 81A, D-81) (Also See PCB 115—Set 267-1)
 A.722755 (Code 129) (Ch. 81A, D-81) (Also See PCB 115—Set 267-1)
 A.722755 (Code 129) (Ch. 81A, D-81) (Also See PCB 115—Set 267-1)
 A.722775 (Code 129) (Ch. 81A, D-81) (Also See PCB 135—Set 201-7)
 A.722775 (Code 128) (Ch. 91A, J-2) [See PCB 66—Set 203-1, PCB 82 —Set 223-1 and Model 53-T1824—Set 201-7)
 A.72275 (Code 128) (Ch. 81, H-1, H-1A) (See PCB 83—Set 224-1 and Model 53-T1824—Set 201-7)
 A.72278 (Code 123) (Ch. 81, H-1, H-1A) (See PCB 83—Set 224-1 and Model 53-T1824—Set 201-7)
 A.72280, A.72281 (Code 123) (Ch. 81, H-1, H-1, Al (See PCB 83—Set 224-1 and Model 53-T1824—Set 201-7)
 A.72284, HM (Code 123) (Ch. 81, H-1, H-1, H-1A) (See PCB 86 B3—Set 224-1 and Model 53-T1824—Set 201-7)
 A.72288, IMA (Code 123) (Ch. 81, H-1, H-1, H-1A) (See PCB 86 B3—Set 224-1 and Model 53-T1824—Set 201-7)
 A.72288, IMA (Code 123) (Ch. 81, H-1, H-1, H-1A) (See PCB 86 B3—Set 224-1 and Model 53-T1824—Set 201-7)
 A.72288, IMA (Code 123) (Ch. 81, H-1, H-1, H-1A) (See PCB 86 B3—Set 224-1 and Model 53-T1824—Set 201-7)
 A.72288, IMA (Code 123) (Ch. 81, H-1, H-1, H-1A) (See PCB 86 B3—Set 224-1 and Model 53-T1824—Set 201-7)
 A.72288, IMA (Code 123) (Ch. 81, H-1, H-1, H-1A) (See PCB 86 B3 201.7) A-T2288HMS, S, A-T2289 (Code 128) (Ch. 91A, J-2) (See PCB 66 —Set 203-1, PCB 82—Set 223-1 and Model 53-T1853—Set 185-10) 128) [Ch. VIA. J-2) (See PL8 60 —Set 2031, PC6 82–Set 223.1 and Model S3.71853—Set 185.10)
(A.12292, L (Code 128) [Ch. 94, A. J-3 and Kadia Ch. R1-10) [For TV Ch. Only See PC6 85–Set 213-51 and Model S3.72285—Set 213-51 and Kadia Ch. R1-10] [For TV Ch. Only See PC6 85–Set 213-51 and Kadia Ch. 81-103 [For TV Ch. Only See PC8 85–Set 213-51 and Kadia CF 85–Set 213-10 and Model S3–T1824—Set 203-1, PC6 820–Set 223-1 and Model S3– T1853—Set 185–10]
A.UT1858 (Code 128) (Ch. 91A, J-2) (See PC8 66—Set 203-1, PC6 83–Set 223-1 and Model S3-T1824—Set 201-7, for UHF Tuner See Model UT218—Set 223-9)
A.UT1858 (Code 128) (Ch. 91A, J-2) (See PC8 66—Set 203-1, PC6 82–Set 223-1 and Model S3-T1824—Set 201-7, for UHF Tuner See Model UT218—Set 183–Set 183-10]
A.UT230, A.UT2323 (Code 123) (Ch. 81, H-1, H-1, H-1A) (For TV Ch. See PC8 63—Set 224-1 and Model S3-T1824—Set 201-7, for UHF Tuner See Model UT218—Set 183-10]
A.UT233, A.UT2234, A.UT2266 (Code 128) (Ch. 91A, J-2) (See PC8 66=Set 203-1, PC8 82—Set 213-1 and Model S3-T1833—Set 185-10)
A.UT272 (Code 123) (Ch. 81, H-1, H-1A) (For TV Ch. See PC8 63–Set 203-1, PC8 82–Set 213-1 and Model S3-T1833—Set 185-10)

PHILCO-Cont.

- 223-1 and Model 53-11833-Set 183-10) A-UT2272 (Code 123) (Ch. 81, H-1, H-1A) (For TV Ch. see PCB 83-Set 224-1 and Model 53-11824-Set 201-7, for UHF Inner see Model UT21B-Set 223-9) A-UT2272 (Code 129) (Ch. 81A, D-81) (Also See PCB 115-Set 267-1) ...227-10 A-UT2274, W (Code 123) (Ch. 81, H-1, H-1A) (For TV Ch. see PCB 83-Set 224-1 and Model 53-T1824-Set 201-7, for UHF Inner see Model UT21B-Set 223-9) A-UT2277, A-UT2279 (Code 123) (Ch. 81, H-1, H-1A) (For TV Ch. See PCB 83-Set 224-1 ond Model 13-T1824-Set 201-7, for UHF Tuner See Model UT21B-Set 223-9) A-UT2280, A-UT2281 (Code 128) (Ch. 81, H-1) (Code 128) (Ch. 81, H-1) (Code 128) (Ch. 81, H-1, H-1A) (For TV Ch.

- Tuner See Model U1218—Set 223-9) A-UT2280, A-UT2281 (Code 128) (Ch. 91A, J-2) (See PCB 66—Set 203-1, PCB 82—Set 223-1 ond Model 53-11853—Set 185-10) A-UT2288 (Code 123) (Ch. 81, H-1, H-1A) (For TV Ch. see PCB 83— Set 224-1 ond Model 53-11824— Set 224-1 ond Model 53-11824— Set 224-1 ond Model 53-11824— Set 224-1 ond Model (Ch. 91A, J-2) (See PCB 66—Set 203-1, PCB 82—Set 223-1, ond Model 53-11853—Set 185-10) A-UT2289 (Code 128) (Ch. 91A, J-UT239 (Code 128) (Ch. 91A, J-2) (See PCB 66—Set 203-1, PCB 82—Set 223-1, ond Model 53-11853—Set 185-10)
- rcs sZ—set ZZ3-1, and Model 53:11853—Set 185:10) A.UT22921 (Code 128) (Ch. 94A, 1.5 and Rodio Ch. RT-10) [For TV Ch. Only See PC8 85—Set 226-1 and Model 53:12285—Set 213-5) 8559 (Code 121)228–13 8570 (Codes 122, 124)228–13 8570 (Codes 122, 124)227–12 8572 (Code 121) See Model 8570 —Set 228-13] 8572 (Code 121)227–12 8574 (Code 121)227–12 8574 (Code 121)227–12 8574 (Code 121) See Model 8570 8649 (See Model 850-Set 226–5) 8651 (See Model 52:640—Set 153; 12)

- Boba (See Model 33-050-3et 10/-10)
 223-8

 B711 (Code 121) (See Model B710
 -Set 223-8)

 B712 (Code 121) (See Model 510-5714 (Code 121, 123)
 .229-10

 B714 (Code 121, 123)
 .229-10

 Ser 202-3)

 D-5407 (See Mopar Model 820— Set 202-3)

 Set 202-3)

 P-4335 (See Packard Model PA-182042—Set 20-26)

 P-4355 (See Packard Model PA-393607—Set 57-15)

 P-5106 (See Mopar Model 819— Set 202-3)

 P-5206 (See Mopar Model 812—Set 139-8)

 P-5206 (See Mopar Model 812—Set 284-10)

 D-4705 (See Mopar Model 812—Set 284-10)

 D-4708 (See Mopar Model 803— Set 262-3)

 Set 462-1 (See Studeboker Model Ac2113—Set 12-32)

 Set 462-5 (See Studeboker Model Ac2113—Set 19-32)

 S-5123 (See Studeboker Model AC-2301—Set 12-81)

 S-5323 (See Studeboker Model AC-2301—Set 12-81)

 S-5323 (See Studeboker Model AC-2300—Set 229-14)

 S-5324 (See Studeboker Model AC-2300—Set 229-14)

 S-5528 (See Studeboker Model AC-2300—Set 229-14)

 UR6-500 112—Set 230

 UR6-500 112—Set 230

 UR6-500 112—Set 230

 S-5528 (See 220-11)</

Denotes Television Receiver.

NOTE: PCB Denotes Production Change Bulletin.

PHILCO

PHILCO-Cont.

- PHILCO-CONT.
 PIBLCO-CONT.
 PIBLCO-CONT.
 PIBLCO-CONT.
 PIBLCO-CONT.
 PIBLIGO Code 140) Ch. R.191, D-191] (See PCB 111-Set 260-1
 PIBLIGO (Code 130) (Ch. R.181U, D-181) (Also see PCB 115-Set 267-1)
 PIBLIGO (Code 130) (Ch. R.181U, D-181) (Also See PCB 115-Set 267-1)
 PIBLIGO (Code 130) (Ch. R.181U, D-181) (Also See PCB 115-Set 267-1)
 PIBLIGO (Code 130) (Ch. R.191, D-181) (Also See PCB 115-Set 267-1)
 PIBLIGO (Code 130) (Ch. R.191, D-191) (Also See PCB 110-Set 267-1)
 PIBLIGO (Code 130) (Ch. R.191, D-191) (Also See PCB 110-Set 267-1)
 PIBLIGO (Code 130) (Ch. R.191, D-191) (Also See PCB 111-Set 267-1 and Model 138U3100-Set 237-10)
 PIBLIGO (Code 140) (Ch. R.191, D-191) (See PCB 111-Set 267-10)
 PIBLIGO (Code 140) (Ch. R.192U, D-191) (See PCB 111-Set 260-1)
 PIBLIGO (Code 140) (Ch. R.192U, D-191) (See PCB 111-Set 260-1)
 PIBLIGO (Code 130) (Ch. R.181, D-181) (See PCB 111-Set 260-1)
 PIBLIGO (Code 130) (Ch. R.211, D-191) (See PCB 111-Set 260-1)
 PIBLIGO (Code 130) (Ch. R.181, D-181) (See PCB 115-Set 267-1)
 PIBLIGO (Code 130) (Ch. R.181, D-181) (See PCB 115-Set 267-1)
 PIBLIGO (Code 130) (Ch. R.181, D-181) (See PCB 115-Set 267-1)
 PIBLIGO (Code 140) (Ch. R.191, D-191) (See PCB 115-Set 260-1)
 PIBLIGO (Code 140) (Ch. R.191, D-191) (See PCB 115-Set 260-1)
 PIBLIGO (Code 140) (Ch. R.191, D-191) (See PCB 115-Set 260-1)
 PIBLIGO (Code 140) (Ch. R.191, D-191) (See PCB 115-Set 260-1)
 PIBLIGO (Code 140) (Ch. R.191, D-191) (Also see PCB 115-Set 260-1)
 PIBLIGO (Code 140) (Ch. R.191, D-191) (See PCB 115-Set 260-1)
 PIBLIGO (Code 140) (Ch. R.191, D-191) (See PCB 115-Set 261-1]
 PIBLIGO (Code 130) (Ch. R.191, D-191) (Also see PCB 115-Set 267-1)
 PIBLIGO (Code 130) (Ch. R

- ana model 2284000-Set 227-10) #2284004 (Code 140) (Ch. R-191, D-191) (Aiso see PCB 111-Set 2284005, L (Code 140) (Ch. R-191, D-191) (See Model 1883002-Set 231-12) #2284007, L (Code 140) (Ch. R-191, D-191) (See Model 1883002-Set 231-12) #2284007, L (Code 140) (Ch. R-191, D-191) (See Model 1883002-Set 231-12)

- D. 2010
 Chi, R. 201,

 2284109HM (Code 140) (Ch, R-191,
 241–11

 D.1911 (Also see PCB 111—Set 260-1]
 231–12

 20284110, L (Code 150) (Ch, R-201,
 231–12

 D-2011 (See Model 1803002—Set 231-12)
 231–12

 2284150, L (Code 140) (Ch, R-191,
 231–12

 2284150, L (Code 140) (Ch, R-191,
 231–12

- D.191) [See Model 1883002—Set 231-12] *2284150 [Code 140] (Ch. R-191, D.191) [Also see PCB.111—Set 260-1] *2284150 [Code 140] (Ch. R-191, D.191) [See PCB 111—Set 260-1 and Model 2284150-set 231-12] *2284301 [Code 130] (Ch. R-181, D.181] (Also See PCB 115—Set 267-1] *2284302 [Code 140] (Ch. R-191, D.181] (Also See PCB 115—Set 260-1] *2284304 [Code 140] (Ch. R-191, D.181] (Also See PCB 115—Set 260-1] *2284304 [Code 140] [Ch. R-191, D.181] (Also See PCB 115—Set 260-1] *2284304 [Code 140] [Ch. R-191, D.191] (Also See PCB 115—Set 260-1] *2284304 [Code 140] [Ch. R-191, D.191] (Also See PCB 115—Set 260-1] *2284304 [Code 140] [Ch. R-191, D.191] (Also See PCB 115—Set 260-1]

106

- - NOTE: PCB Denotes Production Change Bulletin, Production Change Bulletin, Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

BHILCO_Cont

- PHILCO-Cont.

 •228U4000 (Code 130) (Ch. R-181U, D-181) (Alio See PCB 115-Set 267-1)

 •227-10

 •228U4000X, XD (Code 130) (Ch. R-181U, D-181) (See PCB 115-Set 267-1 and Model 2284000-Set 227-10)

 •228U4001, E, L (Code 130) (Ch. R-181U, D-181) (See PCB 115-Set 207-1 and Model 2284000-Set 207-1 and Model 2284000-Set 207-1 and Model 2284000-Set 227-10)

 •228U4002, L (Code 140) (Ch. R-191U, D-191) (Alio see PCB 111-Set 200-1 and Model 2284000-Set 231-12)

 •228U4003 (Code 140) (Ch. R-192U, D-191) (See PCB 111-Set 200-1 and Model 2284000-Set 231-12)

 •228U4003 (Code 130) (Ch. R-181U, D-181) (See PCB 115-Set 267-1 and Model 2284000-Set 227-10)

 •228U4004 (Code 140) (Ch. R-192U, D-181) (See PCB 115-Set 267-1 and Model 2284000-Set 227-10)

 •228U4001 (Code 140) (Ch. R-192U, D-181) (See PCB 115-Set 267-1 and Model 2284000-Set 227-10)

 •228U4003 (Code 140) (Ch. R-192U, D-191) (See PCB 115-Set 267-1 and Model 22800-Set 227-10)

 •228U4004 (Code 140) (Ch. R-192U, D-191) (See PCB 115-Set 267-1 and Model 228U4004-Set 231-12)

 •228U4005, 228U4004-Set 231-12)

 •228U4006, 228U4004-Set 231-12)

46-350 46-420, 46-201-1 46-421, 46-421-1 46-427

46-427 46-426 46-1201 (Revised) 46-1201 (Revised) 46-1203 46-1204 (Revised) 46-1213 46-1224 47-1227 47-1227 47-1227 47-1227 47-1227 47-1230 48-141, 48-145 48-150 48-120, 48-200-1 48-200, 48-200-1 48-200, 48-200-1 48-200, 48-200-1 48-200, 48-200-1 48-200, 48-200-1 48-200, 48-200-1 48-200, 48-200-1 48-200, 48-200-1 48-200, 48-200-1 48-200, 48-200-1 48-401, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-472, 48-472-1 48-492, 48-4

48-475 48-482 48-485 48-475 40-14 48-482 30-24 48-485 47-19 48-700 68-13 48-1000, 48-1000-5 (Code 122) 53-17 448-1001, 48-1001-5 (Code 122)

• 48-1001, 48-1001-5 [Code 12]

 48:1001, 48:1001-5 [Code 12] and 122]

 • 48:1001-5 [Code 12] and 122]

 • 48:1050-5 [Code 12] and 122]

 • 48:1050-5 [Code 12] and 9-20

 48:1200

 9:300

 48:1201

 48:1200

 1-23

 48:1200

 31-23

 48:1260

 31-23

 48:1260

 32-18

 8:1264

 32-18

 8:1264

 32-18

 8:1264

 32-18

 8:1264

 32-18

 8:1264

 32-18

 8:1270

 41-17

 8:1282

 35-181

 35-181

 35-181

 48:1284

 48:284

 51-15

 8:1284

 48:286

 31-17

 48:286

 31-18

 48:286

 35-181

 48:286

 31-224

 48:286

 41-718

 48.1286
 51-13

 48.1280
 47-18

 48.1290
 47-18

 48.1200
 47-18

 48.1200
 47-18

 49.500.48-2500.5 (Codes 121 and
 87-10

 49.500
 47-501

 49.500
 47-501

 49.500
 47-501

 49.500
 48-19

 49.501
 48-19

 49.505
 53-18

 49.506
 48-19

 49.506
 48-19

 49.601
 42-21

 49.602
 41-18

 49.603
 59-15

 49.603
 59-15

 49.601
 42-21

 49.602
 41-18

 49.901
 56-19

 49.901
 56-19

 49.902
 51-16

 49.903
 52-16

 49.904
 58-16

 49.905
 52-16

 49.906
 52-71

 49.1002 (Code 121)
 91A-10

 49.1002 (Code 121)
 91A-10

49-905 52-16 49-906 57-16 49-909 97-914 49-1020 (Code 121) 91A-10 49-1040 (Code 121) 91A-10 49-1040 (Code 123) 92-5 49-1075 (Code 121 and 122) 49-1075 (Code 122) 93A-11 49-1076 (Code 122) 93A-11 49-1076 (Code 122) 93A-11 49-1076 (Code 122) 93A-1077 (Code 122) 92-5 49-1100 47-19

www.americanradiohistory.com

10-24 6-22 5-12

2-12 2-25 19-25 4-35 29-21 6-23 13-24

12-33

33-18

25-22 22-23 34-16 33-19 37-16 33-19 37-15 32-17 38-14 34-17 38-15 26-20 43-15 26-20 43-15

PHILCO-Cont.

•51-T1836 (Code 125 (Ch. 33, C 148-1

 S1-T1836
 (Code
 124
 148-13

 S1-T1838
 (Code
 124)
 (A. 382, 135-10
 135-10

 S1-T1870
 (Code
 121)
 (A. 397, 135-10
 135-10

 S1-T1870
 (Code
 121)
 (A. 397, 135-10
 135-10

 S1-T1871
 (Code
 121)
 (A. 397, 135-10
 135-10

51-11371 (Code 122) (Ch. 315-10
 51-11372 (Code 121) (Ch. 3P1, CP1 and Radio Ch. RT-4)...135-10
 51-11372 (Code 121) (Ch. 3P1, CP1 and Radio Ch. RT-4)...135-10
 51-11374 (Code 121) (Ch. 3P1, CP1 and Radio Ch. RT-4)...135-10
 51-11375 (Code 121) (Ch. 3P1, CP1 and Radio Ch. RT-4)...135-10
 51-11375 (Code 121) (Ch. 3P1, CP1 and Radio Ch. RT-4)...135-10
 51-11376 (Code 121) (Ch. 3P1, CP1 and Radio Ch. RT-4)...135-10
 51-11376 (Code 121) (Ch. 3P1, CP1 and Radio Ch. RT-4)...135-10
 51-12102 (Code 121) (Ch. 3F, CP1 and Radio Ch. RT-4)...135-10
 51-12102 (Code 121) (Ch. 3S, F2) 31-2130 (Code 121) (Ch. 3S, F2) 31-2132 (Code 121) (Ch. 3S, F2)

•51-T2130 (Code 121) (Ch. 35, F2) •51-T2132 (Code 121) (Ch. 35, F2) 132-10

• 51-12138 (Code 124) (Ch. 3R2, F .132-.132-.132-

51-530 51-532 51-534 51-537, 51-5371 51-637 51-631 51-632 51-930, 51-931, 51-932 51-930, 51-931, 51-932 51-930, 51-933 51-733, 51-1733 51-1733, 51-1733 51-1733, 51-1733 51-7733, 51-1733 51-7733, 51-7733 51-7733, 51-7733 51-7733, 51-7733 51-7733, 51-7733 51-7733, 51-7733 51-7733 51-7733 51-7733 51-7733 51-7733 51-7733 51-7733 51-7733 51-7733 51-7733 51-7733 51-7733 51-775 51-775

S1-1733, S1-1732 51-1733, S1-1733 (L), S1-1734 52-T1610 (Code 122) (Ch. 32, C1) [See Model 51-T1601, Code 122 —Set 138-7] 52-T1612 (Code 122) (Ch. 32, C1) [See Model 51-T1800—Set 148-13] 52-T1802 (Code 123) (Ch. 37, C2) [See Model 51-T1800—Set 148-13] 52-T1802 (Code 124) (Ch. 71, C1) (Ato see PCB 57 — Set 191-1) [Ato see PCB 57 — Set 191-1] (Ato see PCB 57 — Set 191-1] (Ato see PCB 57 — Set 191-1] (See Model 51-T1800—Set 148-52-T1802 (Code 123) (Ch. 37, C2) [See Model 51-T1800—Set 148-52-T1804 (Code 123) (Ch. 37, C2) [See Model 51-T1800—Set 148-13] 52-T1808 (Code 121) (Ch. 41, D1, D1A) [See PCB 56- Set 190-1 ond Model 52-T2106—Set 171-9] (See Model 51-T1800—Set 148-13] 52-T18101, M (Code 122) (Ch. 33, C2) [See Model 51-T1800—Set 148-13] 52-T18101, M (Code 122) (Ch. 33, C2) [Ch. 33, C2] (Cade 122) (Ch. 33, C2) [Ch. 33, C2] [See Model 52-T2106—Set 148-13] 52-T18104, M (Code 122) (Ch. 33, C2) [See Model 51-T1800—Set 148-13] 52-T18104, M (Code 122) (Ch. 33, C2) [See Model 51-T1800—Set 148-13] 52-T18104, M (Code 122) (Ch. 33, C2) [See Model 51-T1800—Set 148-13] 52-T18104, M (Code 122) (Ch. 33, C2) [See Model 51-T1800—Set 148-[See Model 51-T1800] [See Model 51-T1800—Set 148-[See Model 51-T1800] [See Mode

52.71810L, M (Code 122) (Ch. 37, 21810M, (Code 122) (Ch. 33, 22.71813 (Code 122) (Ch. 33, 22.71812 (Code 122) (Ch. 33, C2)
52.71812 (Code 122) (Ch. 33, C2)
52.71812 (Code 122) (Ch. 37, C2)
52.71812 (Code 122) (Ch. 41, D1, D1A) (See PCB 56-Set 170-1 and Model 52-72106-Set 171-9)
52.71822 (Code 122) (Ch. 41, D1, Ch. 41, C

(See Model 51-T1800—Set 148-13) 52-T1840 (Code 121) (Ch. 41, D1, D1A) (See PCB 56—Set 190-1 and Model 52-T2106—Set 190-1 (Ch. 33, C2) 52-T1840 (Code 123) (Ch. 37, C2) 52-T1841 (Code 123) (Ch. 37, C2) 52-T1841 (Code 121) (Ch. 41, D1, D1A) (See PCB 56—Set 190-1 and Model 52-T2106—Set 171-9) 52-T1841 (Code 121) (Ch. 41, D1, D1A) (See PCB 56—Set 190-1 and Model 52-T2106—Set 190-1 and

•52-11842 (Code 123) (Ch. 37, C2) 148-13

Denotes Television Receiver.

140-8

1734 51-1

C21

 54-24)
 54-24

 49:1405
 54-24

 49:41450 (Codes 121A or B, 123A or B, 123T A, B)
 77-8

 40:1475 (Codes 121A, B, 123A, B, 123A, B, 123T A, B)
 77-8

 40:1480 (Code 121A, B, 123A, B, 123A, B, 123T A, B)
 77-8

 40:1400 (Code 121A, B, 123A, B, 123A, B, 123T A, B)
 77-8

 1237 A. B).
 77-8

 1237 A. B.
 50-13

 1237 A. B.
 50-13

 1207 A. B. Color
 50-13

 1207 A. B. Color
 50-13

 1207 A. B. Color
 53-18

 1207 A. Color
 53-18

 1207 A. Color
 53-19

 1208 A. A. Color
 53-19

 1209 A. A. Color
 53-19

 1201 A. Code 121, 50-1702 (Code
 121, 50-1702 (Code

 121 (Code 121), 50-1702 (Code
 121, 50-1702 (Code

 122 (Code 121), Color 120, S0-11402
 50-11402 (Code 121, 50-11402

 (Code 121) (Alto see PCB 20 50-11403 (Code 122), 50-11404

 121 (See PCB 20-Set 154-1 and
 Model 50-11104-Set 114-9

 50-11403 (Code 121, Code 122), 50-11404
 50-11404 (Code 121, 60-1404, 50-11404

 50-11403 (Code 121, Code 122), 50-11404
 50-11404 (Code 121, 60-1122)

 900 (Code 121, Code 122), 50-11404
 50-11404 (Code 121, 60-1122)

 900 (Code 121, Code 122), 50-11404
 50-11404

 50-11404 (Code 121

50-11483
 73A-12
 50-11484
 73A-12
 50-11484
 73A-10
 50-11600
 (Code 121)...91A-10
 50-11600
 (Code 121)...91A-10
 50-11600
 (Code 121)...91A-10
 50-11600
 (Code 121)
 (See Model
 50-11630
 73A-10
 50-11632
 50-11633
 73A-10
 50-11632
 50-11633
 73A-10
 50-51632
 73A-10
 50-51632
 73A-10
 73A-10

 50-520, 50-520.1
 73-9

 50-522, 50-522.1, 50-524.
 78-11

 50-522, 50-527.1
 96-8

 50-527, 50-527.1
 80-11

 50-527, 50-527.1
 85-11

Set 91A-10, for RF Ch. see Model 50.T1000 [Code 122]—Set 110-10] 51.T1007 [Code 121] [Ch. 33, C1] 138—7 51.T1007 [Code 122] [Ch. 32, C1] 138—7 51.T1034 [Code 122] [Ch. 32, C1] [See PCB 20 — Set 134-1 and Model 50.T1000—Set 110-10] 51.T1634 [Code 122] [Ch. 8, J] [See PCB 20 — Set 134-1 and Model 50.T1600—Set 110-10] 51.T1634 [Code 123] [Ch. 33, C1] 138—7 51.T1634 [Code 124] [Ch. 33, C1] 138—7 51.T1634 [Code 124] [Ch. 32, C1] 138—7 51.T1800 [Code 124] [Ch. 32, C2] 148—13 51.T1830 [Code 121] [Ch. 33, C2] 148—13 51.T1832 [Code 121] [Ch. 33, C2] 148—13 51.T1833 [Code 121] [Ch. 33, C2] 148—13 51.T1833 [Code 121] [Ch. 33, C2] 51.T1833 [Code 121] [Ch. 33, C1] 51.T1833 [Code 121] [Ch. 35, C1] 51.T1833 [Code 121] [Ch. 35, C1] 51.T1833 [Code 121] [Ch. 35, C1] 51.T1834 [Code 121] [Ch. 35, C1] 51.T1844 [Code 121] [Ch. 35, C

PHILCO_Cont.

