

AUTOMOBILE MANUFACTURERS ASSOCIATION CONSOLIDATED SPECIFICATION QUESTIONNAIRE

MAKE OF CAR: PONTIAC	MODEL NAME	SYMBOL
COMPANY: PONTIAC MOTOR DIVISION GENERAL MOTORS CORPORATION PONTIAC, MICHIGAN	860	56-27
	870	56-27
	STAR CHIEF (SAFARI)	56-27
	STAR CHIEF	56-28
MODEL YEAR: 1956	DATE: August 19, 1955	

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- NOTES: 1. The specifications set forth herein are those in effect at the date of compilation and are subject to change without notice.
 2. All specifications are standard for the models under which they are listed unless otherwise indicated.
 3. All dimensions are nominal engineering dimensions unless otherwise indicated.
 4. Unless otherwise indicated, specifications apply to 5 or 6 passenger, 4-door sedan or equivalent.

GENERAL SPECIFICATIONS

Model	56-27	56-28	
Wheelbase	122.0	124.0	
Tread	Front	58.66	
	Rear	59.05	
Maximum Overall Dimensions	Length (L-103)	205.6	
	Width (W-103)	75.1	
	Height (H-101)	60.5	
Steering ratio—overall	25:1		
Turning diameter (curb to curb)	42' 5"	42' 11"	
Shipping weight*	3496	3561	
Transmission— (Specify standard, optional, not avail.)	Conventional	Standard	
	Overdrive	None	
	Automatic	Optional	
Axle ratio	Conventional	3.64:1	
	Overdrive	None	
	Automatic	3.08:1	
Tire size	7.10 x 15 - 4 Ply		
Engine	Type	90° V	
	No. of cylinders	8	
	Valve arrangement	In Head	
	Bore and stroke	3.94 x 3.25	
	Piston displacement, cu. in.	316.6	
	Standard compression ratio	8.9:1 (x)	
	Maximum bhp at engine rpm	205 @ 4600** (x) †	227 @ 4800*** (x)
	Maximum torque at rpm	294 @ 2600** (x) †	312 @ 3000*** (x)

*Standard car weight, not including gas and water.

**Hydra-Matic Transmission Engine except Safari - With Safari, or Special Equipment Four-Barrel Carburetor, output is increased to 227 BHP @ 4800 RPM and 312 Lb. Ft. @ 3000 RPM.

***With Hydra-Matic Transmission.

(x) Specification changes with use of optional Extra Horsepower Engine. See Page 2a for supplementary specifications.

Rev. 9-27-55, 11-18-55, 1-12-56

† w/3-spd Trans. (2 bbl carb.) - 192 at 4400
297 at 2400

216 at 4800

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The Following is an extrapolation of the hand written updates on page 1.

Standard Transmission Economy V-8: Overhead valves.
Displacement: 287.2 CID. Bore and stroke: 3.750" x 3.25".
Compression ratio: 7.4:1. Horsepower: 173 @ 4400.
Torque: 260 @ 2400 RPM. Hydraulic valve lifters.
Carburetors: Carter WGD two-barrel models 2182S,
2182SA, 2182SB, 2207S or 2207SB .

Star Chief and Safari Economy V-8 with Standard Transmission.
Overhead valves. Cast iron block. Displacement: 316.6 CID.
Bore and stroke: 3.9375" x 3.25". Compression ratio: 8.5:1.
Horsepower: 216 @ 4800. Torque: 315 @ 2800 RPM
Hydraulic valve lifters. Camshaft Duration: Intake 269°,
Exhaust 270°, Overlap 49°, Lift 0.370". Carburetor:
Carter four-barrel WCFB 2364S.

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ENGINE—GENERAL

Type	V, In-line, other	V
	Angle of V	90°
No. of cylinders		8
Valve arrangement		In Head
Bore and stroke		3.94 x 3.25
Piston displacement, cu. in.		316.6
Numbering system (front to rear)	L. Bank	1 - 3 - 5 - 7
	R. Bank	2 - 4 - 6 - 8
Firing order		1 - 8 - 4 - 3 - 6 - 5 - 7 - 2
Compression ratio	Standard Head Ratio	8.9:1 (x)
	Optional Head Ratio	7.9:1 (a)(x)
Cylinders	Head Material	Cast Iron
	Standard	None
	Optional	None
Sleeve—Wet, dry, other, none		None
Number of mounting points	Front	1
	Rear	2
Taxable horsepower	(Dia. ² x No. Cyl.) 2.5	49.6
Advertised max. brake horsepower at engine RPM*	Standard Head Ratio	205 @ 2600 (b) (x)
	Optional Head	-----
	With fuel (Octane and method)	94 Research (x)
	Ratio Standard Head	87 Research (x)
Max. torque (lb. ft. @ RPM)	Standard Head Ratio	294 @ 4600 (b) (x)
	Optional Head	-----
Recommended idle speed (neutral)		450 - 470 RPM at 150-160°F. (Except Air Cond.) (x)

ENGINE—PISTONS

Material	Aluminum Alloy		
Description and finish	Cam Ground Slipper Type With Steel Struts - Tin Plated		
Weight (piston only) oz.		23.15	
Clearance	Top land	.027 - .032	
	Skirt	Top	.0007 - .0035
		Bottom	.0007 - .0017
Ring groove depth	No. 1 ring	.211	
	No. 2 ring	.201	
	No. 3 ring	.184	
	No. 4 ring	None	

*Corrected as defined by SAE Engine Test Code, with the following standard power consuming accessories: Water Pump, Fuel Pump, Oil Pump, Generator and Manifolds, Manual Spark Advance and Manifold Heat Off.

