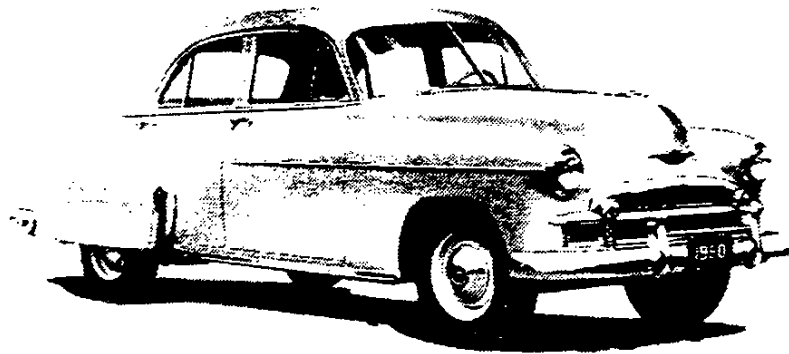




# CHEVROLET



1950 Chevrolet. Styleline Deluxe four-door sedan. 6-cyl

**1950**



# CHEVROLET 1950 SPECIFICATIONS

ISSUED TO

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Prepared  
by

ENGINEERING DEPARTMENT—TECHNICAL DATA GROUP  
CHEVROLET—CENTRAL OFFICE  
DIVISION OF GENERAL MOTORS CORPORATION  
DETROIT 2, MICHIGAN

Lithographed in U.S.A.

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5-1-50. Revised: 9-15-50, • - New page.

**PASSENGER  
CARS**

**ABBREVIATIONS**

AC ----- AC Spark Plug Division  
 adj ----- adjustment  
 amp ----- ampere  
 approx ----- approximately  
 assy (assys) ----- assembly  
 aux ----- auxiliary  
 avg ----- average

bak ----- baking  
 bar. ----- barometric  
 BC ----- bottom center  
 brg ----- bearing  
 BTC ----- before top center  
 bush. ----- bushing

cap. ----- capacity  
 Chev (Ch) ----- Chevrolet  
 COE ----- cab-over-engine  
 col ----- column  
 ccm ----- commercial  
 conn ----- connecting  
 conv ----- conventional  
 COPO ----- Central Office Production Order  
 cp ----- candle power  
 cu ft ----- cubic feet  
 cu.in. ----- cubic inches  
 cyl ----- cylinder

DLO ----- daylight opening  
 dia ----- diameter  
 displ ----- displacement  
 DR ----- double row  
 Dul ----- Dulux

eng ----- engine  
 equip. ----- equipment  
 ext ----- exterior

F ----- Fahrenheit  
 fab ----- fabric  
 fr ----- front  
 ft ----- feet  
 ft lb ----- foot pounds  
 ft/mi ----- feet per mile

gal ----- gallon  
 gen ----- generator  
 GM ----- General Motors

**ABBREVIATIONS AND SYMBOLS**

gov ----- governor  
 GVW ----- gross vehicle weight

HD ----- heavy duty  
 Hg ----- mercury  
 HR ----- hot rolled  
 hr ----- hour  
 Hy ----- Hyatt

ID ----- inside diameter  
 i.e. ----- that is  
 im ----- imitation  
 in. ----- inches  
 in<sup>3</sup> ----- inches cubed  
 in<sup>4</sup> ----- inches to fourth power  
 incl ----- included  
 instr ----- instrument

lb (lbs) ----- pounds  
 lea. ----- leather  
 LH ----- left hand

matl ----- material  
 max ----- maximum  
 mf ----- microfarads  
 mi ----- mile  
 min ----- minute & minimum  
 mm ----- millimeter  
 MPH ----- miles per hour

ND ----- New Departure  
 neg ----- negative  
 No. (no.) ----- number

OD ----- outside diameter  
 oz ----- ounce

pc ----- piece  
 PD ----- pitch diameter  
 pr ----- ply rating  
 press. ----- pressure  
 proj ----- projected  
 prop. ----- propeller  
 PSI ----- pounds per square inch  
 pt ----- pint

qt ----- quart

R ----- Roller  
 rad ----- radiator

reg ----- regular  
 ret ----- retaining  
 rev ----- revolutions & reverse  
 rev/mile -- revolutions per mile  
 RH ----- right hand  
 RPM ----- revolutions per minute  
 RPO -- regular production option  
 rr ----- rear

SAE ----- Society of Automotive Engineers  
 Sag. ----- Saginaw  
 Sed Del ----- Sedan Delivery  
 SFE --- Society of Fuse Engineers  
 sq ----- square  
 sq.in. ----- square inches  
 SR ----- single row  
 st ----- stainless  
 stl ----- steel  
 strg ----- steering  
 St Wagon ----- Station Wagon

Tim ----- Timken  
 TC ----- top center  
 trans ----- transmission

U.S. -- United States Rubber Co.

Var ----- Various

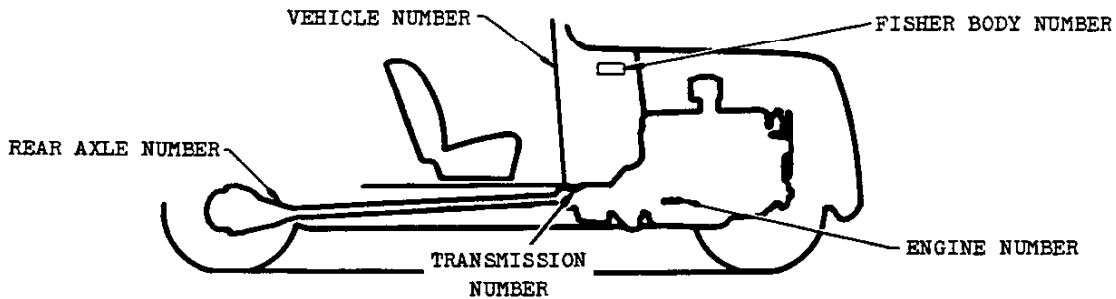
w ----- watt  
 w/s ----- windshield

**SYMBOLS**

# ----- pounds, number  
 + ----- plus  
 - ----- minus  
 & ----- and  
 x ----- by, times  
 : ----- to (ratio)  
 - ----- to (range)  
 / ----- per  
 % ----- per cent  
 ¢ ----- centerline  
 ° ----- degrees  
 ' ----- minutes  
 " ----- seconds, inches  
 + ----- divided by  
 @ ----- at

## SERIAL NUMBERS

SERIAL NUMBER LOCATIONS  
(See descriptions below.)



NOTE: Serial numbers except body number were obtained from Standards Department.

### VEHICLE SERIAL NUMBER

Description ----- Combines symbols for assembly plant, model year, model, and month of manufacture, in that order, followed by serial number for each vehicle. Example: 5 HK-A-2322  
Assembly plant designation:

Flint, Mich. -----	1
Tarrytown, N.Y. -----	2
St. Louis, Mo. -----	3
Kansas City, Mo. -----	5
Oakland, Calif. -----	6
Atlanta, Ga. -----	8
Norwood, O. -----	9
Baltimore, Md. -----	14
Los Angeles, Calif. -----	20
Janesville, Wis. -----	21

Model year designation ----- H  
Model designation:  
Special ----- J  
De Luxe ----- K

Calendar month designation:  
January ----- A  
February ----- B  
March, etc. ----- C, etc.  
Starting serial number ----- 1001 and up, at each assembly plant and for each series.  
Location ----- Stamped on plate attached to left front body hinge pillar.

### ENGINE SERIAL NUMBER

Description ----- Combines symbols for each model year, passenger car engine, and manufacturing plant, in that order, followed by serial number for each engine. Example: HAA-6375  
Model year designation ----- H  
Passenger car designation ----- A  
Plant designation: Flint Tonawanda  
Regular engine ----- A ----- M  
RPO 227 heavy duty clutch --- C ----- P

Starting serial number -----  
----- 1001 and up, at each engine plant.  
Location ----- Stamped on right hand side of cylinder block to rear of distributor.

### TRANSMISSION SERIAL NUMBER

Description ----- Combines symbols for model year, and type and plant, followed by the serial number for each transmission. Example: HB-1764  
Model year designation ----- H  
Plant designation: Saginaw Muncie Toledo

Regular transmission --	A	---	B	---	C
RPO 316 heavy duty } transmission	G	---	H	---	J

Starting serial number -----  
----- 1001 and up, at each transmission plant.  
Location ----- Stamped on left side of case at front edge of cover.

### REAR AXLE SERIAL NUMBER

Description ----- Combines symbols for model year, and type and plant, followed by number of rear axle. Example: HB-507  
Model year designation ----- H  
Plant designation: Gear & Axle Buffalo  
Axle (4.11:1 ratio) ----- A ----- B  
Serial Number -- The first one or two digits represent the month; the last two, the day of month.  
Location ----- Stamped on front, right side of differential carrier.


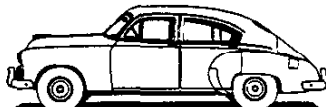


### BODY NUMBER

Description -- Consists of separate numbers and symbols for body style, body number, trim type, and paint combination. Controlled by body source.  
Location ----- Stamped on plate on right hand shoulder of cowl, under the hood.




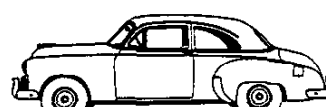

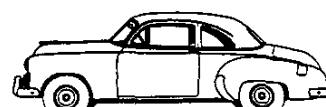

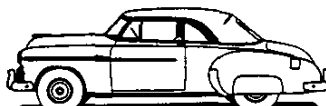


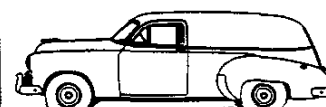


### MODEL IDENTIFICATION

#### FLEETLINE

De Luxe - Series 2100		Name and Description	Special - Series 1500	
Vehicle Type	Model		Model	Vehicle Type
	2153 50-1008 *	<u>4-DOOR SEDAN</u> 6-passenger, 5-window sedan with luggage compartment in rear	1553 50-1208 *	
	2152 50-1007 *	<u>2-DOOR SEDAN</u> 6-passenger, 5-window sedan with luggage compartment in rear	1552 50-1207 *	

#### STYLELINE

De Luxe - Series 2100		Name and Description	Special - Series 1500	
Vehicle Type	Model		Model	Vehicle Type
	2103 50-1069 *	<u>4-DOOR SEDAN</u> 6-passenger, 5-window sedan with luggage compartment in rear	1503 50-1269 *	
	2102 50-1011 *	<u>2-DOOR SEDAN</u> 6-passenger, 5-window sedan with luggage compartment in rear	1502 50-1211 *	
	2124 50-1027 *	<u>SPORT COUPE</u> 6-passenger, 2-door, 5-window coupe with luggage compartment in rear	1524 50-1227 *	
		<u>BUSINESS COUPE</u> 3-passenger, 2-door, 5-window coupe with luggage compartments behind seat and in rear	1504 50-1227B *	
	2134 50-1067X *	<u>CONVERTIBLE COUPE</u> 5-passenger, 2-door, 5-window coupe with folding top; luggage compartment in rear		
	2154 50-1037 *	<u>BEL AIR COUPE</u> 6-passenger, 2-door, 5-window coupe with hard top; luggage compartment in rear		
	2119 50-1062 *	<u>STATION WAGON</u> 8-passenger, 4-door, 7-window, all-steel body with drop and lift gates in rear		
		<u>SEDAN DELIVERY</u> 2-passenger, 3-door, 3-window, panel delivery	1508 50-1271 *	

\* - Fisher Body style number

3-1-50

## VEHICLE WEIGHTS

### FLEETLINE

Vehicle Type	Shipping			Curb		
	Front	Rear	Total	Front	Rear	Total
De Luxe 2-Door Sedan	1725	1390	3115	1750	1495	3245
Special 2-Door Sedan	1705	1375	3080	1730	1480	3210
De Luxe 4-Door Sedan	1730	1415	3145	1755	1520	3275
Special 4-Door Sedan	1720	1395	3115	1745	1500	3245

### STYLELINE

Vehicle Type	Shipping			Curb		
	Front	Rear	Total	Front	Rear	Total
De Luxe 2-Door Sedan	1715	1385	3100	1740	1490	3230
Special 2-Door Sedan	1715	1370	3085	1740	1475	3215
De Luxe 4-Door Sedan	1725	1425	3150	1750	1530	3280
Special 4-Door Sedan	1715	1405	3120	1740	1510	3250
De Luxe Sport Coupe	1720	1370	3090	1745	1475	3220
Special Sport Coupe	1710	1340	3050	1735	1445	3180
Special Business Coupe	1700	1325	3025	1725	1430	3155
De Luxe Convertible Coupe	1845	1535	3380	1870	1640	3510
De Luxe Bel Air	1765	1460	3225	1790	1565	3355
De Luxe Station Wagon *	1690	1770	3460	1715	1875	3590
Special Sedan Delivery	1670	1435	3105	1695	1540	3235

\* - All models are equipped with 6.70-15-4 pr tires except De Luxe Station Wagon which is equipped with 6.70-15-6 pr tires

### VEHICLE WEIGHT CONDITIONS

**SHIPPING WEIGHT:** This weight is established by the Traffic Department. It is the weight of the basic vehicle with all regular equipment and with grease and oil wherever required. It does not include the weight of gasoline or water.

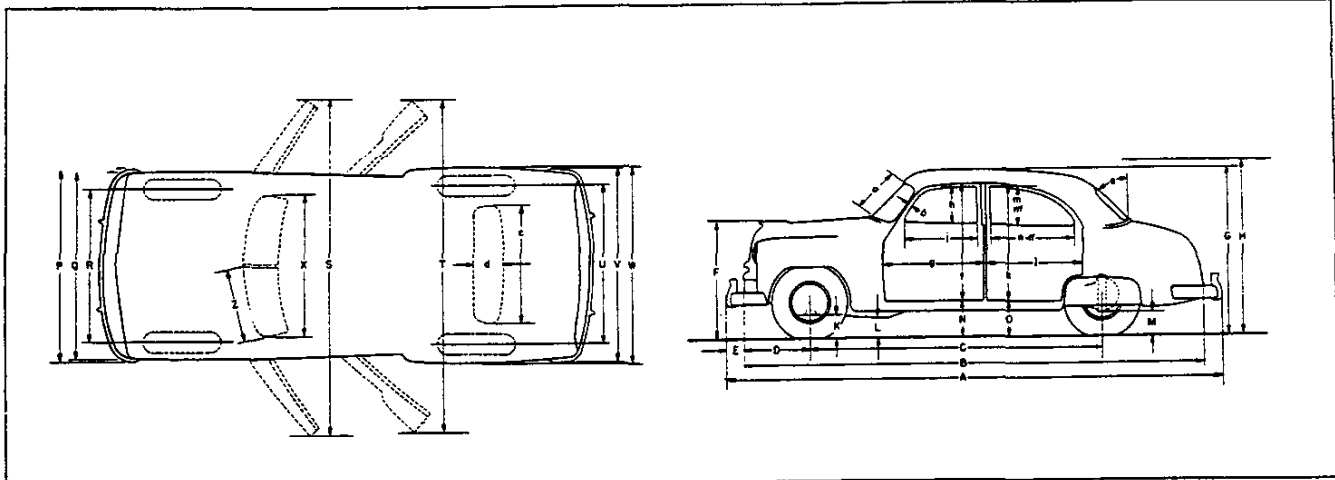
**CURB WEIGHT:** This is the weight of the empty vehicle ready to drive. It is the shipping weight plus the weights of gasoline (99 pounds) and water (31 pounds).

**PERFORMANCE WEIGHT:** This is the curb weight of the lowest priced 4-door sedan in each line with regular equipment plus 600 pounds for passengers. Representative vehicles are:

Fleetline De Luxe 4-Door Sedan	-----	3875 pounds
Fleetline Special 4-Door Sedan	-----	3845 pounds
Styleline De Luxe 4-Door Sedan	-----	3880 pounds
Styleline Special 4-Door Sedan	-----	3850 pounds

3-1-50

EXTERIOR DIMENSIONS



DESCRIPTION		KEY	FLEETLINE				STYLELINE			
			1552 2152	1553 2153	1502 2102	1503 2103	1504-24 2124	2134 2154	2119	1508
Vehicle length	Overall	A	197-1/2						198-1/4	197-1/4
	Grille to body rear at $\phi$	B	182-9/16						184-7/8	182-9/16
	Wheelbase	C	115							
	Grille to front wheel $\phi$	D	27-9/16							
	Grille to bumper front	E	6-3/4							
Vehicle height	Over ornament, loaded	F*	45-3/4							
	Over roof, loaded	G*	62-3/4		63-5/8		61-15/16	66-13/16	64-3/4	
	Over roof, no load	H $\phi$	64-7/8		65-3/4		64-1/16	70-1/8	67-5/8	
Road clearance	Under front spring seat	K $\phi$	7-15/16 •							
	Under exhaust pipe	L $\phi$	7-1/2							
	Under rear axle center	M $\phi$	8-1/16							
Door step height	Front door, no load	N $\phi$	16							
	Rear door, no load	O $\phi$		16-1/8		16-1/8		16-1/8		
Vehicle width	Over front bumper	P	71-5/8							
	Over front fenders	Q	70-1/2							
	Front wheel tread	R	56-9/16 x							
	Over front doors, open	S	148-1/2	131-3/4	147-1/4	134	145-1/2	141-1/2	134	
	Over rear doors, open	T		133-1/4		132		133-1/2		
	Rear wheel tread	U	58-3/4							
	Over rear bumpers	V	73-3/16							
Wind-shield	Over body maximum	W	73-15/16							
	Width between pillars	X	50-1/4							
	Width, each half	Z $\phi$	27							
	Height on 45° slope	a $\phi$	15-3/4		16-3/4		15	18-5/8	16-3/4	
Corner post on diagonal	b	2-15/16			3			2-15/16		
Rear window	Width	c $\phi$	38-7/16		43-15/16	43-1/4	23-1/2 $\phi$	44-1/2	30-5/8	
	Height on slope	d $\phi$	17		15	12-13/16	5-9/16 $\phi$	12-1/2	10-1/2	
	Slope angle	e	62° 30'		45°		47° $\phi$	21° 30'	27°	
Front door	Opening height	f	41-1/4		42-1/4		41-3/4	43-1/2	42-1/4	
	Opening width	g	43	36-1/8	43	36-1/8	43	36-1/8	36-1/8	
	Window DLO height	h $\phi$	12-1/2		13-3/4		12-3/4	14-1/8	13-3/4	
	Window DLO width	j $\phi$	35-3/4	27-1/8	36	29	36	35-3/4	27-7/8	
Rear side door	Opening height	k		40-1/4		40-1/4		44	For rear door see page 18	
	Opening width	l		32-11/16		32-7/8		32-11/16		
	Window DLO height	m $\phi$		12-1/8		13-5/8		14-3/8		
	Window DLO width	n $\phi$		33-1/2		29-1/8		31		
Rear quarter	Window DLO height	m'E	12		13-3/8		12	14-3/16		
	Window DLO width	n'E	29-1/8		28		18-1/2	17-3/4	32	

\* - Under design load conditions: Curb weight of model 2103, plus five passengers (150 lb each). The design height of frame from ground, thus established, is used for all other models.  $\phi$  - At curb weight height.  $\phi$  - Road clearance based on static conditions of tires and springs under design load (see \*).  $\phi$  - DLO, measured on surface of glass.  $\phi$  - For 2134 only. See page 16 for 2154 rear window DLO.