- 22004004 [Code 141] (Ch. K-1720, D-191) [See PCB 111—Set 260-1 and Model 22804004—Set 231-12]
 22804008, 22804004 (Code 150) (Ch. R-201, D-201) ... 241-11
 22804000 (Code 130) (Ch. R.181U, D-181) (Alto See PCB 115—Set 267-1) ... 227-10
 22804100A (Code 130) (Ch. R. 181U, D-181) (Alto See PCB 115—Set 267-1) ... 227-10
 22804100A (Code 130) (Ch. R. 181U, D-181) (Alto See PCB 115—Set 227-10)
 22804100A (Code 130) (Ch. R. 181U, D-181) (Alto See PCB 115—Set 227-10]
 22804100A (Code 130) (Ch. R. 181U, D-181) (Alto See PCB 115—Set 277-10]
 22804100A (Code 129) (Ch. R-818, D-81) (Alto See PCB 115—Set 277-10]
 22804101 (Code 129) (Ch. R-1810, D-191) (Alto see PCB 115—Set 267-1) ... 227-10
 22804102, L (Code 140) (Ch. R-1810, D-191) (Alto see PCB 111—Set 260-1) ... 227-10
 22804102, L (Code 140) (Ch. R-1910, D-191) (See PCB 111—Set 260-1) ... 227-10
 22804103, L (Code 130) (Ch. R-1810, D-191) (See PCB 111—Set 277-10]
 22804103, L (Code 130) (Ch. R-1810, D-191) (See PCB 115—Set 277-10]
 22804106, L (Code 130) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804105, L (Code 130) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804105, L (Code 130) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804106 (Code 140) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804106 (Code 140) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804106 (Code 140) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804106 (Code 140) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804106 (Code 140) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804106 (Code 140) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804106 (Code 140) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804106 (Code 140) (Ch. R-1910, D-191) (See PCB 115—Set 277-10]
 22804106 (Code 140)

- unu moter 2204304—Set 231-12) 22804303 (Code 130) (Ch. R-1810, D-181) (Alio See PCB 115—Set 227-10 22804304 (Code 140) (Ch. R-1910, D-191) (Alio see PCB 111—Set 260-11 0-191) (See PCB 111—Set 260-11 D-191) (See PCB 111—Set 260-11 D-191) (See PCB 111—Set 260-12 D-191) (See PCB 111—Set 260-12 D-191) (See PCB 111—Set 260-12 D-190) (See PCB 111—Set 260-12 D-190) (See PCB 110—Set 260-12 D-190) (See PCB 110—

- d) Model 228U4304-Set 231
 228U4306, L (Code 140) (Ch. R+101) (J. 191) (J. 19

22C4011 (Ch. 300, 301) ...276—7
 22C4012 (Code 130) (Ch. R-181, D-181) (See PCB 115—Set 267-1 and Model 22B4000—Set 227-10)

and Model 2254000—Set 227-10)
 22C4012 (Code 131) (Ch. R-181, D-182) (See PCB 115—Set 267-1 and Model 2284000—Set 227-10)

PHILCO-RCA VICTOR

	PHILCO-RCA VICTOR
88	PILOT-Cont. AA-904
7	AA-904 276—8 AF-605 172—7 AF-723, U 222–10 AF-821A, U 194–10 AF-824 220—6 AF 826 278—9
7 7	AF-821A, U
8 34-1	A
34-1	FM.607 .275-12 FM607A [See Model FM607—Set 275-12] PA.911 .199—8 PA.912 .223-10 T-411-U .15-25 T-500 Series .12-23 1510 .524
34-1	PA-912
Also	T-411-U 13-23 T-500 Series 12-23 T510, T511 5-24 T-521 19-27 T-530 Series 12-24 T-601 "Pilotuner" 28-26 T-741 37-18
see	T-521
	T-601 'Pilotuner' 28-26 T-741 37-18 TV-37 62-16
-11 -10 -10	• TV-270, TV-271, TV-271-U, TV-273,
-10	1.√41
1-5	See Model AF-605-Set 172-7) • TV-275 (See Model TV-270 - Set
-11 -10	153-13) • TV-290
10	
-10 -10	•TV-293U
1-13	See Model AF-605-Set 172-7) • TV-295 (See Model TV-270-Set
-13 -13 -10	153-13)
-10 -10 -13	PLYMOUTH (See Mopar) PLYMOUTH (Interstate Stores)
	1010
9 10	POLICALARM
57- -9 -11 -Set	PR-8
	PONTIAC
PCB	984170
-10 -Set	984170 20-27 984171 14-22 984296, 984570 95-4 984592 165-8 984688 (See Model 984592 — Set 165-8)
-Set and	984817
-5	984961
-Set	Porto Products)
6) 6) 0)	PA-510 (9008-A), PB-520 (9008-B) 33-16 PA-510, PB-520 (Revised) 48-21
	PORTO PRODUCTS
73-	SR-600 (Ch. 9040A ''Smokerette'') (See Porto Baradio Model PA-510 —Set 33-16)
73. 73.	
73.	PREMIER 15LW 6-24
73.	PURE OIL (See Puritan)
-16	PURITAN 501 (Ch. 5D15WG), 502 (Ch. 5D- 25WG) 4-5
-20	25WG) 4-5 501X (Ch. 5D15WG), 502X (Ch. 5D25WG) 4-26
10	5025WG 4-20
-17 824 -10	503 10-25 503W (See Model 503—Set 10-25) 504 (Ch. 6A35WG) 504—Set 5-39) 504W (See Model 504—Set 5-39) 506 (6D15SW), 501 (6D25SW) 3-10
520	
4	506X, 507X (See Model 506—Set 3-10) 508 (Code 7A35SW) 4-31
9 -10)	509
-9	RADIO APPARATUS CORP.
-9	(See Policalarm & Monitoradio) RCA VICTOR (Also see
-9	
9 10 10	A-33 (Ch. RC-1087)107-10 A-82 (Ch. RC-1094)137-10 A-101 (Ch. RC1096) (See Model A-
-27	108—Set 141-10) A-106 (Ch. RC622) 97-12
-10	A-108 (Ch. RC1096)141-10 •B1-A, B1-B, B1-C (Ch. KCS24-1, KCS24-1, KCS24-1,
-27 -10 520	TV (Ch. only see Model 8PCS41- Set 90-9)
-4	Changer and Recorder Listing) A-55 (ch. RC-1087)109-10 A-82 (ch. RC-1094)137-10 A-101 (ch. RC1096) (See Model A- 106 (ch. RC602)
520	TV Ch. only see Model 8PCS41- Set 90-9)
-4	BX6 (Ch. RC1098)
	1088A)
714	HF-2-STD (Ch. RS-146 or RS-146X) (See Model 3HES5—Set 251-14)
-20	(See Model 3HES5—Set 251-14) MI-12224 MI-12224A 81-12
-11	B2-C, B2-F, B2-H (Ch. KCS24-1, KKS20-1, KKS21-1, KKK1-1) (For TV Ch. only see Model BPCS41— Set 90-9) B-411 (Ch. RC1098) 132-12 BX6 (Ch. RC1098) 103-13 BX55 (Ch. RC1098), BX57 (Ch. RC- 1088A)
-17	- A, MI-12239, - À, MI-12239, - A
-11	MI-12297, MI-12292, MI-12293, MI-12294, MI-12292, MI-12293, MI-12294, MI-12294, MI-12293,
8	MI-12295 MI-12296, MI-12298 89-12 80-12
9 _11 _12	MI-12299 89–12 MI-13159 10–26
-12	MI-12294 86-8 MI-12295 89-12 MI-12296, 89-12 MI-12299, 89-12 MI-13159 80-12 MI-13157 10-26 MI-13167 36-19 PK600 (Ch. RC1110) 168-12 21 S1000 (Ch. RC531-1, RC6178)
-11	S1000 (Ch. KCS31-1, RC6178)
9 8	61-17 S1000 (Ch. KCS31-1, RC6178) 91A-11 SP-10 (MI-12190)
-11	ST-1 (MI-12107)

 PHILCO-Cont.

 53-956
 218

 53-956
 200

 53-956
 203

 53-956
 203

 53-950
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 203

 53-1750
 20-51

 53-170
 20-51

 53-170
 20-51

 53-170
 20-51

 55-170
 20-51

 55-170
 20-51

 55-170
 20-51

 55-170
 20-51

 55-170
 20-51

 55-170
 PHILHARMONIC •20CD28 (See Model 520-Set 1 10) • 20C2B (See Model 520—Set 1 • 20T2B (See Model 520-Set 1 10) •21CD2A (See Model 520—Set 1 • 54CL021, 54CM21, 54TW21 286 100C 38 100C 38 100T 37 112 (See Model 520-
 101
 149C, 249-C
 55-349-C
 58-349-C
 58-349-C
 58-349-C
 173-349-C
 173-34 160 160 160 173 173
 3800
 5820

 6120
 6810 (Ch. RR14)

 7120, 7820
 1

 8120
 1

 8701, 8702, 8703, 8710, 8712 (Ch. RR14)
 1
 PHILMORE • CP-731D PHONOLA PHONOLA K-92, K-104 K-105 K-202, K-263 TK-134 TK-134 TK-234 TK-234 TK-234 TK2146, -2 TK2149 79 55 83 158 158 159 259

PILOT AA-410 AA-420 AA-901 AA-902 AA-903

PHILCO-Cont.

5) 53-559 53-560 53-561, 53-563 53-564 53-566
 33-556
 189-11

 53-651
 [See Model 52-640-Set

 153-12)
 53-652

 53-652
 [Code 121]

 53-652
 [Code 121]

 53-656
 53-658

 53-700, 53-700, 53-701, 53

 701-1
 192-6
 {See Model 52-640-Set 701-1 53-702 53-706, 53-707 53-800 53-804 53-950 53-955 53-954 202-5 202-5 210-4 210-4 200—6 200—6 200—6

PHILCO-Cont.

 1, 52-542-1
 153-10

 52-544, 52-544-1;
 52-644

 52-640, 52-641, 52-544-1;
 153-10

 52-640, 52-641, 52-642.
 153-10

 52-640, 52-641, 52-642.
 156-9

 52-640, 52-641, 52-642.
 156-9

 52-640, 52-641, 52-642.
 156-9

 52-640, 52-641, 52-642.
 156-9

 52-640, 52-641, 52-642.
 156-9

 52-641, 52-642.
 156-9

 52-71824 (Code 121) (Ch. 81, H-1, H-1, Also tee PCB 83 — Set 191-1)

 (Also tee PCB 57-Set 191-1)

 (Also tee PCB 33 — Set 191-1)

 H-1A) (Alo tee PCB 33 — Set 222-1)

NOTE: PCB Denotes Production Change Bulletin. Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-250 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

www.americanradiohistory.com

Denotes Television Receiver.

275 280 199

PHILCO-Cont.

PHILCO-Cont.

• 52-T1842L (Code 124) (Ch. 33, C2) (See Model 52-T1842—Set 148-

 See
 Mathematical Section

 13)
 52-11844 (Code 121) (Ch. 41-D1, DA1) (See PCB 56—Set 190-1 and Model 52-12106—Set 171-9)

 52-11844 (Code 122) (Ch. 33, C2)
 148-13

 52-11844 (Code 123) (Ch. 37, C2)
 148-13

 52-11844 (Code 123) (Ch. 37, C2)
 148-13

•52-T1844 (Code 124) (Ch. 33, C2) 148-13

 PHILCO-LORY.

 • 53.T1825 (Code 124) (Ch. 71, G1)

 (Also see PCB 57—Set 191.1)

 H-1A) (Also see PCB 83—Set 224.1)

 • 53.T1826 (Code 123) (Ch. 81, H-1, 179—9

 • 53.T1826 (Code 124) (Ch. 71, G1)

 Also see PCB 57—Set 191.1)

 1

 • 179—9

 • 53.T1826 (Code 124) (Ch. 71, G1)

 Also see PCB 57—Set 191.1

 • 179—9

 • 53.T1827, -F, -HM (Code 128) (Ch. 91, 1.2) (See PCB 66—Set 203.1, and Model 53.T1853—Set 185.C01 81, H-1, 178.82—Set 126.10 Model 53.11852 (Code 123) (Ch. 81, H-1, 24.4) (Also see PCB 33—Set 120.1 and Model 52.11852 (Code 123) (Ch. 81, H-1, 14.4) (Also see PCB 33—Set 120.1 and Model 52.11852 (Code 123) (Ch. 81, H-1, H-1A) (Also see PCB 33—Set 120.1 and Model 52.118521 (Code 123) (Ch. 81, H-1, H-1A) (Also see PCB 83—Set 120.1 and Model 52.118521 (Code 123) (Ch. 81, H-1, H-1A) (Also see PCB 83—Set 120.1 and Model 52.118521 (Code 123) (Ch. 81, H-1, H-1A) (Also see PCB 83—Set 120.1 and Model 52.118521 (Code 123) (Ch. 81, H-1, H-1A) (Also see PCB 83—Set 120.1 and Model 52.118521 (Code 123) (Ch. 81, H-1, H-1A) (Also see PCB 83—Set 120.1 and Model 53.11853, L (Code 124) (Ch. 71, G-1) (See PCB 56—Set 203.1, PCB 82—Set 223.1 and Model 53.11853.1 (Code 124) (Ch. 71, G-1) (See PCB 56—Set 203.1, PCB 83—Set 224.1)

 • 53.11853 (Code 123) (Ch. 81, H-1, H-1A) (Also see PCB 83—Set 203.1, PCB 83—Set 224.1)

 • 19 (Also see PCB 63—Set 203.1, PCB 83—Set 224.1)

 • 19 (See PCB 66—Set 203.1, PCB 83—Set 224.1)

 • 19 (See PCB 66—Set 203.1, PCB 83—Set 224.1)

S3-12255 [Code 133] (Ch. 8, H1]
 S3-12260 [Code 133] (Ch. 8, H1,
 H-1A] (Also tee PCB 83 — Set
 224-1)
 S3-12260 [Code 123] (Ch. 81, H-1,
 H-1A] (Also tee PCB 83—Set
 224-1)
 S3-12262 [Code 123] (Ch. 81, H-1,
 H-1A] (Also tee PCB 83—Set
 224-1)
 S3-12262 [Code 123] (Ch. 81, H-1,
 H-1A] (Also tee PCB 83—Set
 224-1)
 S3-12264 [Code 123] (Ch. 81, H-1,
 H-1A] (Also tee PCB 83—Set
 224-1)
 S3-12264 [Code 123] (Ch. 81, H-1,
 H-1A] (Also tee PCB 83—Set
 224-1)
 S3-12264 [Code 123] (Ch. 81, H-1,
 H-1A] (Also tee PCB 83—Set
 224-1)
 S3-12264 [Code 123] (Ch. 81, H-1,
 H-1A]

■ 14/ 224-1) ● 53-T2264 (Code 125) (Ch. 42, G2) 186-10

224-1] 53.72264 (Code 125) (Ch. 42, G2) 53.72264, [(Code 126) (Ch. 91, J-1) (Also see PCB 66—Set 203.1) 53.72266, [(Code 128) (Ch. 91, J-2) (See PCB 66—Set 203.1, PCB 82.—Set 123.1 and Model 53. 71853—Set 185-10) 53.72268 (Code 126) (Ch. 91, J1) (Also see PCB 66—Set 203.1, PCB 53.72269 (Code 126) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 53.72269 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 53.72269 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 53.72269 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 53.72270 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 53.72270 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 53.72270 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 53.72270 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 53.72271 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 1853-100 53.72271 (Code 126) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 1853-100 4353tee PCB 66—Set 203.1) 53.72271 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 1853-100 53.72271 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 1853-100 53.72271 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 1853-100 53.72271 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 1853-100 53.72271 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 1853-100 53.72271 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 1853-100 53.72271 (Code 128) (Ch. 91, J1) (Also see PCB 66—Set 203.1) 1853-100

RCA VICTOR

 RCA
 VICTOR-Cont.

 SVP-10
 (M1-12189)
 255-11

 SV-1
 (M1-12180)
 257-13

 SVT-1
 273-10
 217-11

 OT100
 (Ch. KCS-38)
 93-9

 OT120
 (Ch. KCS-38)
 93-9

 OT120
 (Ch. KCS-38)
 109-11

 OT14
 (Ch. KCS-34)
 109-11

 OT14
 (Ch. KCS-34)
 109-11

 OT14
 (Ch. KCS-34)
 109-11

 OT-128
 (Ch. KCS-34)
 109-11

 OT-139
 (Ch. KCS-34)
 109-11

 OT-139
 (Ch. KCS-34)
 109-10

 OTA-129
 (Ch. KCS-34)
 100

 OTA-139
 (Ch. KCS-34)
 100

 OTA-139
 (Ch. KCS-34)
 RCA VICTOR-Cont. SVP-10 (M1-12198) SV-1 (M1-12150) SVT-1

● TC165, TC166, TC167, (LR, KC3366) ● TC165, TC166, TC167, TC168 (Ch. KC5406, 100-11 UIA (Ch. KRK-19) Tel. UHF Conv. 190-12 UIB (Ch. KRK-19A) Tel. UHF Conv. 190-12 U2 (Ch. KC570) Tel. UHF Conv. 191-16 U70 (Ch. KC570) Tel. UHF Conv. 192-7 U70 (Ch. KC570) Tel. UHF Conv. 192-7 X551, X552 (Ch. 1089B, C) 129-9 X711 (Ch. RC-1070A) ... 133-11 1881 (Ch. RC-1070A, A, B, C) (Aiso see PCB 54-Set 188-1). 156-10 1X51, 1X52, 1X53, 1X54, 1X55, 1X56, 1X57 (Ch. RC-1104, -1, B, B-1, C, D, E) (Aiso see PCB 51-Set 185-1) ... 172-8

108

NOTE: PCB Denotes Production Change Bulletin.

RCA VICTOR-Cont.

 BBX65 (See Model 8BX6—Set 44.
 B)

 B
 B
 FA3 (Ch. RC-10376)
 97-13

 BPC541, B, C (Ch. KC248-1, KR5-20A-1, KR54, KR524-1, KR5-20A-1, KR54, KR521A-1, KC524C-1, KR44, KR521A-1, KC524C-1, KR44, KR74, KR521A-1, KC524C-1, KR44, KR521A-1, KC524C-1, KR54, KR521A-1, KC524C-1, KR54, KR521A-1, KC524C-1, KR54, KR521A-1, KC524C-1, KR54, KR5

 a)
 a)
 b)
 b)
 b)
 b)
 c)
 b)
 c)
 b)
 c)
 b)
 c)
 b)
 c)
 b)
 c)
 c)
 b)
 c)
 c)<

RCA VICTOR-Cont. RCA VICTOR-Cont.
 PTW 390 (Ch. KC531-), PC617A)

 9Y103 (Ch. RC513-1, PC617A)

 9Y101 (Ch. RC513-1, PC617A)

 9Y102 (Ch. RC513-1, PC617A)

 9Y103 (Ch. RC-1079)

 9Y537 (Ch. RC-1079), 9X552 (Ch. RC-1079A)

 RC-1079(C)

 9X531 (Ch. RC-1079), 9X552 (Ch. RC-1080A)

 RC-1057A)

 9Y537 (Ch. RC-1079), 9X552 (Ch. RC-1085A)

 RC-1057A)

 9Y51 (Ch. RC-1071)

 951 (Ch. RC-1071)

 951 (Ch. RC-1071, 95-11

 9Y51 (Ch. RC-1077)

 951 (Ch. RC-1073, 9Y513

 9Y51 (Ch. RC-1077)

 951 (Ch. RC-1077)

 961 (DI-Set 247-1

 10d (Ch. RC5781, M) (See

 97(R) (Ch. RC5787, H) 228-15

 175330 (Ch. (CK-8781, M) (See

 97430 (Ch. RC5787, H) 228-15

 175331 (DI (Ch. RC5871, M) 228-15

 215359G
 242-8

 PK)
 .242-8

 •215359GU
 (Ch. KC583D, PD. 'GU'')

 •215362G
 (Ch. KC583C, PC.'G'', .242-8

 PK)
 242---8

 •PK)
 242---8

 •IS362GU
 (Ch. KCS83D)

 ·GU'')
 242---8

 •215362K
 (Ch. KCS88)

 •215362K
 (Ch. KCS83A)

 •242--8
 •215362K

Production Change Bulletin Nos, 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos, 64 Through 104 Are All Contained in Set No. A-250

www.americanradiohistory.com

 215367 (C.K. KCS830, D. 242—8

 215367 (C.K. KCS830, D. "GU")

 215367 (C.K. KCS830, P.C. "G", PK)

 215367 (C.K. KCS867)

 215367 (C.K. KCS867, C.X.)

 215368 (C.K. KCS868, SX)

 215369 (C.K. KCS868, SX)

 215369 (C.K. KCS868, SX)

 215369 (C.K. KCS868, SX)

 225303 (C.K. KCS868, SX)

 22711

 215369 (C.K. KCS868, SX)

 2282-13

 215369 (C.K. KCS868, SX)

 22711

 215369 (C.K. KCS881, JX)

 22711

 215369 (C.K. KCS881, JX)

 2272-11

 215369 (C.K. KCS881, JX)

 215369 (C.K. KCS881, JX)

 Partie Uner (Ch. KK.191). 272–13 2155481, NU (Ch. KC5922), Komo Radio Tuner (Ch. KK.191). 289– 2155022 (Ch. KC5865, CX) 272–11 2155021 (Ch. KC5865, CX) 272–11 2155231 (Ch. KC5865, SX) 272–11 2155232 (Ch. KC5865, SX) 272–11 2155222 (Ch. KC5865, SX) 272–11 2155220 (Ch. KC5867, SX) 272–11 211550 (Ch. KC5687] ..197–9 2111350 (Ch. KC5687] ..197–9 2111350 (Ch. KC5687] (See Model 2111570E–Sei 197-9) 2111750 (Ch. KC5687] (See Model 2111570E–Sei 197-9) 2111750E (Ch. KC5687] ..197–9 2111750E (Ch. KC5687] ..197–9 2111750E (Ch. KC5687] ..197–9 2111750E (Ch. KC5687] ..197–9 2111760 (Ch. KC5687] ..197–9 2111790 (Ch. KC5687] ..197–9 211190 (Ch. KC5687] ..197–9 2110 (Ch. KC5687] ..197–9 2110 (

•211207, G (Ch. KCS72A) (See PCB 59—Set 193-1 and Model 177200 —Set 184-12)

 7-23
 7-23

 66X9
 7-23

 66X11 (Ch. RC-1046A, 66X12 (Ch. RC-1046), 66X13, 66X14, 66X12 (Ch. RC-1046B)
 7-20

 67V1, 67AV1 (Ch. RC-406)
 9-27

 768R1, 68R2, 68R3, 68R4 (Ch. RC-606)
 7-27

 75X11, 75X12 (Ch. RC-1050) 33-21
 75X14, 75X15 (Ch. RC-1050) (See Model 75X11-Set 33-21)
 · Denotes Television Receiver,

RCA VICTOR-Cont.

RLA VILLUR-Cont.
 211244 (Ch. KC572D-2, Radio Ch. RC141C)
 RC11118, and Audio Ch. RS141C)
 2117303, U (Ch. KC582, A, B) (Alio tee PCB 110—Sei 258-1)
 207—7
 2117313, G, GU, U (Ch. KC582, A, B) (Alio tee PCB 110—Sei 258-1)
 207—7

B) (Aliso see PCB 110—Sei 238-1)
 207—7
 211314, G, GU, U (Ch. KCS82, A. B) (Aliso see PCB 110—Sei 238-1)
 207—7
 211315, U (Ch. KCS82, A. B) (Aliso see PCB 110—Sei 238-1)
 207—7
 211315, U (Ch. KCS82, A. B) (Aliso see PCB 110—Sei 238-1)
 207—7
 211312, U (Ch. KCS82, A. B) (Aliso see PCB 110—Sei 238-1)
 207—7
 211324, U (Ch. KCS82, A. B) (Aliso see PCB 110—Sei 238-1)
 207—7
 211324, U (Ch. KCS82, A. B) (Aliso see PCB 110—Sei 238-1)
 207—7
 211324, U (Ch. KCS820, E. B) (Aliso see PCB 110—Sei 238-1)
 207—7
 211324, U (Ch. KCS820, E. Rodio Ch. see Model 211304)
 211304, U (Ch. KCS820), E. Rodio Ch. see Model 211304.
 211304, U (Ch. KCS830), ... 232—5
 211304, U (Ch. KCS831), ... 232—5
 211304, U (Ch. KCS83

55FA (See Model 55F-Set 4-6) 56X, 56X2, 56X3 (Ch. RC-10 ŋ

 56X, 56X2, 56X3 (Ch. RC-1011)

 1-16

 56X5 (See Model 56X10-Set 1-12)

 56X10 (Ch. RC-1023B)

 1-12

 56X7, 56X1 (Ch. RC-1043B)

 1-12

 56X7, 56X1 (Ch. RC-1043B)

 1-12

 56X7, 56X1 (Ch. RC-1045)

 512 (Ch. RS-127)

 6387 (Ch. RC-1045)

 547, 6472 (Ch. RC-1045)

 6387 (Ch. RC-1045)

 5410 (Ch. RC-1045)

 5410 (Ch. RC-1045)

 5410 (Ch. RC-1045)

 5411 (See Model 55AU-Set 4-6)

 6540, 550 (Ch. RC-1045)

 5411 (See Model 55AU-Set 14-23)

23) 65X1, 65X2 (Ch. RC-1034). 4-30 65X1, 65X2 (Ch. RC-1064). 31-26 65X8, 65X9 (See Model 65X1—Set

668X (Ch. RC-1040, RC-1040A)

66E (Ch. R5-126) 14-24 66E (Ch. R5-126) 17-26 66X1, 66X2, 66X3, 66X4. 7-23 66X7, 66X8 (See Model 66X1—Set 7-23)

4.301

7-23)

66X9

RCA VICTOR-RAYTHEON

28-27

RANGER

RAULAND

RCA VICTOR-Cont.

