

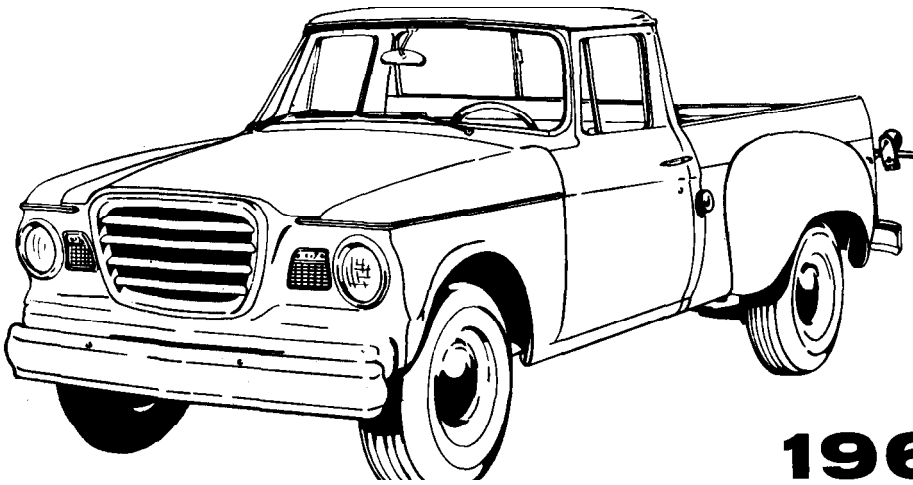
# Service Bulletin

FEBRUARY

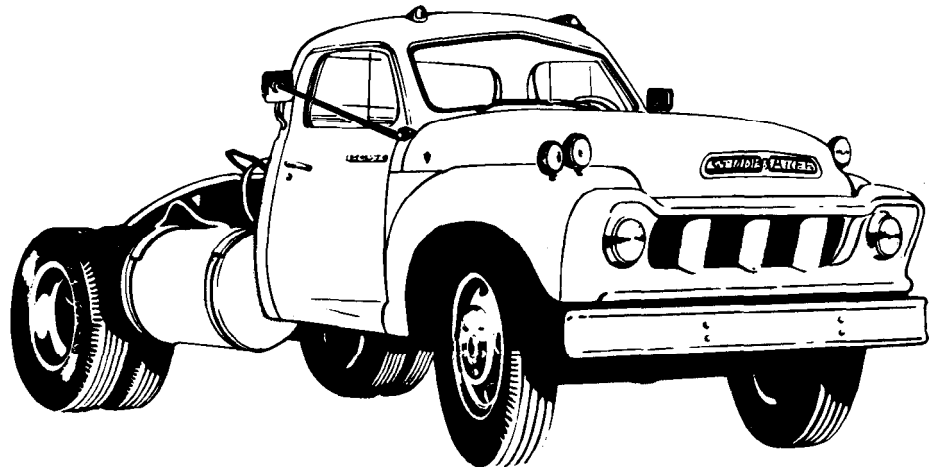
1960

NO. 352

SOUTH BEND 27, INDIANA



## 1960 -STUDEBAKER TRUCKS



### STARTING SERIAL NUMBERS

5E5	E5-127301	5E13	E13-3201
5E6	E6-18201	5E14	E14-3301
5E7	E7-12301	5E16	E16-45601
5E11	E11-13901	5E28	E28-6801
5E12	E12-4301	5E40	E40-3501

### FOUR WHEEL DRIVE MODELS

4E6D	E6D-18002	4E12D	E12D-4197
4E7D	E7D-12211	5E13D	E13D-3201
4E11D	E11D-13815	5e14D	E14D-3301

**MODEL INFORMATION**

<u>MODEL</u>	<u>WB</u>	<u>RATING</u> (ton)	<u>GVW</u>	<u>PICK-UP</u> <u>BOX LENGTH</u>
5E5	112 & 122	1/2	5000	6 1/2 & 8
4EGD	112 & 122	1/2	5400	6 1/2 & 8
5E6	132 & 122	1/2	5200	6 1/2 & 8
4E7D	112 & 122	1/2	5400	6 1/2 & 8
5E7	112 & 122	1/2	5200	6 1/2 & 8
4E11D	122	3/4	7400	8
5E11	122	3/4	7000	8
4E12D	122	3/4	7400	8
5E12	122	3/4	7000	8
5E13D	131	1	9400	9
5E13	131	1	10000	
5E14D	131	1	9400	9
5E14	131	1	10000	
5E16	131-155-171	2	18000	
5E28	131-155-171	2	18000	
5E40	131-155-171-195	2 Ton HD	19500 * *	