- (a) Available on Synchronesh Transmission 860 and 870 model cars only.
- (b) Hydra-Matic Transmission Engine except Safari - With Safari, or Special Equipment Four-Barrel Carburetor, output is increased to 227 BHP @ 4800 RPM and 312 Lb. Ft. @ 3000 RPM.
- (c) Hydra-Matic Transmission Engine.
- (x) Specification changes with use of optional Extra Horsepower Engine. See Page 2a for supplementary specifications.

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MODEL 56-27 & 56-28

ENGINE - MISCELLANEOUS

*Not available
 Consider*

The specifications on this page cover the special items and output of the optional Extra Horsepower Pontiac engine. All other specifications for this engine are shown in the normal location in this Questionnaire, issued August 19, 1955 and revised January 12, 1956.

Compression Ratio		10:1
Maximum BHP at Engine RPM		285 @ 5100
Maximum Torque Lb. Ft. at RPM		330 @ 3600
Fuel Required		97 Research
Recommended Idle Speed (neutral)		650
Valve Timing:	Intake Opens °BTC	34
	Intake Closes °ABC	75
	Exhaust Opens °BBC	81
	Exhaust Closes °ATC	37
Intake Valve:	Overall Length	5.34
	Lift	.409 Max.
	Outer Spring Press. & Length - Valve Closed	59 @ 1.53
	- Valve Open	128 @ 1.13
	Inner Spring Press. & Length - Valve Closed	33 @ 1.48
	- Valve Open	95 @ 1.08
Exhaust Valve:	Overall Length	5.33
	Lift	.413 Max.
	Outer Spring Press. & Length - Valve Closed	59 @ 1.53
	- Valve Open	128 @ 1.13
	Inner Spring Press. & Length - Valve Closed	33 @ 1.48
	- Valve Open	95 @ 1.08
Carburetor:	Make	Rochester
	Model Number	7009820
	Number Used	Two
	Type	Downdraft 4 Bbl.
	Air Cleaner Type	Oil Bath
Upper Radiator Hose - Inside Diameter and Length		1.75 - 8.7
Engine Fan Drive Belt - Outside Length		57.5
Generator Drive Ratio (to Crankshaft)		1.97 to 1
Ignition Coil:	Model Number	1115091
	Amps. Engine Stopped	4
	Amps. Engine Idling	1.8
Distributor:	Model Number	1110875
	Centrifugal Advance - Start	800 RPM
	Centrifugal Advance - Max.	18° @ 4000
	Vacuum Advance - Start	None
	Vacuum Advance - Max.	None
Engine Timing: C/S Degrees @ RPM		5° BTC @ 650
Spark Plug: Make and Model		AC 44

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ENGINE—RINGS

Type (top to bottom)	No. 1 oil or comp.	Compression
	No. 2 oil or comp.	Compression
	No. 3 oil or comp.	Oil
	No. 4 oil or comp.	None
No. rings above piston pin		3
Compression	Material	Cast Iron
	Coating	#1 Thick Chrome #2 Lubrite
	Width	.078
	Gap	#1 .015 #2 .014
	Maximum wall thickness	#1 .182 #2 .197
Oil	Material	Spring Steel Segments
	Coating	Chrome
	Width	.180 - .186
	Gap	.015 - .035
	Maximum wall thickness	.139
Location of expanders		Oil Ring

ENGINE—PISTON PINS

Material		SAE 1117 Modified Steel
Length		3.126
Diameter		.9805
Type	Locked in rod, in piston, floating, etc.	Floating
	Bushing	In Rod
		Material
Clearance	In piston	0 To .0004
	In rod	.0001 To .0006
Direction offset in piston		To Right

ENGINE—CONNECTING RODS

Material		SAE 1335 Modified Steel
Weight (oz.)		29.76
Length (center to center)		6.625
Bearing	Material	Durex - Steel Backed
	Type (cast-in or removable)	Removable, Precision
	Effective length	.88
	Clearance	.0009 To .0029
	End play	.006 To .011 (Total For Two)

ENGINE—CRANKSHAFT

Material	SAE 1045 Drop Forged Steel or Cast Pearlitic Malleable Iron Optional
Weight (lb.)	Forged Shaft 59.4# , Cast Shaft 53.7#

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ENGINE—CRANKSHAFT (cont.)