75X16, 75X17, 75X18, 75X19 (Ch. RC-1050B) (See Model 75X11-Set 33-21)
 RC-1050B)
 (See Model / 3A11-

 Set 33-21)
 3B-17

 770 (Ch. RC-1057A)
 3B-18

 772 (Ch. RC-615)
 3B-18

 772 (Ch. RC-616)
 3B-18

 772 (Ch. RC-616)
 3B-18

 774 (Ch. RC-616)
 3B-18

 774 (Ch. RC-616)
 3B-18

 774 (Ch. RC-616)
 3B-18

 774 (Ch. RC-610)
 3B-18

 774 (Ch. RC-610)
 3B-18

 774 (Ch. RC-610)
 3B-18

 774 (Ch. RC-612)
 3B-18

 775 (Ch. RC-612)
 3B-18 612V4 (See Model 612V1—Set 17-27) KS-123
 KZ-24
 Y11V3 (See Model 711V2-Set 22: 24)
 Y21TS (Ch. KC526A-1, -2) (See Similar Model 7307V1—Set 70-7)
 Y21TS (Ch. KC527-1, -2) (See Similar Model 7307V1-Set 70-7)
 Y307V1 (Ch. KC527-1, -2 and Ro-dia Ch. RC6108)
 Y0-7
 Y307V2 (Ch. KC527-1, -2 and Ro-dia Ch. RC6108)
 Y0-7
 Y11P(SC (Ch. KC527-1, -2 and Ro-dia Ch. RC6108)
 Y0-7
 Y213 (Ch. KC527-1, -2 and Ro-dia Ch. RC6108)
 Y0-7
 Y0-7
 Y0-7
 Ch. CTC2 (See Model CT-100)
 Ch. KC5204.1 (See Model 63015)
 Ch. KC5204.1 (See Model 63015)
 Ch. KC5201-1 (See Model 63015)
 Ch. KC5201.1 (See Model 640174)
 Ch. KC5240.1 (See Model 64174)
 Ch. KC5240.1 (See Model 64174)
 Ch. KC5250.1 (See Model 64174)
 Ch. KC5250.1 (See Model 64174)
 Ch. KC5250.1 (See Model 64174)
 Ch. KC5270.1 (See Model 730171)
 Ch. KC527.1 -2 (See Model 730171)
 Ch. KC527.1 -2 (See Model 7301711)
 Ch. KC527.4 (S259.4) (See Model 7301711) Ch. KCS28, A, B, C (See Model 81741) Ch. KCS29, KCS29A (See Model 81720) Ch. KCS29C (See Model 97C272) Ch. KCS30-1 (See Model 817241) Ch. KCS31-1 (See Model 81720) Ch. KCS34, KCS32A, KCS32B, KCS-32C (See Model 817X29) Ch. KCS34A-1 (See Model 1700) Ch. KCS40, A, B (See Model 1700) Ch. KCS41, A (See Model 17164) Ch. KCS41, A (See Model 174-129) Ch. KCS43 (See Model 174-129) Ch. KCS47, A, AT, T (See Model 176) Ch. KCS47, A, AT, T (See Model 178) Ch. KCS46 (See Model 2781) Ch. KCS478, C (See Model 2781) Ch. KCS478, C (See Model 77103) Ch. KCS478, C (See Model 77132) Ch. KCS478 (See Model 77132) Ch. KCS478 (See Model 167152) Ch. KCS488 (See Model 77143) Ch. KCS488, C (See Model 77143) Ch. KCS488, C (See Model 77143) Ch. KCS498, C (See Model 77143) Ch. KCS498, C (See Model 97105) Ch. KCS498, C (See Model 97105) Ch. KCS498, C (See Model 97105) Ch. KCS498, C (See Model 97163) Ch. KCS498, C (See Model 97147) Ch. KCS49, A (See Model 97147) Ch. KCS49, C (See Model 171153) Ch. KCS49, C (See Model 171153) Ch. KCS496, C (See Model 171152) Ch. KCS496, C (See Model 171157) Ch. KCS496, C (See Model 171157) Ch. KCS498, C (See Model 171157) Ch. KC5498, C (See Model 171157) Ch. K Ch Ch Ch Ch. KCS36C, C8 (See Model 217-176) Ch. KCS36E (See Model 217159) Ch. KCS76 (See Model 217159) Ch. KCS70 (See Model 217159) Ch. KCS72 (See Model 217120) Ch. KCS721 (See Model 21724) Ch. KCS72D-1 (See Model 21724) Ch. KCS74, KCS74M1 (See Model 21724) Ch. KCS77C (See Model 270383) Ch. KCS77C (See Model 270383) Ch. KCS77F (See Model 270383) Ch. KCS78, B (See Model 270382) Ch. KCS78, B (See Model 270382) KCS78F, H (See Model h. KCS78F, H (See Model 175349, U) h. KCS78J (See Model 177352U) h. KCS78J (See Model 175349GU) h. KCS78 (See Model 175349G) h. KCS79 (See Model 21) h. KCS81, A, B (See Model 21) h. KCS81D, E (See Model 21-D-346. U) Ch.Ch.Ch. Ch 346 U) 346, U) Ch. KCS81F, J (See Model 21D358) Ch. KCS82D, E (See Model 21T342) Ch. KCS83 (See Model 21T362M or 21T363) Ch. KCS83A (See Model 215362MU) Ch. KCS83B (See Model 21T363U) Ch. KCS83C (See Model 21S353 or 21T363G) 211363G) Ch. KCS83D (See Model 215353U) Ch. KCS83E (See Model 211356U) Ch. KCS83F (See Model 211392) Ch. KCS83H (See Model 211392U) Ch. Ch. KCS83 PC-''G'' (See Model 215353G) Ch. KCS83 PD-''GU'' (See Model 215353GU)

CH

 RCA VICTOR_Cont.

 Ch. KCS83 PJ (See Model 215336)

 Ch. KCS83 PK (See Model 215336)

 Ch. KCS83 PK (See Model 215336)

 Ch. KCS83 PK (See Model 215348C)

 Ch. KCS83 PK (See Model 245312)

 Ch. KCS84 F(See Model 245312U)

 Ch. KCS84F (See Model 245312U)

 Ch. KCS84F (See Model 245312)

 Ch. KCS845 (See Model 245312)

 Ch. KCS845 (See Model 245331)

 Ch. KCS847 (See Model 245331)

 Ch. KCS847 (See Model 245331)

 Ch. KCS876 (See Model 245331)

 Ch. KCS876 (See Model 2153500)

 Ch. KCS888 (See Model 215503)

 Ch. KCS888 (See Model 215303)

 Ch. KCS888 (See Model 215303)

 Ch. KCS888 (See Model 215303)

 Ch. KCS880, DX (See Model 215303)

 Ch. KCS880, DX (See Model 215303)

 Ch. KCS870 (See Model 215303)

 Ch. KCS880, DX (See Model 215303)

 Ch. KCS880, DX (See Model 215303)

 Ch. KCS870, EX (See Model 215303)
 RCA VICTOR-Cont. RCA VICTOR-Cont. Ch. KCS88D, DX [Jee 215537] Ch. KCS8BE, EX [See Model 215526] Ch. KCS8BF (See Model 215355KU) Ch. KCS8BF (See Model 215345KU) Ch. KCS8BJ, JX (See Model 215503U) Ch. KCS8B, KX [See Model 215501U] 215503U) Ch. KCS88K, KX (See Model 215501U) Ch. KCS88L, LX (See Model 215537U) Ch. KCS88N, MX (See Model 215528U) Ch. KCS88V, VX (See Model 215523U) Ch. KCS88V, VX (See Model 215523U) Ch. KCS89V, VX (See Model 215523U) Ch. KCS89V, See Model 24D542) Ch. KCS89V (See Model 24D542) Ch. KCS89V (See Model 24D542) Ch. KCS9V (See Model 24D544) Ch. KCS9V (See Model 24D544) Ch. KCS9V, See Model 24D544) Ch. KCS9V, See Model 24D544) Ch. KCS9V, See Model 24D544) Ch. KCS9V, A (See Model 24D547) Ch. KCS9V, A (See M Ch. KCSBPC [Jare Ch. KCSBPC (Jare U) Ch. KCSP2 (See Model 115503) Ch. KCSP2 (See Model 215503) Ch. KCSP2A, AX (See Model 215510N) Ch. KCSP2B, BX (See Model CX (See Model Ch. KC\$92A, AX [See Model 215510N] Ch. KC\$92B, BX [See Model 215537N] Ch. KC\$92C, CX [See Model 215537N] Ch. KC\$92D, DX [See Model 215530NU] Ch. KC\$92F, FX [See Model 215510NU] Ch. KC\$92F, FX [See Model 215527NU] Ch. KC\$92H, HX [See Model 215523NU] Ch. KC\$92L, IX [See Model 215523NU] Ch. KC\$92L, IX [See Model 215523NU] Ch. KC\$92X, KSee Model 215503N] Ch. KC\$92X, IX [See Model 215503N] Ch. KC\$92L, IX [See Model 215503N] Ch. KC\$92.52 [See Model 274] Ch. KC\$92.52 [See Model 9PC1A] Ch. KC\$92.52 [See Model 9PC1A] Ch. KC\$92.52 [See Model 9PC1A] Ch. KC\$92.52 [See Model 38AV] Ch. KC\$92.52 [See Model 38AV] Ch. RC\$00 [See Model 38AV] Ch. RC\$00 [See Model 60V1] Ch. RC\$00 [See Model 610V1] Ch. RC\$10.52 [See Model 71072] 7307V1) Ch. RC610C (See Model 610V1) Ch. RC613A (See Model 710V2) Ch. RC615 (See Model 77V1) Ch. RC616 (See Model 8V111) Ch. RC616A, RC616H (See Model 8V91) Ch. RC616B, C, J, K (See Model 81V221) (See Model 2012/2012) (8TV321) h. RC-616N (See Model 9TTV333) h. RC617A, B (See Model S1000) h. RC-618, RC-618A (See Model 8V90) Ch. RC-618, B, C (See Model 9W101) Gwi01] ... Ch. RC-622 (See Model A106) Ch. RC-1004E (See Model 55F) Ch. RC-101 (See Model 55K) Ch. RC-1017 (See Model 55AU) Ch. RC-1017 (See Model 55AU) Ch. RC-1023B (See Model 65AU) Ch. RC-1034 (See Model 65X1) Ch. RC-1037, RC-1037A (See Model 64F1) Ch. RC-1037, RC-1037A (See Model 64F1) Ch. RC-1037B (See Model 8F43) Ch. RC-1038, RC-1038A (See Model 66X1) h. RC-1040, RC-1040A (See Model 66X1) Ch. Rc-1040, RC-1040A (See Model 66BX) Ch. RC-1040C (See Model BBX6) Ch. RC-1045 (See Model 65BR9) Ch. RC-1046, A, B (See Model Ch. RC-1045 (see model 5007) Ch. RC-1047 (see Model 5485) Ch. RC-1050, RC-10508 (see Model 75X11) Ch. RC-1057A (see Model 77U) Ch. RC-1057B (see Model 977) Ch. RC-1057B (see Model 977) Ch. RC-1057B (see Model 88X5) Ch. RC-1057B, See Model 88X5) Ch. RC-1060 (see Model 8872) Ch. RC-1064 (see Model 8872) Ch. RC-1064 (see Model 88X61) Ch. RC-1064 (see Model 88X53) Ch. RC-1064 (see Model 88X51) Ch. RC-1064 (see Model 8X51) Ch. RC-1064 (see Model 65X1, 2nd Production) Production) Ch. RC-1065, RC-1065A (See Model 8X541) 8X541) Ch. RC-1066 (See Model 8X521) Ch. RC-1066A (See Model 8X522) Ch. RC-1066A (See Model 98X56) Ch. RC-1069A, B (See Model 98X56) Ch. RC-1070 (See Model 8X71) Ch. RC-1070A (See Model X711)

Ch. 85-132H (See Model 45-EY-15) Ch. 85-132H, M. 5 (See Model 45-EY-15) Ch. 85-138L, M., S (See Model 45-EY-4) Ch. 85-130 (See Model 45-EY-4) Ch. 85-140 (See Model 45-EY-4) Ch. 85-140 (See Model 2510) Ch. 85-140 (See Model 2510) Ch. 85-141 (See Model 210346, U ar Model 119970E) Ch. 85-142 (See Model 210347) Ch. 85-142 (See Model 211373) Ch. 85-142 (See Model 2153) Ch. 85-142 (See Model 2153) Ch. 85-142 (See Model 2153) Ch. 85-143 (See Model 21724) Ainsworth (See Model 171220) Ainsworth (See Model 17121) Barres (See Model 171210) Barres (See Model 171210) Barres (See Model 2113357, G, GU, U) Bertor (See Model 211228) Bentor (See Model 211228) Bentor (See Model 211228) Bertet (See Model 211228) Brett (See Model 171730E) Bilske (See Model 211228) Brett (See Model 211228) Brett (See Model 211228) Brokfiel (See Model 211228) Brokfiel (See Model 211273) Caldwell (See Model 2112 Cathoun (See Madel 171173, 177-173K) Comeron (See Madel 215335, G, GU, U) Clarendon (See Madel 215335, G, Clarenat (See Madel 215336, U) Colyaland (See Madel 270330, U) Coyaland (See Madel 270330, U) Covington (See Madel 171163) Cration (See Madel 171163) Cration (See Madel 171163) Cration (See Madel 171163) Cration (See Madel 2703) Deauville (See Madel 217315, U) Dobton (See Madel 217171) Fairfax (See Madel 217177) Fairfax (See Madel 21717, 6172, 71122, 711228)

RCA VICTOR-Cont. RCA VICTOR-Cont. Ch. RC-1077 [See Model 9Y51] Ch. RC-1077A, B [See Model 9Y510] Ch. RC-1079, A [See Model 9X571] Ch. RC-1079K, L [See Model 1X591] Ch. RC-108C [See Model 2X61] Ch. RC-108C [See Model 2X62] Ch. RC-1082 [See Model 2X62] Ch. RC-1085, RC-1085A [See Model 9X651] el 9X561] Ch. RC-1079K, L [See Model 1X591] Ch. RC-1080D [See Model 2X621] Ch. RC-10825 [See Model 2X621] Ch. RC-10858 [See Model 2X621] Ch. RC-10858 [See Model X553] Ch. RC-10878 [See Model X553] Ch. RC-10978 [See Model 47141] Ch. RC-1097 [See Model 47141] Ch. RC-10978 [See Model 47141] Ch. RC-1096 [See Model 4.103] Ch. RC-10968 [See Model 84.11] Ch. RC-10968 [See Model 84.11] Ch. RC-10968 [See Model 1841] Ch. RC-10968 [See Model 1841] Ch. RC-1010 [See Model 1841] Ch. RC-1010 [See Model 1841] Ch. RC-1111 [See Model 2510] Ch. RC-1111 [See Model 2510] Ch. RC-11114 [See Model 27400] Ch. RC-11114 [See Model 27400] Ch. RC-11174 [See Model 27400] Ch. RC-11174 [See Model 2740] Ch. RC-11174 [See Model 2757] Ch. RC-11174 [See Model 2757] Ch. RC-11174 [See Model 2757] Ch. RC-11124 [See Model 2751] Ch. RC-1124 [See Model 2751] Ch. RC-1125 [See Model 3851] Ch. RC-1126 [See Model 3851] Ch. RC-1127 [See Model 3851] Ch. RC-1127 [See Model 3851] Ch. RC-1128 [See Model 3851] RME RADIOLA • 202 500 800 RADIOETTE PR-2 ... NOTE: PCB Denotes Production Change Bulletin. Production Change Bulletin. Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

RCA VICTOR-Cont. Farmington (See Model 211166DE) Farrell (See Model 215369G, GU) Ft. Knox (See Models 215369G, GU) Glendale (See Model 171302) Glendale (See Model 171302) Hadley (See Model 171701) Hampton (See Model 171701) Harrota (See Model 171701) Harrota (See Model 171301) Harrota (See Model 171301) Hilbadle (See Model 171301) Hilbadle (See Model 171301) Hilbadle (See Model 211316, U) Jeffrey (See Model 211313, U) Kenbridge (See Model 211313, U) Kenbridge (See Model 211313, U) Kenbridge (See Model 211328, U) Kenbridge (See Model 211323, U) Kenbridge (See Model 17102) Kenbridge (See Model 211303, U) Lingber (See Model 211323, U) Lingber (See Model 211323, U) Lindber (See Model 211323, U) Lindber (See Model 211327, U) Lindber (See M 814 1835 1841 1904 1916 1932 1960 1961 U Master 21 (See Models 215348, G, GU, U) Meredith (See Model 211165) Merritt (See Model 21317, U) Modern (See Model 6175, 71124) Modernette (See Models 215357G, GU) Moderner [See Model: 6175, 71124] Moderner [See Model: 215357G, GU] Newport [See Model: 3153, 71103] Northompton [See Model: 9179] Penfield [See Model: 217244] Presion [See Model: 217244] Presion [See Model: 21714, U] Presion [See Model: 21715] Provincial [See Model: 6174, 71123, 711238] Regency [See Model: 21178, 2111780E] Rutharford [See Model: 211364, Ruthard [See Model: 211364, Ruthard [See Model: 211364, Ruthard [See Model: 211379, 211590E] Seweil [See Model: 211324, U] Shelby [See Model: 211324, U] Shelby [See Model: 211324, U] Staution [See Model: 211324, U] Statoton [See Model: 211324, U] BB-22A 50-14 HF10-20 49-17 VHF 2-11 79-14 VHF-152A 51-18 45 13-25 84 14-13 200 Tel. UHF Conv. 219---8 61-1, 61-2, 61-3 (Ch. RC-1011) 14-25 61-5 (Ch. RC-1023) 12-25 61-8 (61-9 (Ch. RC-1034). 27-21 61-10 (Ch. RC-1034). 12-35 62-12 (See RCA Model 65U-1) -Set 14-23) 752U (Ch. RC-1063A) ... 36-19 762X11, 762X12 (Ch. RC-1058, RC-1058A] ... 36-20 Ch. RC-101 (See Model 61-1) Ch. RC-101 (See Model 61-1) Ch. RC-1023, RC-10238 (See Model 61-5) 61-1, 61-2, 61-3 (Ch. RC-1011) Ch. RC-1023, IC-10236 (See Model 61-10) Ch. RC-10238 (See Model 61-10) Ch. RC-1034 (See Model 61-8) Ch. RC-1058, RC-1058A (See Model 76ZX11) Ch. RC-1063A (See Model 75ZU) RADIO CRAFTSMEN (Also see Craftsmen) (Also see Crossing) 186-11 C400 186-11 RC-1 (Juner), RC-2 Kitchengire'' 6-14 RC-8 66-13 RC-10 110-12 96-9 -0 -0 -9 164-8 RADIO DEVELOPMENT & RESEARCH CO. (See Magic-Tone) RADIONIC (Also see Chancellor) Y62W, Y728 26-22 RADIO MFG. ENGINEERS (See RME) RADIO RECEPTOR RADIO WIRE TELEVISION (See Lafayette)

87-10 211-10 43-16 251-15 251-15 179-10 273-13 BA2I ... BAU21 W-819-A 1801A 1805A 1810 1811 99-13 100-10 59-17 97-14 1820 1821, 1822 1825 1826 (1801A, 1805) 97-14 251-15 60-17 58-19 140-10 229-12 148-14 208-9 212-4 1961 212-4 2100 (39-20) 2101-A (Master Station) 39-20 2105 (Master Station) 39-20 2105 (Master Station) 36-21 2104-F, 2106-F, 2106-F, 236-11 236-11 2206, 22064, 2212, 2212H, 2218, 2246, 2212, 2218, 2218, 2224, 2224H 80-13 2306, 2312, 2324 87-10 2400 Series 33-12 3406 H 210-6 3406, H . 3412, H . 3424, H . RAY ENERGY AD 7-24 AD4 7-25 SRB-1X 13-26 RAYTHEON (Also see Belmont) RATTHEON (Also see Belmont) A-7DX22P (See Model 7DX21—Set B-1-30) A-10DX24, B-10DX22 (Also see PCB 1-Set 103-19) (See Model CR-41—Set 212-3) Cl102 (Ch. 12AX22) (Also see PCB 3-Set 103-1) 94-3 C-1104 (Ch. 12AX22) (Also see PCB 3-Set 103-1) 94-3 C-1104B (Ch. 12AX22, 12AX27) 142-11 C.104B (Ch. 12AX2) 74-B C.104B (Ch. 12AX2) 141-11 C.104B (Ch. 12AX2) 123-12 C.1602, A., B., C (Ch. 16AX23, 25, 26) 99-14 C.1602, Series 2 (Ch. 16AX29) (See PCB 16-Set 123-1 and Model C-1613A (Ch. 16AY211) (See PCB 19-Set 132-1 and Model C-1615B -Set 122-1 and Model C-1615B (Ch. 16AY28) (Also see PCB 19-Set 132-1) C.1616A (Ch. 16AY21), C-1615B (Ch. 16AY28) (Also see PCB 19-Set 132-1) 124-B C.1616A (Ch. 16AY211), C-1615B (Ch. 16AY28) (Also see PCB 19-Set 132-1) 124-B C.1716A (Ch. 16AY211), C-1615B (Ch. 16AY28) (Also see PCB 19-Set 132-1) 124-B C.1716A (Ch. 17AY21) (Also see PCB 19-Set 132-1) 124-B C.1716A (Ch. 17AY21) (Also see PCB 19-Set 132-1) 124-B C.1716A (Ch. 17AY21) (Also see PCB 19-Set 132-1) 124-B C.1716A (Ch. 17AY21) (Also see PCB 19-Set 132-1) 124-B C.1716A (Ch. 17AY21) (Also see PCB 19-Set 132-1) 124-B C.1716A (Ch. 17AY24), C-1715B (Ch. 17AY21) (Also see PCB 19-Set 132-1) 124-B C.1716A (Ch. 17AY24), C-1715B (Ch. 17AY21) (Also see PCB 19-Set 132-1) 124-B C.1716A (Ch. 17AY24), C-1715B (Ch. 17AY21) (Also see PCB 19-Set 132-1) 124-B C.1727, C.1731A (Ch. 17AY21) (19--Set 132-1 and Model C- 1615A-Set 124-8) -1725, C-1733A (Ch. 17AY21A) 175-10 -1725A, C-1735A (Ch. 17T1) [Alico See PCB 87-Set 230-1) 189-14 -1735A, C-1741A [Ch. 17T4] [See PCB 87-Set 230-1] 189-14 -1735A, C-1741A [Ch. 17T4] [See PCB 67-Set 230-1] and Model C-1735A, C-1741A [Ch. 17T4] [See PCB 67-Set 230-1] and Model C-1735A, C-1741A [Ch. 17T4] [See PCB 43-Set 187-14] -19-19 -2000A (Ch. 20AY21) [Alico see PCB 43-Set 177-1] 149-9 -20108A (Ch. 20AY21) [Alico see PCB 43-Set 177-1] 149-9 -2103A, C-2105A (Ch. 21AY21) [Alico see PCB 43-Set 177-1] 149-9 -2103A, C-2105A (Ch. 21AY21) [Alico see PCB 43-Set 120-1] 189-14 -2108A (Ch. 2111) [Alico See PCB 87-Set 230-1] 189-14 -2108A (Ch. 2112) [Ch. 2114] (C-2107A) [Se T6B 87-Set 230-1] 189-14 -22105A, C-2113A (Ch. 2111) [Alico See PCB 87-Set 230-1] 189-14 -22115A, C-2113A, C-2114A (Ch. 2113) [Alico see PCB 89-Set -2115A, C-2120A, C. 2114 -2115] [See PCB 87-Set 230-1] and Model -2115A, C-2120A, C. 2114A (Ch. 2113) [Alico see PCB 89-Set -2105A, C-2120A, C. 2114A (Ch. 2113) [Alico see PCB 80-Set -2105A, C-2120A, C. 2114A (Ch. 2113) [Alico see PCB 90-Set -2105A, C-2120A, C. 2114B (Ch. 2115A, C-2115] [See PCB 87-Set 230-1] and Model -2127A, C-2138A [Ch. 2111] (C-2105A, C-2105A, C. 2113B (Ch. 2172) [See Model M-1750A-Set 261-13] C-2404 (Ch. 2172) [See Model M-1750A-Set 261-13] C-2404 [Ch. 2172] [Alico see PCB 3 -5et 105-1] -240-4 [Ch. 2473] C-2105A [Ch. 2172] [Alico see PCB 3 -5et 105-1] -2212A [Ch. 10AX22] [Alico see PCB 3 -5et 105-1] -2212A [Ch. 10AX22] [Alico see PCB 3 -5et 105-1] -2212A, C-2213A [Ch. 24A-3] -124AZ2 [Alico see PCB 3-5et 105-1] -124AZ2 [Alico see PCB 3-5et 105-1] -124AZ4 [ZA] Ch. 94-88 M1105B, M-1106 [Ch. 124X2- 212AZ-] 22) (Also see rub - 94-8 • M11058, M-1106, M-1107 (Ch. 12AX26, 12AX27)141-11 • M-1402, M-1403, M-1404 (Ch. 14AX21)123-12 • M-1601 (Ch. 16AX23, 25, 26) 99-14

· Denotes Television Receiver.

RAYTHEON-SHERIDAN ELECTRONICS

RAYTHEON-Cont.

110

- - NOTE: PCB Denotes Production Change Bulletin.

LECTRONICS
RAYTHEON-Cont.
102K72 (Also see PCB 3-Set 10511) 75-14
104K744 (See Model C-1102-Set 75-14)
100X744 (See Model A-100X24-Set 75-14)
100X21, 10DX22 (Also see PCB 3Set 105-1) 75-14
10DX24 (See Model A-10DX24Set 75-14)
10DX24 (See Model CR-11)
Ch. 12AX25 (See Model CR-11)
Ch. 12AX27 (See Model CR-11)
Ch. 12AX27 (See Model CR-11)
Ch. 12AX27 (See Model CR-1102)
Ch. 12AY28 (See Model C-1615A)
(Also see PCB 19-Set 132-1)
Ch. 12AY28 (See Model C-1748)
Ch. 17AY21 (See Model C-1748)
Ch. 17AY21 (See Model C-1729)
Ch. 17AY21 (See Model C-1720)
Ch. 21T3 (See Model C-2109A)
Ch. 21T3 (See Model C-2109A)
Ch. 21T1 (See Model C-2107A)
Ch. 21T3 (Se

RECORDIO (Wilcox-Gay)

 RECORDIO
 (Wilcox-Gay)

 1810
 149-10

 1C-10
 146-9

 1J10
 (Ch. 111)

 2A10
 6A3-10

 6A10
 6A20

 6A10
 6A20

 7D42
 7D40

 7D42
 7D44

 < 9G10 9G40M, 9G42 9H40B Ch. JJI (See Model JJI0) Ch. 6A (See Model 6A10) Ch. 7DI (See Model 7D42) 86---9 89-13 REELEST (See Recorder Listing)

REMLER
 REMLER
 8-28

 \$300B, \$300B, \$3001, \$23-18
 \$310

 \$310
 \$40-17

 \$500, \$410
 \$44-19

 \$500, \$5cottle Pup'
 \$27-23

 \$515, "Scottle Pup'
 \$27-23

 \$515, "Scottle Pup'
 \$28

 \$500, \$5cottle Pup'
 \$27-23

 \$500, \$5cottle Pup'
 \$28

 \$500, \$5cottle Pup'
 \$27-33

 \$500, \$5cottle Pup'
 \$27-33

 \$500, \$5cottle Pup'
 \$27-34

 \$500, \$5cottle Pup'
 \$27-35

 \$500, \$5cottle Pup'
 \$27-34

 \$500, \$5cottle Pup'
 \$27-34

 \$500, \$5cottle Pup'
 \$27-35

 \$500, \$5cottle Pup'
 \$27-34

 \$500, \$5cottle Pup'
 \$27-34

 \$500, \$5cottle Pup'
 \$27-34

 \$500, \$5cottle Pup'
 \$27-34

 RENARD L-1A, PT-1A, 185T-1..... 9-28 REVERE (Also See Recorder Listing)

REMARANDT

•721, 1606, 1606-15, 1950. 65-11

- A00
 269–13

 ROLAND
 4P2
 266–13

 4P2
 266–13
 213–7

 3C1
 213–1
 213–1

 5C2
 2231–13
 33–9

 5T1E
 205–8
 511

 5T2M
 206–10
 517

 5T3
 231–13
 513–52

 5T4
 206–10
 512

 5T3
 234–11
 531–14

 5T4
 238–12
 217–13

 5X1, 5X2
 217–13
 5X3, 5X4
 247–9

 6P2
 236–12
 236–12
 216–9

 BFTIM
 216–9
 847–9
 211–19

 8XF3-M, 8XF4.M
 249–13
 10XF1
 249–14

 10XF1
 249–14
 10XF1
 249–14

 10XF1
 249–14
 10XF1
 240–10

 ROYAL (Lee)
 280–10
 280–10
 ROYAL (Lee) SCOTT (E. H.)

- 178.9) B21C [Ch. 9036, 9037, 9038, 9039] B21C [Ch. 9043] B21CB [Ch. 9036, 9037, 9038, 9039] B21CB, CH [Ch. 9043] B21CB, CH [Ch. 9043] B21CB, CH [Ch. 9043] B21CB, CH [Ch. 9043] B21CB, CH [Ch. 9037, 9038, 9039] Ch. 9037, 9038, 9037] Ch. 9037,

- 6821D (CK. 9036, 9037, 9038, 9039)

 217-14

 6821D, OB, DBH, DM, DMH (Ch. 9043)

 9043)

 9043)

 8218 (Ck. 9043)

 234-12

 8217 (Ch. 9043)

 234-13

 8217 (Ch. 9043)

 234-12

 8217 (Ch. 9043)

 234-12

 8217 (Ch. 9036, 9037, 9038, 9039)

 217-14

 8217 (Ch. 9043)

 234-12

 8217 (Ch. 9036, 9037, 9038, 9039)

 217-14

 8217 (Ch. 9036, 9037, 9038, 9039)

 217-14

 8217 (Ch. 9043)

 9039)

 217-14

 8217 (Ch. 9036, 9037, 9038, 9039)

 9039)

 217-14

 8217 (Ch. 9035, 9037, 9038, 9037, 9038, 9039)

 910

 910

 924W

 924W

 1500

 229-13

 230-10

 233-10

 233-10

 233-10
- 229-13
- SCOTT (H. HI)
- SCOTT (H. H.)

