

Studebaker SERVICE

BULLETIN

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1956

WAX MAY DULL NEW CAR FINISH - 1956 MODEL PASSENGER CARS

Please record *this article on the Service Bulletin reference page at the end of the Body section of your 1956 Passenger Car Shop Manual.*

From time to time we get reports of a haze, film or lack of luster on new Studebaker passenger cars. Investigation has indicated that such a condition may result where the finish was treated with wax or a polish containing wax when the car was new.

No wax or polish containing wax should be used on a new car within the first 60 days. "Lustur Seal" No. 1, or "Haze Cream" are the only products that are factory approved for application to the new car finish during the first 60 days of the car's life. Where wax or polishes containing wax have been used and the finish is dull, in most cases luster may be restored by thoroughly cleaning the finish with turpentine, then rubbing dry with a clean cloth. This will usually remove the wax residue. Following this, "Lustur Seal" No. 1, or "Haze Cream" can be applied.

While the dullness, haze or film is most noticeable on the black or darker colors, the same condition may prevail on any of the current enamels if wax is applied during the first 60 days.

The factory will not honor dealer's claims for refinishing to restore luster where wax or wax polishes have been used.

DETROIT GEAR AUTO. TRANS. LOW AND FORWARD BRAKE CYLINDER PLATE

The Low and Forward Brake Cylinder Plate, Part Mo. 535223, used in Studebaker automatic drive transmission was replaced in late production with Part No. 537723 Plate which has a .078" restricted hole feeding into the forward servo outer piston bore.

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Part No. 537371 Gasket must be used with the latest plate and can be used with the old plate. The Parts depots will carry only the latest gasket. When installing gaskets, be sure that all bores or passages are open.

TIRE PRESSURES IMPORTANT FOR SAFE DRIVING

Please record this article on the Service Bulletin Reference page at the end of the Wheels and Tires section of your 1956 Passenger Car Shop Manual.

Maintaining proper tire inflation pressures has always been important for maximum comfort and car performance as well as safety. In the modern cars with higher power engines and

**JONES-DABNEY #1000 MIDNIGHT BLACK BAKING ENAMEL -
SYMBOL BAA**

% Pigment Composition	% Vehicle Composition
75.00 carbon Black	Alkyd Resin 90.00
25.00 Toning Blue	Melamine 10.00
<u>106.00%</u>	<u>100.00%</u>
	Non-Volatile = 43.00%

**COOK'S #1012 MDCHA BAKING ENAMEL -
SYMBOL BAM**

Rutile Non-Chalking Titanium Dioxide	81.46%
Red Iron Oxide	9.85
Yellow Iron Oxide	6.95
Lamp Black	1.74
	<u>100.00%</u>

**COOK'S #1003 ROMANY RED BAKING ENAMEL -
SYMBOL BAD**

Cadmium Red Medium Light	100.00%
Indo Maroon	Trace

**COOK'S #1004 SEASIDE GREEN BAKING ENAMEL -
SYMBOL BAE**

Rutile Non-Chalking Titanium Dioxide	99.18%
Pht halo Green	.69
Rhthalo Blue	.13
	<u>100.00%</u>

**COOK'S #1006 SNOWCAP WHITE BAKING ENAMEL -
SYMBOL BAG**

Rut ile Non-Chalking Titanium Dioxide	100.00%
Raw Sienna	Trace
Yellow oxide (Iron)	Trace
Lamp Black	Trace

**JONES-DABNEY #1002 SUNGLOW GOLD BAKING ENAMEL -
SYMBOL BAC**

% Pigment Composition	% Vehicle Composition
88.00 Titanium Dioxide	Alkyd Resin 88.00
12.00 Ferrite Yellow	Melamine 12.00
Tint Lamp Black	<u>109.00%</u>
<u>Tint Red Iron Oxide</u>	
190.00%	Non-Volatile = 50.00%

**JONES-DABNEY #1015 TANGERINE BAKING ENAMEL -
SYMBOL BAP**

% Pigment Composition	% Vehicle Composition
59.00 Titanium Dioxide	Alkyd Resin 84.00
31.00 Molybdate Orange	Melamine 16.00
5.00 Chrome Yellow	<u>100.00~</u>
4.3 Indo Orange	
.7 Indo Maroon	Non-Volatile = 50.00%
Tint Lamp Black	
<u>100.00%</u>	