\*Export GVW Rating 23000 lbs - MODEL 5E40-B

\*\*Model 5E40 - 131" WB GVW is 35000 when used as trailer tractor

**SERIAL NUMBER PLATE**

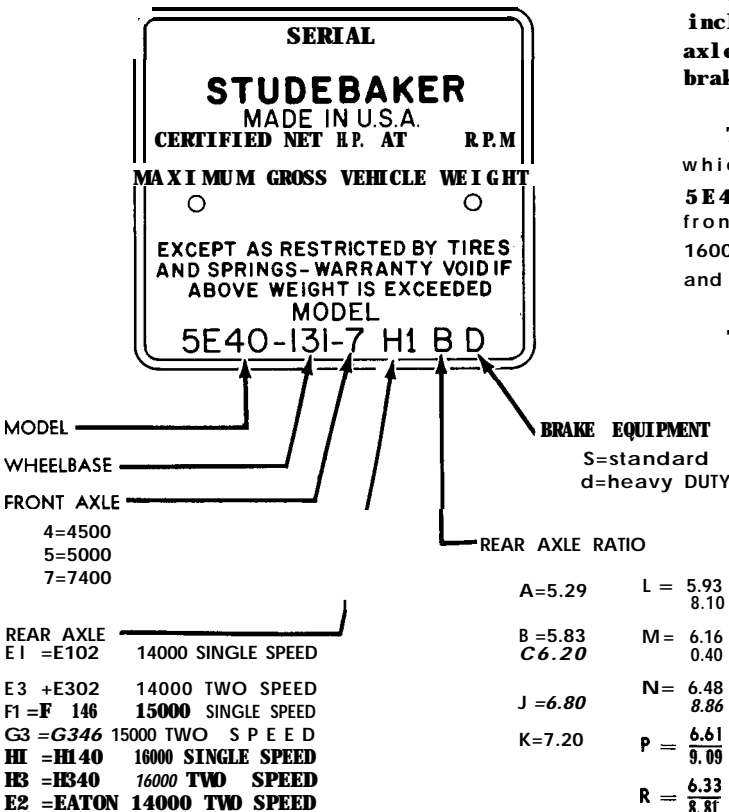
The serial number plate on the 1/2 and 3/4 ton models is located on the body post, below the door striker plate.

The serial number plate on the 1, 1/2 and 2 Ton models, is located below the left side of the seat.

The information given on the serial plate includes a code, which reveals type of front axle, rear axle (including gear ratio) and brake equipment installed at time of production.

The code is explained in the illustration, which in this case indicates the model as a 5E40 131 inch wheel base, with a 7400 1 b. front axle. Rear axle type is a model H-140 - 16000 lb. single speed with a 5.83 to one ratio and equipped with heavy duty brakes.

This information should be used as a reference guide to simplify ordering proper replacement parts.



## BRAKES

<u>SERVICE BRAKES</u>	<u>FRONT</u>	<u>REAR</u>	(Sq. In.) <u>LINING AREA</u>
4E6D, 4E7D, 5E5, 5E6, & 5E7 4E11D, 4E12D, 5E11, 5E12, 5E13, 5E14, 5E13D, 5E14D 5E16, 5E28 5E40, 5E40B	11 X 2 X 3/16  12 1/8 X 2 X 1/4 14 X 2 X 5/16 15 X 2 1/4 X 5/16	11 X 2 X 3/16  12 1/8 X 2 X 1/4 14 1/8 X 3 X 3/8 15 X 4 1/2 X 1/2	177 1/2  198 293 3/4 444 1/4