 99.A
 267-17

 11.B
 143-14

 12.B
 144-18

 12.A
 144-18

 12.A
 265-17

 210.A
 265-17

 210.A
 265-17

 210.B
 145-9

 211.A
 265-17

 210.B
 145-9

 211.A
 120-A

 220.A
 183-13

 232.2
 232A

 272-13
 5EARS-ROEBUCK (See Allstate or Silvertone)
- SEEBURG (See Record Changer Listing)

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

www.americanradiohistory.com

 SENTINEL

 1U-284G
 22-25

 1U-284J, 1U-284NA, 1U-284NI,
 1U-284NI,

 1U-281, 1U-284NA, 1U-284NI,
 1U-2

 1U-281, 1U-284NI,
 1U-2

 1U-281, 1U-284NI,
 1U-2

 1U-281, 1U-284NI,
 1U-2

 1U-281, 1U-293N, 1U-293NI, 1U-293NI, 1U-293NI, 1U-293NI, 1U-293NI, 1U-294NI, 1U-31-15
 1U-3

 1U-281, 1U-294NI, 1U-294NI, 1U-3
 10-3-15

 1U-314V, 1U-314W
 38-21

 1U-314E, 1U-314W
 38-21

 339-K
 111-12

 340-C
 129-10

 342K
 155-14

 343
 212-6

 343
 212-6

 344
 211-12

 345P
 183-14

 344
 211-12

 345P
 183-14

 344
 211-12

 345P
 183-14

 346
 209-11

 4007V
 73-11

 405 Series
 70-9

 405 Series
 70-9

 406 Series
 70-9

 407 Series
 1

 411 Series (See Model 401 Series

 5er 70-9
 100-11

 416
 115-12

 417 A13, A14, A15 (Series YA, YE, YC, YD, YE, YF) (Also see PCB 19-5et 132-10

 418 Series
 101-12

 419 A20
 124-9

 420
 124-9

 423, A21-17 (See PCE 19-Set 132-11)

 and Model 422-Set 100-111

 and Model 423-Set 132-12

 424 (Also see PCE 19-Set 132-12

 424 (Also see PCE 19-Set 132-11

 424 (Also see PCE 19-Set 132-11

 424 (Also see PCE 19-Set 132-10

 425
 127-1
 10317PG, 10317PG ■10424 (Also see PCB 19—Set 132-1 1) 124-9 ■10424-17 (See PCB 19—Set 132-1 ond Model 10424—Set 124-9) ■10-425 127-10 ■10429, 10430, 10431 (See PCB 25 —Set 124-9) ■10-432 (Also see PCB 21—Set 136-10-10429, 10430, 10431 (See PCB 25-Set 124-9) ■10-432 (Also see PCB 21—Set 136-127-10 3 set 14+7/ 10-432 (Also see PCB 21-5et 136-10-432 (Sse PCB 21-5et 136-1 and 1045 (Sse PCB 21-5et 136-1 and 10428, 10425-5et 127-10) 10428, 10425-5et 127-10) 10428, 10442 (Series 'XD, XXD, 200') 10444, 10447 (Series 'XD, XXD, 10447, 104447 (Series 'XD, XXD, 10447, 10447 (Series 'XD, XXD, 10457, 10451A, 10448-A, 10447, 10457) 10448, 10447 (Series 'XD, XXD, 10457, 10451A, 10450, 10455) 10448, 10445, 10450, 10457 (Also see PCB 63-5et 197-1 10452, 10452, 10460, 10460, 10461 199-10 10462, 10463, 10460, 10460, 109-10 10462, 10463, 10460, 10460 199-10 10462, 10463, (Ch. 2WA). 205-9 10500

SENTINE

SENTINEL-Cont.

SETCHELL-CARLSON

427 437 447 458-RD 458-RD 469 99–15

Ch. 224 (Runs 301, 302, 303, 304, 304-1, -2, 305, 305-2) . . 202-8

218110 (Ch. 5300X-A) (See PCB 89 —Set 23:1 and Model 17M120— Set 210-9) 21MC10 (Ch. 5300X Series) 210—9 21MC10 (Ch. 5300X Series) 210—9 21MD10 (Ch. 5300X Series) 210—9 21MD10 (Ch. 5300X Series) 210—9 21MD10 (Ch. 5300X A) (See PCB 89 —Set 23:1 and Model 17M120— Set 210-9) 21M10U (Ch. 5300X Series) --Set 23:1 and Model 17M120— Set 210-9) 21M10U (Ch. 5300X Series) --Set 23:1 and Model 17M120— Set 210-9) Ch. 2500X-A) (See PCB 89 --Set 23:1 and Model 17M120— Set 210-9) Ch. 2500X (See Model 17M120) Ch. 3500X (See Model 17M120) Ch. 3500X (See Model 17M120) Set 210-A) (See PCB 17M120) Ch. 3500X (See Model 17M120) Set 210-A) (See PCB 17M120) Set 210-

SHERIDAN ELECTRONICS

Denotes Television Receivet.

Ch. 152 (See Model 53) Ch. 153 (See Model A53) Ch. 155 (See Model A51)

SHAW

- 1 10462
 10463
 10463

 1 10462
 10463
 10510
 226-8

 1 10510
 10511
 10512
 226-8

 1 10512
 10513
 226-8
 226-8

 1 10520
 226-8
 226-8
 226-8

 1 10520
 226-8
 226-8
 226-8

 1 10521
 10520-5et
 226-8
 10520-5et
 226-8

 1 10522
 10527-5et
 226-8
 10527-5et
 226-8

 1 10523
 226-8
 226-8
 10527-5et
 226-8

 1 10523
 226-8
 226-8
 10532-8
 226-8

 1 10523
 226-8
 226-8
 10532-8
 226-8

 1 10523
 226-8
 226-8
 10532-8
 226-8

 1 10525
 220-8
 226-8
 226-8
 10532-8
 226-8

 1 10525
 220-7
 242-1
 240-7
 10534
 10562-8
 242-1

 1 10564
 229-8
 242-1
 240-7
 10534
 1058
 242-1

 1 10504
 10562
 262-11
 1050-5et
 242-1
 242-1
 242-1

SIGNAL-SILVERTONE

SILVERTONE—Cont. +109 (Ch. 528.34800) (See PCB 122 —Set 276-1 and Model 5100— Set 264-17) +109A (Ch. 528.34801) (See PCB 122 Set 276-1 and Model 5100 —Set 264-17) +110 (Ch. 528.302) ... 253-12 +1108 (Ch. 528.302) ... 253-12 +1108 (Ch. 528.302) ... 253-12 +1114 (Ch. 528.204, -21, 227-12 +1128 (Ch. 528.204, -21, 227-12 +113A (Ch. 528.204, -21, 227-12 +113B (Ch. 528.204, -21, 227-12 +114B (Ch. 528.204, -21, 227-12 +114B (Ch. 528.204, -21, 225-12 +114B (Ch. 528.204, -21, 225-12 +114B (Ch. 528.204, -21, 225-12 +114B (Ch. 528.200, -227-12 +1146 (Ch. 528.200, -227-12 +116 (Ch. 528.200, -277-12 +117 (Ch. 5 SILVERTONE-Cont. SILVERTONE-Cont. 4116W (Ch. 436.200-11, -12, -13, -12, -13, -21, -22, -23) (See PCB 109 -Set 225-16)
 4117 (Ch. 528.266) ... 227-12
 4117 (Ch. 528.263-1, -2) (See PCB 109 -Set 225-16)
 4118 (Ch. 528.263-1, -2) (See PCB 109 -Set 225-16)
 4118 (Ch. 528.263-1, -2) (See PCB 109 -Set 225-16)
 4118 (Ch. 528.263-1, -2, 445 - 6
 4118 (Ch. 528.263-1, -2, 445 - 6
 4118 (Ch. 528.263-2) ... 227-12
 4119 (Ch. 528.263-2) ... 227-12
 4119 (Ch. 528.263-2) ... 227-16
 4119 (Ch. 528.263-2) ... 227-16
 4119 (Ch. 528.263-2) ... 227-12
 4128 (Ch. 528.263-2) ... 227-16
 4129 (Ch. 456.200-11, -12, -13, -21, -22, -23) (See PCB 109 - Set 225-16)
 4124 (Ch. 528.263-2) ... 227-12
 4124 (Ch. 528.260-1, -2) (See PCB 109 - Set 225-16)
 4124 (Ch. 528.260-1, -2) (See PCB 108 - Set 225-16)
 4124 (Ch. 528.200-1, -2) (See PCB 108 - Set 225-16)
 4124 (Ch. 528.200-1, -2) (See PCB 108 - Set 225-16)
 4124 (Ch. 528.200-1, -2) (See PCB 118 - Set 225-16)
 4124 (Ch. 528.200-1, -2) (See PCB 108 - Set 225-16)
 4124 (Ch. 528.200-1, -2) (See PCB 108 - Set 225-16)
 4127 (Ch. 538.263-1, -2) (227-12 - 3127 (Ch. 538.263-1, -2) (227-12 - 3127 (Ch. 538.263-1, -2) (227-12 - 3127 (Ch. 358.264-1, -2) (227-13 - 327-12 - 3128 (Ch. 538.264-1, -2) (227-16 - 3128 (Ch. 538.264-1, -2) (227-16 - 3128 (Ch. 538.264-1, -2) (227-16 - 3128 (Ch. 538.264-1) (227-16 -

Denotes Television Receiver.

SILVERTONE—Cont. 2105A (Ch. 132.024-3, 31) 2110A, 2111 (Ch. 528.33, -1, Ch. 528.632, -1, 2, 3, -4, -5, Ch. 528.632, -1, -2, -3, -4, -5, Ch. 21158 (Ch. 528.631, -1, Ch. 528.-632, -1, -2, -3, -4, -5, Ch. 528.-632, -1, -2, -3, -4, -5, Ch. 528.-2100 (Ch. 10, 200, -1, -2) 217-10 2100 (Ch. 102, 207, -1, -2) 217-10 21458 (Ch. 132.024, -1, -2) 798-13 21458 (Ch. 132.024, -1, -2) 798-13 21458 (Ch. 102, 200, -1, -2) 217-13 2150 (Ch. 100, 200, -1, -2) 798-13 2150 (Ch. 100, 200, -1, -2) 798-13 2150 (Ch. 100, 200, -1, -3) (Ch. 528, -33, -1, -5, -5, -528, -528, -1, -2, -3, -4, -5, Ch. 528, -532, -1, -2, -3, -4, -5, Ch. 528, -1, -2, -3, -4, -5, Ch. 528, -322, -1, -2, -3, -4, -5, Ch. 528, -322, -1, -2, -3, -4, -5, Ch. 528, -322, -1, -2, -3, -4, -5, Ch. 528, -1, -2, -3, -4, -5, Ch. 528, -207-10 21724 (Ch. 100, 210, -1, -3) 212-7-10 2174 (Ch. 100, 220, -1, -3) 207-10 2175, 2217, C218 (Ch. 528, C85, -5, -5 193-1 and Model 1374--5et 206-11 200, 2202, 2203 (Ch. 528, 223) 200, 2202, 2203 (Ch. 528, 223) 200, -202, 2203 (Ch. 528, 233) 210, -20, -202, 2203 (Ch. 528, 233) 210, -20, -202, 2203 (Ch. 528, 233) 210, -20, -202, 203 (Ch. 528, 233) 210, -20, -203 (Ch. 528, 233) 200, -224 (Ch. 137, 914, -1, -2, -3) 2249 (Ch. 137, 914, -1, -2, -3) 2249 (Ch. 137, 914, -1, -2, -3) 2240 (Ch. 137, 914, -1, -2, -3) 2240 (Ch. 137, 914, -1, -2, -3) 244 (Ch. 137, 914, -1, -2,
 SILVERTONE_Cont.

 • 185-16 (Ch. 549,101-2)

 • 186-19 (Ch. 549,101-3)

 • 186-19 (Ch. 549,101-3)

 • 187-16, 188-16 (Ch. 110,700-10)

 (Sce Model 116-58+139-13)

 • 189-16 (Ch. 110,700-1, -10)

 • 189-16 (Ch. 110,700-1, -10)

 • 199-17 (Ch. 132,880)

 • 199-18 (Ch. 132,880)

 • 199-19 (Ch. 132,880)

 • 197-13 (Ch. 528,174) (See Model 116-528, 174)

 • 121 (Ch. 528, 174)

 • 122 (Ch. 528, 174)

 • 122 (Ch. 528, 173)

 • 100-13 (Ch. 548, 361)

 • 100-13 (Ch. 548, 361)

 • 100-13 (Ch. 548, 361)

 • 101-14 (Ch. 548, 361)

 • 101-14 (Ch. 548, 300-1)

 • 1010-17 (1018 (Ch. 328, 202, 1, -2)

 SILVERTONE-Cont. SILVERTONE-Cont. $\begin{array}{c} 3025, \ 3026, \ 3027 \ (Ch, \ 132, 064) \\ & 249-61 \\ & 249-61 \\ & 249-61 \\ & 249-61 \\ & 249-61 \\ & 3032 \ (Ch, \ 528, 252) \\ & 215-12 \\ & 3040 \ (Ch, \ 528, 253) \\ & 221-9 \\ & 3040 \ (Ch, \ 528, 253) \\ & 270-13 \\ & 3041 \ (Ch, \ 528, 253) \\ & 270-13 \\ & 3041 \ (Ch, \ 528, 253) \\ & 270-13 \\ & 3043 \ (Ch, \ 528, 253) \\ & 240-3 \\ & 3053 \ (Ch, \ 132, 053) \\ & 240-3 \\ & 3055 \ (Ch, \ 132, 055) \\ & 240-3 \\ & 3056 \ (Ch, \ 101, 800-3) \\ & 240-3 \\ & 3068 \ 3055 \ (Ch, \ 102, 1056) \\ & 240-3 \\ & 3068 \ (Ch, \ 100, 180-11) \\ & 3063 \ 3064 \ (Ch, \ 101, 800-3) \\ & 240-3 \\ & 3068 \ (Ch, \ 100, 174) \\ & 3060 \ (Ch, \ 100, 174) \\ & 3060 \ (Ch, \ 100, 174) \\ & 3060 \ (Ch, \ 100, 174) \\ & 3100 \ (Ch, \ 132, 024, 54, -6, -7, -8) \\ & (Also \ See \ PCB \ 117-Set \ 245-61 \\ & 3103 \ (Ch, \ 528, 242, -1, -2) \\ & 31104 \ (Ch, \ 528, 242, -1, -2) \\ & 31104 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ & 31128 \ (Ch, \ 528, 242, -1, -2) \\ &$

 196-15

 2018, 2019 (Ch. 757,100-1)

 2022 (Ch. 132.027)

 206-14

 2022 (Ch. 132.027, 206-1)

 132.896-1] (See Model 10-Set

 144.11)

 2028 (Ch. 528.230)

 2038 (Ch. 528.230)

 2038 (Ch. 528.235)

 2034 (Ch. 528.235)

 2041 (Ch. 528.235.1) (See Model

 2041 (Ch. 528.235.1) (See Model

 2041 (Ch. 132.026.3)

 2056 (Ch. 103.026.3)

 2056 (Ch. 103.026.1)

 2056 (Ch. 103.020.2)

 2058 (Ch. 100.202) (See Model

 1066 Set 162.11)

 2050 (Ch. 110.700-100, -104)

 2010 (Ch. 110.817.1)

 2010 (Ch. 110.817.1)

 20104 (Ch. 132.024, -1, 2)

 20105 (Ch. 132.024, -1, 2)

 20104 (Ch. 132.024, -1, 2)
 2018, 2019 (Ch. 757

 and Recorder Listing)

 PC-5100 (Ch. 456.31300)

 PC-3101 (Ch. 456.31400)

 PC-3110 (Ch. 456.31400)

 PC-3110 (Ch. 456.31400)

 PC-3117 (Ch. 456.31400)

 PC-3117 (Ch. 456.31400)

 PC-5117 (Ch. 456.31400)

 PC-5117 (Ch. 456.31400)

 PC-5112 (Ch. 456.31400)

 PC-5129 (Ch. 456.31400)

 PC-5129 (Ch. 456.31400)

 PC-5129 (Ch. 456.3100)

 PC-5129 (Ch. 456.3100)

 PC-5129 (Ch. 456.3100)

 PC-5129 (Ch. 456.3100)

 PC-5129 (Ch. 456.3200)

 PC-5129 (Ch. 456.3100)

 PC-5129 (Ch. 456.3100)

 PC-5129 (Ch. 456.3200)

 <
 1017, 1018 (Ch. 928,210, 115,12)

 1017, 1018 (Ch. 928,210, 182,11)

 1032 (Ch. 928,210)

 1033, A. (Ch. 528,195, 11, -2)

 1038 (Ch. 928,194,11, 58

 1040, 1045 (Ch. 928,194,11) [See Model

 1040, -Set 181,12)

 1040, -Set 181,12)

 1040, -Set 181,12)

 1045, Ch. 928,194,11) [See Model

 1052, Ch. 132,011, .174,-10

 1053, Ch. 132,011, .174,-10

 1053, Ch. 132,011, .174,-10

 1053, Ch. 132,011, .174,-10

 1054, Ch. 132,012, .173,-12

 1055, Ch. 132,012, .173,-12

 1055, Ch. 132,012, .173,-12

 1055, Ch. 132,012, .173,-12

 1055, Ch. 132,012, .174,-10

 1054, Ch. 132,012, .174,-10

 1055, Ch. 132,012, .174,-10

 1055, Ch. 132,012, .174,-10

 1054, Ch. 132,012, .174,-10

 1055, Ch. 132,012, .174,-10

 1055, Ch. 132,012, .174,-10

 1055, Ch. 132,012, .174,-11

 1056, Ch. 132,012, .174,-11

 1058, 1059, Ch. 10, 700,-100, .104

 1054, Ch. 102,702, ..., .173,-12

 1055, Ch. 103,702, ..., ..., .173,-12

 1058, Ch. 102,702, ...,, .201,-8

 1111,7,7 (Ch. 110

SIGNAL

 AF252
 37-19

 141
 44-21

 241
 33-25

 341-A
 39-23

 341-T
 25-25

SILVERLINE (See General Instrument) SILVERTONE (Also see Changer and Recorder Listing)

 151-16,
 151-17
 (Ch. 528.630-1)

 152, 16,
 164. (Ch. 549.102, 549.-102.2)

 159 (Ch. 478.309)
 115-11

 160-12 (Ch. 549.1004, 97A-12

 161-16 (Ch. 1040, 101, 97A-12

 162-17 (Ch. 10, 700-10)

 162-16 (Ch. 100, 720)

 164-14 (Ch. 478.337)

 165-16 (Ch. 478.337-A)

 164-17 (Ch. 478.337-A)

 164-17 (L, 477-14A (Ch. 547.01, -1)
 ●168-16 (Ch. 549.100-3)161—9 ●169-16 (Ch. 549.102, 549.102-2) •170-16 (Ch. 549.102, 549.102A) •173-16 (Ch. 110.700-10). **139**-13 •175-16, A (Ch. 549.100-5, -8, -9) **176-19** (Ch. 549.100-6). **161**--9 •177-19 (Ch. 10.700-40). **139**-13 •179-16, 180-16 (Ch. 132.890) **130**-12

NOTE: PCB Denotes Production Change Bulletin, Production Change Bulletin, Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

282-14 •4155H (Ch. 528.32201)...282 4243 (Ch. 488.22000)...278 4247 (Ch. 548.400-1)...281

www.americanradiohistory.com

111

SILVERTONE

SILVERTONE-Cont.

 SILVERTONE-Cont.

 ● (283) (Ch. 456.200.21) (See PCB 109—5et 257.1 and Model 3376 —5et 225.16)

 ● (285) (Ch. 456.200.21) (See PCB 109—5et 257.1 and Model 3376 —5et 225.16)

 > 5036 (Ch. 528.32400)... 283-11 5038 (Ch. 528.32401) (See Model 5036—5et 283.11)

 > 5034 (Ch. 528.32401)... 283-11 5042 (Ch. 528.32401)... 283-11 5042 (Ch. 528.32501) (See Model 4011—5et 28.25001)... 283-11 5042, (Ch. 528.32501) (See Model 5045, 5046 (Ch. 528.349001)

 > 5041, 5042 (Ch. 528.33000)... 288-8 5061, 5042, A (Ch. 101.861-1) (See Model 2050—5et 203.97)

 > 5100 (Ch. 528.33000), (See

■ 5100 (Ch. 528.31300, 244-17 ■ 5100A, AA (Ch. 528.33000) (See PCB 122-Set 276-1 and Model 5100-Set 264-17) ■ 5101 Ch. 528.31300) (See PCB 122 — Set 264-17) ■ 5101 (Ch. 528.31500) ...279-14 ■ 5101 (Ch.

• 5106-2 (Ch. 549.16002, 549.1 ■ 5106-2 (Ch. 549,16002, 549,16004) 289-10 ■ 5106A, AA, B (Ch. 528,33100) (See PCB 122-542 (Z6-1) and Madel 5100-Set 264-17) ■ 5107 (Ch. 528,31500)...279-14 ■ 5107a (Ch. 528,33800)...279-14 ■ 5107a (Ch. 528,33800). (See Model 5101-652,33800) (See Model 5101-652,33400, 528,31401) ■ 5110 (Ch. 528,31400, 528,31401)

The (Ch. 528.31400, 528.3140)
 TLOA (Ch. 528.32800) (See Model 5126A-581 264-17)
 TLOA (Ch. 528.32800) (See Model 5122-Set 276-1 and Model 5111 (Ch. 528.3020, -1) ...253-12
 TLIB (Ch. 528.3020, -1) ...253-12
 TLIB (Ch. 528.3020) ...279-14
 TL2A (Ch. 528.31400) ...279-14
 TL2A (Ch. 528.31200) ...279-14
 TL3 (Ch. 528.30201) (See PCB 100-Set 225-1 and Model 376 ...58t 225-16)
 TL3 (Ch. 528.31800, 528.31801)
 TL4 (Ch. 528.31800, 528.31801)
 TL4 (Ch. 528.31800) (See PCB 122-Set 276-1 and Model 5100 ...58t 224(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 224(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.34501) (See PCB 122-Set 276-1 and Model 5100 ...58t 264(-17)
 TL4C (Ch. 528.3400) (S

■ 5125 (Ch. 528,34200)... 279–14 5126 (Ch. 528,31400, 528,31401) 5126 (Ch. 528,31400, 528,31401) 51264 (Ch. 528,32800) (See PCB 122—Set 276-1 and Model 5126C, CC (Ch. 528,31800) (See PCB 122—Set 276-1 and Model 5100—Set 264-17) • 51226 (Ch. 528,31800) ... 279–14 • 5127 (Ch. 528,31800) (See PCB 122—Set 276-1 and Model 5100— Set 264-17) • 5128 (Ch. 528,31800) (See PCB 122—Set 276-1 and Model 5100— Set 264-17) • 5128 (Ch. 528,31900) (See PCB 122—Set 276-1 and Model 5100— Set 264-17) • 5128C, D (Ch. 528,31900) (See PCB 122—Set 276-1 and Model 5100— Set 264-17) • 5128C, D (Ch. 528,32900) (See PCB 122—Set 276-1 and Model 5100— Set 264-17) • 5128 (Ch. 528,31900) ... 279–14 • 5129 (Ch. 528,3400) ... 279–14 • 5120 (Ch. 528,32900) (See PCB • 222–54 276-1 and M

112

NOTE: PCB Denotes Production Change Bulletin.

SILVERTONE_Cont.

 Power Shifter
 15-30

 6950
 (Ch. 725.101-1) Tel.

 7020
 (See Model 7021—Set 16-31)

 7021
 (Ch. 101.807, 101.807A)

 7022
 (See Model 7021—Set 16-31)

 7023
 (Ch. 132.807.2)
 25-24

 7034
 (Ch. 101.807, 101.807A)

 7035
 (Ch. 101.807, 101.807A)
 16-32

 7080
 (Ch. 101.817)
 16-32

 7080
 (Ch. 101.817)
 16-32

 7080
 (Ch. 101.816A)
 30-27

 7085
 (Ch. 101.816A)
 30-27

 7095
 (Ch. 101.816A)
 15-32

 7095
 (Ch. 101.816A)
 15-32

 7095
 (Ch. 101.814A)
 30-27

 7102
 (Ch. 101.811A)
 17-27

 7103
 (Ch. 101.826)
 (See Model

 7111
 (Ch. 434.140)
 30-27

 7113
 (Ch. 101.825), 7116
 (Ch. 33

 7113
 (Ch. 101.825), 7116
 (Ch. 33

 7113
 (Ch. 431.188), 7148A
 (Ch. 32-21)

 7114
 (Ch. 431.88), 7148A
 2

 $\begin{array}{c} & 22-16\\ & 21-20\\ & 22-16\\ & 21-20\\ & 22-16\\ & 22-17\\ & 22$

 $\begin{array}{c} 7155 \ (Ch. \ 101.823.4, \ 1A1. \ 10-29\\ 7166 \ (Ch. \ 101.823, \ 101.823. \ 101.833. \ 101.$

9130 (Ch. 110.499-1) (See Model 9124-Set 79-16) 9131 [Ch. 478.210] 84–10 9132 [Ch. 110,499-1] (See Model 9124—Set 79-16]
 9124-581 79-16)

 9133, 9134 (Ch. 101.866 and Radio Ch. 101.859)

 9139, 9140 (Ch. 110.497-11)

 9139, 9140 (Ch. 110.497-11)

 9133, 9134 (Ch. 201.817 (Ch. 201.917)

 9133, 9134 (Ch. 101.850)

 9134, 9134 (Ch. 201.917)

 9137, 9140 (Ch. 101.850)

 9141 (Ch. 546.356)

 9270 (Ch. 547.245)

 9270 (Ch. 547.245)
 8083, 8083A (Ch. 101.809-1A) 58 20

58-20 8084, 8084A [Ch. 101.809-18] 58-20
 S8-20

 8056 (Ch. 101.814-5C)
 61-18

 80866A, 80868 (Ch. 101.814-6C)
 61-18

 8090 (Ch. 101.821)
 49-20

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

www.americanradiohistory.com

SUVERTONE-Cont

Diversion and the set of the se

SILVERTONE-Cont.