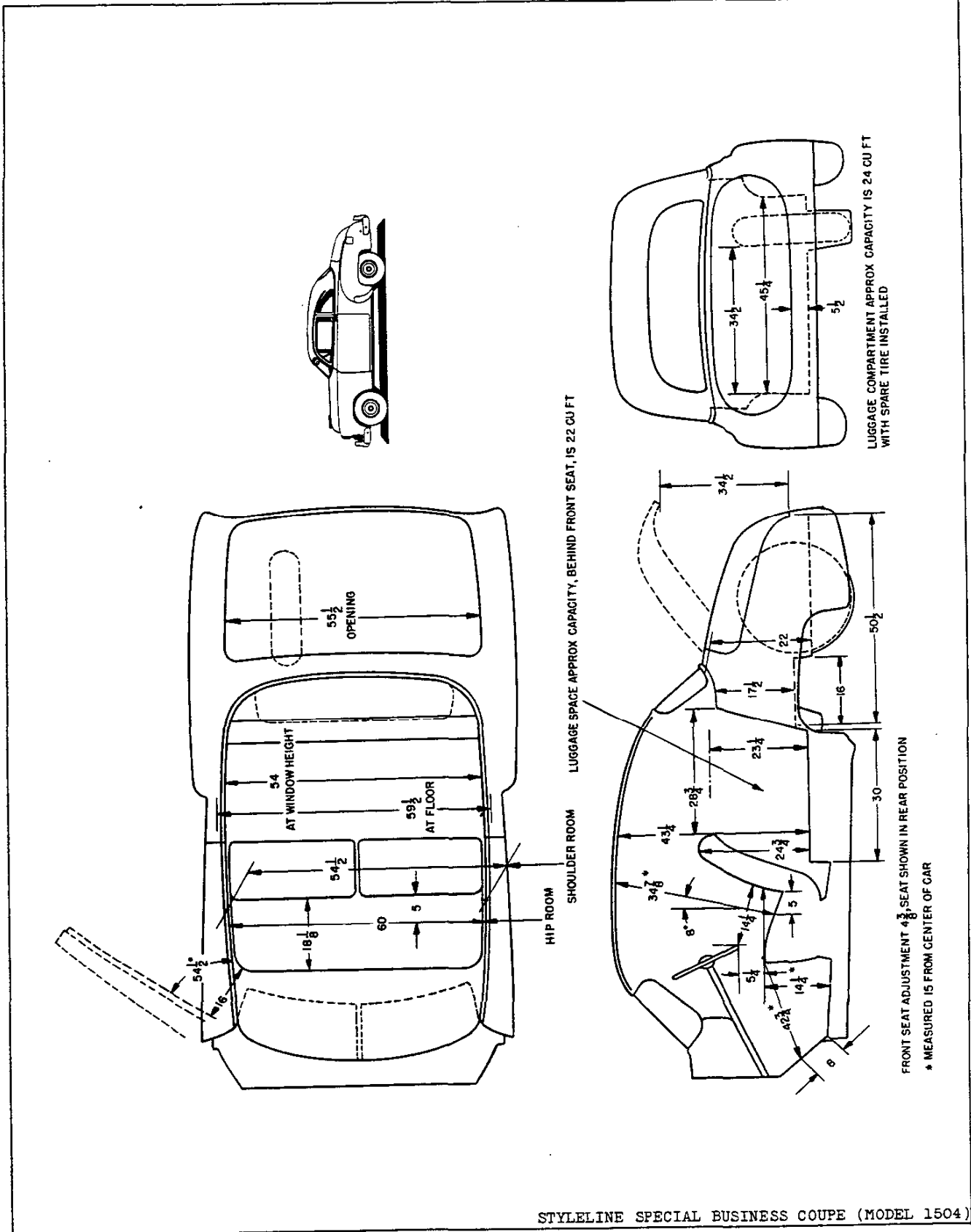
3-1-50. Revised: 9-22-50, • - Under front spring seat height changed; x - Front wheel tread corrected.







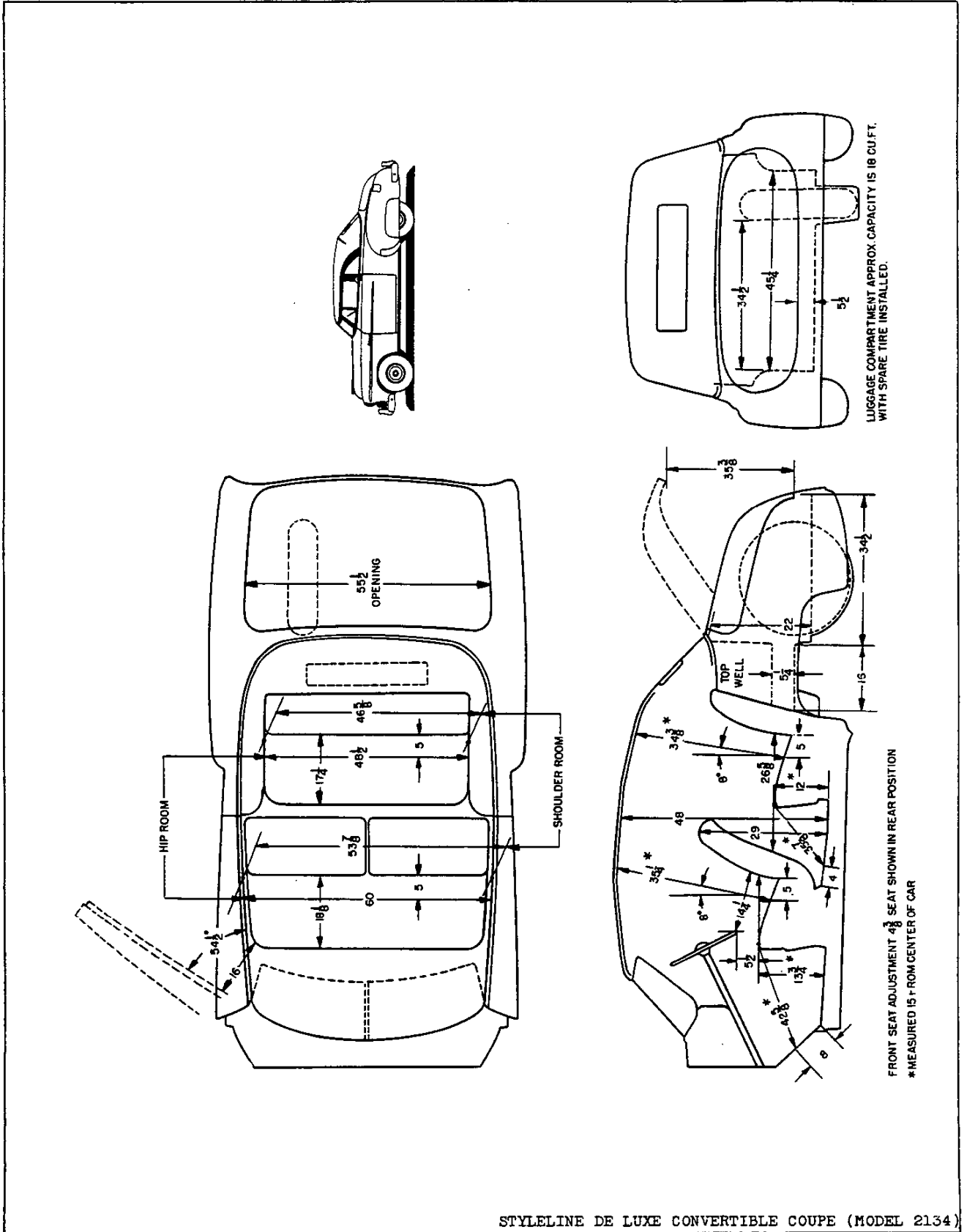
BODY INTERIOR DIMENSIONS—Continued



STYLELINE SPECIAL BUSINESS COUPE (MODEL 1504)

CONTINUED

BODY INTERIOR DIMENSIONS—Continued

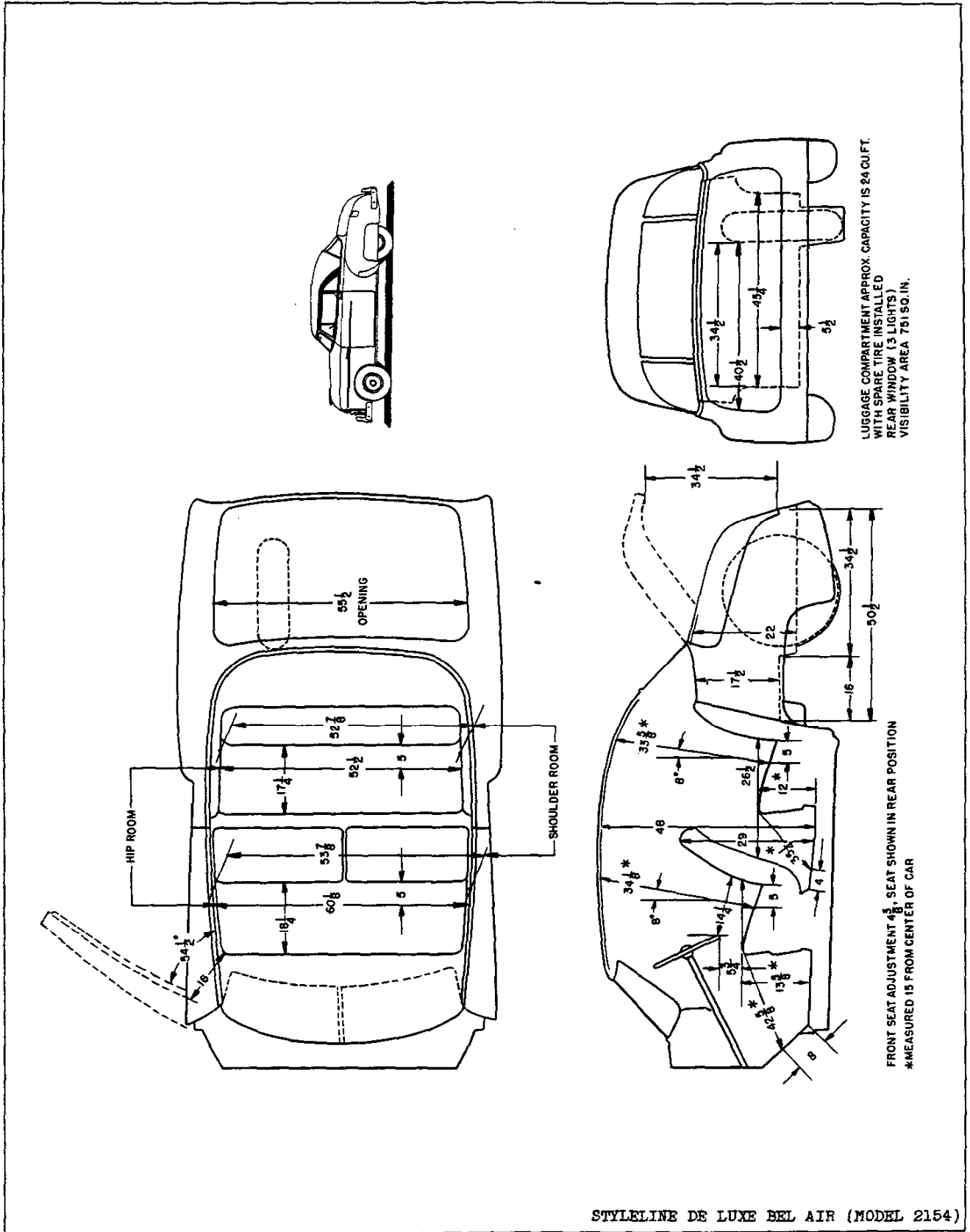


STYLELINE DE LUXE CONVERTIBLE COUPE (MODEL 2134)

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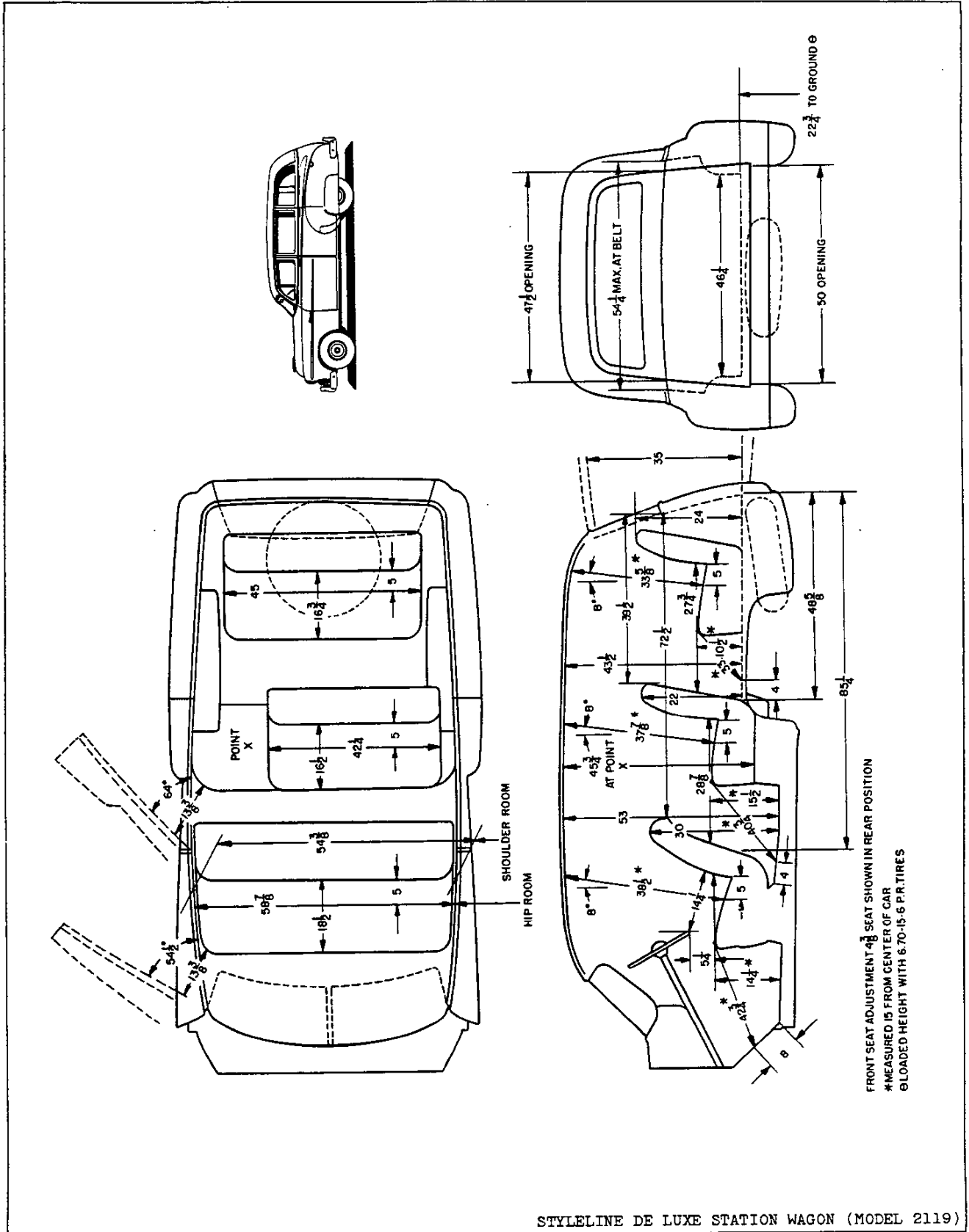
BODY INTERIOR DIMENSIONS—Continued



STYLELINE DE LUXE BEL AIR (MODEL 2154)

CONTINUED

BODY INTERIOR DIMENSIONS—Continued

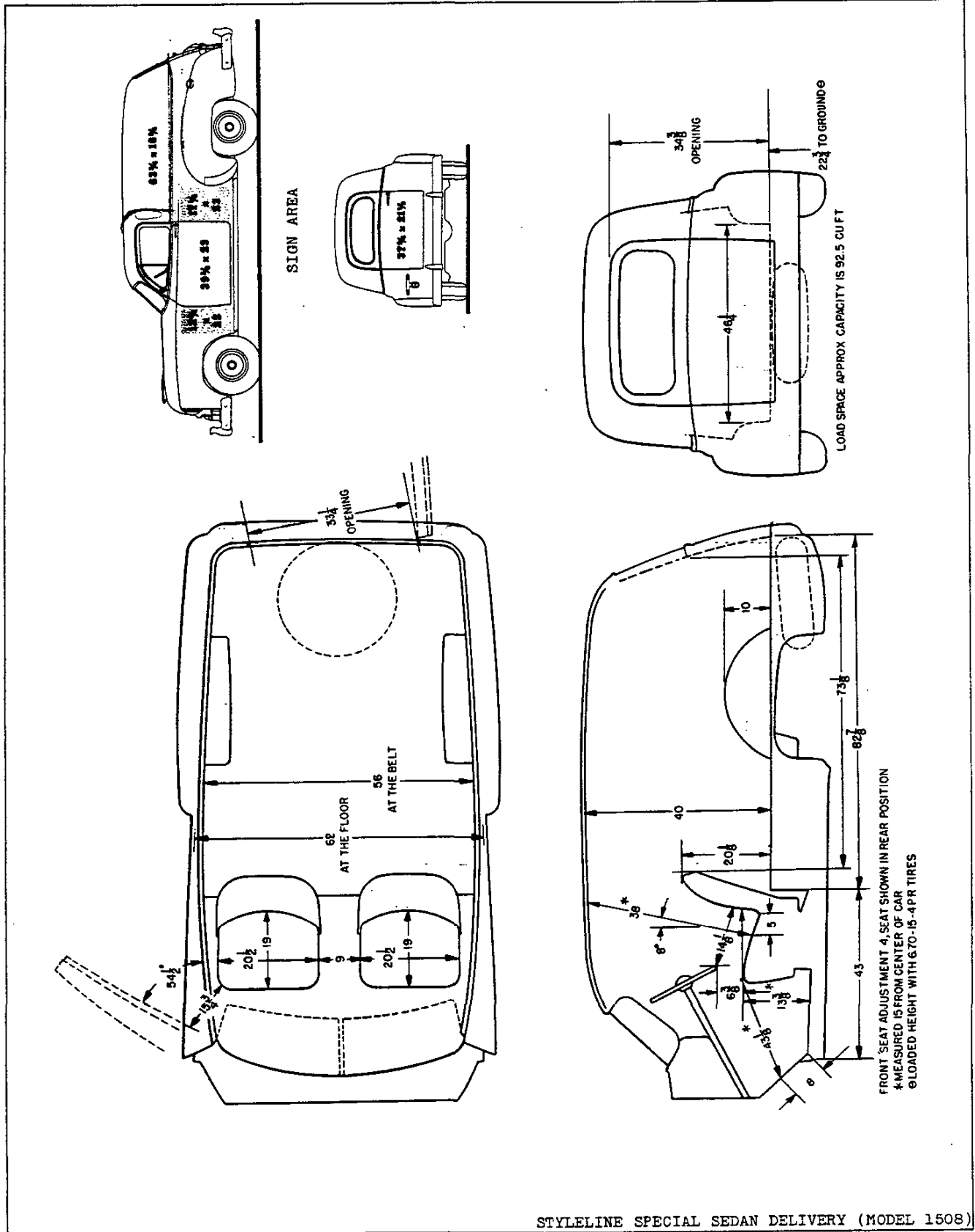


FRONT SEAT ADJUSTMENT 4 3/8" SEAT SHOWN IN REAR POSITION  
 \*MEASURED 15" FROM CENTER OF CAR  
 †LOADED HEIGHT WITH 6.70-15-6 P.R. TIRES