**JONES-DABNEY #1013 YELLOWSTONE BAKING ENAMEL -
SYMBOL BAN**

% Pigment Composition	% Vehicle Composition
72.00 Titanium Dioxide	Alkyd Resin 90.00
26.00 Sun Yellow N.	Melamine 10.00
1.8 Fast Yellow	<u>100.00%</u>
.2 Indo Orange	
<u>100.00%</u>	Non-Volatile = 52.00%

**FLIGHTOMATIC TRANSMISSION DRAIN
PLUG AND GASKET ASSEMBLY**

Please record this article on the Service Bulletin Reference page at the end of the Transmission section of your 1956 Passenger Car Shop Manual.

It has been our practice to service drain plugs and all related gaskets as separate items. Accordingly, Part No. 1540938 Drain Plug, and Part No. 1540939 Gasket were released as service items.

It is not practical to carry these separate pieces since the gasket must be assembled to the plug by a special process. We will now, therefore, service only the plug and gasket assembly Part No. 1540937.

**FLIGHTOMATIC TRANSMISSION -
56G MODEL CARS**

Please record this article on page 31 of your 1956 Passenger Car Shop Manual.

The Studebaker Automatic Drive is no longer used in production. Starting with car serials G-1360743 (C&K) and G-136169? (W, F, D), South Bend produced 56G model passenger cars equipped with automatic will have the Flightomatic transmission installed. The service procedure is the same as covered in the Flightomatic portion of the Transmission section in the 1956 Passenger Car Shop Manual.

DOME LIGHT DOOR AND LENS REMOVAL - 1956 HAWK SERIES MODELS

Please record this article on the Service Bulletin reference page at the end of the Body section of your 1956 Passenger Car Shop Manual.

Removal of the dome light door and lens assembly must be carefully performed to avoid damage to the bard board headlining panel. The door and lens assembly must be **parted** rather than pried off.

Removal Procedure

Grasp the dome light door and lens near the switch end and gently pull outward. Insert a long, thin screw driver blade or sharp awl about 1/2" to the rear of the switch from the lower edge, between the door and lens and light body assemblies. Twist or pry to part the door and lens from the body. Be Careful not to damage the headliner. When separation has taken place, use a larger screw driver in the same manner to complete the removal.

Reinstall the door and lens assembly carefully in the usual manner.

synchroesh T98 transmission to reduce end thrust on the main and countergear shafts. In the T98 transmission, the spiral on the main drive pinion, countershaft, and mainshaft gears runs from the right front toward the left rear of the transmission case (see Fig. 1). On the

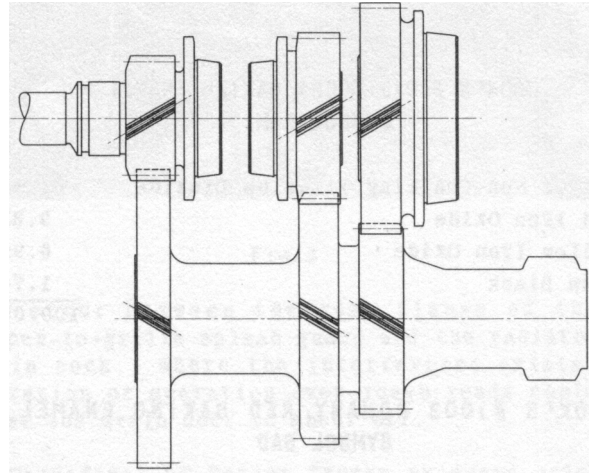


FIG.2 - T98A

new T98A transmission the spiral is reversed and runs from the left front toward the right rear (see Fig. 2). The transmissions are interchangeable as a unit except where the truck is equipped with a power take-off in which case a different power take-off will be required. (See chart page 5).

The T98A transmission is identified by a metal tag stamped "A" attached on the right side by the center, shift tower base, retaining cap screw. It can also be identified by a code number stamped at the left rear on the case adjacent to the shift tower base.

The letter designates the month; the digits indicate the day, year, and shift on which the transmission was built. For example: G1253. The "G" is the seventh letter - July; 12 - the twelfth day; 5 - the year 1955, and the 3 - the third shift.