SILVERTONE-Cont. Ch. 110.466-1 (See Model 7103) Ch. 110.473 (See Model 8103) Ch. 110.479 (See Model 9123) Ch. 110.499 (See Model 9124) Ch. 110.709-1 (See Model 9124) Ch. 110.700-10 (See Model 116) Ch. 110.700-10 (See Model 117-19) Ch. 110.700-100 (See Model 1172-17) Ch. 110.700-120 (See Model 1181-20) Ch. 110.700-140 (See Model 1181-20)

Ch. 110.700-140 (See Model 1183-Ch. 110.700-150 (See Model 1183-

20) Ch. 110.700-150 (See Model 1183-21) Ch. 110.701-1 (See Model 1183-1171-17) Ch. 110.817-3 (See Model 2100A) Ch. 110.817-3 (See Model 2100A) Ch. 110.817-3 (See Model 105A) Ch. 110.820-3 (See Model 105A) Ch. 132.011 (See Model 105A) Ch. 132.011 (See Model 105A) Ch. 132.012 (See Model 2014) Ch. 132.012 (See Model 2014) Ch. 132.012 (See Model 2014) Ch. 132.024 (See Model 2015A) Ch. 132.024 (See Model 2105A) Ch. 132.025 (See Model 2052) Ch. 132.035 (See Model 3052) Ch. 132.035 (See Model 3052) Ch. 132.054 (See Model 3052) Ch. 132.035 (See Model 3052) Ch. 132.054 (See Model 3053) Ch. 132.054 (See Model 3054) Ch. 132.054 (See Model 3052) Ch. 132.054 (See Model 3052) Ch. 132.816 (See Model 3052) Ch. 132.816 (See Model 3052) Ch. 132.818 (See Model 3052) Ch. 132.818 (See Model 6002) Ch. 132.818 (See Model 6003) Ch. 132.825 (See Model 6005) Ch. 132.825 (See Model 6005) Ch. 132.827 (See Model 6005) Ch. 132.828 (See Model 100) Ch. 132.828 (See Model

Ch. 450. 150-81 (see Model 1200) Ch. 456. 200-11, -2, -3 (See Model 3389) Ch. 456. 200-11, -12, -13 (See Model 3360) Ch. 456. 200-21, -22, -23 (See Model 3360) Ch. 456. 200-43 (See Model 3364) Ch. 456. 200-43 (See Model 3364) Ch. 456. 200-43 (See Model 3364) Ch. 456. 31300 (See Model 2075) Ch. 456. 31400 (See Model PC-5100) Ch. 456. 31400 (See Model PC-5101)

Denotes Television Receiver.

SILVERTONE-Cont. Ch. 456.31600 [See Model PC-5112] Ch. 456.31700 [See Model PC-5106] Ch. 456.2800 [See Model PC-71343.155 [See Model 8155] Ch. 478.210 [See Model 8024] Ch. 478.210 [See Model 8024] Ch. 478.210 [See Model 8024] Ch. 478.213 [See Model 9116] Ch. 478.234 [See Model 916] Ch. 478.234 [See Model 125] Ch. 478.235 [See Model 125] Ch. 478.335 [See Model 125] Ch. 478.337 [See Model 125] Ch. 478.337 [See Model 125] Ch. 478.337 [See Model 126] Ch. 478.337 [See Model 126] Ch. 478.338 [See Model 126] Ch. 478.338 [See Model 150-14] Ch. 478.339 [See Model 150-SILVERTONE-Cont. Ch. 478.361, A (See Model 1150-14) Ch. 488.237 (See Model 237) Ch. 488.2300 (See Model 237) Ch. 488.2300 (See Model 243) Ch. 528.171 (See Model 225) Ch. 528.171 (See Model 225) Ch. 528.174 (See Model 215) Ch. 528.195, -1, -2 (See Model 1040) Ch. 528.196 (See Model 1042) Ch. 528.201, -1 (See Model 1032) Ch. 528.201, -1 (See Model 1032) Ch. 528.201 (See Model 1032) Ch. 528.201 (See Model 1032) Ch. 528.201 (See Model 1038) Ch. 528.201 (See Model 2028) Ch. 528.230 (See Model 2028) Ch. 528.242 (See Model 215) Ch. 528.242 (See Model 210) Ch. 538.242 (See Model 210) Ch. 538.242 (See Model 210) Ch. 528,247, -1, -2 [See Model 3110A] Ch. 528,247, -1, -2 [See Model 3171A] Ch. 528,247, -1, -2 (See Model 3171A) Ch. 528,247, -1 (See Model 3171A) Ch. 528,248, -1, -2 (See Model 3110) Ch. 528,249, -1 (See Model 3032) Ch. 528,253 (See Model 3032) Ch. 528,253 (See Model 3040) Ch. 528,254 (See Model 3043) Ch. 528,254 (See Model 3112A) Ch. 528,256 (See Model 312C) Ch. 528,254 (See Model 3120) Ch. 528,264 (See Model 3109) Ch. 528,264 (See Model 3217) Ch. 528.264-1, -2 [See Model 31108] Ch. 528.265 [See Model 3217] Ch. 528.265 [See Model 3115] Ch. 528.266 [See Model 4115] Ch. 528.266 [See Model 4127A] Ch. 528.270 [See Model 4127A] Ch. 528.270 [See Model 4127A] Ch. 528.270, -1, -2, -3, -4 [See Model 4108A] Ch. 528.290, -1 [See Model 4150D] Ch. 528.290, -1 [See Model 3103A] Ch. 528.291, -1, -2 [See Model 3103A] Ch. 528.291, -1, -2 [See Model 3103A] Ch. 578.291, -1, -2 (See Model 4111A) Ch. 528.292, -1, -2, -3 (See Model 41188) Ch. 528.297 (See Model 4126A) Ch. 528.297 (See Model 4126A) Ch. 528.300, -1, -2, -3, -4 (See Model 4140E) Ch. 528.303, -1 (See Model 4112) Ch. 528.304, -1, -2 (See Model 4041.8) Ch. 528.304, -1, -2 (See Model 4041, 8) Ch. 528.305 (See Model 4035) Ch. 528.306, -1, -2 (See Model 4025) Ch. 528,306, -1, -2 (See Model 4023) Ch. 328,307, -1 (See Model 4225) Ch. 328,308 (See Model 4210) Ch. 328,308 (See Model 4210) Ch. 328,311 (See Model 3040A) Ch. 328,431 (See Model 104-20) Ch. 328,431 (See Model 104-20) Ch. 328,431 (See Model 104-20) Ch. 528,431 (See Model 104-20) Ch. 528,432, -1, -2, -3, -4, -5) (See Model 2110A) Ch. 528,428, -1, -2, -3, -5 (See Model 2110A) Ch. 528,428, -1, -3 (See Model 6286) Ch. 528,428, -1, -3 (See Model 6287) Ch. 528,4295 (See Model 4295) Ch. 528,4295 (See Model 4205) Ch. 528,4295 (See Model 4205) Ch. 528,4205 (See Model 4205) Ch. Model 5100) 528.31400, 528.31401 (See Model Model 5100) 528.31400 (See Model 5101) Ch. 528.31500 (See Model 5101) Ch. 528.31500 (See Model 5102) Ch. 528.31700, 5528.31701 (See Model 5106) Ch. 528.31800, 528.31801 (See Model 5114) Ch. 528.31900, 528.31901 (See Model 5118) Ch. 528.32100, 528.32001 (See Model 41424) Ch. 528.32100 (See Model 5105) Ch. 528.32200 (See Model 5155) Ch. 528.32200 (See Model 5150) Ch. 528.32200 (See Model 5150) Ch. 528.32200 (See Model 5100A) Ch. 528.33101 (See Model 5100A) Ch. 528.33101 (See Model 5100A) Ch. 528.33101 (See Model 5100A) Ch. 528.33200 (See Model 5100A) Ch. 528.33101 (See Model 5100A) Ch. 528.33101 (See Model 5100A) Ch. 528.33200 (See Model 5100A) Ch. 528.33200 (See Model 5100A) Ch. 528.33100 (See Model 5100A) Ch. 528.33200 (See Model 510A)

SILVERTONE_Cont. Ch. 528.33900 (See Model: 5112A) Ch. 528.34000 (See Model: 5112A) Ch. 528.34001 (See Model: 5112A) Ch. 528.34001 (See Model: 5112A) Ch. 528.34001 (See Model: 5112C) Ch. 528.34000 (See Model: 5112C) Ch. 528.34200 (See Model: 5112C) Ch. 528.34200 (See Model: 5112C) Ch. 528.34300, 528.344301, S28.34304 (See Model: 5114C) Ch. 528.34000 (See Model: 5115C) Gh. 528.34000 (See Model: 5115C) Ch. 528.34000 (See Model: 5045) Ch. 538.34700 (See Model: 5045) Ch. 538.34700 (See Model: 5045) Ch. 548.3400 (See Model: 239) Ch. 548.3400 (See Model: 239) Ch. 548.301 (See Model: 239) Ch. 548.301 (See Model: 239) Ch. 548.301 (See Model: 131) Ch. 549.100 (See Model: 131) Ch. 549.100 (See Model: 130) Ch. 549.100.1 (See Model: 130) Ch. 757.100 (See Model: 130) Ch. 757.100 (See Model: 1300) Ch. 757.100 (See Model: 2007) Ch. 757.100 (See Model: 200 SILVERTONE-Cont. SIMPLON CA-5 22–27 WVV2 17–30 SKY KNIGHT (See Air Knight) SKYRIDER (See Hallicrafters) SKYROVER N5-RD-250 (9022-N), N5-RD-251 (9022-H) 6-31 N5-RD295 (Ch. 5A7) 21-30 SKY WEIGHT 81B 20-30 82 13-13 SONOGRAPH SONORA 8-23 23-24 19-29 27-27 32-23 36-22 25-27 37-20 33-28 24-25 36-23 34-20 37-21 RX-223 RX-223 ... WAU-243 WBRU-239 WCU-246 WDU-233 WDU-249
 WDU-249
 37-20

 WEU-240
 33-28

 WGFU-241, WGFU-242
 24-25

 WU-254
 36-23

 WKU-254A
 34-20

 WIRU-194A
 37-21

 WIRU-219A
 37-21

 WIRU-220A (See Model WLRU-219A-Set 37-21)
 WLRU-245A (See Model WLRU-219A-Set 37-21)

 WIRU-245A (See Model WLRU-219A-Set 37-21)
 WLRU-212-9
 .174-11 .249-16 .174-11 .250-19 .251-16 .249-16 .249-16 .173-13 .182-12 .251-16 .249-16 .249-16 .253-13 349 349 350, 351 352 356 366A 379 389, 390 467 470A 477, 478

SOUND, INC. "Intersound" MB6P3, MB6P6, MB6P30, MB6R4 35-21 28-31 28-31 MB7E3 MB7E8 5R2 26-24 28-32 SPARKS-WITHINGTON (See Sporton) PA (See Model 108W/o-ra-ser 15-34) 108W76-PA (Ch. 10-76PA). 15-34 0117210 (Ch. 230214). 255-14 012A204 (Ch. 230214). 255-14 012A210 (Ch. 230214). 255-14 012A210 (Ch. 230214). 255-14 012A210 (Ch. 230214). 255-14 012A204 (Ch. 230214). 255-14 012A203 (DA204 (Ch. 22V2145, 2302146). 288-9 012A203, 19A204 (Ch. 22V2145, 2302146). 288-9 23U214b) •19A203, 19A204 (Ch. 22V214b, 23U214B) •19A209, 19A210 (Ch. 22V214b, 22V214b, 288—9 1005, 1006, 1007, 1008 (Ch. 8-37) 29-25 1010 (Ch. 7/7). 25-22 1015 (See Model 108W767A-Set 15-34) 1020, 1021, 1023. 60-18 1030, 1030A (Ch. 618). 37-22 1031, A (See Model 1030-Set 37. 221 1035, 1035A, 1036, 1036A, 1037, 1037A, 1039, 1040, 1041 (Ch. 918). 62-19 • 4944, 4945 (ch. 37B10, 247B10)
 • 4951, 4952 (See Model 4900TV— Set 64.11)
 • 4954 (ch. 237C10)... 133.1A
 4960 (ch. 237C10)... 133.1A
 4960 (ch. 237C10)... 133.1A
 4960 (ch. 237B10), 157-11
 4770, 4971, 4972 (ch. 8510) 92--6
 5002, 5003 (ch. 237D10).102-13
 50065, 1007 (ch. 237D10)... 122-13
 5007X (ch. 257K10A)... 121-13
 5007X (ch. 257K10A)
 500X (ch. 257K10A)
 500X (ch. 257K10A)
 500X (ch.

 • 5077BA (See PCB 22—Set 138-1 and Model 5077—Set 128-13]
 • 5078
 • 128-13
 • 5079
 • 128-13
 • 5079
 • 128-13
 • 5079
 • 128-13
 • 5080
 • 128-13
 • 5080
 • 128-13
 • 5080
 • 128-13
 • 5080
 • 128-13
 • 5080
 • 128-13
 • 5080
 • 128-13
 • 5080
 • 128-13
 • 5082
 • 5082
 • 128-13
 • 6082
 • 128-13
 • 6082
 • 128-13
 • 6082
 • 128-13
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6082
 • 6104
 • 1128-13
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104
 • 6104</l 5165X, 5166X (Ch. 265D171)
 166-13
 5170, 5171 (Ch. 25SD201, 25D. 201)
 147-11
 5175X (Ch. 26SD171)
 166-13
 5182, 5183, 5188, 5189 (Ch. 265D. 170, P and Radio Ch. 8W10) (For TV Ch. see PCB 22—Set 138-13, for Radio Ch. see Model 141XX— Set 126-12)
 5191, 5192 (Ch. 25SD201, 2SD201)
 5191, 5192 (Ch. 25SD201, 2SD201)
 5192, 5203 (Ch. 26SD172, A)
 167-14
 5210 (Ch. 25SD172)
 167-14
 5210 (Ch. 25SD172)
 167-14
 5220 (Ch. 25SD172)
 167-14
 5223, 5233 (Ch. 21S172)
 167-14
 5263, 5233 (Ch. 25SD172)
 167-14
 5264, Ch. 26SD172)
 167-14
 5264, Ch. 26SD172)
 167-14
 5267, 5268 (Ch. 26SD172, A)
 167-14
 5270 (Ch. 25SD172)
 167-14
 5270 (Ch. 25SD20)
 78-11
 5298 (Ch. 25CD20)
 78-11
 5299 (Ch. 25D173)
 222-14
 5324 (Ch. 27D173)
 222-14
 5325 (Ch. 27D173)
 222-14
 5326 (Ch. 27D173)
 222-14
 5326 (Ch. 27D173)
 222-14
 5326 (Ch. 27D173)
 222-1

SILVERTONE-SPARTON

SPARTON-Cont.

SPARTON-Cont.

- SILV EKTONE 3FARTON.

 SPARTON.-Cont.

 • 5385 (Ch. 250213) (See PCB 104...

 • 51250-1 and Model 5342A.-Set

 210-11]

 • 5386 (Ch. 250213) (See PCB 104...

 • 5250-1 and Model 5342A.-Set

 210-11]

 • 5386 (Ch. 250213) (See PCB 104...

 • 5386 (Ch. 270213A). (See Model

 • 53878 (Ch. 270213A). (See Model

 • 53878 (Ch. 270213A) (See Model

 • 53878 (Ch. 270213A) (See PCB 104...

 • Say O (Ch. 250213) (See PCB 104...

 • Say O (Ch. 250213) (See PCB 104...

 • Say C(Ch. 270213 and Radio Ch.

 8W10) (For TV Ch. see Set 210.-11,

 • 10352 (Ch. 270213 and Radio Ch.

 8W10) (For TV Ch. see Model

 • 103533 (Ch. 270213 and Radio Ch.

 8W10) (For TV Ch. see Model

 • 103533 (Ch. 270213 and Radio Ch.

 8W10) (For TV Ch. see Model

 • 103533 (Ch. 270213 and Radio Ch.

 8W10) (For TV Ch. see Model

 • 1132 (Ch. 270213 And Radio Ch.

 • 10333 (Ch. 270213 And Radio Ch.

 8W10) (For TV Ch. see Model

 • 11324 (Ch. 215213A) (See

 • 11324 (Ch. 215213A) (See

 • 11324 (Ch. 215213A) (See
 </tr

2	3322	2333	23 iC	h. 29	2021	31	232	-8
• 2	4542	(Ch.	29U	273)			224	-13
• 2	5544	(Ch.	29U	273)			224	-13
÷2	6542	(Ch.	27D	273)			224	-13
• 2	6544	(Ch.	27D	273)			224	-13
	h. PC							
	PAI							

PA) Ch. 2RD190 [See Model 5085] Ch. 2SD201 [See Model 5170] Ch. 3TB10 (See Model 4944) Ch. 3TL10 [See Model 4916] 3AR1 Ch. 3TR10 [See Model 5532] Ch. 3TV9, 3TV9C [See Model 4900-TV] TV]

Ch. 451 (See Model 1301) Ch. 4510 (See Model 1301) Ch. 547 (See Model 1300) Ch. 5-06 (See Model 1300) Ch. 5-06 (See Model 1300) Ch. 5470 (See Model 1300) Ch. 5410, A (See Model 1300) Ch. 5361 (See Model 1300) Ch. 5362 (See Model 1302) Ch. 5362 (See Model 1301) Ch. 5362 (See Model 1301) Ch. 5362 (See Model 1303) Ch. 5480 (See Model 1303) Ch. 648 (See Model 1303) Ch. 648 (See Model 1301) Ch. 648 (See Model 1301) Ch. 648 (See Model 1030) Ch. 648 (See Model 1030) Ch. 648 (See Model 1030) Ch. 747 (See Model 1010) Ch. 747 (See Model 1010) Ch. 746 (See Model 1010) Ch. 840 (See Model 1010) Ch. 840 (See Model 1003) Ch. 840 (See Model 1003) Ch. 948 (See Model 1003) Ch. 1077PK (See Model 1003) Ch. 10710 (See Model 1003) Ch. 10717K (See Model 1003) Ch. 10717K (See Model 1003) Ch. 13173 (See Model 1009) Ch. 13173 (See Model 1009) Ch. 215134 (See Model 15301) Ch. 215134 (See Model 15301) Ch. 215134 (See Model 15301) Ch. 215134 (See Model 174203) Ch. 231748 (See Model 174204) Ch. 231748 (See Model 174204) Ch. 231748 (See Model 174204) Ch. 231748 (See Model 24720) Ch. 231748 (See Model 5002) Ch. 247194 (See Mod

Denotes Television Receiver.

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

253-13

NOTE: PCB Denotes Production Change Bulletin.

SPIEGEL-SYLVANIA

SPIEGEL (See Aircustle) STARK
 STARRETT
 101-12

 Gotham
 101-12

 Henry Hudson, Henry Parkt.
 92-7

 John Hancack
 96-10

 Nathan Hale
 87-12

 Robert E. Lee.
 92-7

 Al7CG-1 (Ch. 1751) (See Ch. 1751)

 -Set 165-2A)

 -AL7TG-1 (Ch. 1751) (See Ch. 1751)

 -Set 165-2A)

 -A20C-2 (Ch. 1851) (See Ch. 1851)

 -Set 165-2A)

 -A20TG (Ch. 1851) (See Ch. 1851)

 -Set 165-2A)

 -Set 165-2A)

 -A20TG (Ch. 1851) (See Ch. 1851)

 -Set 165-2A)

 -Set 165-2A

 STBELMAN
 STARRETT STEELMAN
 000
 163-11

 STEWART-WARNER
 ASITI (Code 9020-A), A.SIT2 (Code 9020-B), ASIT3 (Code 9020-C), ASIT4 (Code 9020-C), ASIT4 (Code 9020-C), ASIT4 (Code 9034-C), A61CR2 (Code 9034-C), A72T6 (Code 9034-C), A72T72 (Code 9036-C), A72T72 (Code 9036-C), A72T72 (Code 9036-C), A72CR2 (Code 9036-C), A72CR2 (Code 9036-C), A72CR3 (Code 9036-C), A72CR3 (Code 9038-C), A72CR3, A92CR3 (Code 9038-C), A72CR3, A92CR3, B72CR3 (Code 9034-C), A72T2 (Code 9054C), A71T1 (Code 9034-C), A72CR3, B72CR3 (Code 9034-C), A72CR3, B72CR3 (Code 9034-C), A72CR3, B72CR3 (Code 9034-C), S0-19

 B51T1, B51T2 (Code 9034A), A72T2

 B61T1, B61T2 (Code 9034A), A72CR3, B72CR3, B72CR3 STEWART-WARNER

e 217-9300A, AA, B, D, H, HA, R, RB, S, T (Series A H/HU T) 223-12 e 217-9340A, B, D, R, RB, S, T e 217-9600A, B, D,258-12 e 217-9600A, AB, D,264-14 e 24(2-9350A, AB (Series A, AB) e 24(2-9370A, AB (Series A, B, C) 211-15

114

NOTE: PCB Denotes Production Change Bulletin.

STEWART-WARNER-Cont STEWART-WARNER-Cont @27C-9310A, AB (Series A, AB) 27C-9330A, AB (Series A, AB) 254-11 \$1746 (Code 9024B), \$1756 (Code 9024-C), \$17146 (Code 9018-H), \$17176 (Code 9018-B) \$17176 (Code 9018-F), \$17176 \$17176 (Code 9018-B) \$17176 (Code ST. GEORGE (See Recorder Listing) STRATFORD 916, 917, 920, 921, 1016, 1017, 1020, 1021 (Ch. 6353, C). 219-11 STRATOVOX 579-58A

 379-58A
 6-32

 STROMBERG-CARLSON

 AM-43
 129-11

 AA-43
 129-11

 AA-43
 131-14

 AP-50
 130-13

 AP-60
 273-14

 AR-37A
 172-15

 AR-410
 194-12

 AR-410
 194-12

 AR-425
 199-12

 AU-32
 133-12

 AU-32
 133-13

 AU-32
 133-13

 AU-32
 135-10

 AU-32
 136-10

 AU-32
 136-10

 AU-32
 133-12

 AU-33
 136-10

 AU-34
 126-13

 AU-35
 237-11

 AU-36
 274-12

 AU-37
 239-14

 C-3
 271-14

 C-3
 270-16

 Hi Fi Et
 263-13

 SR-401
 270-16

 <t STROMBERG-CARLSON

■ 324CDM, 324CSM (Seriet 324) ■ 324CDM, 324CSM (Seriet 324) ■ 172-10 ▲ 1772, M, 417C5-0, 417C5-Dec, 417TX, ISeriet 417, 178-15 ▲ 21 Seriet (Revinde) ■ 179-13 ■ 321CSG, 921CSI, 521CSM, 921CSD, 321CSG, 921CSI, 521CSM, 921CSD, 321CSG, 921CSI, 521CSM, 921CSD, 321CSG, 921CSI, 521CSM, 921CSD, 321CSG, 921CSI, 521CSM, 923CSD, 321CSM, 921CSD, 921CSD, 400C, 921CSD, 921CSD, 400C, 921CSD, 921CSD, 400CSD, 921CD, 400CSD, 921CD, 400CSD, 400CSD STUDEBAKER
 STUDEBAKER
 166-15

 AC2111 (SS127)
 172-11

 AC2300 (S-5327)
 229-14

 AC-2300 (S-55231)
 213-8

 AC-2686 (S-5524) (See Model AC-2300-Set 229-14)
 AC-2721 (S-5524) (See Model AC-2300-Set 213-8)

 AC-2721 (S-5524) (See Model AC-2300-Set 229-14)
 Set 229-14)

 S-4624, S-5425 (See Model AC-2300-Set 229-14)
 21-32

 S-4624, S-4625 (See Model AC-25462, S-4627 (See Model AC-254626, S-4627 (See Model AC-254626, S-4627 (See Model AC-364626, See Model AC-364626, See Model AC-364626, See Model AC-364626, See Model AC-364626, SUPREME (Lipan)
 711
 68–17

 7125
 63–17

 733
 60–19

 738LP
 64–13

 750
 55–22
 SUTCO (Sutton) SWANK 5 Tube Radio-phono (DU101) 5-21 ER61 17-33
 SYLVANIA

 C33M Tel, UHF Conv.
 199-13

 SH728 (See Hudton Model 236486

 SH738 (See Hudton Model 236486

 SH739 (See Hudton Model 236486

 SH739 (See Hudton Model 236476

 Ser 213-4)

 SH739 (See Hudton Model 236476

 Ser 182-1)

 Ser 182-1)

 Ser 182-1)

 Ser 182-1)

 Ser 182-1)

 Ser 183-1)

 Ser 183-1)

 Ser 182-1)

 Ser 182-1)

 Ser 182-1)

 Ser 183-1)

 Ser 183-1)</ SYLVANIA

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

www.americanradiohistory.com

STROMBERG-CARLSON-Cont.

(Alto See PCB 107–Ser 235-1)
 (Alto See PCB 107–Ser 235-1)
 (Alto See PCB 107–Ser 235-1)
 (PCB 70–Ser 210-1)... 192–9
 (PCB 70–Ser 210-1)... 212–8
 (PCB 70–Ser 210-1)... 212–8
 (PCB 70–Ser 210-1).... 212–8
 (PCB 70–Ser 210-1)..

Denotes Television Receiver.

SYLVANIA-Cont.

SYLVANIA-TRAV-LER

Ch. TY, TZ (See Model TV-306) Ch. Series U (See Model 156) Ch. Series Y (See Model 160) Ch. 8001, 8002, 8003 (See Model TV-355)

22-29 20-32 20-33 22-28

TELE-VOGUE (See Muntz)

RP 27 JB-2W 27K-W 27-P-T

TELE-VAR (See Audar)

 TEMPLE

 F:301 21-35

 F:310 2-3

 F:310 11-26

 F:312 F:513

 F:311 11-26

 F:312 F:513

 F:310 2-3

 F:310</t

 THORDARSON
 8–31

 T-30 W08A
 8–31

 T-31 W10A
 30–30

 T-31 W10-Ax
 57–22

 T-31 W10-Ax
 57–22

 T-31 W50A
 9–33

 T-31 W50A
 20–34

 T-32 W00, T-32 W10
 76–18

(See Record Changer Listing)

 IRAD
 173-14

 C-2020, C-2420, CD2020
 173-14

 T-20, A
 133-14

 T-20-E
 165-17A

 T-1720
 173-14

 T-1853, A
 200-10

 TRANSVISION

 • Ch. Model A
 107-11

 • Ch. A-3
 130-15

 • Ch. A-4
 192-10

 • WRS-3
 112-10

WR5-3
 TRANSVUE
 17XC, 17XT (Similar to Chossis)
 122-8
 20XC, 20XT (Similar to Chossis)
 132-8
 132-8
 132-8

401 (Ch. 16AX23, 25, 26) (Similar to Chasis) 99-14
 4610 (Ch. 16AX23, 25, 26) (Similar to Chasis) 99-14
 4610 (Ch. 16AX23, 25, 26) (Similar to Chasis) 99-14
 14001 (Similar to Chasis) 132_-8
 92000C (Similar to Chasis) 132_-8

 Record Changer Listing)

 10T
 86-11

 12L50, A
 108-13

 12T
 86-11

 14B50, A, 14C50, A
 108-13

 16G50A
 108-13

 16F50A, 16750A
 108-13

 16G50A, 16750A
 108-13

 16G50A, 16750A
 108-13

 16G50A, 16750A
 108-13

 16G50A, 86750A
 108-13

115

Denotes Television Receiver.

TRAV-LER (Also see Record Changer Listing)

THORENS

TONE PAK

TRAD

TEMPLETONE (See Temple) THORDAR5ON

TELE-TONE-Cont.

TELEVOX

TEMPLE

TELE-TONE-Cont.

 TV-285
 87-13

 STV-285, 287, 288
 93-10

 STV-280, 7V-301
 (Ch. TAA, TAB)

 TV-300, TV-301
 (Ch. TV) 107-10

 STV-304, TV-305
 (Ch. TAA, TAB)

 $\begin{array}{c} | v_{-304}, \ v_{-305} \ (ch. \ v_{-1}, \ v_{-305} \ (ch. \ v_{-1}, \ v_{-305} \ (ch. \ v_{-305} \ v_{-306} \ v_{-305} \ (ch. \ v_{-305} \ v_{-305$

• TV-340 (Ch. TAP, LAPH, 127-12 • TV-345 (Ch. TAP, TAP-1, TAP-2) • TV-345 (Ch. TAP, TAP-1, TAP-2) • TV-348, TV-349 (Ch. TAP-2) (See Model TV-324—Set 127-12) • TV-355 (See Model TV-324—Set 127-12) • TV-355 (Ch. 8001, 8002, 8003) • TV-355 (Ch. 8001, 8002, 80

•TV-355 (Ch. 8001, 8002, 8003) •TV-357 (Ch. 8001, 8002, 8003) 145-11

 195 [Ch. Series ..., 259-20]
 59-20

 198
 ..., 259-20

 200 [Ch. Series ..., AZ''] (See Model)
 190-5st 61-19

 190 - Set 61-19
 201 [Ch. Series AX] ..., 74-9

 205 [Ch. Series BD] ..., 73-12
 ..., 127-11

 204 [Ch. Series BD] ..., 127-11
 ..., 127-11

Ch. TS (See Model TV-255) Ch. TW, TX (See Model TV-300)

8003)

1 1.35) 39-26

SYLVANIA-Cont.