STYLELINE DE LUXE STATION WAGON (MODEL 2119)

CONTINUED

BODY INTERIOR DIMENSIONS—Continued



STYLELINE SPECIAL SEDAN DELIVERY (MODEL 1508)

*Carl E. Stinebaker*

**REGULAR EQUIPMENT**

ITEM		MODELS
Exterior	Bumpers and dual bumper guards, front and rear	
	Front license guard	
	Hood ornament and emblem	
	Chrome plated headlight rims and doors	
	Dual windshield wipers	
	Dual horns	
	Outside key locks, front doors and luggage compartment	
	Front fender nameplates (De Luxe)	
	Gravel deflectors, front and rear	
	Rear fender shields	Black rubber
		Stainless steel
	Rear wheel cover panels	
	Rear deck lid decoration	Deck lid handle and wing emblem
		Powerglide nameplate
	Tail and lift gate locking T handle, and tail gate emblem	
	Dual tail and stop lamps	
	Dual license lights	
	Stainless steel moldings	Belt
		Sill
		Front fender and door
		Rear fender crown
		Windshield divider
		Reveals
	Windshield	
Side window		
Rear window		
Outside rear view mirror, left hand		
Ventipane drip shields		
Bonderized body and sheet metal		
Interior (Also see page 21, INTERIOR UPHOLSTERY & COLOR COMBINATIONS)	Instrument panel	Stainless steel trim molding
		Nameplate (Chevrolet)
		Glove box lock and light
		Clock, stem wind
		Cigarette lighter
		Ash tray
		Stainless steel inserts in control knobs (light, choke, throttle, and wiper)
		Plastic speedometer ring
		Radio grille, chrome plated
		3-position ignition switch
	Accessory panel painted to match instrument panel	
	Steering wheel	3-spoke with horn button
		2-spoke with horn ring
	Dual sunshades	
	Inside rear view mirror	
	Dome light	
	Automatic dome light switches, both front doors	
	Two coat hooks	
	Assist straps	
	Robe cord	
	Arm rests, both fr doors & rr doors or quarter panels	
	Foam rubber seat cushion pads (1-1/4 inch thick)	
	Extra roof insulation	
	Rear seat back molding	
Rear seat ash tray	In front seat back	
	In quarter panel arm rests	
Package shelf ahead of rear window		

CONTINUED

3-1-50. Revised: 7-17-50; 12-1-50, • - Data corrected.

**REGULAR EQUIPMENT—Continued**

ITEM		MODELS	
Interior continued	Dual ventilators in dash	All	
	Adjustable front seat		
	Movable ventipanes		
		Front doors	2103-53
		Rear doors	
	Movable quarter windows	1502-52, 2102-19-24-34-52-54	
	Stainless steel inserts in window regulator knobs	2100 except 2119	
	Etched aluminum step plates	2100, painted on 1500	
"Body by Fisher" on front door step plates	2100, emblem on front seat of 1500		
Luggage compartment lighted by window in each tail light	All except 1508, 2119		

**BODY GLASS**

ITEM	1503-53	2103-53	1502-52 2102-24-52	1504-24	1508	2134	2154	2119
Windshield	Laminated safety plate, curved, 2 panes							
Front door	Ventipanes	Laminated safety plate						
	Windows							
Rear door	Ventipanes	Safety solid plate						
	Windows							
Quarter windows			Laminated safety plate	Safety solid plate			Laminated safety plate	
Rear window	Safety solid plate, curved							Safety solid plate

**EXTERIOR SOLID COLOR COMBINATIONS**

ITEM	All except 2119		All except 2134-2154			All except 2119-34-54	All except 2119-2154		2154
Lower body panels	Mayland Black	Mist Green	Oxford Maroon	Crystal Green	Rodeo Beige	Falcon Gray	Windsor Blue	Grecian Gray	Moonlite Cream
Upper body panels			Metallic	Metalli-chrome	Metalli-c	Metalli-c	Metalli-chrome		
Fenders and hood									
Gravel deflectors									
Wheels	Regular	RPO	RPO	RPO	RPO	RPO	RPO	RPO	RPO
Wheel stripes	Argent Silver	Mayland Black	Argent Silver		French White	Argent Silver	French White	Mayland Black	

**EXTERIOR TWO TONE COLOR COMBINATIONS**

ITEM	All Styleline 1500-2100 except 2119-2134	All Styleline 1500-2100 except 2119-2134-2154
Upper body panels	Falcon Gray Metallic	Crystal Green Metalli-chrome
Lower body panels		
Fenders and hood	Grecian Gray	Mist Green
Gravel deflectors		
Wheels		
Wheel stripe	Mayland Black	

**INTERIOR-EXTERIOR TRIM AND COLOR COMBINATIONS— CONVERTIBLE AND BEL AIR**

ITEM	2134					2154				
Body lower, fenders, hood, wheels, and gravel deflectors	Mayland Black	Mist Green	Grecian Gray	Moonlite Cream	Windsor Blue	Mayland Black	Mist Green	Grecian Gray	Moonlite Cream	Windsor Blue
Wheel stripes	Silver	Black			White	Silver	Black			White
Body upper panels and top	Black Fabric Folding Top				Tan fab. top	Mayland Black		Falcon Gray		Grecian Gray
Leather trim, Garnish moldings, Instr. panel upper	Red	Green	Red	Black	Blue	Red	Green	Red	Black	Blue

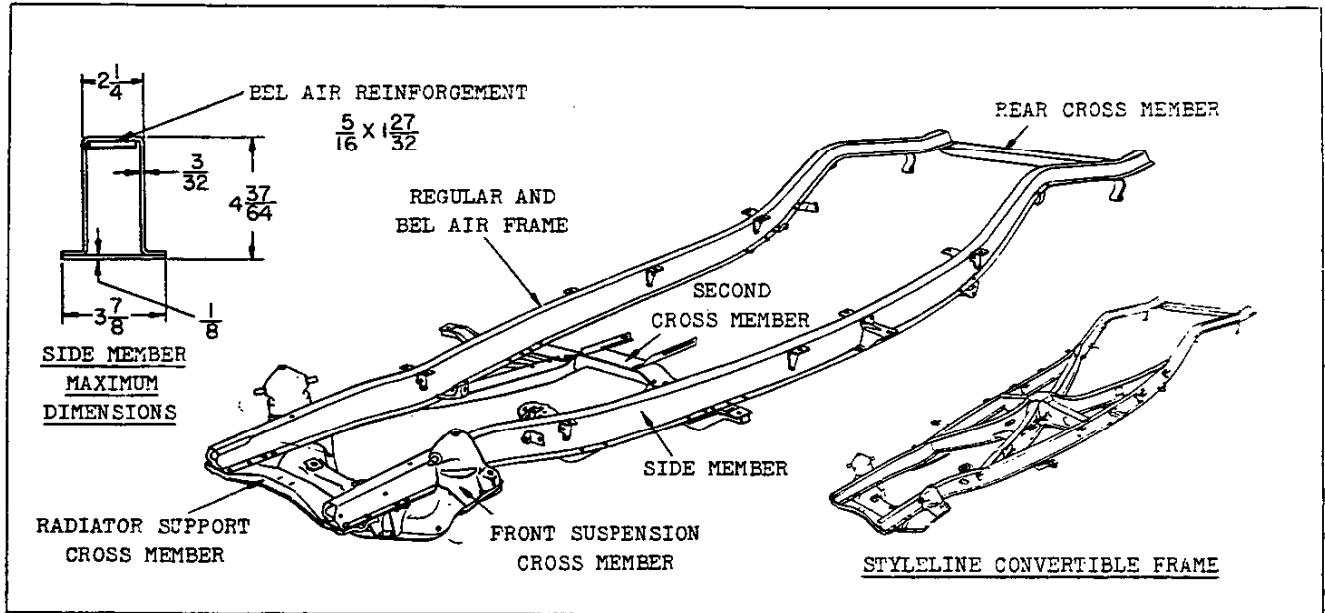
3-1-50

**INTERIOR UPHOLSTERY AND COLOR COMBINATIONS**

ITEM		1500 except 1504-08	1504	1508	2100 except 2119-34-54	2119	2134	2154	
Seat and back cushions		Gray striped modern weave flat cloth		Dark gray leather fabric	Gray striped broadcloth with shoulder area of seat-back cushion of plain dark gray broadcloth	Tan leather fabric	Gray striped pile-cord fabric with genuine leather at shoulder area and outer edges of seat and seat-back cushion		
Front seat back					Plain dark gray broadcloth		Leather fab		
Doors	Upper	Plain dark gray broadcloth			Light gray fabric	Mahogany panels	Gray striped pile-cord fabric and leather fabric		
	Lower	Plain light gray fabric							
	Molding				Stainless steel		Stainless stl		
Quarter panels	Lower and Upper	Same as doors	Gray leather grain fiber board	Fiber board painted light gray	Same as doors				
	Molding				Stainless steel				
Scuff pads	Doors	Gray leather fab, st stl bead			Gray leather fabric with st steel bead	Seat back matl, st stl bead			
	Quarter								
Headlining		Light gray fabric		Light gray leather fabric	Light gray fabric	Leather fab, wood grain finish	Top fabric	Gray fabric	
Sunshades		Headlining with light gray leather fabric grip			Headlining with light gray leather fabric grip	Tan leather fabric	Leather fabric	Gray fabric Im lea grip	
Arm rests	Front				Gray lea fabric, st stl bead dark gray fab below	Tan leather fab top, tan paint below st stl bead	Upper, genuine leather, st stl bead, leather fabric below		
	Rear				Lea fab upper		Lea fabric		
Floor covering	Front seat floor area	Black rubber			Dark gray rubber with dark gray simulated carpet inserts	Grayish brown with tannish gray simulated carpet inserts	Gray rubber, carpet insert	Carpet, leather trim color	
	Rear seat floor	Carpet to harmonize with upholstery	Blackrubber behind front seat and in luggage compartment		Carpet to harmonize with upholstery	Brown rubber on center seat floor area and brown linoleum on platform	Carpet to match leather trim color		
	Luggage or load compart	Black rubber		Plywood floor, painted black	Tan rubber		Tan rubber		
Inst panel	Upper				Dark gray		Leather trim color		
	Lower				Light gray				
Garnish moldings	W/S	Dark gray			Dark gray		Leather color		
	Rear window				Dark gray	Natural wood grain	Bright metal		
	Side door & quarter window	Dark gray with light gray stripe			Dark gray with bright metal bead			Leather trim color with bright metal bead	
Steering col & gear shift rod		Dark gray with light gray selector lever knob					Light gray, black knob		

3-1-50

## CHASSIS FRAME



Make ----- Own  
 Type ----- Box girder  
 Construction:

Side members ----- Box girder, full length, deep flanged channel, with reinforcing plate across full width of channel flanges. The Bel Air is reinforced with steel plates 5/16 x 1-27/32, full length, welded to inside top of box section.  
 Radiator support cross member ----- Flanged channel section  
 Front cross member ----- Flanged semi-tubular type with a flat steel bottom plate across diametral width of the section.

Second cross member ----- Box girder, with box section braces to the side members.  
 Rear cross member ----- Box girder  
 Maximum overall length ----- 171-7/16  
 Maximum width (over side member flanges) ----- 47  
 Material ----- Hot rolled steel  
 Material yield point ----- 33,000 lb per sq.in.  
 Material elongation ----- 25% min in 2 inches  
 Side member section: 

	<u>Bel Air</u>	<u>All others</u>
Modulus (in. <sup>3</sup> ) -----	3.245	1.725
Moment of inertia (in. <sup>4</sup> ) -	7.775	4.90

### CONVERTIBLE COUPE FRAME

The second cross member is replaced by a crossed X structure of I-beam section members.

## FRONT SUSPENSION

Make ----- Own  
 Type ----- Independent SLA (short and long arm wishbone type), assembled and aligned as a complete suspension unit  
 Rated capacity ----- 2300 lb

### WHEEL TRAVEL

Vertical, loaded conditions --- 3-5/8 up, 4 down  
 Wheel to spring ratio ----- 1.65:1  
 Wheel travel for steering ----- 37° to 39° 30' from neutral to stop

### SPRING BUMPERS

Type ----- Rubber (2, compression and rebound)  
 SHOCK ABSORBERS

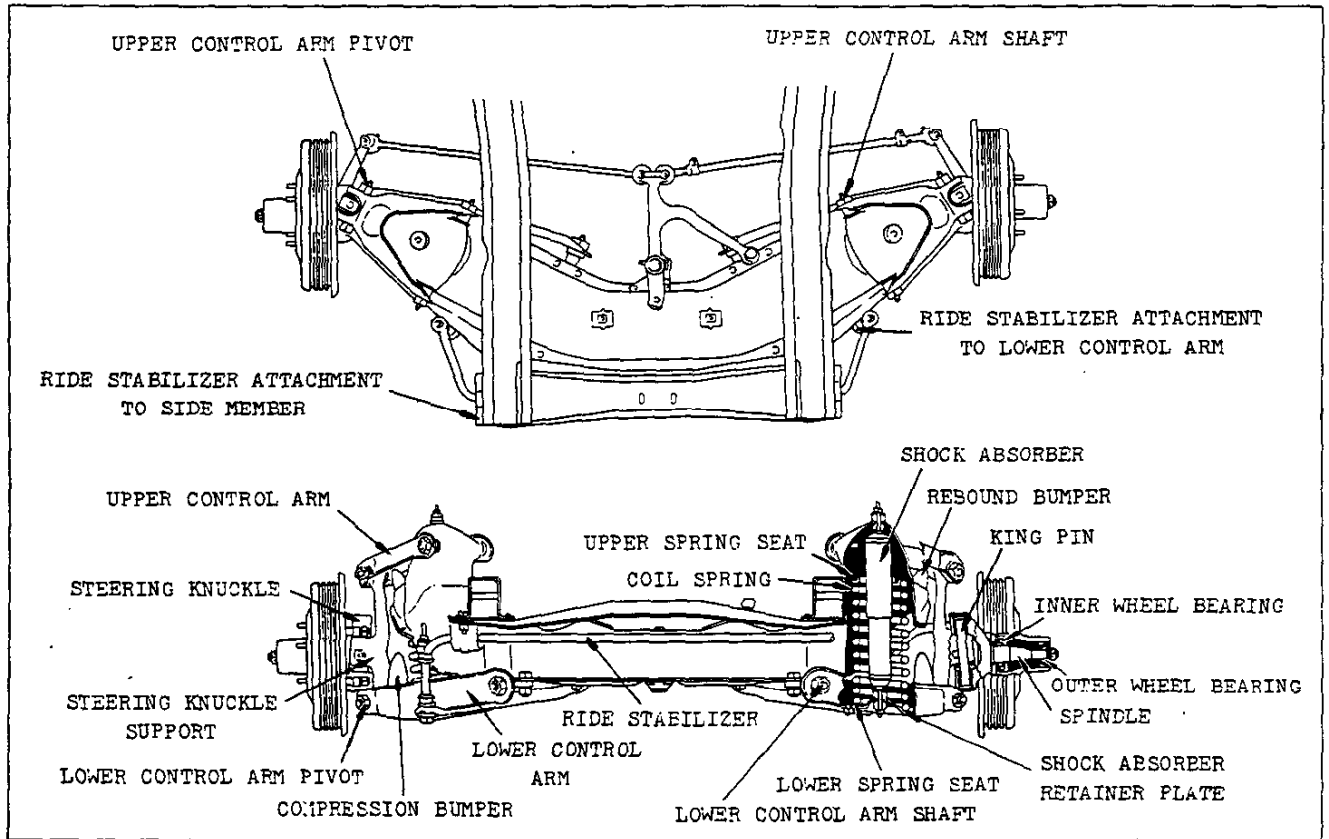
Make ----- Delco  
 Type ----- Direct, double-acting, hydraulic  
 Mounting ----- Vertically, from lower control arm through coil spring to dome of spring housing.  
 Model number ----- 1056F  
 Valve code ----- 306/D1  
 Piston diameter and travel ----- 1 x 5

SPRINGS	2134 and TAXICAB	ALL OTHERS
Make and type	Own, right hand helical coil	
Material and gauge	Chrome alloy steel .594-.598	Chrome alloy steel .586-.590
Number of coils	Total 11-1/4 - Active 9.45	Total 10.8 - Active 9
Diameters	Outside 4.390 - Pitch 3.802	Outside 4.390 - Pitch 3.796
Height	Free 14-3/8, Working 9-5/8 at 1550 lb	Free 14, Working 9-5/8 at 1400 lb
Height under curb weight	10-3/16	10
Capacity at ground (lbs)	1150	1060
Deflection rate	At spring	340 lb per in.
	At wheel	125 lb per in.
		125 lb per in.