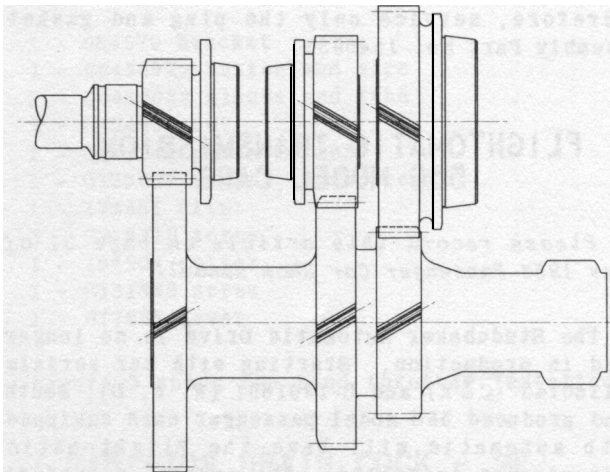
The T98A transmission entered production with the following engine numbers;

Model	Engine No.
2E7, 2E12	23-8336
2328	33-1652
2338	53-3926

TRUCK SERVICE ITEMS

TRANSMISSION - 4 SPEED SYNCHROMESH - 2E SERIES TRUCKS

A change has been made in the 4 speed



Fi 6.1 - T98

POWER TAKE-OFF MODELS FOR 2E28-2E28B-2E38-2E38B TRUCKS

Using Warner T98A Transmission with Band Brake or Tru-Stop Brake

Company	P.T.O. Model	Type	P.T.O. Rev. to 1000 Eng. RPM			No. of Gears	Rotation of P.T.O. Drive Shaft	Adapter	Spacer
			High	Low	Rev.				
Braden Winch Company Broken Arrow, Oklahoma P.T.O. made by Arrow Gear Company Broken Arrow, Oklahoma	KHW7A-1	LD	490				Eng. Rot.	None	None
	FNW7A-1	MD	490				Eng. *Rot.	None	None
	CHW7A-1	MD	830				Opp. Eng. Rot.	None	None
	GLHW7A-1	MD	376				Opp. Eng. Rot.	None	None
	RHF7A-1B	HD		402	593		Eng. Rot. & Rev.	None	None
	RHF7A-2F	HD		402	593		Eng. Rot. & Rev.	None	None
	BHW7A-1B	HD	872	402	593		Eng. Rot. & Rev.	None	None
	BHF7A-2F	HD	872	402	593		Eng. Rot. & Rev.	None	None
	WHW7A-1BA * (S.S. Shaft)	HD		402	593		Eng. Rot. & Rev. Opp. Eng. Rot.	None	None
WRHW7A-6FA * (S.S. Shaft)	HD		402	593		Eng. Rot. & Rev. Opp. Eng. Rot.	None	None	
Che Isea Products Company Chelsea, Michigan Used by the following: The Anthony Company Edwards Iron Works The Gallon Allsteel Body Co. The Heil Company Hercules Steel Products Marion Metal Products Co.	1CF; 1CB ▲	LD	510			1	Eng. Rot.	None	None
	ICFN; LCFWN ▲	MD	510			1	Eng. Rot.	None	None
	4ICF-C4 ▲	HD	650			2	Opp. Eng. Rot.	None	None
	4 IKCF-C4 ▲	HD	819			2	Opp. Eng. Rot.	None	None
	45CF-A2 * ▲	HD	580				Opp. Eng. Rot.	None	None
	35CF-B2 ▲	HD	750		580		Eng. Rot. & Rev.	None	None
	55CF-B2 ▲	HD	750	270	580- 210		Eng. Rot. & Rev.	None	None
	95CF-B2 ▲	HD	580	210			Opp. Eng. Rot.	None	None
	R35CF * (S.S. Shaft)	HD	750		580		Eng. Rot. & Rev. Opp. Eng. & Rev.	None	None
	65CF * (S.S. Shaft)	HD	580	210	750- 270		Opp. Eng. & Rev.	None	None
Gar Wood Industries, Inc Wayne, Michigan Used by the following: Edwards Iron Works	90-HOOOFA-Rev. ** A	MD	490			1	Eng. Rot.	None	None
	92-HOOOFA-Rev. A	HD	593			2	Opp. Eng. Rot.	None	None
	84YHOOOFA-Rev. ▲	HD	889	372	604	4	Opp. Eng. & Rev.	None	None
	93-HOOOFA-Rev. A	HD	902		602	3	Eng. Rot. & Rev.	None	None
Spicer Mfg. Company Toledo, Ohio Used by the following: Tulsa Winch Company H. S. Watson Company	AANF7-12 ▲	MD	527				Eng. Rot.	None	None
	GNF7-12 ▲	HD	618				Opp. Eng. Rot.	None	None
	HN7-12 ▲	MD	1094				Opp. Eng. Rot.	None	None
	KANF7-11	HD	625				Opp. Eng. Rot.	None	None
	RNF7-12 ▲	HD	720		576		Eng. Rot. & Rev.	None	2396
XNT7-31 ▲	HD	889	372	604		Opp. Eng. & Rev.	None	23P24	

A - With Band Brake Only.