- Diff Varua-Curr.

 3868 (Ch. 1-512-1)
 220-10

 3868 (Ch. 1-512-1)
 220-10

 3868 (Ch. 1-512-1)
 220-10

 3864 (Ch. 1-512-1)
 220-10

 3864 (Ch. 1-512-1)
 220-10

 3864 (Ch. 1-512-2)
 220-10

 3864 (Ch. 1-512-2)
 220-10

 3864 (Ch. 1-512-2)
 220-10

 3864 (Ch. 1-512-2)
 220-10

 3864 (Ch. 1-512-4)
 220-10

 3864 (Ch. 1-512-4)
 30

 390 (TU') Series (Ch. 1-520-5)
 23-4, -5, -6)

 390 (TU') Series (Ch. 1-520-4)
 (See PCB

 20 (Series-Set 234-13)
 420 (TU') Series (Ch. 1-520-5)

 300 Series-Set 234-13)
 420 (TU') Series (Ch. 1-520-5)

 300 (Ch. 1-524)
 100 (See PCB

 100 (TV Series Set 234-13)
 421 (TU') Series (Ch. 1-520-5)

 220 (TU') Series (Ch. 1-520-5)
 (See PCB

 100 (TV Series Set 234-13)
 430 (Ch. 1-224)

 100 (TV Series Set 234-13)</td

- Comparison of the second second

- - NOTE: PCB Denotes Production Change Bulletin.

SYLVANIA-Cont.

SYLVANIA-Cont.

SYMPHONETTE

TAPEMASTER

TELECHRON

TELECOIN

TELECRAFT

TELE-KING

 13)
 10C D3CR
 (For TV Ch. only set Model 162—Set 129-12)

 114
 141-13
 116, 116C
 141-13

 117, 117C, 117LO
 141-13
 117CA, CAR (For TV Ch. only see Model 117—Set 141-13)
 117CA, CAR (For TV Ch. only see Model 117—Set 141-13)

TELEQUIP (Also see Stratford) 5135, 5136, 5140A 11-24

 V-1/08
 00-15

 V/208TR
 95-16

 V/208TR
 95-16

 V/208TR
 95-16

 V/208TR
 95-16

 V/208TR
 95-16

 V/209 (See PCB 21-Set 136-1 ond Model TV-249-Set 57-21)

 V/2010 (See PCB 21-Set 136-1 and Model TV-249-Set 57-21)

 V/220
 95-66

 V/244 (Also see PCB 21-Set 136-1 35-21

 V/255
 91-13

 V/256
 91-13

 V/257 (See Model TV-249-Set 57-21)

 V/283 (See Model TV-285-Set 87-13)

 V/284
 93-10

93-10

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

\$6-22 83-12 90-11 95-6

TELESONIC (Medco)
 1635
 20-22

 1636
 21-33

 1642
 20-23

 1643
 21-34

TELE-TONE TV149 TV-170 TV-208

www.americanradiohistory.com

Ch. 1-603-1 (See Model 178B) Ch. 1-604-1 (See Model 433B) Ch. 1-605-1 (See Model 614B) Ch. 1-606-1 (See Model 454BR)

(Also see Recorder Listings)

TELECHRON 8H67 "Musalarm" 44-23

M5TS4 25-28

- TELECRAFT

 •30114A-056 (Similar to Chossis)

 38112A-058 (Similar to Chossis)

 31713 (Similar to Chossis)

 31874 (Similar to Chossis)

 31874 (Similar to Chossis)

 31874 (Similar to Chossis)

 31874 (Similar to Chossis)

 31876A (Similar to Chossis)

 31876A (Similar to Chossis)

 31876A (Similar to Chossis)

 31879A-900 (Similar to Chossis)

 31879A-910 (Similar to Chossis)

 31876A (Similar to Chossis)

 31879A-910 (Similar to Chossis)

 31879A-918 (Similar to Chossis)

 31879A-918 (Similar to Chossis)

 31870A-918 (Similar to Chossis)

 31870A-954 (Similar to Chossis)
 •231876A-954 (Similar to Chassis) 85-3 •231816A-734 (Similar to Chassis) •231879A-912 (Similar to Chassis) 78-4

Ch. 1-313-2 (See Model 33) Series) Ch. 1-513-3 (See Model 33) Series) Ch. 1-534-4 (See Model 33) "Series) Ch. 1-514-4 (See Model 105-14 Series) Ch. 1-514-4 (See Model 105-14 "U" Series) Ch. 1-514-5 (See Model 30) Series) Ch. 1-514-6 (See Model 30) "U" Series)

Series) 1. 1-518-1 (See Model 175-18
 Series;
 Series;

 Ch. 1-518-1 (See Mode: 175-18

 Series;

 Ch. 1-518-2 (See Mode! 175-18

 "U" Series;

 Ch. 1-518-3 (See Mode! 175-18

Ch. 1-518-5 (See Model 372 Series) Ch. 1-518-5 (See Model 372 Series) Ch. 1-518-6 (See Model 372 ''U''

Ch. 1-518-6 (See Model 37. 2 Series) Ch. 1-520-0 (See Model 326 Series) Ch. 1-520-1, -3 (See Model 120-20 "U" Series) Ch. 1-520-4 (See Model 321 Series) Ch. 1-520-6 (See Model 321 Series) Ch. 1-520-6 (See Model 321 Series) Series)

Model 510 Series) Ch. 1-522-1, -2, -3, -6 (See Model 5968) Ch. 1-527-1, -2 (See Model 511 Series) Ch. 1-530-1, -2, -3, -4, -5, -6 (See Model 410 Series) Ch. 1-601-2 (See Model 5138) Ch. 1-601-2 (See Model 5338) Ch. 1-601-4 (See Model 5638)

Ch. 1-601-3 (See Model 563B) Ch. 1-601-4 (See Model 568) Ch. 1-601-5 (See Model 5184) Ch. 1-602-1 (See Model 541B) Ch. 1-602-2 (See Model 543) Ch. 1-602-3 (See Model 543) Ch. 1-602-3 (See Model 593) Ch. 1-602-4, -5, -6, -7 (See Model 519)

Ch. 1-. 518}

- 2321M539A (Similar to Chassis) 226-11
 TELE-KING

 & K21 (Ch. TVJ)
 177-13

 & K72 (Ch. TVJ)
 177-13

 & K73 (Ch. TVJ)
 177-13

 & K73 (Ch. TVJ)
 177-13

 & K73 (Ch. TVJ)
 177-13

 & K74 (Ch. TVJ)
 177-13

 & K77 (Ch. TVJ)
 177-13

 & KC71 (Ch. TVJ)
 177-13

 & KD22B (Ch. TVJ)
 177-13

 & KD23B (Ch. TVJ)
 177-13

 & KD24B (Ch. RO-1)
 203-11

 RK41 (Ch. RO-1)
 203-12

 RK91A
 202-9

 T-516 (See Model 114-Set 141-13)

TRAV-LER-WESTINGHOUSE

TRAV-LER-Cont.

5300 5301 5305

5310 5372

6040 6050

 Construction
 Construction

 6040
 542-33

 6053
 (See Model 6050--Set 56-23)

 6053
 (See Model 6050--Set 56-23)

 70003
 (Ch. 501)
 12-29

 7014
 59-21

 7003
 (Ch. 501)
 12-29

 7014
 59-21

 7003
 (Ch. 501)
 12-29

 7014
 59-21

 7015
 (Ch. 501)
 12-29

 7014
 59-21
 7003

 7015
 84-11
 7023

 7016
 7017
 84-11

 7023
 83-13
 7003

 7033
 (Ch. 3142)
 See Model 217-151

 Ch. 3142 (See Model 217-151
 Ch. 3462 (See Model 217-271)

 Ch. 3642 (See Model 217-271)
 Ch. 3642 (See Model 217-271)

 Ch. 4643 (See Model 217-271)
 Ch. 4643 (See Model 217-271)

 Ch. 4644 (See Model 217-471)
 Ch. 4643 (See Model 217-471)

 Ch. 4643 (See Model 317-471)
 Ch. 4643 (See Model 317-471)

 Ch. 4643 (See Model 317-471)
 Ch. 4643 (See Model 317-471)

 Ch. 4643 (See Model 317-471)

Ch. 49A4, 49D4 [See Model 3 47U9] Ch. 104 [See Model 5007] Ch. 104 [See Model 5010] Ch. 105 [See Model 5010] Ch. 501 [See Model 7003] Ch. 511A4 [See Model 317-56] Ch. 511A4 [See Model 321-75] Ch. 800 (See Model 5021]

 01990 (See Model D293--Set 68: 18)

 18)

 18)

 D2017, D2018

 104-15

 D2020

 106-15

 D2020, Market

 D2017, D2018

 D2017, D2018

 D2020, Market

 D2020, Market

 D2020, Market

 D2016A, B

 D2016A, B

 D2016A, B

 D2014A, D2109A

 D2145, D2109A

 D2214A, D2019A

 D2224A

 D2225, 204

 D2226, D109A

 D2226, D109A

 D2225, 204

 D2226, D109A

 D2226, D209A, D109A

 D2227A, B

 D2235, D2235, D224, 204-10

 D2235, D238, D238, D238, 230-13

 D2380, D2387, D2388, 230-13

 D2380, D2411A, D2412A, D2413A, D2413A, D2413A, D2413A, D2413B, D2413B,

 D2630 (Factory 2/D14-602) issue A)

 1-10

 D2634

 12-31

 D2640 (Factory No. 459)

 D2642

 D2644 (Factory No. 101C)

 11-30

 D2645

TRAV-LER-Cont,

Set 268-1 and Model 217-15-	-
Set 170-14)	

 TRUETONE-Cont.

 202313G (Ch. 1715)
 249-19

 202314A
 204-11

 202314B (See PCB 117—Set 269-1
 ond Model 202314A—Set 204-11

 202315A
 224-17

 202321A (See PCB 117—Set 269-1
 ond Model 202321A—Set 204-11

 202315A
 224-17

 202321A (For TV See PCB 117—Set 269-1
 ond Model 202321A—Set 204-11

 > Set 204-11, For UHF Tuner See Model 203315A—Set 204-11, For UHF Tuner See Model 20305000—Set 221-12
 2023228 (See PCB 117—Set 269-1

 > Set 204-11, For UHF Tuner See Model 20333A, B
 203-14

 2023224 (Ch. 21714)
 249-19

 202415A (Ch. 21714)
 249-19

 2024226 (Ch. 1774)
 249-19

 2024233A (See PCB 98—Set 243-1
 and Model 201208—Set 243-1

 and Model 201208—Set 243-1
 and Model 201208—Set 243-1

 and Model 201208—Set 243-1<

UNITED MOTORS SERVICE (See Delco or Buick, Cadillac, Chev-rolet, Oldsmobile and Pontiac)

UNIVERSAL CAMERA (See Record Changer Listing) UTAH (See Record Changer Listing)

 Num (Allo Stanger Listing)

 110
 191-19

 121
 242-11

 131
 283-14

 150
 139-15

 150
 231-20

 160
 187-13

 555.M.
 225-13

 556.0
 270-17

 560.8
 269-15

 972
 203-15

 980
 138-12

 985
 166-16

 986
 247-14

 1001.A
 10-34

 VANLCAMP
 10-34

576-1-6A 7-29 VIDEO CORP. OF AMERICA (See Videolo)

•10FM, 10TV, 12FM, 12TV ... 69-15 VIDEOLA

 VIDED
 PRODUCTS

 (Also see Sheraton)
 630-bX Series
 213-10

 630-bX C
 176-13
 776-13

 630-bX24C
 176-13
 630-kX24C

 630-kX24C
 176-13
 630-kX24C

RC-201A, RRC-201 11-32 VISION MASTER

VISION MASTER 14MC, MT (Similar to Chassis) 117—8 16MC, 16MT, 16MXC, 16MXCS, 16MXT, 16MXTS (Similar to Chas-sis) 17MC, 17MT, 17MXC, 17MXCS, 17MXT, 17MXTS (Similar to Chas-sis) 117—8 VI7

VOCATRON

VOGUE

2000 (Tel. UHF Conv.) 261-16

WARWICK (See Clarion)

11-33 8-32

532 A-P Ch. Models 533R, 554R...

V-M (Also see

VAN-CAMP

VIDEODYNE

VIEWTONE

VIZ

WALSCO

VIDEO PRODUCTS

Record Changer Listing)

U. S. TELEVISION

 TRUETONE-Cont.

 D2661 (Factory 4B19)
 2-23

 D2663 (Ch. AC1)
 11-31

 D2665 (Factory 4B14 Series A)

 D2692
 29-3

 D2709 (Factory Na. 470)
 27-30

 D2709 (Factory Na. 470)
 23-31

 D2718 (Factory No. 227D14-6381U)
 23-32

 2813
 48-25

 2813
 38-26

 2814
 38-25

 28231
 38-26

 29266
 (Factory No. 189).

 29207
 69-14

 29206
 (Factory No. 189).

 29203
 69-14

 29204
 73-13

 29293
 68-16

 292943
 68-16

 29295
 70-11

 292983
 69-13

 3120A
 203-13

 3120A
 203-13

 3120A
 203-13

 3120A
 203-13

 3120A
 203-13

 3120A
 203-13

 3120A
 203-12

 3130A, B
 203-13

 3120A
 203-13

 3120A
 203-13

 3120A
 203-13

 3120A
 203-12

 3130A, B
 203-12

 31405 (Factory 25D-260-01
 16-33

 31405 (Factory 25D-260-01
 16-33

 31406 (Factory 1008.)
 32-22

 3141 (Fact. No. 125D-260-01

 154-13)

 2011856
 154-13

 2011856
 154-13

 2011856
 154-13

 2011856
 158-561 154-13

 2011856
 158-561 154-13

 2011856
 158-561 154-13

 2011856
 158-561 154-13

 201190A, B
 147-12

 201190A, C, D E ISC
 185-14

 2012308
 185-51 154-13

 2012308
 185-51 154-13

 2012308
 185-51 154-13

 2012308
 185-51 154-13

 2012308
 185-51 154-51

 185-141
 102336 (C, D, E ISC

 201330
 20-71

 201354
 20, C, D, E ISC

 201355
 20, C, D, E ISC

 201356
 20-71

 201356
 20-71

 201356
 20-71

 201355
 20-71

 201356
 20-71

 201357
 20-41

 201358
 20-71

 2013258
 20-41

 2013254
 20-41

 2013254
 20-41

 2013254
 20-41

 2013255
 220

www.americanradiohistory.com

NOTE: PCB Denotes Production Change Bulletin. Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

TRUETONE-Cont.

223-13 224-15 260-15 243-12 246-10 49-25 56-23

WATTERSON

WAVEFORMS

WEBCOR

ARC-4591A PA-4585, APA-4587 RC-4581

rA-4383, APA-4587 RC-4581 4581 4582 4782 4782 4790 4800

A-20 C-5

(See Webster-Chicago)

 WEBCOR (See Webster-Chicago)

 WEBSTER-CHICAGO (Also see Changer and Recorder Listings)

 B-123-1
 204-12

 8-123-1
 205-12

 B-135-1
 210-14

 B-135-1
 210-14

 B-135-1
 207-12

 D-300-1
 255-16

 F-123-1
 204-12

 F-133-1
 205-12

 F-134-1
 205-12

 F-134-1
 207-12

 G6:1A
 34-26

 100-621
 113-11

 130
 119-13

 130-1
 207-12

 G6:1A
 34-26

 100-621
 113-11

 130-1
 119-13

 130
 119-13

 1231, 333-2
 250-22

 362
 105-12

 762
 105-12

 1034 (See Model B-134-1-Set
 205-12

 1034 (See Model B-134-1-Set
 210-14

 1033 (See Model B-135-1-Set
 210-14

 1033 (See Model B-13-1-Set
 210-14

 1033 (See Model B-13-1-Set
 210-14

 1033 (See Model B-13-

1036 (See Model B-136-1--Set 207-12) WEBSTER ELECTRIC (Also see Recorder Listing)

 34.23
 145.12

 85.25
 144.14

 605M, S, 606M, S
 260-17

 610M, S
 260-17

 906
 231-18

 1105M
 226-10

W606M 56-24 604M 57-23

 WELLS-GARDNER

 WG-30A8-A-496
 246-12

 3770534C-218 (Also See PCB 84-Set 225-1)
 198-12

 387252-220 (Also See PCB 84-Set 225-1)
 198-12

 387252-220 (Also See PCB 84-Set 225-1)
 198-12

 3212449-A-426
 278-13

 321AM49-A-470
 278-13

 321AM49-A-426
 278-13

 321AM51-A-436
 268-16

 321AM51-A-426
 268-16

 321AM51-C-272, -274
 194-14

 321AM51-260, -282, -284 194-14
 321MS31C-272, -274

 321MS31C-272, -274
 194-14

 321MS31C-276, -276, -194-14
 321MS31C-276, -276, -194-14

 321MS31C-276, -276, -194-14
 321MS31C-276, -276, -194-14

 321MS31C-276, -276, -194-14
 321MS31C-276, -276, -194-14

 321MS31C-276, -194-14
 321MS31C-276, -194-14

 321MS31C-260, -194-14
 -264-11

 321MS31S-488
 288-11

 <

WESTERN AUTO (See Truetone) WESTINGHOUSE (Also see Record Changer Listing)

 Record Changer Listing)

 H-104, H-105...
 4-11

 H-104A, H-105...
 H-107A, H-108A

 Lee Set 21-36 and Model H-104...
 Set 4-11

 Set 41.103...
 H-107A, H-108A

 H-107...
 H-107A, H-108A

 H-107...
 H-107A, H-108A

 H-107...
 H-107A, H-108A

 H-107...
 H-116 (See Model H-112A, H-116 (See Model H-127A, B (See Model H-122-...Set 6-35)

 H-127...
 G-35

 H-127...
 G-35

 H-127...
 G-35

 H-127...
 G-35

 H-128...
 H-126

 H-127...
 G-35

 H-128...
 H-127

 H-137 (See Model H-138...
 See 4...

H-133 H-137 (See Model H-138—Set 6-36) H-138 6-36 H-147 31-33 H-148 15-37 H-148A (See Model H-148—Set 15-

 International
 Internat

Denotes Television Receiver.

WEBSTER (Telehome)

WELLS-GARDNER

16-36 3-2 16-35 3-32 6-34 24-31 16-34

43-23

191-20 191-20

116

WESTINGHOUSE

WESTINGHOUSE-Cont, H-829TU21 (Ch. V-2273-122, -134) 253-17 H-830K21 (Ch. V-2263-11, -12, -13, -14) 253-17 H-830K21 (Ch. V-2273-111, -12, -124, -132, -134) 253-17 H-831K21 (Ch. V-2263-21) 253-17 H-831K21 (Ch. V-2263-22) 253-17 H-835K21 (Ch. V-2263-23) 253-17 H-835K21 (Ch. V-2263-15) 253-17 H-835K21 (Ch. V-2263-15) 253-17 H-835K21 (Ch. V-2263-15) 253-17 H-835K21 (Ch. V-2263-15) [See Model H-769721-Set 253-17] H-835K21 (Ch. V-2263-15) [See Model H-769721-Set 253-17] H-835K21 (Ch. V-2273-122) H-835K21 (Ch. V-2263-15) [See Model H-769721-Set 253-17] H-835K21 (Ch. V-2273-122) [See Model H-769721-Set 253-17] WESTINGHOUSE-Cont. 274-16 H-854K24 (Ch. V-2314-15, -25) 274-16 H-854K24 (Ch. V-2314-15, -25) -274-16 H-861T21 (Ch. V-2323-101, -122, -124, -201, -301) (Also See PCB 127-5e1 286-1) ...270-18 H-862T21 (Ch. V-2323-101, -122, -124, -201, -301) (Also See PCB 127-5e1 286-1) ...270-18 H-862T21 (Ch. V-2313-15, -25, -35) [Also See PCB 127-5e1 286-1] ...270-18 H-862T21 (Ch. V-2313-15, -25, -35] [Also See PCB 127-5e1 286-1] ...270-18 H-862T21 (Ch. V-2313-15, -25, -35] [Also See PCB 127-5e1 286-1] ...270-18 H-863T212 (Ch. V-2233-10], 122, -124, -201, -301) (Also See PCB 127-5e1 286-1) ...270-18 H-863T212 (Ch. V-2233-10], 122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T21 (Ch. V-2233-13], [See Model H-769T21-5e1 253-17] H-864T21 (Ch. V-2233-10], 122, -35] (Also See PCB 127-5e1 270-18 H-864T21 (Ch. V-233-10], 122, -35] (Also See PCB 127-5e1 270-18 H-864T21 (Ch. V-2323-10], 122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T21 (Ch. V-2323-10], 122, -35] (Also See PCB 127-5e1 270-18 H-864T21 (Ch. V-2323-10], 122, -35] (Also See PCB 127-5e1 270-18 H-864T21 (Ch. V-2323-10], 122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T2121 (Ch. V-2323-10], 122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T2121 (Ch. V-2323-10], 122, -124, -201, -301) (Also See PCB 127-5e1 270-18 H-864T2121 (Ch. V-2323-10], 122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T2121 (Ch. V-2323-10], 122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T2121 (Ch. V-2323-10], 122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T2121 (Ch. V-2323-10], 122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T2121 (Ch. V-2323-10], -122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T2121 (Ch. V-2323-10], -122, -124, -201, -301) (Also See PCB 127-5e1 286-1] ...270-18 H-864T2121 (Ch. V-2323-10], -122, -124, -201, -301) (Also See PCB 127-5e1 -124, -201, -301) (Also See PCB 127 127—Ser 286-1) 270—18 H-865121 (Ch. V-2313-15, -25, -35) 270–18 H-865121 A (Ch. V-2263-33) (See Model H-769721—Ser 253-17 H-865121, B (Ch. V-2313-15, -25, -35) (Also See PC 123) H-86512121A (Ch. V-273-324) (See Model H-7697121—Ser 253-17) H-86512121A (Ch. V-273-324) (See

Model H.765TU21--Set 253-17) H.865TU21 (Ch. V-232-3101, 1:22, 1-24, -201, -201) (Airo See PCB 127--Set 286-1) - 270-18 H.865TU218 (Ch. V-2323-101, -122, -124, -201, -301) (Airo See PCB 127--Set 286-1) - 270-18 H.866T21 (Ch. V-2313-15, -25, -35) (Airo See PCB 127--Set 286-1) - 270-18 H.866T21A (Ch. V-2253-35) (See Model H.769T21--Set 253-17)

Denotes Television Receiver

WESTINGHOUSE-Cont.

WESTINGHOUSE-Cont.
 H-715K21 (Ch. V-2217.4, -5) 202-10
 H-715K21 (Ch. V-2210.2) 193-12
 H-720K21 (Ch. V-2210.2) 193-12
 H-720K21 (Ch. V-2217.7, -3) (See 177.1, PCB 52-See 186-1 and wodel H-667117-Set 167.15)
 H-720K21 (Ch. V-2217.2, -3) (See PCB 40-Set 172.1, PCB 43-Set 177.1, PCB 52-Set 186-1 and wodel H-667117-Set 167.15)
 H-721K21 (Ch. V-2217.2, -3) (See 177.1, PCB 52-Set 186-1 and wodel H-667117-Set 167.15)
 H-721K21 (Ch. V-2217.2, -3) (See 177.1, PCB 52-Set 186-1 and wodel H-667117-Set 167.15)
 H-721K21 (Ch. V-2217.2, -3) (See 177.1, PCB 52-Set 186-1 and wodel H-667117-Set 167.15)
 H-722K21 (Ch. V-2217.2, -3) (See 177.1, PCB 52-Set 186-1 and wodel H-667117-Set 167.15)
 H-722K21 (Ch. V-2217.2, -3) (See 177.1, PCB 52-Set 186-1 and wodel H-667117-Set 167.15)
 H-722K21 (Ch. V-2217.2, -3) (See 177.1, PCB 52-Set 186-1 and wodel H-667117-Set 167.15)
 H-722K21 (Ch. V-2217.2, -3) (See 177.1, PCB 52-Set 186-1 and wodel H-667117-Set 167.15)
 H-722K21 (Ch. V-2217.2, -3) (See 177.1, PCB 52-Set 186-1 and wodel H-667117-Set 167.15)
 H-722K21 (Ch. V-2217.2, -3) (See 177.1, PCB 52-Set 186-1, and wodel H-667117-Set 167.15)
 H-722K21 (Ch. V-2217.4, -5)
 H-722K21 (Ch. V-2217.4, -5)
 H-722K21 (Ch. V-2217.4, -5)
 H-722K21 (Ch. V-2217.4, -5)
 H-722K21 (Ch. V-2217.4, -5)

H-723k21 (Ch. V-2217-5), 202-10
 H-7204C20, H-725120 (Ch. V2220-2)
 H-730621 (Ch. V-2218-1 and Radia Ch. V-2180-9, -10)
 H-730621 (Ch. V-2218-2 and Radia Ch. V-2180-9, -10) (Also see PCB 59—5et 193-1 and PCB 68—Set 205-1)
 H-730621 (Ch. V-2218-11 and Radia Ch. V-2180-9, -10) (Also see PCB 59—Set 193-1 1, 190-16
 H-732621 (Ch. V-2218-11 and Radia Ch. V-2180-9, -10) (Also see PCB 59—Set 193-1 1, 190-16
 H-732621 (Ch. V-2218-1 and Radia Ch. V-2180-9, -10), -1190-16
 H-732621 (Ch. V-2218-11 and Radia Ch. V-2180-9, -10), -1190-16
 H-732621 (Ch. V-2218-11 and Radia Ch. V-2180-9, -10), -1190-16
 H-732621 (Ch. V-2218-11 and Radia Ch. V-2180-9, -10) (Also see PCB 59—Set 193-1), ...190-16
 H-732612 (Ch. V-2218-11 and Radia Ch. V-2180-9, -10) (Also see PCB 59—Set 193-1), ...190-16
 H-732612 (Ch. V-2218-11 and Radia Ch. V-2180-9, -10) (Also see PCB 59—Set 193-1), ...190-16
 H-73717 (Ch. V-2212-1) (Also see PCB 59—Set 193-1), ...190-16
 H-73717 (Ch. V-2212-1), 214-10
 H-737117 (Ch. V-2221-1), ...190-16
 H-737117 (Ch. V-2222-1), ...190-16
 H-737117 (Ch. V-2227-1) (Also see PCB 59

PCB 89—Set 233-1) ... 214-10 H-39117, H-395117 (Ch. V-2227. 2) ... 214-10 H-7401721, H-747k21, H-743k21 (Ch. V-2233.1) (Also See PCB 99 —Set 244-1) ... 212--9 H-746K21, H-746KU21, H.747K21, H-747KU21 (Ch. V-2233.2) 212--9 H-7511721 (Ch. V-2233.2) 212--9 H-751K21 (Ch. V-2233.2) 212--9 H-753K21 (Ch. V-2233.2) 212--9 H-755K21 (Ch. V-2217.4, -5) H-756K21 (Ch. V-2217.

eH-757K21 (Ch. V-2217-4, -5) 202-10
 eH-755K21 (Ch. V-2233.2) 212--9
 eH-756K21 (Ch. V-2233.2) 212--9
 eH-756K21 (Ch. V-2233.2) 212--9
 eH-756K21 (Ch. V-2233.2) 212--9
 eH-756K21 (Ch. V-2233.2) 212--9
 eH-7567K21 (Ch. V-2233.2) 212--9
 eH-7607U21 (Ch. V-2263.2) 23-17

 253-17

 H-770121A [Ch. V-2263-12] 253-17

 H-7701U21A [Ch. V-2263-12] 253-17

 H-771121A [Ch. V-2263-12] 253-17

 H-771121A [Ch. V-2263-12] 253-17

 H-771121A [Ch. V-2263-12] 253-17

 H-771121A [Ch. V-2263-12] 253-17

 H-721121A [Ch. V-2263-12] 253-17

 H-721121A [Ch. V-2263-12] 253-17

 H-721121A [Ch. V-2263-12] 253-17

 H-7364U21 [Ch. V-2273-122] 253-17

 H-7864U21 [Ch. V-2273-122] 253-17

H-786KU21 (Ch. V-2273-122)
 TSJ-17
 H-787K21 (Ch. V-2263-12) 253-17
 H-787K021 (Ch. V-2263-12) 253-17
 H-795127, H-7951027 (Ch. V-2273-122)
 H-795127, H-7951027 (Ch. V-2260-12)
 H-798117 (Ch. V-2260-12, 21-12)
 H-798117 (Ch. V-2260-12, 21-12)

41-798117 (Ch. V-2260-12, -14)
 41-7981017 (Ch. V-2260-12, -14)
 41-7981017 (Ch. V-2270-122, -124)
 41-799117 (Ch. V-2260-12, -14)
 41-799117 (Ch. V-2210) 281-10
 41-7991107 (Ch. V-2210, 281-10)
 41-791107 (Ch. V-2210, 281-10)
 41-701107 (Ch. V-210, 281-10)
 41-70107 (Ch. V-210, 28

■-799117, B (Ch. V-2310), 281-10
 ■-79971017 (Ch. V-2270-122, -124)
 ■-79971017, B (Ch. V-2320) 281-10
 H-802 (Ch. V-11900-1, -2, -3, -4, -5, V-11213) Tel. UHF Conv.
 209-13
 H-815724, H-8157U24 (Ch. V-2250-1), -241-12
 ■-817K24, H-817KU24 (Ch. V-2250-1), -241-12
 ■-817K24, H-817KU24 (Ch. V-2250-1), -241-12
 ■-827K21 (Ch. V-2263-12), 253-17
 ■H-827K21 (Ch. V-2263-12), 253-17

H-827TU21 (Ch. V-22/3-12)
 S3-17
 H-828T21 (Ch. V-2263-12, -13, -14, -15)
 S3-17
 H-828TU21 (Ch. V-2273-122, -134)
 Ch. V-2273-122, -134

WESTINGHOUSE-Cont.