CONTINUED

3-1-50

FRONT SUSPENSION—Continued



RIDE STABILIZER

Type ----- Torsion bar  
 Attachment ----- Rubber-insulated,  
 attached with brackets to bottom plates of frame  
 side members, and rubber-insulated link bolts to  
 brackets on front suspension lower control arms

FRONT WHEEL ALIGNMENT (Service Data)

Camber, caster - means of adjustment -----  
 ----- Upper pivot bolts  
 Camber ----- 0° - 1°  
 Caster ----- 0° - 1°  
 King pin inclination ----- 3°30' - 4°30'  
 Toe-in ----- 0 - 1/8  
 Toe-out on turns:  
 Outside wheel ----- 20°  
 Inside wheel ----- 22° - 26°

STEERING KNUCKLE

Type ----- Reverse Elliott  
 Spindle diameters:  
 At inner bearing ----- 1.2801-1.2806  
 At outer bearing ----- .7490-.7495

KING PIN

Diameter ----- .8660-.8665  
 Bushings:  
 Inside diameter ----- .867-.868  
 Length ----- 1-5/16

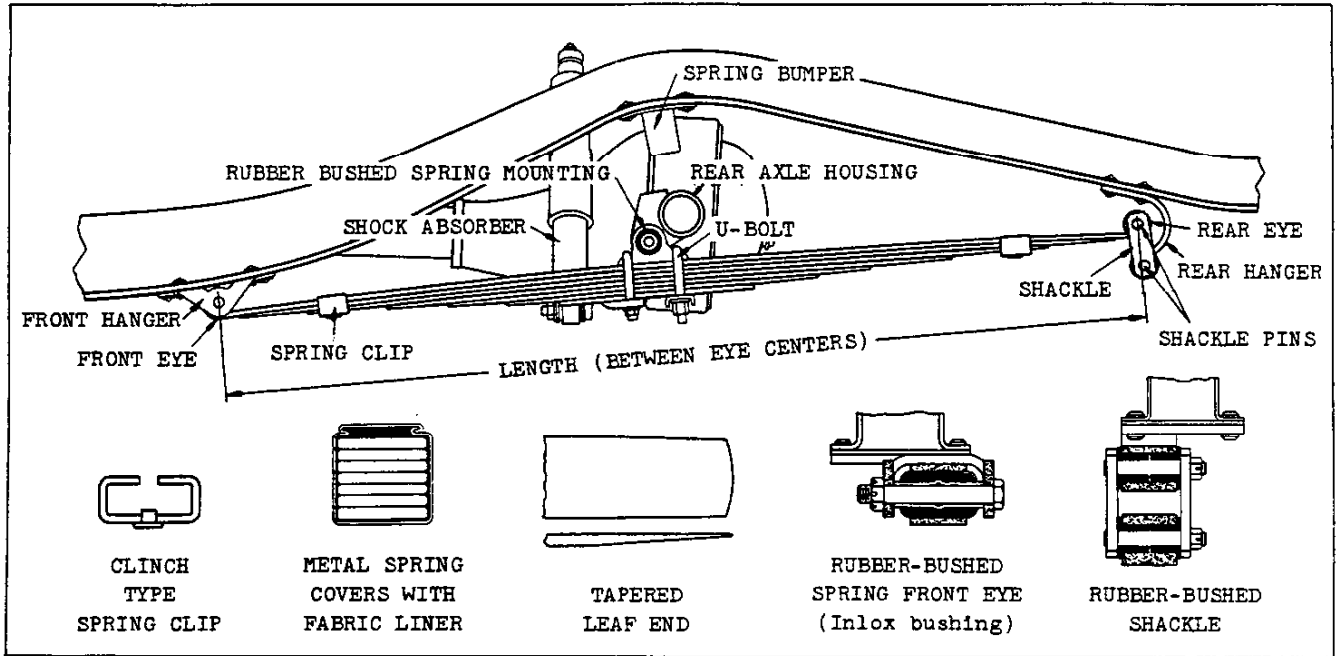
Wheel bearing lubricant -----  
 ----- High melting-point grease  
 Anti-friction bearings ----- See page 101

FRICTION BEARINGS	UPPER CONTROL ARMS				LOWER CONTROL ARMS				
	Pivot Bolt	Bolt Bushings	Shaft Bushings	Shaft Shaft Ends	Pivot Bolt	Bolt Bushings	Shaft Bushings	Shaft Shaft Ends	
Type	Threaded steel bushings								
Type of thread	11-pitch, special								
Thread major diameter	Front	.644-.662	.694	.774	.736-.740	.714-.732	.774	.869	.852-.862
	Center		minimum	minimum		.724-.742	minimum	minimum	
	Rear	.644-.662				.738-.756			
Mounting	Clamp lock				Self-locking threads				Bolted
Seal	Synthetic rubber, self-sealing								

3-1-50



## REAR SUSPENSION



### SPRINGS

Make and type ----- Own, semi-elliptic  
 Material ----- Chrome alloy steel  
 Length x width ----- 49 x 1-3/4  
 Spring clips ----- 2, clinch type  
 Spring covers ----- Metal with fabric liner

Item	All models except 1504-08, 2119	1504	1508 (RPO 254 on all others except 2119)	2119	RPO 254 on 1508 2119
Number of leaves	7		8		
Thickness of leaves	#1-2-3-4	.237			
	#5-6-7	.214			.262
	#8				
Total thickness	1.590		1.804	1.896	1.996
Avg design load at camber height	825 lb	750 lb	920 lb	1250 lb	1365 lb
Camber height at design load	5/8 negative	1 neg	5/8 negative		1-1/4 neg
Avg rate of deflection (lb/in)	108		115	145	165
Leaf end type	Tapered			Flat	
Capacity at ground (lb)	1075	945	1180	1455	1600

### SPRING MOUNTING

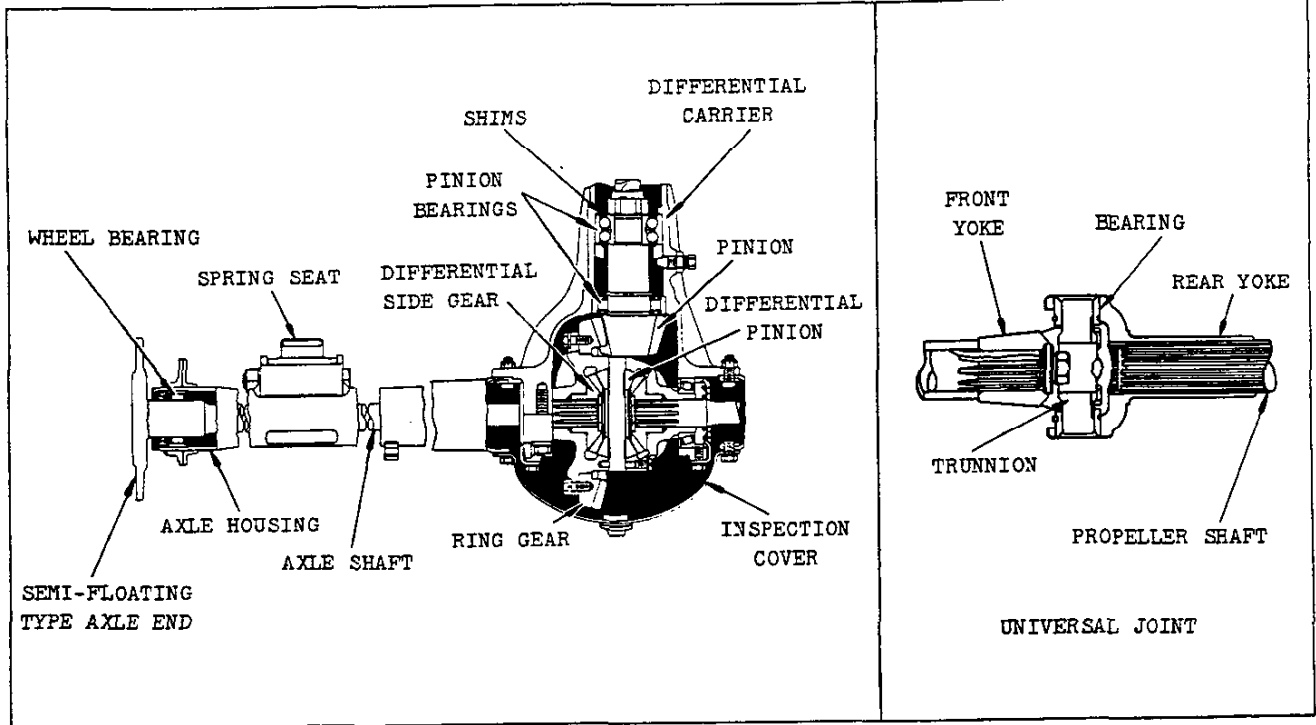
Type ----- Parallel, 45-1/4 between centers  
 Front eye bolt diameter ----- .500-.504  
 Front eye bolt bushing, type and size ----- Rubber-bushed, .505 min I D x 2.400-2.410 long  
 Shackle mounting ----- In tension from rear hanger  
 Shackle type ----- Rubber-bushed  
 Shackle pin O D ----- .498-.502  
 Shackle bushing size --- .850-.860 OD x 1.125-1.145; two per shackle pin; 2 in. long when assembled  
 Spring to axle attachment ----- 2 U-bolts (1/2 dia) to rubber bushed seat on rear axle housing

### SHOCK \*ABSORBERS

Make and type ----- Delco, hydraulic, direct double-acting  
 Model number ----- 1065-V  
 Valve code ----- 4E6/B1  
 Piston diameter and travel ----- 1 x 8-1/2

3-1-50

## REAR AXLE AND DRIVE



REAR AXLE

Make ----- Own  
 Type ----- Semi-floating with torque tube drive through fully enclosed universal joint and propeller shaft  
 Rating ----- 3000 pounds  
 Drive medium ----- Chassis rear springs  
 Torque taken by ----- Torque tube  
 Housing type ----- Pressed steel banjo, 2-piece welded with pressed steel inspection cover  
 Lubricant capacity ----- 3-1/2 pints  
 Lubricant recommended ----- SAE 90 passenger car hypoid lubricant or "Multi-Purpose" lubricant  
 Final drive gears:  
     Type ----- Spiral hypoid  
     Ratio ----- 4.11:1  
     Teeth, ring gear and pinion ----- 37 and 9  
     Gear backlash ----- .005-.008  
 Pinion gear:  
     Mounting ----- Overhung  
     Thrust taken by ----- Pinion front bearing  
     Adjustment ----- Shims (average .033) in differential carrier forward of front bearing

ITEM	1st	2nd	3rd	rev
Total gear reduction *	12.08	6.90	4.11	12.08
Axle shaft torque (ft lb)@	1746	997	629	1746
Lock sleeve lock screw torque -----	26-30 ft lb			
Pinion fr brg ret nut torque -----	200-240 ft lb			

AXLE SHAFT

Type and material ----- Forged steel with

wheel drive flange forged integral with shaft  
 Minimum diameter ----- 63/64  
 Oil seal ----- Steel-encased spring-loaded synthetic rubber seal  
 DIFFERENTIAL  
 Type ----- Two-pinion, with malleable iron case and carrier  
 Bearing cap bolt torque ----- 65-80 ft lb  
 UNIVERSAL JOINT

Make ----- Own  
 Type ----- Yoke and spider (trunnion)  
 Trunnion material -- Drop forged steel, hardened  
 Trunnion pin diameter ----- .5835-.6845  
 Bushing ID and length ----- .687-.688 x 17/32  
 Lubrication ----- From transmission

### PROPELLER SHAFT

Make and type ----- Own, tubular  
 Tube OD ----- 1.995-2.005  
 Tube wall thickness ----- .063-.067  
 Shaft OD at inner bushing ----- 1.0642-1.0657  
 Torque tube bushings:  
     Matl --- Ball indented bronze in steel sleeve  
     Front, inner ID x length -- 1.0675 min x 1-13/32  
     Front, outer ID x length -- 1.3465 min x 1-1/8  
 Oil seal ----- Steel-encased spring-loaded synthetic rubber seal

### BEARINGS

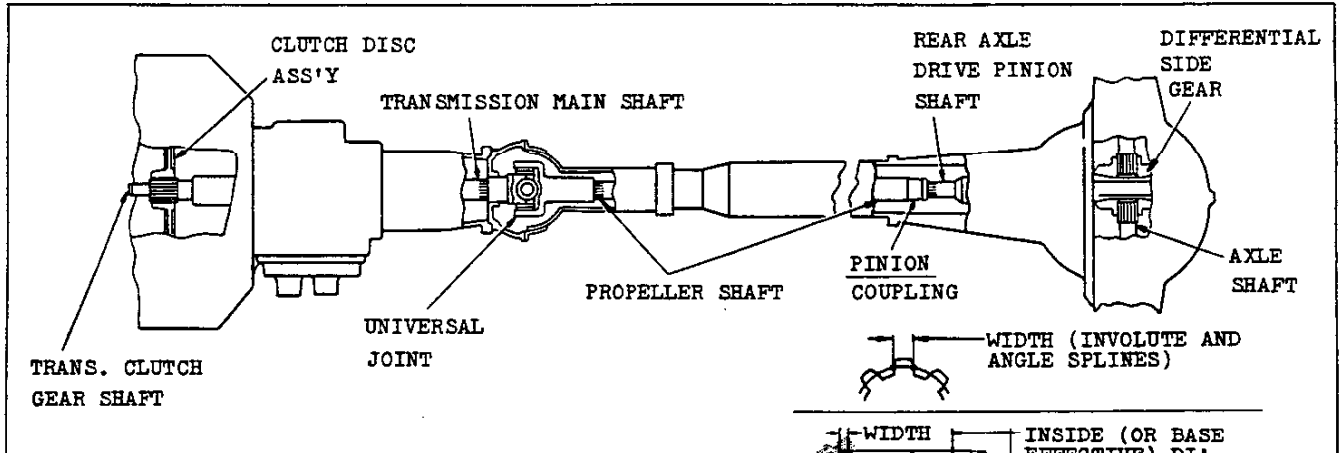
Anti-friction bearings ----- See page 101

\* - Axle ratio x transmission ratio

@ - Gear reduction x engine maximum net torque x efficiency factor (.90 in direct drive, .85 all others)

3-1-50

## DRIVE SYSTEM SPLINES



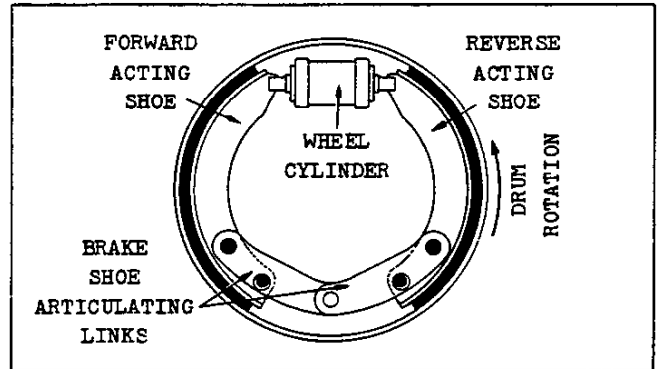
Type of splines		Internal	External
Clutch disc hub and transmission clutch gear shaft	Width	.174 - .176	.1705 - .1725
	I D	.920 - .925	.918 max
	O D	1.134 - 1.144	1.110 - 1.121
	No.	10 (straight side)	
Transmission mainshaft and universal joint front yoke	Width	.1473 - .1483	.1458 - .1473
	I D	.890 - .891	.853 - .863
	O D	1.003 - 1.017	.973 - .980
	No.	10 (involute)	
Propeller shaft front end and universal joint rear yoke	Width	.0951 - .0961	.0921 - .0941
	I D	.993 - .997	.953 - .961
	O D	1.0835-1.0935	1.0642-1.0657
	No.	17 (involute)	

Type of splines		Internal	External
Prop. shaft rear end coupling and rear axle drive pinion shaft	Width	.0951 - .0961	.0951-.0971
	I D	.985 - .989	.962 - .972
	O D	1.0835-1.0935	1.068 - 1.074
	No.	17 (involute)	
Differential side gear and axle shaft	Width	.180 - .183	.178 - .180
	I D	1.037 - 1.042	1.004 - 1.014
	O D	1.186 - 1.193	1.1525-1.1575
	No.	10 (straight side)	

## BRAKES

### SERVICE BRAKES

Make ----- Own  
 Type ----- Hydraulic, four-wheel internal expanding, double-articulated shoe  
 Brake drum: Type ----- Composite (cast alloy iron rim and cooling ribs; pressed steel web)  
 Diameter ----- 11 (both front and rear)  
 Braking pressure:  
 Front ----- 57.7%  
 Rear ----- 42.3%  
 Brake lining:  
 Material --- Full-molded asbestos composition  
 Width ----- 1-3/4  
 Thickness ----- .187-.194  
 Length per wheel (inside arc) ----- 20-5/8  
 Method of attachment to shoe ----- Bonded  
 Clearance -----  
 --- Adjust to slight drag, back off 4 notches  
 Total effective lining area ----- 150 sq in  
 Main cylinder: Diameter ----- 1  
 Piston travel ----- 1-11/32 max  
 Wheel cylinder: Diameter-front ----- 1-5/16  
 Diameter-rear ----- 1-1/8  
 Piston travel ----- .112  
 Braking ratio: Pedal ----- 4.85:1, approx  
 Hydraulic ----- 11.95:1, approx  
 Average overall ----- 57.96:1, approx



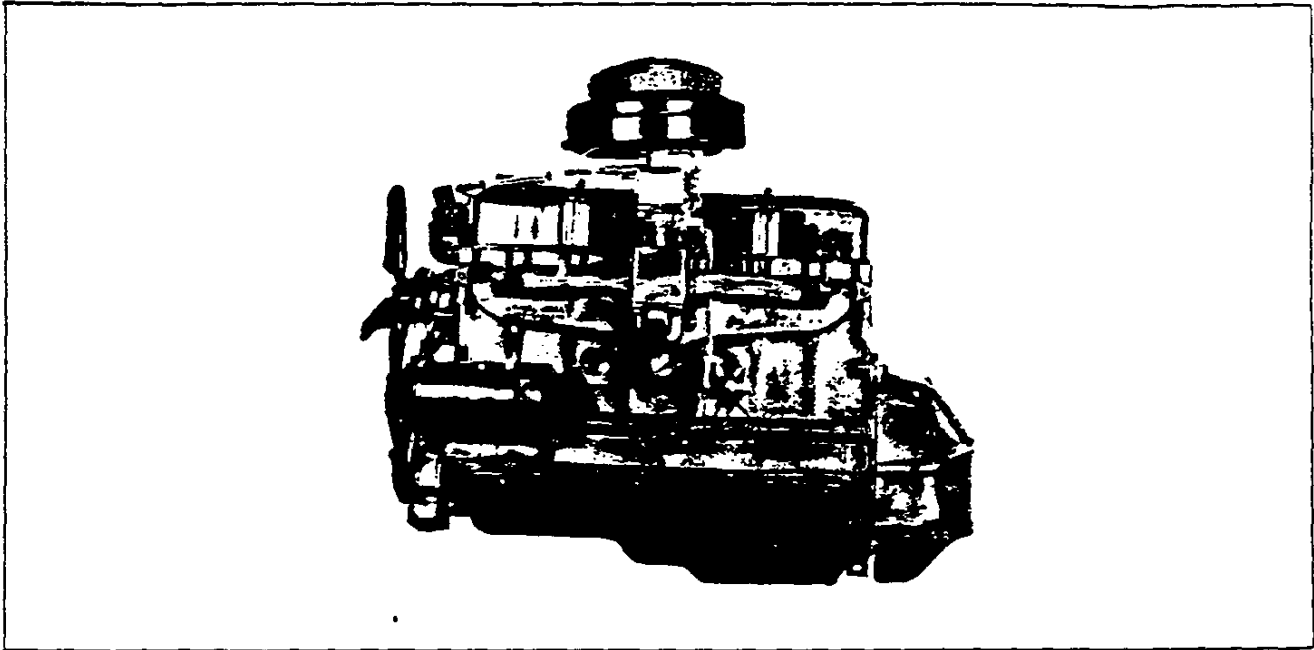
Foot pedal: Travel ----- 6-17/32  
 Mounting ----- With main cylinder to frame  
 Pad cover material ----- Rubber  
 Brake system fluid capacity ---- .80 pint approx •  
 Brake fluid recommended ----- Delco Super #9  
 Vacuum booster ----- None

### PARKING BRAKE

Make and type ----- Own, mechanical. Pull rods and cables operate the two rear service brakes  
 Total effective lining area ----- 75 sq in  
 Control -- L-handle on ratchet-rod (pull to apply, turn 60° clockwise to release), mounted below instrument panel at right of steering column

3-1-50. Revised: 12-1-50, • - Data corrected.