PARKING BRAKES

	<u>TYPE</u>	<u>LINING AREA (SQ. IN)</u>
5E5, 5E6, 5E7, 4E6D, 4E7D	Rear Wheels	88 3/4"
5E11, 5E12, 4E11D, 4E12D	Rear wheels	99
5E13D, 5E14D	Band	55 5/8
5E13, 5E14, 5E16, 5E28	Band	61 9/16
5E40 5E40B	Band	67 1/2

## CLUTCH

Clutch Diameter - With 169.6 Cu. In. Engine - 9 1/4"  
 - With 259.6 Cu. In. Engine - 10 1/2"  
 - with 289 Cu. In. Engine - 11"

Clutch Area - With 9 1/4" - 77.85  
 - With 10 1/2" - 106.81  
 - with 11" - 123.7

## COOLING

CAPACITIES

	<u>STANDARD</u>	<u>HEAVY DUTY</u>
5E5	11	11
4E6D, 4E11D	15 1/2	16
5E6, 5E11	13 1/2	13 1/2
5E7, 5E12	17	17
5E13, 5E28, 4E7D, 4E12D, 5E13D	20 3/4	21 1/4
5E14, 5E16, 5E14D	16	16 1/2
5E40, 5E40B	21 1/4	

## ELECTRICAL

12 VOLT SYSTEM - 5E5 - Auto-lite  
 - All others - Delco-Remy

GENERATOR - 30 Amp. - all models

BATTERY - Willard - 50 Amp., Standard; Globe - 70 Amp., Optional extra cost

## ENGINES

The 289 cu. in. engine used in the 5E40 and 5E40B models will have heavy duty aluminum timing gear, heavy duty intake and exhaust valves, roto caps on exhaust valves, heavy duty valve springs, top chrome piston rings, and heavy duty tri-metal bearings as standard equipment. This engine will be identified by a 6E prefix to the engine serial number and a clover leaf design stamped on the serial number boss.

A 259 cu. in., heavy duty engine, is also available as optional equipment on models 5E7, 5E12, 5E13, 5E28, 4E7D, and 4E12D. This engine contains the same heavy duty equipment as listed for the 289 cu. in. heavy duty engine. This engine will be identified by a 5E prefix to the engine number.

## ENGINE (Cont'd)

	5E5	4E6D, 4E11D, 5E14D, 5E6 5E11, 5E14, 5E16	4E7D, 4E12D, 5E13D, 5E7, 5E12 5E13, 5E28,	5E40 <b>5E40B</b>
NUMBER OF CYLINDERS	6	6	8	8
DISPL.	169.6	245.6	259.2	289
BORE & STROKE	<b>3x4</b>	3 5/16 X 4 3/4	3 9/16 x 3 1/4	3 9/16 X 3 5/8
COMP. & RATIO	8-1	7.5-1	7.5-1	7.5-1
H P. (MAX. NET)	75	94	141	154
RPM	3600	3200	3800	3800
TORQUE (Max. Net)	133	196	225	260
RPM	1600	1400	2400	2400

## FRAMES

	<u>CROSS SECTION</u>	<u>SECTION MODULUS</u>
5E5, 5E6, 5E7,	7 1/32" X 2 17/64" X 9/64"	3.177
5E11, 5E12, M 4E6D, 4E7D, 4E11D, 4E12D	7 1/16" X 2 9/32 X 5/32"	3.539
5E13, 5E14, 5E13D, 5E14D, also 5E16, 5E28 131" and 155" WB.	B 1/16" X 2 3/4" X 3/16"	5.719
5E40, 5E40b also 5e16, 5E28 171" WB.	8 5/16" X 2 7/8 X 5/16"	9.770

## REAR AXLE

	<u>STANDARD</u>	<u>OPTIONAL</u>
5E5	4.27	4.55
4E6D, 4E7D	4.89	
5E6, 5E7	4.09	4.27, 4.55, 3.73
4E11D, 4E12D	4.88	
5E11, 5E12	4.10	4.88
5E13D, 5E14D	5.14	
5E13	5.14	4.86
5E14	5.83	5.14
5E16, 5E28	6.20	5.29, 5.83, 6.80*
5E40 5E40B	6.80	6.20, 6.80, 7.20**