WESTINGHOUSE-Cont. H-376P4 (Ch. V-2182-1 and H-377 Optional Power Supply). 188-14 H-377 (Power Supply) (See Set 188-14 or Set 233-12) H-37875, H-37915, H-38015, H-38115 (Ch. V-21841)...21)-17 H-38215, H-38315 (Ch. V-2157-10) H-38455 (Ch. V-2157-10) (See Model H-38215-Set 215.14) H-38515, H-38015 (Ch. V-2157-11) H-38515, H-38015 (Ch. V-2157-11) H-38615 (Ch. V-2157-12), 215-15 H-38615 (Ch. V-2157-12), 215-15 H-39715, (Ch. V-2157-12), 215-15 H-39715, (Ch. V-2181-2), 210-15 H-3

H-39316 [Ch. v-210-2] H-39715, (H-39875 [Ch. V-2184-2] H-400P4, H-401P4, H-402P4, H-403P4 [Ch. V-2164-2], 205-13 H-405P5 [Ch. V-2154-2], 205-13 H-405P5 [Ch. V-2154-2], 205-13 H-405P5 [Ch. V-2157-14] [See Model H-39115-Set 231-19] H-405P4, H-410P4, H-411P4 [Ch. V-2185-1 Power Supply], 233-12 H-414P4, H-415P4 [Ch. V-2182-2] H-414P4, H-415P5 [Ch. V-2186-1] H-42075, H-42115 [Ch. V-2187-13] H-425P4 [Ch. V-2185-1], 228-1 H-42575, H-42115 [Ch. V-2187-13] H-42574 [Ch. V-2185-1], 228-1 H-43575, H-43575 [Ch. V-2187-13] H-4

H-46086, H-46686 (ch. V-229-2) 269-16 H-46786, H-46886 (ch. V-229-3) 269-16 H-469812, H-470812 (ch. V-2180-13 and V-2235-1) -271-17 H-47115, H-47215, H-47215, H-47415 (ch. V-2184-5), 279-15 H-4755, H-47215, H-47215, H-47475 (ch. V-2184-5), 279-15 H-4755, H-47215, H-47215, H-47475 (ch. V-2184-5), 279-15 H-4755, H-47215, H-47215, H-47715 H-4755, H-47215, H-47715, H-47715 H-4755, H-47615, H-47715 H-4755, H-47615, H-47715 H-4755, H-47615, H-47715 H-4755, H-47615, H-47715 H-4755, H-47615 H-4755, H-47615 H-4755, H-47615 H-4755, H-47615 H-4755, H-47615 H-4755, H-47615 H-4755, H-47715 H-47715

H 47115, H 47215, H 47715, H 47415 (Ch. V-2184-5)...279-15 H 47515, H 47615, H 47715, H 47815 (Ch. V-220-1) 266-20 H 47974 (Ch. V-2182-2)...257-19 H 480C12 (Ch. V-2180-13° and V-2235-1)227-17 H 48275 (Ch. V-2229-5). 286-12 H 48075 (Ch. V-2229-5). 286-12 H 48075 (Ch. V-2229-5). 286-12 H 48075 (Ch. V-2236-2)...282-16 H 48075 (Ch. V-2236-2)...282-16 H 48075 (Ch. V-2236-2)...282-16 H 48075 (Ch. V-2150-5), A. BI 98-14 H -00116 (Ch. V-2150-5), A. BI 98-14 H -00116 (Ch. V-2150-5), A. BI 98-14 H -00112 (Ch. V-2150-5), A. 94, -94A) (See Set 99A-14 and Model H -005712 (Ch. V-2150-11), A) H -005712 (Ch.

WESTINGHOUSE-Cont.

WE31 Inter (Ch. V-2200-1) (Also see PCB 42—Set 176-1) ... 154–15
 H-649117 (Ch. V-2192-4) (See Mod-el H-639117 (Ch. V-2192-4) (See Mod-el H-639117 (Ch. V-2192-4) (See Mod-el H-639117 (Ch. V-2192) (See Model H-6392) (Ch. V-2191) (Also see PCB 42—Set 176-1) ... 154–15
 H-63502 (Ch. V-2191) (Also See PCB 42—Set 176-1) ... 154–15
 H-63502 (Ch. V-2191) (Also See PCB 42—Set 176-1) ... 154–15
 H-63502 (Ch. V-2191) ... 154–15
 H-63502 (Ch. V-2201-1) (Also See PCB 42—Set 176-1) ... 154–15
 H-63502 (Ch. V-2201-1) (Also See PCB 43—Set 137-16)
 H-63502 (Ch. V-2192-2, 34–34)
 H-635017 (Ch. V-2202-1) (Also See PCB 42—Set 150-1 and Model H-639117—Set 133-15)
 H-636217 (Ch. V-2201-1) (Also See PCB 442—Set 176-1) ... 154–15
 H-636217 (Ch. V-2201-1) (Also See PCB 442—Set 176-1) ... 154–15
 H-636217 (Ch. V-2201-1) (Also See PCB 442—Set 176-1) ... 154–15
 H-636217 (Ch. V-2202) (Also See PCB 442—Set 176-1) ... 154–15
 H-636217 (Ch. V-2202) (Also See PCB 442—Set 176-1) ... 154–15
 H-636217 (Ch. V-2202) (Also See PCB 442—Set 176-1) ... 154–15
 H-636217 (Ch. V-2204) (Also See PCB 442—Set 176-1) ... 154–15
 H-636217 (Ch. V-2204) (Also See PCB 442—Set 176-1) ... 154–15
 H-636217 (Ch. V-2204) (Also See PCB 442—Set 176-1) ... 154–15
 H-63717 (Ch. V-2204) (Also See PCB 442—Set 176-1) ... 154–15<

I and Model H-60/11/-Set 10/-15) H-688K24 [Ch. V-2219-1] (Also see PCB 52—Set 186-1)...174-14 H-689T16 (Ch. V-2214-1] (See PCB 40—Set 172-1, PCB 58—Set 192-1 and Model H-66/717—Set 167-15] H colves 1 (Ch. Y-2117)

 a0—set
 1/2-11, PCB
 30—set

 192.1 and Model H-667T17—Set
 167.15)

 1+-690K21
 (Ch. V-2217.-1)

 1] [See
 Model H-667T17—Set

 167.15]
 (H-697K21)
 (Ch. V-2217.2, .3)

 9CB
 43—Set
 177.1, PCB

 Set
 186.1 and Model H-667T17—Set
 167.15)

 •H-697K21
 (Ch. V-2217.2, .3)
 [See

 PCB
 43—Set
 177.1, PCB
 52—Set

 186.1 and Model H-667T17—Set
 167.15)
 (H-697K17)
 Set
 167.16)

 •H-697K17
 (Ch. V-2217.2, .3)
 [See
 PCB
 40—Set
 177.1, PCB
 52—Set

 186.1 and Model H-667T17—Set
 167.13)
 (See
 PCB
 40—Set
 172.1, PCB

 •H.706717, 75701171 (Ch. V-2215.2, .2)
 3)
 (See PCB 40—Set 172.1, PCB
 45—Set 179.1, PCB 52—Set 186.1

 1 and Model H-667T17—Set 167.15)
 647012—Set 167.10
 Model H-667T17—Set 167.15)

 •H.7021X1 (Ch. V-2217.2)
 (See PCB 40—Set 172.1, PCB
 45—Set 179.1, PCB 52—Set 186.1

 1 and Model H-667T17—Set 167.15)
 64798.172.1, PCB 52—Set 167.1
 163

 1 and Model H-767117—Set 167.

 15)

 H-704117 (Ch. V-2216-2) (See PCB 4 40—Set 172-1, PCB 45—Set 179.

 1, PCB 51—Set 185.1, PCB 52— Set 186.1 and Model H-66717— Set 167.15)

 H-704117 (Ch. V-2216-2, -3) (See PCB 40—Set 172.1, PCB 45—Set 179.1, PCB 52—Set 186.1 and Model H-66717—Set 167.15)

 H-706116 (Ch. V-2202.1, -3, -11)

 H-706116 (Ch. V-2202.1, -3, -11)

 H-706120 (Ch. V-2202.1, -3, -11)

 H-706120 (Ch. V-2212.2, -3) (See

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

H-70810 (Ch. V-22/2-11, ...172-14
 H-70810 (Ch. V-22/2-1, ...3, ...11)
 H-70810 (Ch. V-22/2-1, ...73, ...11)
 H-710721 (Ch. V-22/7-2, ...3) (See PCB 40—Set 172-1, PCB 43—Set 177-1, PCB 52—Set 186-1 ond Model H-667117—Set 167-15)
 H-710721 (Ch. V-2217-4, ...5)
 H-711721 (Ch. V-2217-2, ...3) (See PCB 40—Set 172-1, PCB 43—Set 177-1, PCB 52—Set 186-1 ond Model H-667117—Set 167-15)
 H-711721 (Ch. V-2217-2, ...3) (See PCB 40—Set 728-17, PCB 43—Set 177-1, PCB 52—Set 186-1 ond Model H-66717—Set 167-15)
 H-7118/21 (Ch. V-2217-2, ...3) (See PCB 40—Set 727-1, PCB 43—Set 177-1, PCB 52—Set 186-1 ond Model H-66717—Set 167-15)
 H-714K21 (Ch. V-2217-2, ...3) (See PCB 40—Set 172-1, PCB 43—Set 177-1, PCB 52—Set 186-1 ond Model H-66717—Set 167-15)
 H-715K21 (Ch. V-2217-2, ...3) (See PCB 40—Set 172-1, PCB 43—Set 177-1, PCB 52—Set 186-1 ond Model H-66717—Set 167-15)
 H-715K21 (Ch. V-2217-2, ...3) (See PCB 40—Set 172-1, PCB 43—Set 177-1, PCB 52—Set 186-1 ond Model H-66717—Set 167-15)

B-22/K16 (H. V-217): H-228K16 (H. 229K16 (Ch. V-217): H-307114 (Ch. V-272): H 6-33C17, H-634C17 (Ch. V-2173): H-33C17 (Ch. V-2175): H-337114 (Ch. V-2175): H-337114 (Ch. V-2175): H-337117 (Ch. V-2175): H-3407117 (Ch. V-2175): H-341K17A (Ch. V-2175): H-341K17A (Ch. V-2175): H-341K17A (Ch. V-2175): H-341K17A (Ch. V-2178-1; H-342K20 (Ch. V-2178-1; H-342K20 (Ch. V-2178-1; H-342K20 (Ch. V-2178-1; H-342K20 (Ch. V-2178-1; H-342K17 (Ch. V-2178): H-342K17

H-204 50-22 H-207A (Ch. V-2130-1, V-2137)
 H-207A
 (Ch. V-2130-1, V-2137)

 5-17
 6-13

 6-13
 6-110X or

 6-13
 6-13

 H-207A
 (DX)

 (DX)
 (Ch. V-2130-11DX or

 V-2130-12DX ord
 Radia

 H-2078
 (DX)

 (DX)
 (Ch. V-2130-21DX or

 V-2130-22DX
 and

 Radia
 Ch.

 V-2130-21DX ord
 Redia

 V-2130-22DX
 and

 R-13
 H-210, H-211

 (Ch. V-2133)
 62-21

 H-214
 (Ch. V-2104-20)

 H-214
 (Ch. V-2104-20)

 6H-216
 (Ch. V-2104-20)
 M-114, M-2154 (Cn. Y-2103-5)
 H-216, H-216A (Ch. Y-2146-05, Y-2146-05, Y-2146-05, Y-2146-05, Y-2146-110X, Y-2137, Y-2149) (See Set 99A-14)
 H-217, A (Ch. Y-2146-135X, Y-2137, Y-2149)
 H-2178 (Ch. Y-2146-35X, Y-2137, Y-2149)
 H-2178 (Ch. Y-2146-35X, Y-2137, Y-2149)
 V-214Y
 59-23

 H-220
 (Ch. V-2150-01, V-2150-02)

 #H-223 (Ch. V-2150-01, V-2150-02)
 78-14

 H-225 (DX) (Ch. V-2130-31DX or V-2130-31DX or V-2130-32DX)
 84-17

 H-226 (Ch. V-2146-21DX, 25DX, V-2149) (See Model H-2178-Set 91-14)
 91-14)
 91-14) H-231 (Ch. V-2150-51 and V-2137-3 or V-2137-35, V-2149-2) 990-14 H-242 (Ch. V-2150-31) ...97A-14 H-251 (Ch. V-2150-81)...42, ...84 (See 99A-14 and Model H-609T10 --Set 95-7) H-30075, H-30175 (Ch. V-2148) 88-14

WESTINGHOUSE-Cont.

25) H-185 (Ch. V-2131, V-2131-1)

H-30075, H-30175 (Ch. V-2148) 88-14 H-302P5 (Ch. V-2151-1), 97-15 H-303P4, H-304P4 (Ch. V2153) H-30777, H-30877 (Ch. V-2136) H-30775, H-309750 (Ch. V-2136) H-30755, H-309750 (L), V-2156 H-310751 H-310750 (L), 107-16 H-31075 H-310750 (L), 107-16 H-31075 H-310T5, H-310T5U, H-311T5, H-311T5U (Ch. V-2161, V-2161) 99-18

311750 (Ch. V.2161, V.2161) 99-18 H.312P4, H.312P4U, H.313P4, H. 313P4U, H.314P4, H.313P4U, H.314P4U, H.314P4U, H.314P4U, H.314P4U, H.315P4, H.3145P4U (Ch. V. 2153-1) H.316C7 (Ch. V.2136-1), 112-13 H.316C7 (Ch. V.2136-1) [See Model H.316C7-Set 112-13] H.3185, U (Ch. V.2157, U) H.32015, U (Ch. V.2157, U) H.32015, U (Ch. V.2157, U) H.32315, U (Ch. V.2157, U) H.32317, U (Ch. V.2157, U) H.32477, H.32317, U (Ch. V.2136)

120-12 H-607K12 (Ch. V-2150-11, A) 120-12 H-608C12 (Ch. V-2150-1, V-2149-3) (See Model H-603C12-Set 100-14) H-609T10 (Ch. V-2150-94C1 95--7 H-610T12 (Ch. V-2150-136) 105-13 H-611C12 (Ch. V-2150-136) 105-13 H-612T12 (Ch. V-2150-136) (Ch. V-2150-136) H-612T12 (Ch. V-2150-136) (Ch. V-2150-136) H-612T12 (Ch. V-2150-186, A, C CA) (Also see PCB 10-Set 116-11 H-612T12 (Ch. V-2150-186, A, C CA) (See PCB 10-Set 116-11 H-622T12 (Ch. V-2150-186, A, C CA) (See PCB 10-Set 116-11 H-622T12 (Ch. V-2150-186, A, C CA) (See PCB 10-Set 116-11 H-622T12 (Ch. V-2150-187) 114-11 H-622T12 (Ch. V-2150-187) 114-13 H-622T14 (Ch. V-2150-187) 114-13 H-622T14 (Ch. V-2171) ...116-13 H-622T14 (Ch. V-2171) ...116-13 H-623C114 (Ch. V-2171) ...116-13 H-633C17, H-634C17 (Ch. V-2171) ...16-13 H-32375, U (Ch. V-2157-2, U) 117-15 H-32477, H-32517, U (Ch. V-2136-2) H-326C7 (See Model H-316C7—Set 112-13) H-328C7, U (Ch. V-2157-3U) 126-14 H-328C7, U (Ch. V-2154, U) (Also see PCB 52—Set 186.1), 171-12 H-332F4, U (Ch. V-2164, U) (Also see PCB 52—Set 187-1), 171-12 H-3347U, H-33517U (Ch. V-2136, U) H-3347UR (Ch. V-2136, R) 149-14 H-33451U, H-33517U (Ch. V-2136, V) Start 142-16 H-33451U, H-33517U (Ch. V-2136, V) H-33471UR (Ch. V-2136, V)

H-33477UR (Ch. V-2136-5R) 149–14 H-33675U, H-3375U (Ch. V-2157U) 134–12 H-33875U (Ch. V-2157-4U) 140–13 H-34175U (Ch. V-2157-4U) 140–13 H-342P5U, H-343P5U (Ch. V-2156-LU) 138–13

13) H-348P5, H-349P5 (Ch. V-2156-1U) (See Model H-342P5U—Set 138-13)

13) H-350T7, H-351T7 (Ch. V-2180-1) (Also see PCB 52—Set 186-1)

H-354C7 (Ch. V-2180-2), 154–14 H-355T5, H-356T5 (Ch. V-2157-5) 161–11 H-357C10 (Ch. V-2180-5). 161-12 H-359T5, H-360T5 (Ch. V-2157-6)

H-35915, H-36015 (Ch. V-2181-1). 186-15 H-36515, H-36615 (Ch. V-2157-7) 185-15 -2157-6 191-21

185-15 H-367T5 (Ch. V-2157-8)...189-17 H-368P5, H-369P5 (Ch. V-2156-1U) (See Model H-342P5U—Set 138-13)

13) H-37077, H-37177 (Ch. V-2180-8) H-37077, H-37177 (Ch. V-2180-8) H-372P4, H-373P4, Ch. V-2182-1 and H-377 Optional Pwr. Supply 188-14

H-374T5, H-375T5 (Ch. V-2157-9) 189-17

NOTE: PCB Denotes Production Change Bulletin.

WESTINGHOUSE-ZENITH

 WESTINGHOUSE-Cont.

 H-866T21B (Ch. V-2313-15, -25, -35) (Alio See PCB 127-Set 286-1)

 270-18

 H-866TU21 (Ch. V-2323-101, -122, -124, -201, -301) (Alio See PCB 127-Set 286-1)

 270-18

 H-866TU21 (Ch. V-2323-101, -122, -124, -201, -301) (Alio See PCB 127-Set 286-1)

 270-18

 H-866TU214 (Ch. V-2323-101, -122, -124, -201, -301) (Alio See PCB 127-Set 286-1)

 127-Set 286-1)
 270-18

 H-866TU218 (Ch. V-2323-101, -122, -124, -201, -301) (Alio See PCB 127-Set 286-1)

 127-Set 286-1)
 270-18

 H-867T21, 8 (Ch. V-2312) 281-10

 H-867T21, 8 (Ch. V-2322) 281-10

 H-867T21, 8 (Ch. V-2322, 281-10

 H-868T21 (Ch. V-2322, 281-10

 H-868T21 (Ch. V-2323, 281-10

 H-868T21 (Ch. V-2324, 203, 301) (Alio See PCB 127-Set 286-1)

 270-18

 H-868T221 (Ch. V-2324, 203, 301) (Alio See PCB 127-Set 286-1)

 H-868T221 (Ch. V-2324, 203, 301) (Alio See PCB 127-Set 286-1)

 WESTINGHOUSE-Cont.
 ●H.876124
 (Ch. V-2314-15, -25)

 274-16
 ●H.8761U24, A (Ch. V-2314-15, -25)

 274-16
 ●H.877124, A (Ch. V-2314-15, -25)

 274-16
 ●H.8771U24, A (Ch. V-2314-15, -25)

 274-16
 ●H.8771U24, A (Ch. V-2314-15, -25)

 274-16
 ●H.879K24, B (Ch. V-2314-15, -25)

 274-16
 ●H.879K024, B (Ch. V-2314-15, -25)

 274-16
 ●H.879K024, B (Ch. V-2322)

 ●H.879F121 (S), (V) (Ch. V-2312)
 224-16

 ●H.889F0121 (S), (V) (Ch. V-2312)
 2281-10

 ●H.880T21 (S), (V) (Ch. V-2312)
 281-10

 ●H.880T21 (S), (V) (Ch. V-2312)
 281-10

 ●H.880T21 (S), (V) (Ch. V-2322)
 281-10

 ●H.880T21 (S), (V) (Ch. V-2322)
 281-10

 ●H.881KU24 (Ch. V-2324)-5, -25)
 64H-881KU24 (Ch. V-2324)-5, -25)
 Cn. V-213U-1 (see Model H-190) Ch. V-213U-1 (see Model H-190) Ch. V-213U-21DX, -122X (See Mod-el H-196A (DX)] Ch. V-213U-21DX, -22DX (See Mod-el H-225 (DX)] Ch. V-2131, V-2131-1 (See Model H-185) Ch. V-2132 (See Model H-186M) Ch. V-2132 (See Model H-186M) Ch. V-2133 (See Model H-186M) Ch. V-2134 (See Model H-307T) Ch. V-2134-4 (See Model H-316CT) Ch. V-2134-4 (See Model H-316CT) Ch. V-2137-5U (See Model H-328T) Ch. V-2137-5U (See Model H-203) Ch. V-2137-7 (See Model H-198) Ch. V-2137-7 (See Model H-198) Ch. V-2137-3 (See Model H-198) Ch. V-2137-3 (See Model H-198) Ch. V-2137-3 (See Model H-216) Ch. V-2144-10X (See Model H-210) Ch. V-2146-50 (See Model H-216) Ch. V-2146-21DX (See Model H-217) Ch. V-2146-21DX (See Model H-226) V-2146-21DX, -25DX (See Ch Model H-226 h. V-2146-35DX (See Model H-217B) Ch

H-217B) Ch. V-2146-45 (See Model H-216) Ch. V-2148 (See Model H300T5) Ch. V-2149 (See Model H-217B) Ch. V-2149-1 (See Model H-216) Ch. V-2149-2 (See Model H-231)

NOTE: PCB Denotes Production Change Bulletin.