▲ - With Band **Brake** or Tru-Stop Brake.

** - With Tru-Stop Brake use Short "U" Joint similar to Neapco 16G3G3.

LD - Light Duty.

MD - Medium Duty,

HD - **Heavy** Duty.

* - Dual Shafts.

SS - Single Speed Shaft.

REAR WIRING HARNESS 1/2, 3/4 AND 1 TON 2E MODEL TRUCKS

The 1/2, 3/4 and 1 ton 2E model trucks are being produced with two types of rear wiring harness. **One type has a single wire protruding from the harness, the other type, 2 wires.**

The reason for this is that many states now require that trucks be equipped with class A turn signal lights when placed in service. An equal number of states do not have this requirement. Therefore, trucks being produced with pick-up boxes installed will have the one wire protruding from the harness which provides for connecting the second or dual tail light.

All chassis and cab units (minus body) are produced with two wires protruding from the harness since the type of body to be installed is unknown. The two wires provide convenient connection for class A turn signals in which the stop light is also used as the turn signal.

The wiring harness with the two wires **protruding will be used on trucks equipped with pick-up boxes where the request for class A turn signals appears on the original order.**

HAND THROTTLE

occasionally, inquiries are received concerning the parts needed to install a hand throttle on E Series V8 engines equipped with 2-barrel carburetors. While the requests are **too few** to release the parts in a kit form, individual pieces are available through your regular parts depot.

The parts required are as follows:

- 1 - 684570 bracket
- 1 - 684359X2 button and wire
- 1 - 684360X2 sleeve and tube
- 1 G124934 nut
- 1 G103344 plain washer
- 1 G135 629 was her, Shakeproof
- 1 - 1'72651 clip
- 1 G218318 screw
- 1 184294 collar
- 1 C131949 screw
- 1 677683 lever

Figure 3 shows the hand throttle installed.

RADIATOR DRAIN COCK - 2E SERIES TRUCKS

Because of a variation in sheet metal shimming there is a possibility that an interference

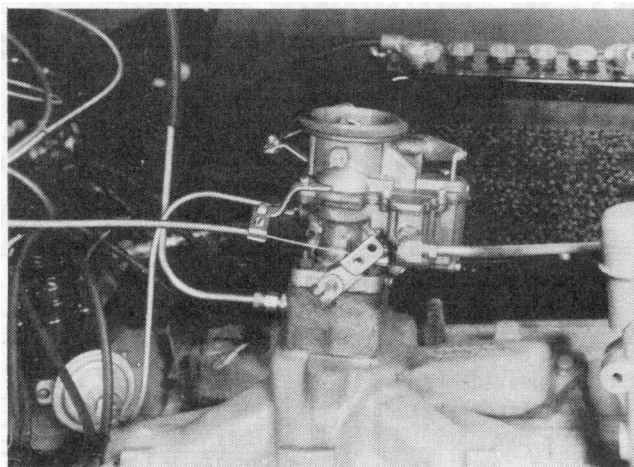


FIG. 3

may occur between the rear flange of the bumper-to-grille splash guard and the radiator drain cock. where the interference exists, vibration or operation over rough roads could cause the drain cock to shear off.

Therefore, 2E Series Trucks produced prior to the following serial numbers should be inspected to see that adequate clearance exists. To provide clearance, bend the rear flange of the splash guard down or cut a notch in the flange.

E5- 121007	E12 - 2433	E28 - 4817
E7 - 6045	E13 - 938	E38 - 5745

The 2E5 models equipped with the standard radiator are not affected.