\* 2- speed axle optional at extra cost and available in ratios 5.93/8.10 and 6.48/8.86

• \* 2- speed axle optional at extra cost and available in ratios 6.16/8.48 and 6.61/9.09

## REAR SPRINGS

	<u>STANDARD</u>	<u>OPTIONAL (EXTRA COST)</u>
4E6D 4E7D	Single Stage	
5E5, 5E6, 5E7	2 stage	H. D. 2 stage
4E11D, 4E12D	Single Stage	
5E11, 5E12	2 stage	H. D. 2 stage
5E13, 5E14, 5E13D, 5E14D	2 stage	H. D. Min WAux.
5E16, 5E28	Min WAUX.	H. D. Min WAux.
5E40	Min WAux.	H. D. Min W/2 Stage Aux.
5E40B	H. D. Min W/2 Stage Aux.	
4E6D, 4E7D, 4E110, 4E12D	Single Stage	

**STEERING**

All models - variable Ratio - Cam and Twin Lever type.

5E5, 5E6, 5E7, 5E11, 5E12 -- Ross T L-12  
 5E13, 5E14, 5E16, 5E28, 5E13D, 5E14D - ROSS TA14  
 5E40, 5E40B -- Ross TA54  
 4E6D, 4E7D, 4E11D, 4E12D - Ross TA12

**TIRES**

5E5, 5E6, 5E7, - Five 6.00 - 1B14 R. tubeless  
 4E6D, 4E7D - Five 7.10-15 4 P. R. tubeless  
 5E11, 5E12, 4E11D, 4E12D - Four 7.00 16 6 P.R. tubeless  
 5E13, 5E14, 5E13D, 5E14D - Four 8 - 17.5 6 P.R. tubeless  
 5E16, 5E28 - Four 8 - 19.5 8 P. R. tubeless  
 5E40, 5E40B-FOUR 8.25 - 20 8 P. R. (With tubes)

Note: Tires with tubes are available as optional equipment.

**TRANSMISSION- STANDARD**

5E5, 5E6, 5E11 - 3 speed (Warner T-90-B)  
 5E7, 5E12 - 3 speed (Warner T-89-c)  
 5E13, 5E14, 5E16, 5E28, 4E6D, 4E7D, 4E11D, 4E12D, 5E13D, 5E14D - 4 speed (Warner T-98-A)  
 5E40 (5E28 opt IONAL - 4 Speed (New pROCESS 420)

**OPTIONAL**

Warner Automatic - optional at extra cost - on Models 5e7 & 5e12

Warner T-98-A optional On models 5e5, 5e6, 5e7, 5e11, 5e12, & 5e40.

New Process Model 5400 (5 speed direct ) and Model 540-0D

(5 Speed overdrive) available as optional equipment , AT extra cost 5E13, 5E28, 5E40 & 5E40b.

**CAB**

T-4 (standard cab equipment) on 5E5, 5E6, 5E7, 5E11, 5E12.

c-2 (standard cab equipment) on 5E13, 5E14, 5E16, 5E28, 5E40.

Includes: chrome front fender name plate, inside rear view mirror, adjustable seat, dual electric windshield wipers, ash receiver, all Vinyl seat and back trim, Vinyl headlining, underslung tire carrier, painted hub covers.

Includes: Left arm rest, cab door name plates, instrument panel pad, outside mirrors, (extension type), sliding adjustable seat, left sun visor, sun and rain visors on doors, dual electric windshield wipers, direct reading ammeter and oil pressure gauges and, all vinyl seat Cushion and back.

T-6 (Deluxe cab equipment) on 5E5, 5E6, 5E7, 5E11, 5E12.

C-4 (Deluxe cab equipment) on 5E13, 5E14, 5E16, 5E28, 5E40

Includes in addition to items listed for a C-2 cab,

Includes in addition to items listed for

T-4 cab.