WESTINGHOUSE-Cont. webinder005E-Conf. Ch. V-2149-3 (See Model H-603C-Ch. V-2150-01, V-2150-02 (See Model H-223) Ch. V-2150-31 (See Model H-601K-Ch. V-2150-41 (See Model H-601K-12) h. V-2150-51 (See Model H-231) h. V-2150-61, A, B (See Model Ch. Ch. V-2150-81, -82, -84 (See Mod-el H-251) Ch. V-2150-91A (See Model H-604et m.s... Ch. V-2150-91A (See mes.) T10) Ch. V-2150-94 (See Model H-604-T10) Ch. V-2150-94 (See Model H-604-Ch. V-2150-94C (See Model H-609710) Ch. V-2150-101 (See Model H-605112) Ch. V-2150-111, A (See Model H-600K12) Ch. V-2150-136 (See Model H-Ch. V-2150-136 (See Model H 610112) Ch. V.2150-146 [See Model H. 613X16) Ch. V.2150-176, U [See Model H. 617T12] Ch. V.2150-170 [See Model H. 617T12] Ch. V.2150-186, A, C, CA [See Model H. 617T12] Ch. V.2150-186, A, C, CA [See Model H. 623T12] Ch. V.2150-197 [See Model H. 623T12] Ch. V.2152-10 [See Model H. 61072] Ch. V.2152-10 [See Model H. 61072] Ch. V.2152.13 [See Model H. 61072] Ch. V.2153.1 [See Model H. 61072] Ch. V.2155.11 [See Model H. 61072] Ch. V.2156.11 [See Model H. 61072] Ch. V. 61072] V-2150-146 (See Model H-Ch Ch. V-2150-10 [dec horse] FSU) Ch. V-2156-2 [See Model H-405P5] Ch. V-2157, U [See Model H-31815] Ch. V-2157, -1U [See Model H-32115] Ch. V-2157-2, -2U [See Model V-2054] Ch. V-2157-2, -20 ---H-32375) Ch. V-2157-3U (See Model H-Ch. V-4 327T6U 52/16U) Ch. V-2157-4U (See Model H338-T5U) Ch. V-2157-4U (See Model H338-TSU) Ch. V-2157-5 (See Model H-35515) Ch. V-2157-6 (See Model H-35515) Ch. V-2157-6 (See Model H-35715) Ch. V-2157-8 (See Model H-37415) Ch. V-2157-10 (See Model H-3815) Ch. V-2157-11 (See Model H-3815) Ch. V-2157-12 (See Model H-3815) Ch. V-2157-13 (See Model H-3815) Ch. V-2157-14 (See Model H-33174) Ch. V-2161, V-2161U (See Model H-3015) Ch. V-2161, V-2161U (See Model H-3015) Ch. V-2167, (See Model H-36115) Ch. V-2175 (See Model H-36117) Ch. V-2175 (See Model H-36117) Ch. V-2175-3, 4 (See Model H-36116) Ch. V-2175-3, 4 (See Model H-36116) Ch. V-2175-5, (See Model H-36116) Ch. V-2175-5, (See Model H-36117) Ch. V-2175-6, (See Model H-36118) (See V-2175) (See Model H-36118) K1/1
 K1/1
 K1/2
 <li Ch. V-2192, -1 (See Model H-639117)
 Ch. V-2192, -3, -4, -5, -6 (See Model H-640117A)
 Ch. V-2194, V-2194A, V-2194-1 (See Model H-642K20A)
 Ch. V-2194, 2, -3 (See Model H-652K20) Ch. V-2200-1 (See Model H-651-K17) Ch. V-K20) V-2201-1 (See Model H-652-
 Ch. V-2201-1
 (See
 Model
 H-652-K20

 K20
 Ch. V-2202-2
 (See
 Model
 H-653124

 Ch. V-2203-1
 (See
 Model
 H-660717

 Ch. V-2204-1
 (See
 Model
 H-659717

 Ch. V-2206-1
 (See
 Model
 H-665716

 Ch. V-2206-1
 (See
 Model
 H-665716

 Ch. V-2201-1
 (See
 Model
 H-687164

 Ch. V-2210-1
 (See
 Model
 H-687164

 Ch. V-2214-1
 (See
 Model
 H-687164

 Ch. V-2216-1
 (See
 Model
 H-687177

 Ch. V-2216-1
 (See
 Model
 H-667717
 Ch. V-2216-2, -3 (See Model H-678K17) Ch. V-2216-4, -5 (See Model H-704T17)

WESTINGHOUSE-Cont. Ch. V-2217-1 (See Model H-673K21) V-2217-2, -3 (See Model H-Ch. 692T21) h. V-2217-4, -5 (See Model H-Ch Ch. V-2217-4, -3 1300 model 710721) Ch. V-2218-1, -2, 11 (See Model H-730C21) Ch. V-2218-1 (See Model H-688K24) Ch. V-2220-1 (See Model H-688K24) Ch. V-2220-1 [See Model H-708T20] Ch. V-2220-2 [See Model H-718K20] Ch. V-2220-3, -11 [See Model H-718K20] Ch. V-2227-1 [See Model H-74 V-2277-2 [See Model H-73 V-737 S (See Model H-74 V-737 S (See Mode V-2229-5 (See Model H-482PR5) V-2232-2 (See Model H-Ch Ch. V-2232-2 (See 737117) Ch. V-2233-1 (See Model Hh. V-2233-1 (See Model H-h. V-2233-2 (See Model H-Ch. V.2233-2 [366 751121] Ch. V.2233-3 (See Model H-750121) 750121. (See Model H-Ch. V-2233-1 [See Model H-469R12] Ch. V-2235-1 [See Model H-469R12] Ch. V-2236-1 [See Model H-47515] Ch. V-2236-2 [See Model H-4815] Ch. V-2250-1 [See Model H-815124] Ch. V-2260-1 [J. 12, -13, -14 [See Model H-830K21] Ch. V-2263-15 [See Model H-827721] 746K21 Model H-830K21) Ch. V-2263-15 (See Model H-827721) Ch. V-2263-22 (See Model H-834K21) Ch. V-2263-35 (See Model H-836721) Ch. V-2273-111, -122, -124, -132, -134 (See Model H-830KU21) Ch. V-2273-122 (See Model H-834KU21) Ch. V-2273-3222 (See Model H-834CU21) Ch. V-2273-324 (See Model H-840CK15) Ch. V-2214-15 (See Model H-840CK15) Ch. V-2312 (See Model H-799717) Ch. V-2312 (See Model H-867721) Ch. V-313 (See Model H Ch. V-2313-15, -25, -35 (See Model H-338(2), -25, -35 (See Model H-B38(2), -25 (See Model H-B538(2), -25 (See Model H-857102) Ch. V-2320 (See Model H-867102) Ch. V-2322 (See Model H-867102) Ch. V-2323-101, -122, -124, -201, -301 (See Model H-833KU218) Ch. V-13234-203 (See Model H-833KU24) Ch. V-11213 (See Model H-802) Ch. V-11900-1, -2, -3, -4, -5 (See Model H-802) Model H-802) WILCOX-GAY (Also see Majestic) (Also see Recordio) 6-306, 6-402, G-403, G-404 (See Majestic Model 1212—Set 108-7) 6-414 (See Majestic Model G-414 -Set 133-8) 6-914 (See Majestic Model G-414 -Set 133-8) 0D-446M (IO Series) ... 101-17 80F439-1-C (Ch. OF Series) 98-15 OD Safelie (See Model D-446M) 400A, 8, C ... 242-12 WILLYS-OVERLAND WILLYS-OVERLAND 8030 (670777) 50-23 670777 (See Model 8030-Set 50-WILMAK W-446 "DENchum" 21-11 WIRE RECORDING CORP. (See Recorder Listing) WOOLAROC
 WOOLAROC

 3.1A
 (Ch. 6-9022-J), 3-2A
 (Ch. 6-9022-J), 3-2A

 3.3A
 (Cate 7.9002-D), 6-37

 3.5A
 (Cate 7.9002-D), 6-32

 3.6A
 22-32

 3.6A
 22-32

 3.6A
 22-32

 3.6A
 24-32

 3.7A
 (Ch. 6A76)

 3.11A
 (Ch. 56A76)

 3.13A
 2144 344

 9A, 3-10A
 7-30

 11A (Ch. 56A76)
 8-33

 12/3
 23-33

 13A, 3-14A, 3-15A, 3-16A
 34-28

 17A, 3-18A
 34-28

 20A
 24-33
 3-29A 7-31 3-61A (See Model 3-71A—Set 36-29) 3-70A 31-34 3-71A 36-29 ZENITH (Also see Record Changer Listing) G500 (Ch. 5G40) 83–16 G503 (Ch. 5G41) 99–19 G510, G510Y (Ch. 5G02). 84–14 G511, G511W, G511Y (Ch. 5G01) 85–14 Gil, GilW, GilY (Ch. 3601) 85-14 Gil6 (Ch. 5603) ... 109-15 Gil5, Gol5W, Gol5Y (Ch. 6605) G640, G663, G665 (Ch. 6601) G723 (Ch. 7604) ... 104-13 G724 (Ch. 7604) ... 104-13 G724 (Ch. 7601) ... 101-18 G881, G882, G883, G884, G885 (Ch. 8620) ... 98-17 G23222 (Ch. 23622) ... 98-17 G23224 (Ch. 23624) (See Ch. 23624-Set 91A-13)

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

ZENITH-Cont. 0:33221 (Ch. 23C2421) (See Ch. 23G24-Set 91A-13) 0:32221 (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:330621 (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:234021, C(2) (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:23468 (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:23468 (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:23468 (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:233621 (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:23362 (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:23362 (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:23362 (Ch. 23G24) (See Ch. 23G24-Set 91A-13) 0:23420-E0X (Ch. 24G20-0X) 93-11 0:24200-E0X (Ch. 24G20-0X) 93-11 0:24202 (Ch. 24G20).... 93-11 0:24202 (Ch. 24G20).... 93-11 0:24202 (Ch. 24G20).... 93-11 0:24202 (Ch. 24G20).... 93-11 0:24202 (See Ch. 24G26-Set 91A-12) 0:2441 (Ch. 24G24)......98-17 0:2441 (Ch. 24G22/24) 98-17 0:24428 (Ch. 24G22(-Set 91A-12) 0:24428 (Ch. 24G22(-Set 91A-12) 0:24428 (Ch. 24G22) (See Ch. 24G26 (See Ch. 24G26-Set 91A-12) 0:24428 (Ch. 24G22/24) 98-17 0:24428 (Ch ZENITH-Cont.

ZENITH-Cont.

ZENITH-Cont. H2226E, R, H2227E, H2227R (Ch. 22H20) H2229R, H2230E, R (Ch. 22H21) 114-13 H2229R, H2230E, R (Ch. 22H21) 151-13
 H2241R (Ch. 22H21)
 151-13

 H2242E, R (Ch. 22H22)
 151-13

 H2242E, R (Ch. 22H22)
 114-13

 H2250R (Ch. 22H20)
 114-13

 H2252R, H2253E (Ch. 22H21)
 151-13

13) H3168R (Ch. 23H22 and Radio Ch. 8H20) (For TV Ch. see Model H2328E—Set 118-11, for Radio Ch. see Model H880RZ—Set 114-

 H2328E—Set
 118.11, for Radio

 Ch. iee Model H880R2—Set
 114.

 (1)
 H3267, R (Ch. 24H20 and Radio

 (1)
 H3267, R (Ch. 24H20 and Radio

 (1)
 13. for Radio Ch. see

 H300R2—Set
 114.12)

 H300R2—Set
 114.12)

 H300R2—Set
 114.12)

 H300R2—Set
 114.12)

 H300R2—Set
 114.12)

 H3078 (Ch. 24H20 and Radio Ch.
 10H202)

 H34378 (Ch. 24H20 and Radio Ch.
 10H20]

 H34378 (Ch. 24H20 and Radio Ch.
 10H20]

 H34457 (Ch. 24H20 and Radio Ch.
 10H20]

 H34457 (Ch. 24H20 and Radio Ch.
 10H20]

 H3458 (Ch. 24H21 and Radio Ch.
 10H20]

 H3458 (Ch. 24H21 and Radio Ch.
 10H20]

 H0H20
 120-13

 H3458 (Ch. 24H21 and Radio Ch.
 10H20]

 H0H20
 120-13

 H3490EQ (Ch. 24H21 and Radio Ch.
 10H20]

 H0H20
 120-13

 H3490EQ (Ch. 24H21 and Radio Ch.

 H0H20
 120-13

 H3490EQ (Ch. 24H21 and Radio Ch.

 H0H20
 120-13

 H14, E (Ch. 1M20)
 270-19

 HF14, E (Ch. 3M02)
 270-19

 HF14, E (Ch. 3M02)
 270-19

 HF14, E (Ch. 3M02)
 270-19

 270-19 272-16 272-16 272-16 281-11 281-11 281-11 281-11 178-18 185-16 219-12 176-14 J514 (Ch. 5J03) J615, F, G, W, Y (Ch.

Jala, F., G., W., Y. (Ch. 505)
Jala, F., G., W., Y. (Ch. 205)
Jala, F., G., W., Y. (Ch. 205)
Jala, J., G., W., Y. (Ch. 205)
Jara, J. (Ch. 2012)
Jara, J. (Ch. 2012)
Jara, J. (Ch. 104202)
Jara, J. (Ch. 20121)
Jara, Ja Ch. 6J05) 182–16 179–14 2).172–13)..186–17

Denotes Television Receiver.

ZENITH

ZENUTR-Corr. Ch. SCO12 (See Model SR080) Ch. SCO2, SCO22 (See Model SR080) Ch. SCO2 (See Model SCO03) Ch. SCO2 (See Model SCO03) Ch. SCO3 (See Model SCO032) Ch. SCO3 (See Model SCO032) Ch. SCO3 (See Model SCO03) Ch. SCO3 (See Model SCO1) Ch. SCO3 (See Model ISO4) Ch. SCO3 (See Model ISO4) Ch. SLO3 (See Model ISO4) Ch. SLO3 (See Model ISO5) Ch. SLO3 (See Model ISO7) Ch. SRO3 (See Model ISO7) Ch. SR Ch. 8120 [See Model L880 or 122858] Ch. 8121 [See Model 14358] Ch. 8121 [See Model 18257] Ch. 9121 [See Model 18257] Ch. 9721 [See Model 974953] Ch. 9722 [See Model 974953] Ch. 19722 [See Model 1434578] Ch. 101202 [See Model 1434578] Ch. 101202 [See Model 1434578] Ch. 101202 [See Model 1127090] Ch. 11221 [See Model 1127090] Ch. 11222 [See Model 1127090] Ch. 11222 [See Model 114789] Ch. 11720, U [See Model 118156] Ch. 19722 [See Model 118156] Ch. 19722 [See Model 118125] Ch. 19722 [See Model 118125] Ch. 19723 [See Model 122298] Ch. 19724 [See Model 122298] Ch. 19725, U [See Model L18465, EU] EU) h. 19L26, U (See Model L1812E, EU) Ch. 19125, U (See Model L12130E, EU) Ch. 19127, U (See Model L2230E, EU) Ch. 19128, U (See Model L2229E, U-del L2250EU) EU) Ch. 19128, U (See Model 12229E, EU) Ch. 19130, U (See Model 12250EU) Ch. 19133, U (See Model 12228R, RU)

Denotes, Television Receiver,

ZENITH-Cont.

NOTE: PCB Denotes Production Change Bulletin.

ZENITH-Cont.

ZENITH-Cont.

6 R03)

 R623F, G., K. W. T (L., 6x03)

 274-17

 R1800EU (Ch. 19%20, U) 257-16

 R1812EU (Ch. 19%20, U) 257-16

 R2227EU (Ch. 19%21, U) 267-16

 R2227EU (Ch. 19%21, U) 267-16

 R2227EU (Ch. 19%21, U) 257-16

 R2227EU (Ch. 19%21, U) 257-16

 R22208EU (Ch. 19%21, U) 257-16

 R2230EU (Ch. 19%21, U) 257-16

 <td

Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Production Change Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250

 Sb011, Sb027 (ch. Sc01, Sc01, Sb01, Sc01, S
 abol 3, obul 31 (ch. acu3, acu3

ZENITH-Cont.

ZENITH-Cont.

13) R623F, G, R, W, Y (Ch.

Ch. 19M21UZ (See Model M2250: RUZ) Ch. 20M20Z (See Model M2237EZ) Ch. 20M21Z (See Model M2570RU) Ch. 22H22 (See Model H2242E) Ch. 20M21Z (See Model M2570RU) Ch. 22H21 (See Model M2570R) Ch. 20M21Z (See Model M2570RU) Ch. 22H21 (See Model M2570R) Ch. 20M21Z (See Model M2570RU) Ch. 22H21 (See Model M2570R) Ch. 20M21Z (See Model M2570RU) Ch. 22H21 (See Model M2570R) Ch. 22H21 (See Model M2570RU) Ch. 22H21 (See Model M2570R) Ch. 22H21 (See Model M2570R) Ch. 22H21 (See Model M2570R) Ch. 22H21 (See Model M2570R) Ch. 22H21 (See Model M2570R) Ch. 22H21 (See Model M2570R) Ch. 22H23 (See Model M2570R) Ch. 22H22 (See Model M2570R) Ch. 22H21 (See Model M2570R) Ch. 23H21 (See Model ZB1954E) Ch. 23H22 (See Model ZB1954E) Ch. 23H21 (See Model ZB1954E) Ch. 23H21 (See Model ZB1954E) Ch. 23H21 (See Model ZB1954E) Ch. 23H22 (See Model ZB1954E) <td< th=""></td<>
--

RECORD CHANGERS

(CM-1) indicates service data also available in Howard W. Sams 1947 Record Changer Manual. (CM-2) indicates service data available in Howard W. Sams 1948 Record Changer Manual. (CM-3) indicates service data available in Howard W. Sams 1949, 1950 Record Changer Manual. (CM-4) indicates service data available in Howard W. Sams 1951, 1952 Record Changer Manual. (CM-5) indicates service data available in Howard W. Sams 1953 Record Changer Manual.

ADMIRAL	CRESCENT-Cont.	MOTOROLA-Cont.	SPARTON	WEBSTER-CHICAGO-Cont.
	250 Series	RC36C (See Model RC36-Set	C48 (CM-2) 87-11	100 (CM-4) 135-14
RC-150	350 Series	147-81		106
(See Model RC200—Set 9 and	500 Series	RC37	THORENS	121, 122, 123, 124, 125 (CM-5) 206-12
Model RC-160-Set 21-37)		RC40 [See Model RC37-Set 141-8	CD-40	126, 127, 129 (CM-5) 208-13
RC-170, RC-170A (CM-1) 31-2	FARNSWORTH	(CM-4)]	CD43	133 (CM-2) 82-13
RC-180, RC-181 (CM-2) 76-1	P-51, P56 (CM-1) 13-36	OAK	TRAV-LER	148 (CM-2) 86-12
RC-182 (See Model RC-181-Set	P-72, P73 (CM-2) 75-8	6666	A	246
76-1 and Supplement—Set 76-2) (CM-2)	GARRARD	9201 (CM-3) 111-10		256 (CM-2) 88-13
RC-200	RC-60	PHILCO	UNIVERSAL CAMERA	346 (CM-3) 100-12 356, 357 (CM-3) 106-16
RC-210, RC211, RC212 (CM-3)	RC-80 (CM-4) 157-5	D10, D10A (CM-1) 14-21	100	350, 357
72-1	RC90	M-4		WESTINGHOUSE
RC-220, RC-221, RC-222, RC-320,	GENERAL ELECTRIC	M-7 (CM-1) 28-35	UTAH	V4914 (CM-2) 47-26
RC-321, RC-322 [See Set 79-1	P6	M-8	550 (CM-1) 8	V4944
and Changes in Set 108-2 (CM-3)] RC400 (CM-4) 104-1		M-9C	650 (CM-1) 22-34	V6235 134-13
RC500 (CM-4) 132-2	GENERAL INDUSTRIES RC130L	M-12C (CM-3) 109-9 M-20 (CM-3) 103-11	7000 (CM-1) 27-31 7001 (CM-2) 83-15	V6676 136-15
RC-550 [See Model RC-500—Set		M-22	7001	ZENITH
132-2 (CM-4) and Model RC-550	GENERAL INSTRUMENT	RCA	V-M	S11478
Set 185-2 (CM-5)] RC600	204	R-198-12	200-B	Series 700R (CM-2) 91-8
	205 (CM-1) 10	RP168	400 (CM-1) 26-33	S11680 (CM-1) 27-32
AERO	LEAR	RP-176 (CM-1) 25-31	400 (Late)	S14001
46A	PC-206A (CM-1) 18-33	RP-177	402, 400C (CM-2) 82–12 402D, 400D (CM-2) 87–14	S13675, S-14002, S14006, S14008 (CM-2) 85-15
47A (CM-2) 77-2	MAGUIRE	RP-178	404 [See Model 405-Set 73-14	S14004, S14007 (CM-2) 79-18
AVIOLA	ARC-1	RP-190 Series	(CM-3)]	S14012, S14014 (CM-3) 110-14
.100 (CM-1) 33-32		RP-197-1, -6, B-1, 27, 3-7 RP-199	405	S14022
BELMONT	MARKEL	SEEBURG	406, 407	S14023 (CM-3) 105-14
C-9	70, 71	K	800-D	S14024, S14025 (CM-3) 112-15 S14026
COLLARO	Supplement-Set 131-11]	(CM-1) 24-34	802	S14027 (CM-3) 112-15
RC54		M [CM-1] 32-19	910 (CM-3) 115-14	S-14028, S-14029, S-14030, S-
RC.521, RC.522 (CM-5) 205-4		S, SQ	935, 936	14031 (CM-4) 145-13
3RC.521, 3RC.522 . (CM-5) 205-4	10700 [CM-1] 16-37 11200 [CM-2] 86-6	SILVERTONE	950 [See Set 107-13 (CM-3) and Supplement—Set 131-17]	S-14036
3RC-531, 3RC-432	11200	101.761-2, 101.762-2	950, 951 (Late) (CM-5) 216-11	S-14053, S-14054, S-14058, S-14057
COLUMBIA RECORDS	12300 (CM-4) 138-5	(CM-2) 77-10		
104	MOTOROLA	101.761-3, 101.762-3	WEBSTER-CHICAGO	MISCELLANEOUS
950-274	B24RC, B25RC, B27RC, B28RC	101.762, 101.763	50 (CM-1) 24-35	Series 700F (CM-2) 89-9
CRESCENT	B24RC, B25RC, B27RC, B28RC (CM-1) 12-35	(CM-2) 88-11	56 (CM-1) 17-36	Series 700F 33/45. (CM-3) 75-11
C-200	RC30 (CM-2) 80-9	488.218	70(CM-1) 29–28	Series 700FLP (CM-2) 101-6 Series 700FS (CM-2) 104-8
6 Series	RC36, A (CM-4) 147-8	488.219 (Late)	77(CM-4) 137-14	Series / UUPS (CM-2) 104-8

RECORDERS

AMPEX	CRESCENT-Cont.	GENERAL INDUSTRIES	MITCHELL	ST. GEORGE
400A, 401A (CM-5) 213-1	H2000 Series (CM-4) 120-4	R70, R90 (CM-1) 35-28	1290	1100 Series (CM-1) 40-24
	M-2001 Series (CM-4) 120-4	R901 [See Model R90-Set 35-28	PENTRON	TAPE MASTER
AMPRO	M-2500 Series (CM-4) 120-4	(CM-1)]	HT-225, TR-4	PT-121
730 (CM-4) 133-4	M-3000 Series (CM-4) 120-4	250 (CM-4) 143-8	PB-A2, PB-1 (CM-5) 184-11	PT-125 (CM-5) 198-15
731 (For electrical unit see Folder	M-3001 Series (CM-4) 120-4	INTERNATIONAL ELECTRONICS	9T-3 (CM-4) 153-10	PT-150 [For Mechanical Unit Only
166-5; for mechanical unit see	M-3500 Series		9T-3C	See Model PT-125-Set 198-15
Folder 133-4) 731-R (See Model 731)	1000 Series	PT3 (CM-2) 88-4	RCA	(CM-5)]
755, 756	1000 Series Revised (CM-3) 77-4	KNIGHT	MI-12875 (CM-2) 85-12	TELECTRO-TAPE
	2900	96-144	SRT-301 (M1-15910) 224-11	A
BRUSH SOUND MIRROR	9037			TDC
BK-401	CRESTWOOD	96-485	RECORDIO (See Wilcox Gay)	130 (Stereotone)
BK-403		96-499 (CM-4) 158-6	REELEST	
BK-416 (CM-2) 81-4	CP-201 (CM-3) 118-4	96-590	CIA	V-M
BK-437, BK-437S, BK-441, BK-442,	400 Series (401, 402) 251-5	96RX675	REVERE	700
BK-443P (CM-5) 164-3	DUKANE	LEAR DYNAPORT	T-100	WEBSTER-CHICAGO
8K-455P	11A55FF, 11B55 (CM-5) 187-5	WC-311-D	T-500 [See Model T-100-Set 149-	79-80
BRUSH MAIL-A-VOICE	11A75	WC-311-D	11 (CM-4)]	178 (CM-3) 113-12
	11473	MAGNECORD	TR-200, TR-600 (For electrical unit	210 (CM-4) 159-17
BK-501, BK-502, BK-503(CM-1)	EICOR	AD-18 "AudiAd" (CM-2) 84-7	see Folder 165-10; for mechani-	228 (CM-4) 156-13
COLUMBIA-BELL &	230	M30 Series	cal unit see Folder 149-11)	2010 [See Model 210-Set 159-17 [CM-41]
HOWELL	400	PT6, A, AH, AHX, AX	T-70153, T-70157, T-70163, T- 70167, T-70253, T-70257, T-	
350	1000 (CM-3) 904	(CM-5) 190-6	70263, T-70267, T-77153, T-	WEBSTER ELECTRIC
		PT63-A, AH, AHX, AX	77157, T-77163, T-77167, T-	(See Ekatape)
CONCERTONE	EKOTAPE (WEBSTER-ELECTRIC)	(CM-5) 190-6	77253, T-77257, T-77263, T-	WILCOX GAY
1401 (401) (CM-4) 155-4	101-4, 5, 102-4, 5, 103-4, 5,		77267 (CM-5) 193-9	2A10, 2A10B, 2A11, 2A11B 180-10
CRESCENT	104-4, 5 (CM-3) 116-12	MASCO	SENTINEL	3A10, 3A11 (CM-5) 200-13
H-1A	101-8, 101-9, 102-9, 103-8 (CM-5) 170-6	DC37R	10	3C10
H-2A1 Series (CM-3) 119-4	109, 110, 111, 112 (CM-4) 152-5	D37	SILVERTONE	3F10
H-19 Series "Steno"	114, 115, 116, 117 (CM-5) 189-8	D37R (CM-4) 148-9	70 (Ch. 567.230, 577.231)	4810
(CM-4) 122-3	205; 206	LD37, LD37R (CM-4) 148-9	(CM-4) 121-11	4F10
H-20A1 (See Model H22A1-Set		52, 52C, 52CR, 52L, 52LR, 52R	771 (CM-1) 26-32	
125-4)	FEDERAL	(CM-5) 214-6	101.774-2. 101.774-4	WIRE RECORDING CORP.
H-22A1 1254	37-B	375 (CM-3) 117-7	(CM-3) 114-10	WP

Production Channe Bulletin Nos. 64 Through 104 Are All Contained in Set No. A-250 Production Change Bulletin Nos. 1 Through 63 Are All Contained in Set No. A-200 Denotes Television Receiver.

How to "tame" a TV Sync Circuit FAST



Use RCA Tubes with <u>Built-In</u> Quality!

TIECTRON

For instance, RCA-12AU7's and 6SN7-GTB's are known for their close manufacturing tolerances. Microphonics are minimized. Plate current cutoff is closely controlled. Result: High tube stability—even during variations in heater voltages!

ŝ.

It's a fact—you can rely on RCA Tubes to give your customers stable TV pictures. That's because RCA Tubes are designed and manufactured specifically to meet the close tolerance requirements of TV circuitry.

ELECTRON TUBES

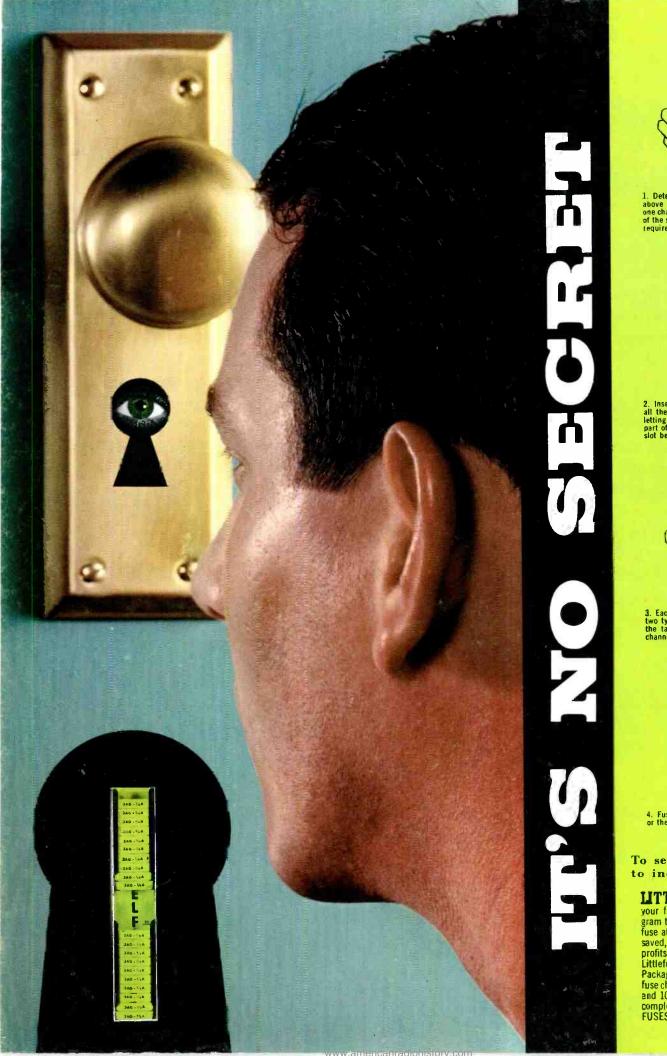
So, insist on RCA Receiving Tubes for *all* your service work.



RADIO CORPORATION of AMERICA

First Choice for TV Circuits ... dependable RCA Tubes

HARRISON, N.J.

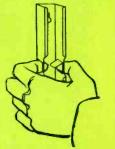




1. Determine the most handy location above or near your work bench. Using one channel as a guide locate the position of the screws for the number of channels required — single, double or triple bank.



2. Insert screws in position-do not turn all the way down. Slide channel down, letting screw head come through large part of keyhole slot. Slip narrow part of slot behind the screw head and tighten.



3. Each channel can be made to dispense two types of fuses simply by folding in the tabs cut out in the middle of the channel.



4. Fuses now dispense from the middle or the bottom of the channel.

To serve you....

to increase your profits

LITTLEFUSE Again streamlin your fuse service operation with a pr gram that makes sure you have the rig fuse at your fingertips at all times—tin saved, effort saved, build up your serv profits. ASK YOUR JOBBER about t Littlefuse Single Channel Fuse "Stocke Package: 10 single (double dispensii fuse channels, 10 boxes (50) 3 AG ¼ fus and 10 boxes (50) 3 AG ½ fuses in o complete package FOR THE COST OF T FUSES ALONE.