**ENGINE - GENERAL**



**BASIC DESIGN DATA**

Type ----- Valve-in-head  
 Number of cylinders ----- 6  
 Bore and stroke (nominal) ----- 3-1/2 x 3-3/4  
 Piston displacement (cu.in.) ----- 216.5  
 Compression ratio (no option) ----- 6.6:1  
 Taxable (SAE) horsepower ----- 29.4  
 Idling speed (RPM) ----- 450-500  
 Compression pressure at cranking speed, engine hot (PSI) ----- 110 at 210 to 220 RPM

**ENGINE SPEED AND PISTON TRAVEL**

Rear axle ratio	4.11:1	
Tires	6.70-15 or 7.10-15 (RPO)	
Crankshaft revolutions per mile	3095 •	
Crankshaft RPM at one mile per hour	1st	152 •
	2nd	87 •
	3rd	52 •
Piston travel (feet per mile)	1934 •	

**ADVERTISED MAXIMUM ENGINE PERFORMANCE**

Gross brake horsepower ----- 92 at 3400 RPM  
 Net brake horsepower ----- 85 at 3300 RPM  
 Gross torque (ft lb) --- 176 at 1000 to 2000 RPM  
 Net torque (ft lb) ----- 170 at 1000 to 2000 RPM

**DRY WEIGHTS**

Engine and clutch (pounds) ----- 577  
 Engine, clutch, and transmission (pounds) ----- 632

**ADVERTISED CAR PERFORMANCE**

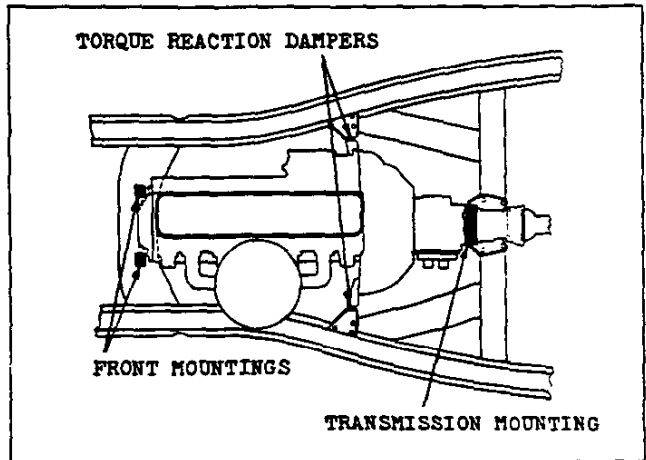
The following information is based on the lowest-priced four-door sedan in each line, with each vehicle at performance weight (curb weight, plus 600 pounds to represent four passengers):

**POWER PLANT MOUNTING**

Type ----- Rubber-cushioned, three-point support, with torque reaction dampers

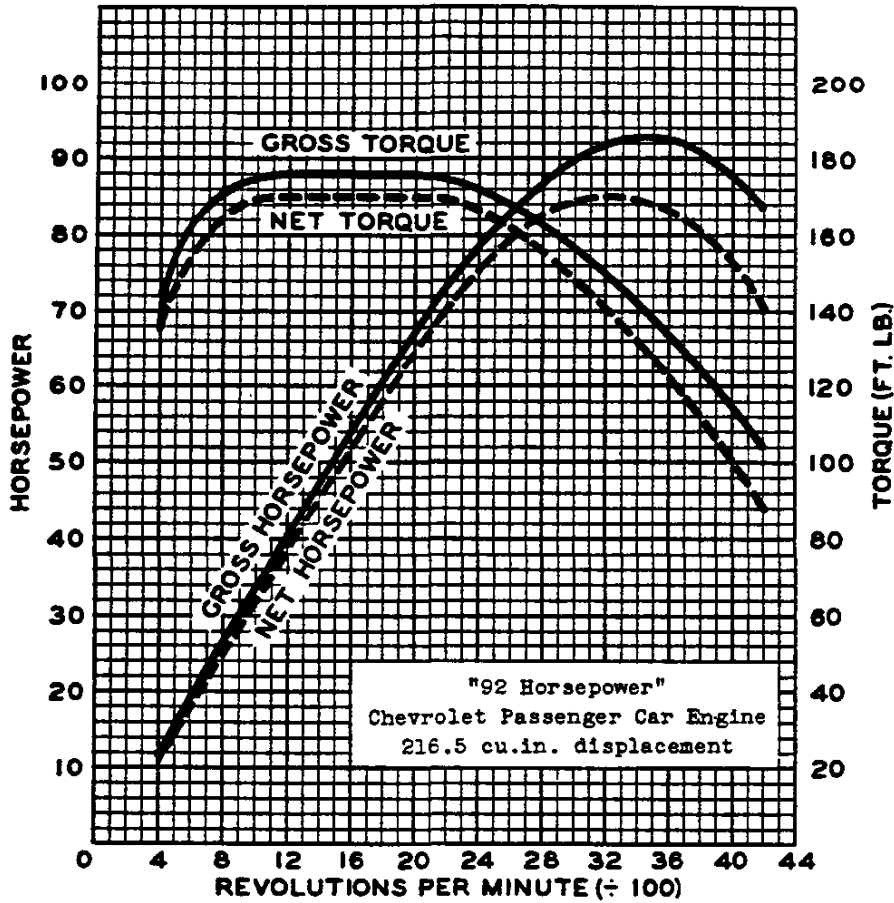
	<u>STYLE-</u> <u>LINE</u>	<u>FLEET-</u> <u>LINE</u>
Performance weight (pounds) -----	3850	3845
Pounds/gross horsepower -----	41.85	41.79
Pounds/cu.in. piston displ -----	17.78	17.76
Gross horsepower/cu.in. displ -----	.42	.42
Power displacement (cu ft/mile)* -	193.9 •	193.9 •
Displ factor (cu ft/ton mile) • -	100.7 •	100.9 •

\* -  $\frac{\text{Crankshaft rev/mile} \times \text{piston displ}}{1728}$   
 • - Power displacement ÷ performance weight in tons.



3-1-50. Revised: 7-17-50; 9-15-50, • - Changed, due to revised tire data.

ENGINE PERFORMANCE



The engine performance curves shown on this sheet are taken from Chevrolet engine test report 16042-35. They represent the full throttle performance of a 92 Horsepower Chevrolet passenger car engine (216.5 cu.in. displacement) as obtained from dynamometer test data which were corrected to the standard barometric pressure of 29.92" Hg. and the standard temperature of 60° F.

GROSS POWER and TORQUE were obtained in a regular dynamometer test with the dynamometer exhaust system, no fan, generator not charging, and optimum spark advance.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle. It includes the use of the regular muffler and pipes, the fan in operation, the generator charging and automatic spark advance.

3-1-50

CHEVROLET 1950 SPECIFICATIONS—PASSENGER

February 20, 1950  
 The data on this sheet are true as represented.  
 CHEVROLET - CENTRAL OFFICE - ENGINEERING DEPT.  
 DIVISION OF GENERAL MOTORS CORPORATION

*Geo. W. Proctor*  
 Geo. W. Proctor  
 Transport Engineer

State of Michigan  
 County of Wayne

On this 20th day of February 1950 personally appeared before me, Geo. W. Proctor, known to me to be such, who makes oath that the data on this sheet are true as represented.

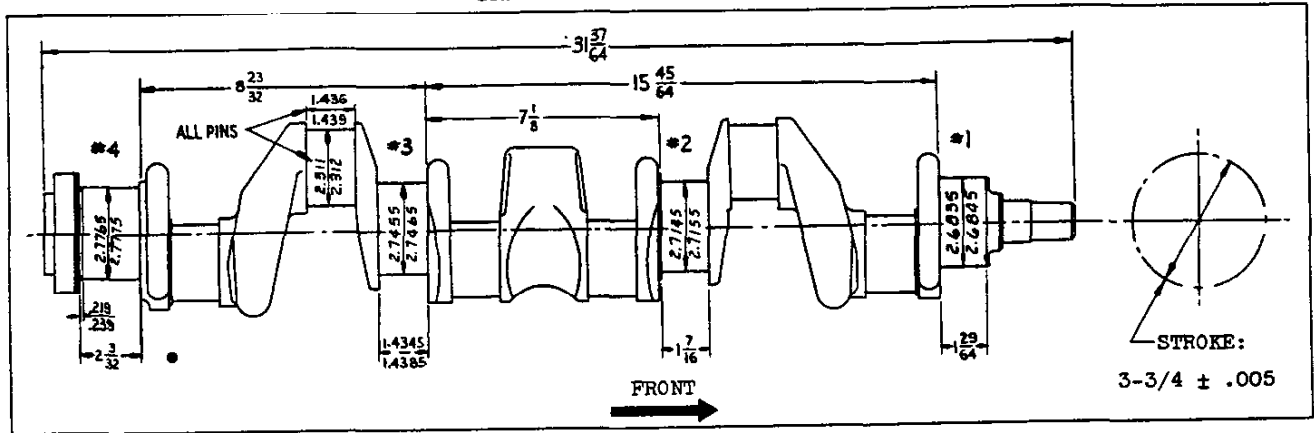
*W. H. Holmes*  
 Notary Public, Wayne County  
 My commission expires July 27th, 1951

ENGINE -28

### CYLINDER CASE AND HEAD

Material ----- Cast alloy iron      Bore diameter ----- 3.4995-3.5015  
 Offset ----- None      Cyl. head bolt torque (service) ----- 70-80 ft.lb.

### CRANKSHAFT AND BEARINGS



#### CRANKSHAFT

Material ----- Drop-forged steel  
 Weight ----- 70 lb.  
 End play ----- .003-.009  
 Counterweights ----- 7

#### HARMONIC BALANCER (Vibration Dampener)

Type ----- Oscillating (Rubber-floated)  
 Fan drive pulley diameter ----- 6-1/32

#### MAIN BEARINGS

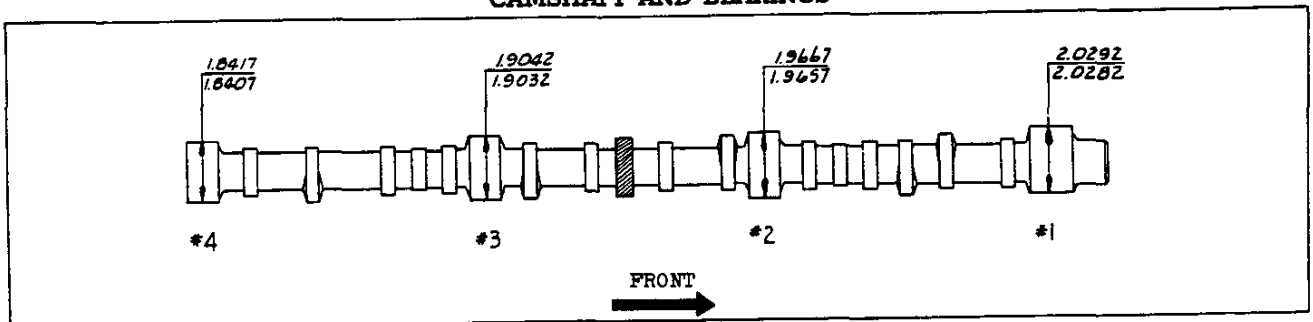
Material ----- .003-.007 babbitt on steel shell  
 Type ----- Precision interchangeable

Removable ----- From below  
 Necessary to align ream? ----- No  
 Clearance ----- .0007-.0028 fit with solid shims  
 End thrust against ----- #3 bearing  
 Bearing cap bolt torque -----  
 ----- 100-110 ft.lb. with oiled threads

Brg.	Inside dia.	Length	Proj. Area*
#1	2.6850-2.6866	1-3/16	2.758 sq.in.
#2	2.7160-2.7176	1-1/8	2.595 sq.in.
#3	2.7470-2.7486	1.4295-1.4315	2.793 sq.in.
#4	2.7780-2.7796	1-5/8	4.071 sq.in.

\* - Based on effective length, i.e. overall length shown above, less oil groove and chamfers.

### CAMSHAFT AND BEARINGS



#### CAMSHAFT

Material ----- Drop-forged Steel  
 Minimum diameter ----- 1-3/32  
 End play ----- Free to .003 maximum  
 Ramp-inlet ----- .0111  
 -exhaust ----- .014

#### DRIVE

Make ----- Own  
 Type ----- Helical gear  
 Driven gear (on camshaft) material -----  
 Bakelite and fabric composition with steel hub  
 Drive gear (on crankshaft) material ----- Steel

#### BEARINGS

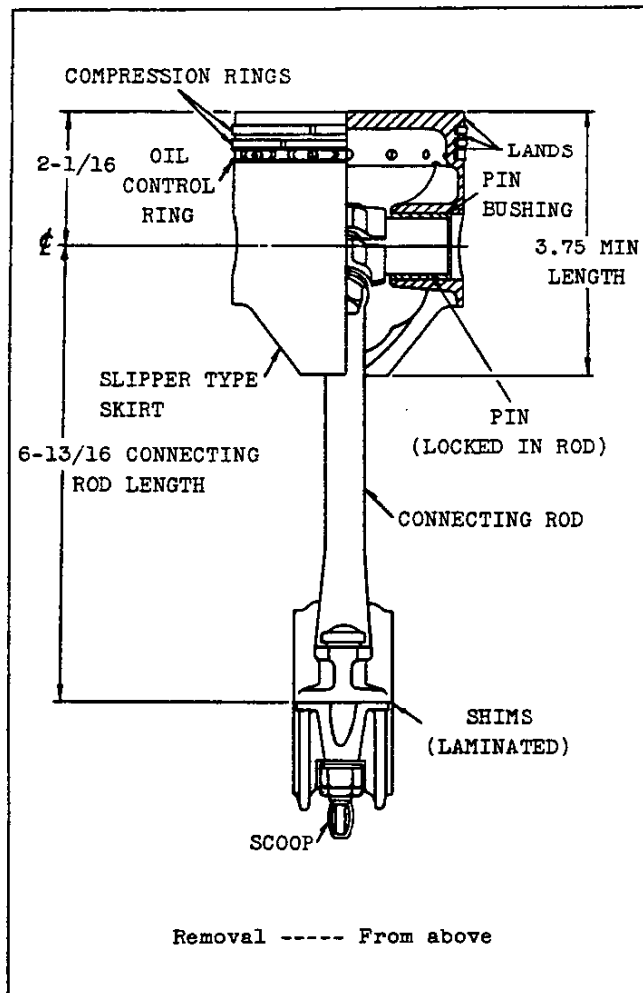
Material ----- Steel-backed babbitt  
 Clearance on diameter ----- .0015-.0035  
 Thrust taken by ----- Thrust plate between driven timing gear and camshaft #1 journal front face

Brg	Inside Dia	Length	Proj Area@
#1	2.0307-2.0317	1-1/8	2.285 sq.in.
#2	1.9682-1.9692	15/16	1.846 sq.in.
#3	1.9057-1.9067	15/16	1.787 sq.in.
#4	1.8432-1.8442	15/16	1.728 sq.in.

@ - Based on overall length shown above.

3-1-50. Revised: 7-17-50, ● - Art corrected at crankshaft rear bearing.

## PISTON-PIN-RINGS



Skirt clearance in cylinder bore { Pass on .0015  
Hold on .003

### Oil groove:

Diameter ----- 3.118-3.138  
Holes-number and size ----- 14, 5/32 drill  
Head thickness at center ----- .180-.190

### Piston pin bushing:

Type ----- Pressed into piston  
Material ----- Cast bronze  
Inside diameter ----- Slip fit on pin  
Length (each) ----- 15/16  
Finish ----- Diamond bored  
Weight of piston and bushing assy ---- 1.862 lb.  
Weight of piston, bushing, rings, pin, and connecting rod upper end x 6 ----- 16.66 lb.

### PISTON PIN

Material ----- Chromium steel (file hard case)  
Diameter ----- .8645-.8650  
Length ----- 3.135-3.165  
Taper limit in full length ----- .0002  
Weight ----- .312 lb.  
Clearance in bushing ----- Slip fit

### COMPRESSION RINGS

Material ----- Cast alloy iron, surface-treated with a wear-resistant coating  
Type ----- Taper face  
Number per piston ----- Two  
Width ----- .1235-.1240  
Wall thickness ----- .155 max.  
Gap clearance ----- .005-.015  
Ring clearance in groove ----- .0015-.003  
Weight (each) ----- .05 lb.

### OIL CONTROL RING

Material ----- Cast alloy iron  
Type ----- Wide-slot  
Width ----- .1860-.1865  
Wall thickness ----- .155 max.  
Gap clearance ----- .005-.015  
Ring clearance in groove ----- .0020-.0035  
Weight ----- .05 lb.

### PISTON

Make ----- Own  
Features ----- Flat head, oval, slipper skirt  
Material ----- Cast alloy iron, surface-treated with a wear-resistant coating  
Diametral relief at lands ----- .015-.023  
Compression ring groove diameter ---- 3.155-3.180

### CONNECTING RODS

Type ----- Rod clamps piston pin  
Material ----- Drop-forged steel  
Assembly center of gravity -- 5.325 from piston pin  
Rod width at piston pin ----- 1.125-1.127  
Rod width at crankpin ----- 1.4275-1.4315

Clearance on diameter ----- .0003-.0013  
Projected area per rod -- (based on effective length) ----- 2.490 sq.in.

### Crankpin bearing:

Type ----- Spun (Centrifugally cast)  
Material ----- High lead babbitt  
Diameter ----- 2.3135-2.3140  
Effective length ---- (overall length less oil groove and chamfers) ----- 1.076

Assembly weight ----- 1.95 lb.  
Upper end weight ----- .45 lb.  
Lower end weight ----- 1.50 lb.  
Total rotating weight of connecting rods (weight of lower end x 6) ----- 9.00 lb.  
End play ----- .004-.012  
Recommended nut torque, with oiled threads ----- 40-50 ft.lb.

3-1-50

PLEASE RETURN TO  
TECHNICAL REFERENCE  
FILE  
CHEVROLET  
ENGINEERING DEPARTMENT  
DATA GROUP

# Automobile Manufacturers Association

## Consolidated Specification Questionnaire

### For 1950 Models

### Mechanical Details

Make of Car: CHEVROLET Model: PASSENGER CAR  
 Name of Maker: CHEVROLET DIVISION OF GENERAL MOTORS CORPORATION Address: Detroit 2, Michigan

Date: FEB. 15, 1950

NOTE: (1) Subject to Correction: It is understood that the following data are subject to correction in the case of cars not in production at the time this compilation was requested.  
 (2) Only standard equipment included in Factory Delivered price should be included in this questionnaire.

#### ENGINE

No. of cylinders ..... 6  
 Valve arrangement ..... In-head  
 Bore ..... 3-1/2 ..... Stroke ..... 3-3/4  
 Cylinder head, cast iron or aluminum ..... Cast Alloy Iron  
 Cylinder sleeve, Yes ..... No .....  
 Piston displacement (cu. in.) ..... 216.5  
 Taxable horsepower ..... 29.4

#### Horsepower rating—

To be based on actual performance corrected to 60°F. at sea level (barometric pressure 29.92 inches of mercury) with standard fuel. (Octane No. of fuel ..... 73...)