Chrome grille chrome parking lamp and air intake grilles, chrome headlight rims, stainless steel fender moldings, stainless steel exterior windshield trim moldings, instrument board upper crash pad, dual sun visors, two arm rests, foam rubber Seat cushion pad, sliding rear window glass, chrome hub covers, chrome gas tank cap, chrome trim vent window wings.

Dual arm rests, foam rubber seat cushion pad, dual sun visors, map light and ash receiver.

NOTE - The C-4 deluxe cab is standard on models 4E7D, 4E12D, 5E13D.

## OPTIONAL EQUIPMENT \*

## OPTIONS FOR MODELS - 5E5 5E6, 5E7, 5E14, 5E12

Air cleaner - oil bath 1 pt. or 1 qt.  
 Arm rests - 2 - (T.4)  
 Axle - Twin Traction  
 Battery 70 amp. H. D.  
 Brake Hydrovac 6 3/4"  
 Bumper - rear (Painted)  
 Climatizer and defroster  
 Clutch 11" (V8 only)  
 Directional signals - Class A & B  
 Glass - tinted (windshield only or tinted all around)  
 Hill Holder - N. A. on Automatic)  
 Horns (dual)  
 Hub covers - (Painted 5E11, 5E12)

Light - dome  
 - dual tail and stop  
 Lighter - Automatic cigarette  
 Locks - dual door  
 Mirrors - outside short  
 Oil filter - 1 qt.  
 Pad - crash - upper inst. board (T-4)  
 Pad - foam rubber - seat (T-4)  
 Radio  
 Radiator H. D.  
 Tire carrier - side mount  
 - inside pick up box  
 Visor - R. H. (T-4)  
 Windshield washer  
 Window glass - sliding rear (T-4)

## OPTIONS FOR MODELS 5E13, 5E14, 5E16, 5E28, 5E40, 5E40B

Air cleaner - oil bath - 1 qt. (Std. on V8)  
 Battery - HD 70 amp.  
 Brake - Hydrovac booster - 6 3/4"  
 - Hydrovac booster - 9 1/2" (std. on 5E40)  
 Brakes - H. D. rear (15 X 4) 5E16, 5E28  
 (Available with 20" wheels only)  
 H. D. Front and rear (heavy duty hydrovac and  
 M/cylinder 5E40  
 Climatizer - fresh air heater with defroster  
 Directional signals - Class "A"  
 Door side moldings (Std with 2 tone Paint)  
 Frame H. D. (5E16, 5E28)  
 Frame reinforcements  
 Fan - heavy duty  
 Generator - 40 Amp H. D. (V8 only)  
 - 40 Amp H. D. early cut in  
 - Leece-Neville 50 Amp. (alternator)  
 Glass - tinted (windshield only or tinted all around.)

Governor (N.A. with power package)  
 Hill Holder  
 Horns (dual)  
 Lights (dual tail & stop)  
 Light - Map  
 Lighter - Cigarette  
 Mirror, Inside rear view  
 Oil Filter  
 Paint - two tone  
 Power package - 4 bbl. carb. (V8 only)  
 Radio  
 Radiator H. D. (includes H. D. fan)  
 Shock absorbers  
 Steering - Power (V8 only)  
 Transmission - 5 speed O. O. (V8 only)  
 - 5 speed direct (V8 only)  
 Vacuum reserve tank  
 1 Windshield washer

" At extra cost

NOTE: - Heavy duty engines which contain top chrome piston rings, heavy duty inlet and exhaust valves, exhaust valve roto-caps, heavy duty main and connecting rod bearings, aluminum timing gear, are available on Models 5E7, 5E12, 5E13, 5E28, Heavy duty 289 cu. in engine is standard on 5E40 model.