INCORRECTLY MARKED VIBRATION DAMPER FLYWHEEL 2E7 AND 2E12 MODEL TRUCKS

There is a probability that some 224 cu. in. V8 engines used in the 2E7 and 2E12 model trucks were produced with a vibration damper flywheel having incorrect timing marks.

where this condition exists It would be impossible to accurately check valve timing and the ignition **timing** mark would be 12° BTC instead of the desired 4° BTC.

should you receive a complaint of 'Spark knock' or 'pinging' or even poor engine performance on trucks with engine numbers from 23-7312 to 23-8926 inclusive, the vibration damper flywheel **identification** marks should be



FIG.4

checked before attempting any repairs or adjustments.

The correct damper flywheel will have 536563 (Part number) stamped on the rim as shown in Fig. 4. The incorrect damper flywheel will have a 6H staaped on the face, approximately

3/4" from the rim, and adjacent to the timing marks as shown in Fig. 5.

Whenever an incorrectly marked damper flywheel (6H) is round, it should be immediately replaced with the Part No. 536563 damper flywheel and the ignition set to the new timing mark.

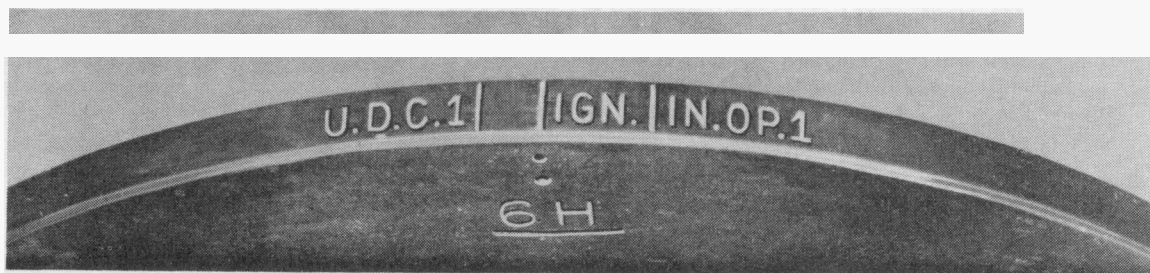


Fig. 5

**PAINT FORMULAS FOR
1956 MODEL TRUCKS**

The following paint formulas are for the 1956 model trucks:

**O' BRIEN'S #1005 DAYBREAK BLUE BAKING ENAMEL -
SYMBOL BAF**

Phthalocyanine Blue	.23%
Titanium Dioxide (Rutile)	16.3
Syn. Resin Alkyd	26.0
Melamine	7.6
Thinner	49.87
Traces - Indo Red	--
Traces - Red Iron Oxide	--
Traces - Lamp Black	--
	<u>100.00%</u>

**JONES-DABNEY #1000 MIDNIGHT BLACK BAKING ENAMEL
SYMBOL BAA**

% Pigment Composition	% Vehicle Composition
75.00 Carbon Black	90.00 Alkyd Resin
25.00 Toning Blue	<u>10.00</u> Melamine
100.00%	100.00%
	Non-Volatile = 43.00%

**COOK'S #1003 ROMANY RED BAKING ENAMEL -
SYMBOL BAD**

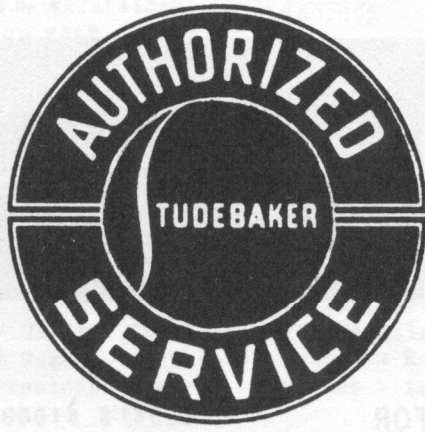
Cadmium Red Medium Light	100.00%
Indo Maroon	Trace

**COOK'S #1004 SEASIDE GREEN BAKING ENAMEL -
SYMBOL BAE**

Rutile Non-Chalking Titanium Dioxide	99.18%
Phthalo Green	.69
Phthalo Blue	.13
	<u>100.00%</u>

**COOK'S #1021 SQUADRON BLUE NON-METALLIC BAKING
ENAMEL - SYMBOL BAV**

Rutile Non-Chalking Titanium Dioxide	57.48%
Iron Blue	38.81%
Red Iron oxide	2.12
Indo Maroon	1.16
Lamp Black	.43
	<u>100.00%</u>



STUDEBAKER DIVISION

Studebaker-Packard Corporation

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