#### —With Bare Engine—

Maximum brake hp. 92 ..... at 3400 ..... R.P.M.

#### —With Standard Accessories—\*

Maximum brake hp. 85 ..... at 3300 ..... R.P.M.

\*Those standard accessories needed for normal operation including fan, generator, starter, air cleaner, muffler, manifolds, fuel and water pumps.

Maximum torque—  
 With bare engine, lb. ft. 176 ..... at 1000-2000 R.P.M.  
 With standard accessories,\* lb. ft. 170@ 1000-2000 R.P.M.

Compression Ratio—  
 Standard 6.6:1 ..... Optional None

Standard compression pressure —pounds—  
 At cranking speed ..... 110  
 At what R.P.M. ..... 210-220

#### PISTONS and RINGS

Piston  
 Make ..... Own  
 Material ..... Cast Alloy Iron, surface treated  
 Features—split skirt, inner strut, oval, tin-plated, aluminum oxide finish, auto-thermic, V-Bridge, porous chrome plate, etc. Flat head, oval, slipper skirt  
 Weight—ounces—without rings, pin or bushing ..... 28  
 Length (in.) ..... 3.75 Min.  
 Clearance—  
 Top land ..... .0155 ..... so ..... .0235  
 Skirt Pass on .0015 ..... Hold on .003

#### PISTONS and RINGS (cont'd)

Piston ring groove depth—  
 Oil .170-.183 ..... Compression ..... .1490-.1645  
 No. of oil rings used per piston ..... One  
 Width of oil rings ..... .1860-.1865  
 Width of oil ring gap ..... .005-.015  
 No. of compression rings used per piston ..... Two  
 Width of compression rings ..... .1235-.1240  
 Width of compression ring gap ..... .005-.015  
 Maximum wall thickness of oil rings ..... .155 Max.  
 Maximum wall thickness of compression rings ..... .155 Max.  
 Are ring expanders used, ..... No

#### RODS and PINS

Wristpin—  
 Material ..... Chromium Steel (file hard case)  
 Length 3.135-3.165 ..... Diameter ..... .8645-.8650  
 Locked in rod, piston or floating ..... Locked in rod  
 Clearance in piston Pin bushing ..... Slip fit

Connecting rod—  
 Length—center to center ..... 6-13/16  
 Material ..... Drop-forged steel  
 Weight—ounces ..... 31.2

Crankpin journal—  
 Diameter 2.311-2.312 ..... Length 1.436-1.439

Lower bearing—  
 Material ..... High lead babbitt  
 Clearance ..... .0003 ..... so ..... .0013  
 End play ..... .004 ..... so ..... .012

Shim ~~not~~—solid, laminated or none ..... Laminated  
 Spun or separate ..... Spun (centrifugally cast)  
 Rods and pistons removed from above or below ..... Above

#### CRANKSHAFT

Material ..... Drop-forged steel  
 Weight—stripped (pounds) ..... 70  
 Vibration dampener used—yes or no ..... Yes  
 Type ..... Oscillating (rubber floated)



1950 MODEL SPECIFICATIONS

Make of Car **CHEVROLET** Model **PASSENGER CARS** Date **FEB. 15, 1950**

**CRANKSHAFT (cont'd)**

Crankshaft counterweights used, number of ..... 7  
 Which main bearing takes thrust ..... #3  
 Crankshaft end play ..... .003-.009  
 Main bearing—  
 Type: Cast-in or ..... Slip-in Precision  
 If slip-in: Removable from below ..... Yes  
 Necessary to align ream ..... No  
 Material **Steel-backed thin wall babbitt**  
 Clearance ..... .0007-.0028  
 Shim—solid, laminated or none ..... Solid  
 Main bearing journal diameter x length—  
 No. 1 ..... 2.6835-2.6845 x 1-29/64  
 No. 2 ..... 2.7145-2.7155 x 1-7/16  
 No. 3 ..... 2.7455-2.7465 x 1.4345-1.4385  
 No. 4 ..... 2.7765-2.7775 x 2-3/32\*  
 Main bearing inside diameter x length—  
 No. 1 ..... 2.6850-2.6866 x 1-3/16  
 No. 2 ..... 2.7160-2.7176 x 1-1/8  
 No. 3 ..... 2.7470-2.7486 x 1.4295-1.4315  
 No. 4 ..... 2.7780-2.7796 x 1-5/8  
 Crankshaft gear  
 Make ..... Own  
 Material ..... Steel

**CAMSHAFT**

Camshaft gear  
 Make ..... Various  
 Material **Bakelite and fabric composition with steel hub**

**VALVES**

**INTAKE VALVE—**

Make ..... Own  
 Material **Extruded silichrome steel**  
 Overall length ..... 6.26-6.29  
 Actual overall diameter of head ..... 1-41/64  
 Minimum port diameter ..... 1-1/4  
 Angle of seat ..... 30°  
 Is valve seat an insert? ..... No  
 Stem diameter ..... .3410-.3417  
 Stem to guide clearance ..... .001 to .0027  
 Lift ..... .2941

**VALVES (cont'd)**

Spring pressure and length—  
 With valve closed—lb. **53-63** ins. 1.821  
 With valve open—lb. **124-140** ins. 1.505  
 Length out of engine—ins. 2-1/8

**EXHAUST VALVE—**

Make ..... Own  
 Material **Extruded high chrome steel**  
 Overall length ..... 4.917-4.947  
 Actual overall diameter of head ..... 1-1/2  
 Minimum port diameter ..... 1-1/4  
 Angle of seat ..... 45°  
 Is valve seat an insert? **No** Material **Cylinder Head**  
 Stem diameter ..... .3400-.3407  
 Stem to guide clearance ..... .002 to .0037  
 Lift ..... .3118  
 Spring pressure and length—  
 Outer—  
 With valve closed—lb. **53-63** ins. 1.821  
 With valve open—lb. **124-140** ins. 1.505  
 Length out of engine—ins. 2-1/8

Operating tappet clearance (hot or cold)—intake ..... .006 hot  
 Tappet clearance for valve timing—intake .....  
 Operating tappet clearance (hot or cold)—exhaust ..... .013 hot  
 Tappet clearance for valve timing—exhaust **Zero-Lash #1 exh.**  
 Hydraulic valve lifters—yes or no ..... No  
 Valve timing—(theoretical)  
 Intake opens ..... 1 degrees AUCD  
 Intake closes ..... 39 " ALDC  
 Exhaust opens ..... 42 " BLDC  
 Exhaust closes ..... 9 " -AUCD  
 Valve Timing Marks—on Flywheel

**LUBRICATION**

Lubricating system type—pressure or splash **Pressure, pressure stream and splash.**  
 Oil pressure to—  
 Main bearings—yes or no ..... Yes  
 Connecting rods—yes or no ..... Pressure stream  
 Wristpins—yes or no ..... No  
 Camshaft bearings—yes or no ..... Yes  
 Tappets—yes or no ..... No  
 Rocker Arms ..... Yes

\* 1-7/8" not including undercut

Make of Car **CHEVROLET** Model **PASSENGER CARS** Date **FEB. 15, 1950**

**LUBRICATION (cont'd)**

Timing gear lubrication—*positive or splash* **Positive**  
 Oil pump type **Gear**  
 Oil grade recommended—*SAE viscosity and temperature range—*  
 Not lower than 32°F. 20W or S.A.E. 20  
 As low as plus 10°F. 20W  
 As low as minus 10°F. 10W  
 Below minus 10°F. 10W plus 10% Kerosene  
 Normal oil pressure—*lbs. at M.P.H.* **14 lb. at 39 MPH**  
 Pressure at which relief valve opens **60 lb.**  
 Capacity of oil reservoir—*quarts, dry* **5-1/2** *refill* **5**  
 Oil pressure gauge make **AC**  
 Oil reservoir level gauge type **Rod**  
 Floating type oil intake—*yes or no* **No**  
 External oil filter make **None**  
 Other type of oil cleaner **Screen on oil pump**  
 Oil cooler make **None**  
 Chassis lubrication—*Make* **High pressure gun**

**FUEL**

Gasoline tank—*capacity* **16 gallons**  
 Fuel feed—  
 Type—*vacuum tank, electric pump, gravity vacuum pump or camshaft pump* **Camshaft Pump**  
 Make **AC** Model **AF**  
 Carburetor—  
 Make **Rochester Products** Model **7002050**  
 Number used **One**  
 Size **Main venturi throat I.D. 1 7/32**  
 Type—  
 Up or down draft **Down** Single or dual **Single**  
 Intake manifold heat control—*manual, automatic or none* **Auto**  
 Automatic choke, make **None** Model **None**  
 Air cleaner—*intake silencer make* **AC**  
 Type—*dry felt; oil bath; oil coated fibre* **Metallic Ribbon**  
 Heavy Duty type—*Make* **AC** Model **Oil bath**  
 Muffler make **Various**  
 Tail pipe diameter **(I.D.) 1-11/16**

**COOLING**

Water pump—  
 Type **Centrifugal**  
 Drive **by fan belt**  
 Is pump equipped with packing nut **No**  
 Water circulation thermostat make **Harrison**  
 Pressure relief valve—*yes or no* **No**  
 By-pass for recirculation—*yes or no* **No**  
 Radiator core—  
 Type **Ribbed Cellular**  
 Make **Harrison**

\* Optional at extra cost

**COOLING (cont'd)**

Cooling system—*capacity, quarts* **15**  
 Water jackets full length of cylinders—*yes or no* **Yes**  
 Water all around cylinder—*yes or no* **Yes**  
 Lower radiator hose—**Molded Double Elbow**  
 Inside diameter **1-1/2** Length **16-1/2"** (developed)  
 Upper radiator hose—**Molded Elbow**  
 Inside diameter **1-1/4** Length **6-3/4"** (developed)  
 Fan belt—  
 Make **Various**  
 Angle of vee **30°-32° cut mld., 32°-34° wrap mld.**  
 Length, outside **42-7/8"** Width, maximum **11/16"**  
 Fan—  
 Make **Own** No. of Blades **4-staggered**

**IGNITION**

Ignition units—  
 Make **Delco-Remy** Model **1112353**  
 Manual or octane selector, *degrees advance* **10** *retard* **10**  
 Maximum centrifugal advance crankshaft, *degrees* **39.5**  
 at **3450** engine R.P.M.  
 Inches of Mercury Necessary to operate Vacuum Advance (Plus or minus 1 inch) **7**  
 Maximum Vacuum advance crankshaft, *degrees* **20**  
 Breaker gap **.018-.024** Breaker arm tension **17-21** oz.  
 Cam angle **34** deg.  
 Timing—*Breaker points open* **5° BTC** *degrees crankshaft rotation*  
 or **Zero** *inches piston travel (after or before) top center with octane selector in the* **Zero** *position.*  
 Timing mark location—*flywheel, vibration dampener or none* **F.W.**  
 Firing order **1-5-3-6-2-4**  
 Amperage draw of ignition coil—  
 With engine stopped **4.5**  
 With engine idling **2.5**  
 Spark plug—  
 Thread—**10 m.m., 14 m.m. or 18 m.m.** **14 M.M.**  
 Make **AC** Model **46-5**  
 Gap **.035"**  
 Ignition cable make **Various**

**BATTERY**

Make **Delco** Model **15AA4-W**  
 Capacity—*ampere hours* **100** @ 20 hour rate  
 Number of plates per cell **15**  
 Bench charging rate—  
 Start **7 Amperes** Finish **7 Amperes**  
 Which battery terminal is grounded **Negative**  
 Location of battery **At right side under hood near radiator core.**



Make of Car CHEVROLET Model PASSENGER CARS Date FEB. 15, 1950

**TRANSMISSION (cont'd)**

Constant mesh gears on second ..... Yes  
 Spur or helical gears—  
     For second speed ..... Helical  
     For first speed ..... Helical  
     For reverse speed ..... Helical  
     For all speeds ..... Helical  
 Synchronous meshing and third gears ..... Yes  
 Transmission oil—  
     Capacity—*pints* ..... 1-1/2  
     Grade recommended—*S.A.E. viscosity*  
         Summer ..... 90 Winter ..... 90  
 Universal joints—  
     Make ..... Own  
     Number used ..... One  
     Type—*metal with anti-friction bearing or metal with plain bearing* ..... Metal with plain bearing  
     Lubricated with ..... Oil from Transmission  
 Drive taken through springs, torque arm, torque tube or radius rods ..... Springs  
 Torque taken through springs, torque arm, torque tube or radius rods ..... Torque Tube

**REAR AXLE**

Rear axle—  
     Make ..... Own Model Passenger Car  
     Type—*Semi, full or three-quarter floating* ..... Semi-Floating  
 Minimum road clearance under center of rear axle—*tires inflated* ..... 8-1/16  
 Rear axle oil—  
     Capacity—*pints* ..... 3-1/2  
     Grade and type recommended—*S.A.E. viscosity*  
         Summer ..... 90\* Winter ..... 90\*  
     Type of gearing—*spiral bevel, worm, hypoid* ..... Hypoid  
     Gear ratio—*standard 5-passenger 4-door sedan* ..... 4.11:1  
     Optional gear ratios ..... None  
     Number of teeth—  
         In ring gear ..... 37 In pinion ..... 9  
     How is pinion adjusted—*screw or shims* ..... Shims  
     How is pinion bearing adjusted—*screw or shims* ..... Fixed Type  
     Are pinion bearings carried in sleeve ..... No  
     Backlash between pinion and ring gear ..... .005" to .008"

**TIRES and WHEELS**

Tires—  
     Make ..... U. S., Goodrich or Firestone  
     Size ..... 6.70-15 No. of plies ..... 4 \*\*

\* - Passenger Car Hypoid Lubricant  
 \*\* - 6 ply rating on Station Wagon.

**TIRES and WHEELS (Cont'd)**

Inflation pressure—Front ..... 24 psi Rear ..... 24 psi\*\*\*  
 Rim—Diameter ..... 15" Width ..... 5K

**SPRINGS**

**FRONT SPRING—**

Independent or conventional suspension ..... Independent  
 Type—*coil, semi-elliptic, transverse, torsion* ..... Coil  
 Make ..... Own  
 Material ..... Chrome Alloy Steel  
 Torsional stabilizer at front ..... Yes

**If coil—**

Free length ..... 14"  
 Length under curb weight ..... 10.0" (Styleline Deluxe 4 Door)

**REAR SPRING—**

Independent or conventional suspension ..... Conventional  
 Type—*coil, semi-elliptic, transverse, torsion* ..... Semi-Elliptic  
 Make ..... Own  
 Material ..... Chrome Carbon Steel  
 Torsional stabilizer at rear ..... No

**If leaf—**

Length ..... 49.0" Width ..... 1-3/4"  
 Number of leaves—*5-passenger, 4-door sedan* ..... 7  
 Spring leaves lubricated with ..... Soft, smooth lubricant plus  
 Spring cover ..... Yes (Graphite)

**Spring shackles—**

Front—Type ..... None Make .....  
 Rear—Type Rubber Bushed Make ..... Various

**Spring bolts—**

Type Rear Spring Front Eye Rubber Bushed

**Shock absorbers— (Hydraulic)**

Make ..... Delco or Monroe  
 Type, one way with lever, two way with lever, or direct acting  
     Front ..... Direct Double Acting  
     Rear ..... Direct Double Acting  
 Fluid capacity (oz.)—front ..... rear .....

¢ - Not Serviceable.  
 \*\*\* - 30 psi. Rear on Station Wagon

Make of Car CHEVROLET Model PASSENGER CARS Date FEB. 15, 1950

**STEERING**

Steering gear—Hour Glass Worm and Ball Bearing  
 Type—Roller Sector - Semi-Reversible.  
 Make—Saginaw Model—620-D  
 Ratio—17.4:1  
 Lubricant recommended—See Note \*  
 Steering wheel diameter—17-1/4"  
 Drag link longitudinal or transverse—Longitudinal  
 Tie rod—one or two—Two  
 Is intermediate steering arm used—Yes  
 Number of turns of steering wheel for full left  
 to right swing of wheels—4.11  
 Car turning radius—feet—right, left or both—R - 19.25\*\*  
 L - 19.75\*\*  
 Castor—degrees—30' ± 30'  
 Camber—degrees or 30' ± 30'  
 Toe-in—*inches*—0.0 to 1/8  
 Crosswise inclination of kingpin—degrees—4° ± 30'  
 Front axle—Independent front wheel suspension  
 Make—Own Model—Passenger Car  
 Section type—I-beams, tubular or none—Part of Frame  
 End type—Elliott or reverse Elliott—Reverse Elliott  
 Minimum road clearance—tires inflated—7-13/16" Under Coil  
 Spring Seat.

**BRAKES**

Foot brakes—Own  
 Make—Own  
 Type of mechanism, hydraulic or mechanical—Hydraulic  
 If vacuum booster is standard, state make—None  
 Brake lining moulded, semi-moulded or woven—Bonded  
 Primary shoe—Full molded asbestos composition  
 Secondary shoe—Full molded asbestos composition  
 Drum—  
 Material—See Note @ Diameter—11.0"  
 Lining—  
 Length per wheel—20-5/8"

\* - Steering Gear, Multi-Purpose Gear  
 Lubricant or Chassis Lubricant.

\*\* - Minimum Walled Circle - R - 20.25  
 L - 21.00

@ - Composite-Cast Alloy Iron Rim and  
 Cooling Ribs with Pressed Steel Web.

@@ - Special series HJ-1001; Deluxe Series  
 HK-1001.

**BRAKES (cont'd)**

Width—1-3/4" Thickness—.187"-.194"  
 Clearance—*toe* See Note # *heel* See Note #  
 Total foot braking area—150 Sq.In.  
 Percent braking power on rear wheels—42.3%  
 Hand lever operates on—transmission, separate rear brakes, rear service brakes or all four service brakes—Rear Service Brakes

**FRAME and OTHER GENERAL DATA**

Frame—  
 Depth—maximum—4-37/64"  
 Thickness—maximum—1/8"  
 Flange width—maximum—3-7/8"  
 Wheelbase—115.0"  
 Tread—  
 Front—57.0"  
 Rear—58-3/4"  
 Weight of standard 5-passenger, four-door sedan—  
 Shipping Styleline 3120 lb.; Fleetline 3115 lb.  
 Curb Styleline 3250 lb.; Fleetline 3245 lb.  
 Price of standard 5-passenger, 4-door sedan—\$1460.00 (A).  
 First serial number, this series—@@  
 Serial number location—Stamped on plate on left  
 front body hinge pillar.  
 Overall length of car—\*\*\*  
 With bumpers and bumper guards—197-1/2"  
 Overall width of car—73-15/16"  
 Overall height, road to roof with no load—¢

# - Adjust to slight drag. Back off four notches.

\*\*\* - Station Wagon 198-1/4.

¢ - Fleetline - 64-7/8".  
 Styleline - Sedans, Coupes - 65-3/4".  
 Station Wagon - 70-1/8".  
 Sedan Delivery - 67-5/8".  
 Bel Air,  
 Convertible - 64-1/16.