**PAINT COLORS**

P-6050 velvet Black  
 P-6051 Parchment White  
 P-6052 Sherwood Green (dark)  
 P-6053 Oasis Green (light)  
 P-6054 Alaskan Blue (light)

P-6055 Apache Red  
 P-6056 Sandalwood Biege  
 P-6057 Gulfstream Blue (dark)  
 P-6058 Omaha orange

**TWO TONE** . Above colors used with Parchment white  
 uppers (at extra cost)

\*SOLID COLORS ONLY (NO TWO TONE) on Mdels 5E5, 5E6, 5E7, 5E11, 5E12,

**FORMULATIONS**

Rinshed-Mason #1066 Parchment white Baking Enamel - BCP (their E23W014)

TiO2 Titanium 99.0%  
 Ferrite 1.0%  
 100.0%

Cook's #1084 Velvet Black Baking Enamel, BDH (their #832-B-600)

Carbon Black 100.0%

Rinshed-Mason #1029 Apache Red Baking Enamel, BBD - (E21R046)

Cadnium Red - Medium Light 55.0%  
 Cadnium Red - Light 40.0%  
 Thio Indigo Maroon 5.0%  
 (Dry weight of pigment) 100.0%

Tints of Titanium Oxide and traces of black will also be required, amounts depending on dispersion factors and individual processing. Exact ratio of the main pigments will also depend slightly upon these same factors.

Cook's #1104 Gulfstream Blue Baking Enamel - BEB (their #832-L-602)

Rutile non-Chalking Titanium Dioxide 66.0%  
 Alkali Resistance Iron Blue 30.0%  
 Lamp Black 3.7%  
 Ferrite Yellow .3%  
 100.0%

O'Brien #1107 sandalwood Beige Baking Enamel BEE (their S.1764)

Pigmentation  
 Non-Chalking Titanium Dioxide 96.3%  
 iron Oxide Yellow 2.4%  
 Iron Oxide Red 1.0%  
 Lamp Black .3%  
 100.0%

Vehicle - Alkyd Melamine

Niles Chemical Co's #1073 Omaha Orange Baking Enamel. - BCW

Medium Chrome Yellow 33 lbs.  
 Mlybdate Orange 12 lbs.  
 soya Resin - 50% Solids 278 lbs.  
 MM 55 Melamine 50% Solids 26 lbs.  
 Solvent 77 lbs.

The above formulation is for a 50 gallon batch. Weight per gallon 8.64. Viscosity 38 seconds #4 Ford Cup.

Niles chemical Co's. #1039 Sherwood Green Baking Enamel - BBN

Chrome Green Extra Dark 7.3%  
 Titanium Dioxide 2.3%  
 Resin 32.4%  
 Thinners 58.0%  
 100.0%

Dupont #1083 Alaskan Blue Baking Enamel. - BDG-their #289-76239

289-0953 White 55.3%  
 253-0630 Ferrite Yellow 27.6%  
 253-0284 Black 1.6%  
 253-0505 Blue 0.5%  
 B-547 Base 10.0%  
 B-164 Base 5.0%  
 100.0%

O'Briend's #1105 Oasis Green Baking Enamel - BEC (their S-1763)

Pigmentation  
 Non-Chalking Titanium Dioxide 86.6%  
 Iron Oxide Yellow 12.6%  
 Phthalocyanine Green .8%  
 Lamp Black Trace  
 100.0%

Vehicle - Alkyd Melamine

**SERVICE INFORMATION**

The (T-6) Deluxe cab equipment, available on **1/2** and **3/4** ton Models, includes a rear body window of new design. The window is a two piece sliding glass type. (See illustration).

To remove the window, remove the screws that retain the side and upper portion of the garnish molding. The garnish molding side and upper portion can then be removed in one piece. It is not necessary to remove the bottom garnish molding.

Slide the right portion of the glass to the opposite side and carefully loosen the double row glass run channel which is retained to the body with trim cement. After removing the right side section of double row channel, slide both glass sections to the opposite side and carefully loosen and remove the other section of double row glass run channel. Each glass section can then be lifted out.

The lower section of double row, glass run channel may be removed after the glass sections



have been listed out. Care should be exercised when handling the glass run channels if they are to be used over again. A bent or distorted channel will cause the glass to resist sliding in the channel.

**STUDEBAKER-PACKARD CORPORATION**

**SOUTH BEND 27, INDIANA**