(A)- Suggested A.D.P. effective 1-7-50

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MODEL SPECIFICATIONS

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Make of Car CHEVROLET Model PASSENGER CARS WITH POWERGLIDE Date February 15, 1950

NOTE-In giving bearing dimensions, kindly use the following order: inside diameter, outside diameter and width. Where cup and cone bearings are used, give both cup and cone numbers.

BEARINGS

Water pump bearing- New Departure
Make or type 954252
Size or number
Fan bearing- New Departure
Make or type 954252
Size or number
Starting motor commutator end bearing-
Make or type Rolled Bronze Graphite Bushing
Size or number 9/16 x 5/8 x 13/16
Starting motor drive end bearing- None
Make or type - -
Size or number - -
Starting motor outboard bearing-
Make or type Rolled Bronze Graphite Bushing
Size or number 1/2 x 9/16 x 25/32"
Generator commutator end bearing-
Make or type Bronze Bushing
Size or number 9/16" x 25/32" x 51/64"
Generator drive end bearing-
Make or type New Departure
Size or number 954378
Transmission turbine bushing
Make or type Steel-backed bronze bushing
Size or number Chev. 3689929
Trans. fr. oil pump dr. gear sleeve bushing
Make or type Cast Bronze bushing
Size or number Chev. 3692993
Transmission rear case bushing
Make or type Steel backed babbitt bushing
Size or number Chev. 3691924
Transmission rear oil pump bearing
Make or type New Departure 3205
Size or number 903205

BEARINGS (cont'd)

Rear axle pinion shaft front bearing- New Departure
Make or type 954394
Size or number
Rear axle pinion shaft rear bearing- Hyatt
Make or type 125630
Size or number
Differential right bearing- Hyatt
Make or type 127861
Size or number
Differential left bearing- Hyatt
Make or type 127861
Size or number
Rear wheel inner bearing- None
Make or type - -
Size or number - -
Rear wheel outer bearing- Hyatt
Make or type 111119
Size or number
Front wheel inner bearing- New Departure
Make or type 909052
Size or number
Front wheel outer bearing- New Departure
Make or type 909001
Size or number
Kingpin upper bearing- Bronze Bushing
Make or type 7/8" x 1-3/64" x 1-5/16"
Size or number
Kingpin lower bearing- Bronze Bushing
Make or type 7/8" x 1-3/64" x 1-5/16"
Size or number
Kingpin thrust bearing- Various (Single row ball)
Make or type 7/8" x 1-5/8" x 9/16"
Size or number

1950

MODEL SPECIFICATIONS

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Make of Car CHEVROLET Model PASSENGER CARS WITH POWERGLIDE Date February 15, 1950

NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.  
 (2) Enter on top line your own model name, or series mark corresponding to Standard, Deluxe or Custom.

EQUIPMENT	Models		
	Standard	STYLELINE FLEETLINE	Custom
Catalog Designation of Model		DE LUXE	
Lacquer make		DuPont	
Body finish, lacquer or synthetic enamel		Lacquer	
Fender finish, lacquer or synthetic enamel		Lacquer	
Hardware make		Ternstedt	
Speedometer make		AC	
Gasoline gauge make		AC	
Thermometer make		AC	
Car lock make		Delco-Remy	
Car lock operates on ignition or ignition and steering		Ignition	
Clock make mechanical Various electrical Delco		#	
Cigar lighter make		Casco Products	
Safety glass make		L.O.F.	
Safety glass type, laminated or tempered			
In windshield		Laminated	
In side windows		Laminated	
In rear window		Tempered \$	
Bumper make		Own	
Bumper guard make		Brown-Lipe-Chapin	
Car heater make Harrison Type * *		%	
Direction signal make		Guide Lamp	
Front—yes or no Yes Rear—yes or no Yes		%	
No. of tail lights included		Two *	
No. of visors included		Two	
No. of horns included		Two	
No. of windshield wipers included		Two	
No. of spare tires included		One	

- \* - Station Wagon - One.
- # - Stem-Wind, Regular Equipment; Electrical, accessory.
- \$ - Laminated Glass is used in the Convertible Coupe rear window.
- % - Special Equipment.
- \*\* - Outside air or Recirculating type available.

Make of Car.....CHEVROLET..... Model.....PASSENGER CARS..... Date FEB. 15, 1950

NOTE--In giving bearing dimensions, kindly use the following order: inside diameter, outside diameter and width. Where cup and cone bearings are used, give both cup and cone numbers.

BEARINGS

Water pump bearing--  
 Make or type.....New Departure  
 Size or number.....954252

Fan bearing--  
 Make or type.....New Departure  
 Size or number.....954252

Starting motor commutator end bearing--  
 Make or type.....Rolled Bronze Graphite Bushing  
 Size or number.....9/16 x 5/8 x 13/16

Starting motor drive end bearing--  
 Make or type.....None  
 Size or number.....--

Starting motor outboard bearing--  
 Make or type.....Rolled Bronze Graphite Bushing  
 Size or number.....1/2 x 9/16 x 25/32"

Generator commutator end bearing--  
 Make or type.....Bronze Bushing  
 Size or number.....9/16" x 25/32" x 51/64"

Generator drive end bearing--  
 Make or type.....New Departure  
 Size or number.....954378

Transmission main drive gear front pilot bearing--  
 Make or type.....Oil impregnated graphite-bronze  
 Size or number.....19/32 x 1-3/32 x 3/4

Clutch throwout bearing--  
 Make or type.....New Departure  
 Size or number.....909422

Transmission ~~main drive gear~~ bearing--  
 Make or type.....New Departure  
 Size or number.....954388

Transmission main shaft front pilot bearing--  
 Make or type.....Roller  
 Size or number.....3/16" x 33/64"

Transmission main shaft rear bearing--  
 Make or type.....New Departure  
 Size or number.....954168

Transmission countershaft front bearing--  
 Make or type.....Steel Back Bronze or Bronze Bushing  
 Size or number.....7/8" x 1" x 1-1/4"

Transmission countershaft rear bearing--  
 Make or type.....Steel Back Bronze or Bronze Bushing  
 Size or number.....7/8" x 1" x 1-1/4"

Transmission reverse idler bearing--  
 Make or type.....Steel Back Bronze or Bronze Bushing

BEARINGS (cont'd)

Size or number.....3/4" x 7/8" x 3/4"

Overdrive shaft rear bearing--  
 Make or type.....None  
 Size or number.....--

Overdrive shaft pilot bearing--  
 Make or type.....None  
 Size or number.....--

Main shaft extension bearing--  
 Make or type.....Steel back bronze or bronze bushing  
 Size or number.....1-7/16 x 1-9/16 x 7/8

Rear axle pinion shaft front bearing--  
 Make or type.....New Departure  
 Size or number.....954394

Rear axle pinion shaft rear bearing--  
 Make or type.....Hyatt  
 Size or number.....125630

Differential right bearing--  
 Make or type.....Hyatt  
 Size or number.....127861

Differential left bearing--  
 Make or type.....Hyatt  
 Size or number.....127861

Rear wheel inner bearing--  
 Make or type.....None  
 Size or number.....--

Rear wheel outer bearing--  
 Make or type.....Hyatt  
 Size or number.....111119

Front wheel inner bearing--  
 Make or type.....New Departure  
 Size or number.....909052

Front wheel outer bearing--  
 Make or type.....New Departure  
 Size or number.....909001

Kingpin upper bearing--  
 Make or type.....Bronze Bushing  
 Size or number.....7/8" x 1-3/64" x 1-5/16"

Kingpin lower bearing--  
 Make or type.....Bronze Bushing  
 Size or number.....7/8" x 1-3/64" x 1-5/16"

Kingpin thrust bearing--  
 Make or type.....Various (Single row ball)  
 Size or number.....7/8" x 1-5/8" x 9/16"



Make of Car.....CHEVROLET..... Model PASSENGER CARS..... Date FEB. 15, 1950

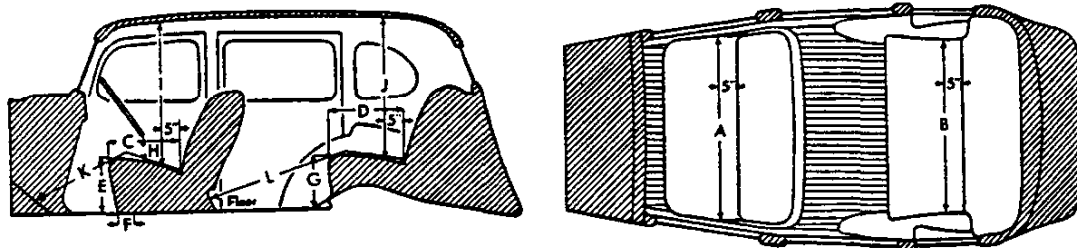
NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.  
 (2) Enter on top line your own model name, or series mark corresponding to Standard, DeLuxe or Custom.

EQUIPMENT	STYLELINE FLEETLINE	
	SPECIAL	DE LUXE
Catalog Designation of Model .....		
Lacquer make .....	DuPont	DuPont
Body finish, <i>lacquer or synthetic enamel</i> .....	Lacquer	Lacquer
Fender finish, <i>lacquer or synthetic enamel</i> .....	Lacquer	Lacquer
Hardware make .....	Ternstedt	Ternstedt
Speedometer make .....	AC	AC
Gasoline gauge make .....	AC	AC
Thermometer make .....	AC	AC
Car lock make .....	Delco-Remy	Delco-Remy
Car lock operates on ignition or ignition and steering .....	Ignition	Ignition
Clock make, <i>mechanical Various electrical Delco</i> .....	%	#
Ciger lighter make .....	%	Casco Products
Safety glass make .....	L.O.F.	L.O.F.
Safety glass type, <i>laminated or tempered</i> .....		
In windshield .....	Laminated	Laminated
In side windows .....	Laminated ‡	Laminated
In rear window .....	Tempered	Tempered \$
Bumper make .....	Own	Own
Bumper guard make .....	- - - Brown	Liipe-Chapin
Car heater make Harrison Type ** .....	%	%
Direction signal make .....	Guide Lamp	Guide Lamp
Front—yes or no Yes   Rear—yes or no Yes .....	%	%
No. of tail lights included .....	Two *	Two *
No. of visors included .....	One	Two
No. of horns included .....	Two	Two
No. of windshield wipers included .....	Two	Two
No. of spare tires included .....	One	One

- ‡ - Stationary rear side windows are Hi-Test safety solid plate (tempered).
- \* - Station Wagon and Sedan Delivery - One.
- # - Stem-Wind, Regular Equipment; Electrical, accessory.
- \$ - Laminated Glass is used in the Convertible Coupe rear window.
- % - Special Equipment.
- \*\* - Outside air or Recirculating type available.

Make of Car CHEVROLET Model PASSENGER Date FEB. 15, 1950

**BODY DIMENSIONS (Five-Passenger, Four-Door Sedan)**



**INTERIOR**

*All interior body dimensions taken with front seat in its rear position*

	STYLELINE	FLEETLINE
Width of front seat cushion, measured 5 inches from back (A)	60	60
Width of rear seat cushion, measured 5 inches from back (B)	58-3/8	58-5/8
Depth of front seat cushion (C)	18-1/8	18-1/8
Depth of rear seat cushion (D)	18-1/2	18
Height of front seat cushion measured 15 inches from center line of body (E)	14-1/4	14-1/4
Front seat horizontal adjustment, inches (F)	4.4	4.4
Front seat vertical adjustment, inches	1/2	1/2
Height of rear cushion measured 15 inches from center line of body (G)	12-1/2	12-1/2
Vertical distance steering wheel and seat cushion (H)	5-1/4	5-1/4
Head room at front seat, measured 5 inches from back (I) @ 8° angle from vertical	35-3/8*	34-3/8*
Head room at rear seat, measured 5 inches from back (J) @ 8° angle from vertical	35*	34-1/8*
Leg room in front seat Meas. fr. 8" up on toe bd. (K) (Horizontally from crown to seat-back)	42-3/4	42-3/4
Leg room in rear seat, Meas. fr. 8" up on foot rest (L)	41*	38-5/8*
Trunk capacity cubic feet	19	20
Width of left front pillar on diagonal with door closed	2-15/16	2-15/16

\* - Trim and hardware differences between Special and De Luxe Models are not considered in these dimensions. However, these differences are never greater than 5/8".

Make of Car CHEVROLET

Model PASSENGER CARS

Date February 15, 1950

BODY DETAIL AND EQUIPMENT FORMS

DIRECTIONS

Only standard equipment included in the Factory Delivered price shown in column 3 should be listed on this sheet. Please arrange body types in an ascending price scale with the lowest priced type at the top and the highest priced type at the bottom.

IMPORTANT—To save your time, where an item is common to several types, use arrows to indicate the fact as shown in diagrams.

Standard abbreviations may be used where space limitations make this necessary. Where sub-headings such as those shown in column for Body Make are identified with numerals, these numerals may be used in filling in form.

Make	Body Model	Body Make
Crescent 6-80	Roadster	Fisher
	Phaeton	
	Two-door sedan	
	Four-door sedan	
	Coupe	
Crescent 8-80	Coupe with rumble	Murray
	Cabriolet	
	Roadster	
	Phaeton	
	Two-door sedan	
Crescent 8-80	Four-door sedan	Fisher
	Coupe	
	Coupe with rumble	
	Cabriolet	
	Limousine	
Crescent 8-80	Landaulet	Fleetwood LeBaron

MAKE AND MODEL	BODY TYPE List Types on Ascending Price Scale Beginning with the Lowest Price	Factory Delivered Price Including Federal Tax and Handling Charge	Number of Pass- engers	Wheel- base	Shipping Weight	Seating Arrange- ment Number  See Below	Body Make
STYLELINE SPECIAL*	BUSINESS COUPE	1339.00	3	115	3025	1	FISHER
	TWO-DOOR SEDAN	1413.00	6		3085	3	
	SPORT COUPE	1418.00	6		3050	3	
	FOUR-DOOR SEDAN	1460.00	6		3120	4	
	SEDAN DELIVERY	1465.00	2		3105	1	
FLEETLINE SPECIAL*	TWO-DOOR SEDAN	1413.00	6		3080	3	
	FOUR-DOOR SEDAN	1460.00	6		3115	4	
STYLELINE DE LUXE	TWO-DOOR SEDAN	1492.00**	6		3100***	3	
	SPORT COUPE	1508.00**	6		3090***	3	
	FOUR-DOOR SEDAN	1539.00**	6		3150***	4	
	BEL AIR	1751.00**	6		3225***	3	
	CONVERTIBLE COUPE	1857.00**	5		3380***	3	
	STATION WAGON	2004.00**	8		3460***	—	
FLEETLINE DE LUXE	TWO-DOOR SEDAN	1492.00**	6		3115***	3	
	FOUR-DOOR SEDAN	1539.00**	6		3145***	4	
@ - Effective January 7, 1950.							
* - Powerglide Option, NOT available on SPECIAL models.							
** - Powerglide Option available on DELUXE models at additional cost of \$158.50							
*** - Add approximately 135 lb. for Powerglide Option.							

SEATING ARRANGEMENT NUMBERS

- 1—Two-door car with no rear seat.
- 2—Two-door car with rumble seat.
- 3—Two-door car with conventional rear cushion.
- 4—Four-door car with cushions front and rear.
- 5—Four-door car with cushions front and rear plus two auxiliary seats folding into front seat back.
- 6—Two-door car with two opera seats folding into sides of body.
- 7—Two-door car with two opera seats folding into rear of body.
- 8—Two-door car with one opera seat folding into rear of body and other seat stationary.
- 9—Two-door car with rear stationary seat for one passenger.

## 1950 POWERGLIDE OPTION

The specifications listed in this section do not represent an additional model. They are to show the changed specifications that exist when the Powerglide option is added to a regular model.

### Mechanical Details

Make of Car CHEVROLET Model PASSENGER CAR, 2100 SER. WITH POWERGLIDE TRANSMISSION OPTION  
 Name of Maker CHEVROLET DIVISION OF GENERAL MOTORS CORPORATION Address Detroit 2, Michigan

Date February 15, 1950

**NOTE: (1) Subject to Correction: It is understood that the following data are subject to correction in the case of cars not in production at the time this compilation was requested.**

#### ENGINE

No. of cylinders ..... 6  
 Valve arrangement ..... In-head  
 Bore ..... 3-9/16 Stroke ..... 3-15/16  
 Cylinder head, cast iron or aluminum ..... Cast Alloy Iron  
 Cylinder sleeve, Yes. No. No.  
 Piston displacement (Cu. In.) ..... 235.5  
 Taxable horsepower ..... 30.4  
 Horsepower rating—

To be based on actual performance corrected to 60°F. at sea level (barometric pressure 29.92 inches of mercury) with standard fuel. (Octane No. of fuel ..... 73)

—With Bare Engine—  
 Maximum brake hp. 105 at 3600 R.P.M.

—With Standard Accessories—\*  
 Maximum brake hp. 98 at 3500 R.P.M.

\*Those standard accessories needed for normal operation including fan, generator, starter, air cleaner, muffler, manifolds, fuel and water pumps.

Maximum torque—  
 With bare engine, lb. ft. 193 at 1100-2200 R.P.M.

With standard accessories,\* lb. ft. 189 at 1200-1800 R.P.M.

Compression Ratio—  
 Standard 6.7:1 Optional None

Standard compression pressure—pounds—  
 At cranking speed ..... 110  
 At what R.P.M. ..... 210-220

#### PISTONS and RINGS

Piston ..... Own  
 Make .....  
 Material ..... Cast Alloy Iron, surface treated  
 Features—split skirt, invar strut, oval, tin-plated, aluminum oxide finish, auto-thermic, V-Bridge, porous chrome plate, etc. Flat head, oval, slipper skirt  
 Weight—ounces—without rings, pin or bushing ..... 32  
 Length (in.) ..... 3.75 Min.  
 Clearance—  
 Top land ..... .015 to ..... .023  
 Skirt, Pass on .0015 Hold on .003

#### PISTONS and RINGS (cont'd)

Piston ring groove depth—  
 Oil .170-.183 Compression Top .172-.185 Bottom .1490-.1645  
 No. of oil rings used per piston ..... One  
 Width of oil rings ..... .1860-.1865  
 Width of oil ring gap ..... .005-.015  
 No. of compression rings used per piston ..... Two  
 Width of compression rings Top .0930-.0935 Bot .1235-.1244  
 Width of compression ring gap Top .007-.017 Bot .005-.020  
 Maximum wall thickness of oil rings ..... .160 Max.  
 Maximum wall thickness of compression rings Top .178, Bot .155  
 Are ring expanders used, Yes. No. No.

#### RODS and PINS

Wristpin—  
 Material ..... Chromium Steel (file hard case)  
 Length 3.135-3.165 Diameter .8645-.8650  
 Locked in rod, piston or floating ..... Locked in rod  
 Clearance in piston Pin bushing to Slip fit

Connecting rod—  
 Length—center to center ..... 6-13/16  
 Material ..... Drop-forged steel  
 Weight—ounces ..... 31.2

Crankpin journal—  
 Diameter 2.311-2.312 Length 1.436-1.439

Lower bearing—  
 Material ..... High lead babbitt  
 Clearance .0003 to .0013  
 End play .004 to .012  
 Shim—solid, laminated or none ..... Laminated  
 Spun or separate ..... Spun (centrifugally cast)  
 Rods and pistons removed from above or below ..... Above

#### CRANKSHAFT

Material ..... Drop-forged steel  
 Weight—stripped (pounds) ..... 71  
 Vibration dampener used—yes or no ..... Yes  
 Type ..... Oscillating (rubber floated)

Make of Car. CHEVROLET Model PASSENGER CARS WITH POWERGLIDE Date February 15, 1950

CRANKSHAFT (cont'd)

Crankshaft counterweights used, number of 7  
 Which main bearing takes thrust #3  
 Crankshaft end play .003-.009  
 Main bearing—  
 Type: Cast-in or Slip-in Precision  
 If slip-in: Removable from below Yes  
 Necessary to align ream No  
 Material Steel-backed thin wall babbitt  
 Clearance .0007-.0028  
 Shim—solid, laminated or none Solid  
 Main bearing journal diameter x length—  
 No. 1 2.6835-2.6845 x 1-29/64  
 No. 2 2.7145-2.7155 x 1-7/16  
 No. 3 2.7455-2.7465 x 1.4345-1.4385  
 No. 4 2.7765-2.7775 x 2-3/32 \*  
 Main bearing inside diameter x length—  
 No. 1 2.6850-2.6866 x 1-3/16  
 No. 2 2.7160-2.7176 x 1-1/8  
 No. 3 2.7470-2.7486 x 1.4295-1.4315  
 No. 4 2.7780-2.7796 x 1-5/8  
 Crankshaft gear or sprocket—  
 Make Own  
 Material Steel

CAMSHAFT

Camshaft gear or sprocket—  
 Make Various  
 Material Bakelite and fabric composition  
 Timing chain— with steel hub  
 Make None  
 Number of links  
 Width  
 Pitch

VALVES

INTAKE VALVE—

Make Own  
 Material Hot rolled silichrome or Ni.chr.stl.  
 Overall length 6.364-6.394  
 Actual overall diameter of head 1-15/16  
 Minimum port diameter 1-7/16  
 Angle of seat 30°  
 Is valve seat an insert? No  
 Stem diameter .3410-.3417  
 Stem to guide clearance .001 to .0027  
 Lift .3275

VALVES (cont'd)

Spring pressure and length— 62-68 ins. 1.821  
 With valve closed—lb. 155-165 ins. 1.505  
 With valve open—lb. 155-165 ins. 1.505  
 Length out of engine—ins. 2-5/32

EXHAUST VALVE—

Make Own  
 Material Hot rolled high chrome steel  
 Overall length 4.904-4.934  
 Actual overall diameter of head 1-1/2"  
 Minimum port diameter 1-9/16"  
 Angle of seat 45°  
 Is valve seat an insert? No Material Cyl.Head  
 Stem diameter .3400-.3407  
 Stem to guide clearance .002 to .0037  
 Lift .3275  
 Spring pressure and length—  
~~INS.~~  
 With valve closed—lb. 62-68 ins. 1.821  
 With valve open—lb. 155-165 ins. 1.505  
 Length out of engine—ins. 2-5/32

Operating tappet clearance (hot or cold)—intake - -  
 Tappet clearance for valve timing—intake - -  
 Operating tappet clearance (hot or cold)—exhaust - -  
 Tappet clearance for valve timing—exhaust \* \*  
 Hydraulic valve lifters—yes or no Yes

Valve timing— (theoretical)  
 Intake opens 16 degrees BU DC  
 Intake closes 48 " AL DC  
 Exhaust opens 46-1/2 " BL DC  
 Exhaust closes 17-1/2 " AU DC  
 Valve Timing Marks—on Flywheel,

LUBRICATION

Lubricating system type—pressure or splash Pressure, pressure  
 Oil pressure to— stream & splash.  
 Main bearings—yes or no Yes  
 Connecting rods—yes or no Pressure stream  
 Wristpins—yes or no No  
 Camshaft bearings—yes or no Yes  
~~Hydraulic lifters~~ hydraulic lifters— Yes  
 Rocker arms— Yes

\* - 1-7/8" not including undercut

\* \* - Replace with non-hydraulic tappet and adjust to zero lash #1 exhaust.

Make of Car. **CHEVROLET** Model **PASSENGER CARS WITH POWERGLIDE** Date **February 15, 1950**

**LUBRICATION (cont'd)**

Timing gear or chain lubrication—*positive or splash* **Positive**  
 Oil pump type **Gear**  
 Oil grade recommended—*SAE viscosity and temperature range—*  
 Not lower than 32° F. **20W** or SAE **20**  
 As low as plus 10° F. **20W**  
 As low as minus 10° F. **10W**  
 Below minus 10° F. **10W plus 10% kerosene**  
 Normal oil pressure—*lbs. at 2000 RPM* **14 lb. at 2000 RPM**  
 Pressure at which relief valve opens **60 lb.**  
 Capacity of oil reservoir—*quarts, dry* **5-1/2** *refill* **5**  
 Oil pressure gauge make **AC**  
 Oil reservoir level gauge type **Rod**  
 Floating type oil intake—*yes or no* **No**  
 External oil filter make **None**  
 Other type of oil cleaner **Screen on oil pump**  
 Oil cooler make **See TRANSMISSION SECTION**  
 Chassis lubrication—*Make* **High pressure gun**

**FUEL**

Gasoline tank—*capacity* **16 gallons**  
 Fuel feed—  
 Type—*vacuum tank, electric pump, gravity vacuum pump or camshaft pump* **Camshaft pump**  
 Make **AC** Model **AF**  
 Carburetor—  
 Make **Rochester Products** Model **7002051**  
 Number used **One**  
 Size **Main venturi throat I.D. 1-11/32"**  
 Type—  
 Up or down draft **Down** Single or dual **Single**  
 Intake manifold heat control—*manual, automatic or none* **Auto**  
 Automatic choke, make **None** Model **None**  
 Air cleaner—intake silencer make **AC**  
 Type—*dry felt; oil bath; oil coated fibre* **Metallic Ribbon**  
 Heavy Duty type—*Make AC-oil bath* Model **1544754**  
 Muffler make **Various**  
 Tail pipe diameter **(I.D.) 1-13/16"**

**COOLING**

Water pump—  
 Type **Centrifugal**  
 Drive **By fan belt**  
 Is pump equipped with packing nut **No**  
 Water circulation thermostat make **Harrison**  
 Pressure relief valve—*yes or no* **Yes - 4 lb.**  
 By-pass for recirculation—*yes or no* **No**  
 Radiator core—  
 Type **Ribbed Cellular**  
 Make **Harrison**

**COOLING (cont'd)**

Cooling system—*capacity, quarts* **15**  
 Water jackets full length of cylinders—*yes or no* **Yes**  
 Water all around cylinder—*yes or no* **Yes**  
 Lower radiator hose—*Rad. to oil cooler* **1-1/2" x 4-7/16"**  
 Inside diameter **1-1/2"** Length **2-7/16"**  
 Upper radiator hose—*Molded Elbow*  
 Inside diameter **1-1/4"** Length **6-3/4" (developed)**  
 Fan belt—  
 Make **Various**  
 Angle of vee **30°-32° cut mld, 32°-34° wrap mld.**  
 Length, outside **42-7/8** Width, maximum **11/16"**  
 Fan—  
 Make **Own** No. of Blades **4-staggered**

**IGNITION**

Ignition units—  
 Make **Delco-Remy** Model **1112358**  
 Manual or octane selector, *degrees advance* **10** *retard* **10**  
 Maximum centrifugal advance crankshaft, *degrees* **33**  
 at **3700** engine R.P.M.  
 Inches of Mercury Necessary to operate Vacuum Advance (Plus or minus 1 inch) **7**  
 Maximum Vacuum advance crankshaft, *degrees* **20**  
 Breaker gap **.018-.024** Breaker arm tension **17-21** oz.  
 Cam angle **34** deg.  
 Timing—*Breaker points open* **5** *degrees crankshaft rotation*  
 or *inches piston travel (BEFORE or before) top center*  
 with octane selector in the **Zero** position.  
 Timing mark location—*flywheel, vibration dampener or none* **F.W.**  
 Firing order **1-5-3-6-2-4**  
 Amperage draw of ignition coil—  
 With engine stopped **4.5**  
 With engine idling **2.5**  
 Spark plug—  
 Thread—**14 M.M.**  
 Make **AC** Model **46-5**  
 Gap **.035**  
 Ignition cable make **Various**

**BATTERY**

Make **Delco** Model **14 AA4-W**  
 Capacity—*ampere hours* **100** @ **20 hour rate**  
 Number of plates per cell **15**  
 Bench charging rate—  
 Start **7 Amperes** Finish **Negative**  
 Which battery terminal is grounded **Negative**  
 Location of battery **At right side under hood near radiator core.**

\* - Optional at extra cost.

MODEL SPECIFICATIONS

PASSENGER CARS

WITH POWERGLIDE

Date February 15, 1950

Make of Car. CHEVROLET

Model

STARTING MOTOR

Make Delco-Remy Model 1107075  
 Normal engine cranking speed 125 RPM  
 Brush spring tension 24 to 28 oz.  
 Lock test—  
 Amperage draw 5.25  
 Volts 3.4  
 Torque in pounds feet 12  
 No load test—  
 Amperage draw 65  
 Volts 5 R.P.M. 5000  
 Type of drive—~~sliding~~ sliding gear with overrunning clutch  
 Starting device—Solenoid, manual, etc. Solenoid  
 Starter operation—check items required to start engine  
 1. Turn on ignition Yes  
 Put Transmission Selector lever in Park or Neutral Yes  
 5. Operate button on dash Yes  
 Starting motor pinion meshes front or rear Front  
 No. of teeth in flywheel 139  
 Face width of flywheel teeth 1/2"  
 Gear ratio between starter armature and flywheel 15.44:1

GENERATOR

Make Delco-Remy Model 1102710  
 Type—bird brush, shunt, etc. Shunt  
 Brush spring tension 24 to 32 oz.  
 Current regulator, voltage regulator or current and voltage control unit Voltage & Current Regulator  
 Maximum controlled charging rate Hot  
 Temperature 34-40 (preferred 36)  
 Amperes 7.0-7.7 (preferred 7.4)  
 Voltage 24.00  
 R.P.M. 2400  
 Cutout relay—  
 Voltage at closing 5.9-6.8 (preferred 6.4)  
 Amperes to open, reverse current 0 to 4  
 Air gap .020"  
 Voltage regulator—  
 Volts 7.0-7.7 (preferred 7.4)  
 Temperature Operating  
 Air gap .080"  
 Current regulator—  
 Amperes 32-40 (preferred 36)  
 Temperature Operating  
 Air gap .080"  
 Car speed for maximum charging rate Variable  
 Ammeter or charge indicator make AC

LAMPS

Lighting switch make Delco Remy  
 Are tail and dash lights in series No  
 Headlights—  
 Make Guide  
 Location—in fender, in catwalk, or radiator shell In fender  
 Parking or fender light make Guide  
 Tail and stop light make Guide  
 Horn—  
 Type—vibrator or motor Vibrator No. used Two  
 Make Delco-Remy  
 Amperage draw of each High note 17-19 Amp.  
 - Low note 19-21 Amp.

CLUTCH

Make None  
 Drive type—  
 Direct to flywheel face  
 Through fluid flywheel  
 Semi-centrifugal  
 Power operated unit—make  
 Vibration insulation or neutralizer—fabric, rubber blocks or springs  
 No. of clutch driving discs  
 No. of clutch driven discs  
 Clutch facing—  
 Material—woven or moulded asbestos, cork  
 Inside diameter  
 Outside diameter  
 Thickness  
 No. required

TRANSMISSION

Transmission—  
 Make.... Own Name..... Powerglide  
 Type .. Automatic hydraulic torque Converter with planetary gears for reverse and emergency low  
 Manual-Selector Positions - Park, Neutral, Drive, Low, Reverse  
 Maximum Ratio -Converter - 2.2:1  
 Low Gear 1.82:1  
 Reverse 1.82:1  
 Total Ratios Drive 2.2:1 to 1:1  
 Low 4.0:1 to 1.82:1  
 Reverse 4.0:1 to 1.82:1  
 Transmission Oil Cooler ..... Yes  
 Type- Oil-Water heat exchanger  
 Make- Harrison

1950  
MODEL SPECIFICATIONS

PAGE 5

Make of Car. CHEVROLET Model PASSENGER CARS WITH POWERGLIDE Date February 15, 1950

TRANSMISSION (cont'd)

Transmission oil—  
Capacity—~~3~~ quarts 9 (refill)  
Grade recommended—S.A.E. viscosity  
Summer \* Winter \*  
Universal joints—  
Make Own  
Number used One  
Type—metal with anti-friction Metal with  
bearing or metal with plain bearing plain bearing  
Lubricated with Oil from Transmission  
Drive taken through springs, torque arm, torque tube or  
radius rods Springs  
Torque taken through springs, torque arm, torque  
tube or radius rods Torque Tube

REAR AXLE

Rear axle—  
Make Own Model Passenger Car  
Type—Semi, full or three-quarter floating Semi-Floating  
Minimum road clearance under center of rear  
axle—tires inflated 8-1/16"  
Rear axle oil—  
Capacity—pints 3-1/2  
Grade and type recommended—S.A.E. viscosity  
Summer 90 \*\* Winter 90 \*\*  
Type of gearing—spiral bevel, worm, hypoid Hypoid  
Gear ratio—standard 5-passenger 4-door sedan 3.55:1  
Optional gear ratios None  
Number of teeth—  
In ring gear 39 In pinion 11  
How is pinion adjusted—screw or shims Shims  
How is pinion bearing adjusted—screw or shims Fixed Type  
Are pinion bearings carried in sleeve No  
Backlash between pinion and ring gear .005" to .008"

TIRES and WHEELS

Tires—  
Make U.S., Goodrich or Firestone  
Size 6.70-15 \*\*\* No. of plies 4 \*\*\*\*

\* - Automatic Transmission Fluid - Type "A"  
\*\* - Passenger Car Hypoid Lubricant  
\*\*\* - 7.10-15, 4 Ply on Convertible.  
\*\*\*\* - 6 Ply on Station Wagon

TIRES and WHEELS (Cont'd)

Inflation pressure—Front 24 psi Rear 24 psi  
Rim—Diameter 15" Width 5K

SPRINGS

FRONT SPRING—

Independent or conventional suspension Independent  
Type—coil, semi-elliptic, transverse, torsion Coil  
Make Own  
Material Chrome Alloy Steel  
Torsional stabilizer at front Yes

If coil—

Free length 14-3/8"  
Length under curb weight 10-3/16"

REAR SPRING—

Independent or conventional suspension Conventional  
Type—coil, semi-elliptic, transverse, torsion Semi-Elliptic  
Make Own  
Material Chrome Carbon Steel  
Torsional stabilizer at rear No

If leaf—

Length 49.0" Width 1-3/4"  
Number of leaves—5-passenger, 4-door sedan 7  
Spring leaves lubricated with Soft, smooth lubricant plus  
Spring cover, Yes Yes No (Graphite)

Spring shackles—

Front—Type None Make - -  
Rear—Type Rubber Bushed Make Various

Spring bolts—

Type Rear Spring Front Eye Rubber Bushed

Shock absorbers— (Hydraulic)

Make Delco or Monroe  
Type, one way with lever, two way with lever, or direct acting  
Front Direct Double Acting  
Rear Direct Double Acting  
Fluid capacity (oz.)—front rear

@ - Not Serviceable.

\*\*\*\*\* - Station wagon 30 psi rear.



Make of Car CHEVROLET Model PASSENGER CARS WITH POWERGLIDE Date February 15, 1950

**STEERING**

Steering gear— Hour Glass Worm and Ball Bearing  
 Type Roller Sector - Semi-Reversible.  
 Make Saginaw Model 620-D  
 Ratio 17.4:1  
 Lubricant recommended See Note \*  
 Steering wheel diameter 17-1/4"  
 Drag link longitudinal or transverse Longitudinal  
 Tie rod—one or two Two  
 Is intermediate steering arm used Yes  
 Number of turns of steering wheel for full left  
 to right swing of wheels 4.11  
 Car turning radius—feet—right, left or both R - 19.25\*\*  
 Caster—degrees 30' ± 30' so L - 19.75\*\*  
 Camber—degrees or 30' ± 30' inches so  
 Toe-in—inches 0.0 so 1/8  
 Crosswise inclination of kingpin—degrees 40 ± 30'  
 Front axle—Independent front wheel suspension  
 Make Own Model Passenger Car  
 Section type—l-beams, tubular or none Part of Frame  
 End type—Elliott or reverse Elliott Reverse Elliott  
 Minimum road clearance—tires inflated 7-13/16" Under Coil  
 Spring Seat.

**BRAKES**

Foot brakes—  
 Make Own  
 Type of mechanism, hydraulic or mechanical Hydraulic  
 If vacuum booster is standard, state make None  
 Brake lining moulded, semi-moulded or woven Bonded  
 Primary shoe Full molded asbestos composition  
 Secondary shoe Full molded asbestos composition  
 Drum—  
 Material See Note @ Diameter 11.0"  
 Lining—  
 Length per wheel 20-5/8"

\* - Steering Gear, Multi-Purpose Gear Lubricant or Chassis Lubricant.

\*\* - Minimum Walled Circle - R - 20.25  
 L - 21.00

@ - Composite-Cast Alloy Iron Rim and Cooling Ribs with Pressed Steel Web.

**BRAKES (cont'd)**

Width 1-3/4" Thickness .187"-.194"  
 Clearance—*toe* See Note # *heel* See Note #  
 Total foot braking area 150 Sq.In.  
 Percent braking power on rear wheels 42.3%  
 Hand lever operates on—transmission, separate rear brakes, rear service brakes or all four service brakes Rear Service Brakes

**FRAME and OTHER GENERAL DATA**

Frame—  
 Depth—maximum 4-37/64"  
 Thickness—maximum 1/8"  
 Flange width—maximum 3-7/8"  
 Wheelbase 115.0"  
 Tread—  
 Front 57.0"  
 Rear 58-3/4"  
 Weight of standard 5-passenger, four-door sedan—(lbs.)  
 Shipping Style1.Del. 3280; Fleet1.Del. 3285  
 Curb Style1.Del. 3410; Fleet1.Del. 3415  
 Price of standard 5-passenger, 4-door sedan \$ 1539.00 (A)  
 First serial number, this series HK1001  
 Serial number location Stamped on plate on left  
 front body hinge pillar.  
 Overall length of car—\*\*\*  
 With bumpers and bumper guards 197-1/2"  
 Overall width of car 73-15/16"  
 Overall height, road to roof with no load 6'

# - Adjust to slight drag. Back off four notches.

\*\*\* - Station Wagon 198-1/4.

6' - Fleetline - 64-7/8".  
 Styleline - Sedans, Coupes - 65-3/4".  
 Station Wagon - 70-1/8".  
 Bel Air, Convertible - 64-1/16.

(A)—De Luxe Model; (Add \$158.50 for Powerglide suggested A.D.P. Option)