Vibration damper type		Harmonic Balancer	
End thrust taken by bearing (No.)		4	
Crankshaft end play		.0035 To .0085	
Main bearing	Material	Durex - Steel Backed	
	Type (cast-in or removable)	Removable, Precision	
	Clearance	#1 .0005 to .0025, #2 - 4 .0005 to .003, #5 .0008 to .0033	
	Journal dia. and bearing effective length	No. 1	2.50 x .94
		No. 2	2.50 x .94
		No. 3	2.50 x .94
		No. 4	2.50 x .91
		No. 5	2.50 x 1.56
No. 6		None	
No. 7		None	
Direction offset from cyl. bore		None	
Connecting rod crankpin journal diameter		2.25	

ENGINE—CAMSHAFT

Material		Alloy Iron Hardened	
Bearings	Material	High Lead Babbitt on Steel	
	Number	5	
Type of drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	Carburized and Hardened Steel	
	Camshaft gear or sprocket material	Alloy Iron Cyanide Hardened	
	Timing chain	Make	Morse
		No. of links	60
		Width	1.00
Pitch		.38	

ENGINE—VALVE SYSTEM

Hydraulic lifters (yes, no)		Yes
Special provision for valve rotation (intake, exhaust)		No
Rocker ratio		1.5 To 1
Operating tappet clearance (indicate hot or cold)	Intake	0
	Exhaust	0
Tappet clearance for timing	Intake	End Of Ramps Used For Valve Timing
	Exhaust	End Of Ramps Used For Valve Timing
Timing marks on fly-wheel, damper, other		Harmonic Balancer Pulley

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MODEL	Conventional	Hydra-Matic
	Conventional	Hydra-Matic

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	22 (x)	27 (x)	22 (x)	27 (x)	
		Closes (°ABC)	67 (x)	73 (x)	67 (x)	73 (x)	
	Exhaust	Opens (°BBC)	63 (x)	69 (x)	63 (x)	69 (x)	
		Closes (°ATC)	27 (x)	31 (x)	27 (x)	31 (x)	
Intake	Material		SAE 8440 With Aluminum Treatment				
	Overall length		5.25 (x)				
	Actual overall head dia.		1.78				
	Angle of seat		30°				
	Seat insert material		None				
	Stem diameter		.34				
	Stem to guide clearance		.0002 To .0008				
	Lift		.37 (x)	.40 (x)	.37 (x)	.40 (x)	
	Outer spring press. and length	Valve closed (lb. @ in.)	58 @ 1.53 (x)	58 @ 1.53(x)	58 @ 1.53(x)	58 @ 1.53(x)	
		Valve open (lb. @ in.)	108 @ 1.16 (x)	112 @ 1.13(x)	108 @ 1.16(x)	112 @ 1.13(x)	
	Inner spring press. and length	Valve closed (lb. @ in.)	26 @ 1.48 (x)	26 @ 1.48(x)	26 @ 1.48 (x)	26 @ 1.48 (x)	
		Valve open (lb. @ in.)	61 @ 1.11 (x)	64 @ 1.08(x)	61 @ 1.11 (x)	64 @ 1.08 (x)	
	Exhaust	Material		Chrome Nickel Moly With Aluminum Treatment			
		Overall length		5.23 (x)			
Actual overall head dia.		1.50					
Angle of seat		45°					
Seat insert material		None					
Stem diameter		.34					
Stem to guide clearance		.0002 To .0008					
Lift		.37 (x)	.40 (x)	.37 (x)	.40 (x)		
Outer spring press. and length		Valve closed (lb. @ in.)	58 @ 1.53 (x)	58 @ 1.53(x)	58 @ 1.53(x)	58 @ 1.53(x)	
		Valve open (lb. @ in.)	108 @ 1.16 (x)	112 @ 1.13(x)	108 @ 1.16(x)	112 @ 1.13(x)	
Inner spring press. and length		Valve closed (lb. @ in.)	26 @ 1.48 (x)	26 @ 1.48(x)	26 @ 1.48(x)	26 @ 1.48(x)	
		Valve open (lb. @ in.)	61 @ 1.11 (x)	64 @ 1.08(x)	61 @ 1.11(x)	64 @ 1.08(x)	

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Metered Jet
	Cylinder walls	Metered Jet

(x) Specification changes with use of optional Extra Horsepower Engine. See Page 2a for supplementary specifications.

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ $\frac{rpm}{MPH}$)	35 to 45 Above 40
Oil pressure gage type (electric or mechanical)	Mechanical
Type oil intake (floating, stationary)	Floating
Oil filter type (full flow, partial flow)	Full Flow - Accessory
Capacity of crankcase, less filter—refill (qt.)	5
Oil grade recommended (SAE viscosity and temperature range)	20 - 32° F. to 110° F. 20W - 10° F. to 110° F. 10W - 10° F. Below Zero to 95° F. Above Zero 5W - 10° F. Below Zero and Colder
Oil type recommended	Petroleum Based Oil For Service MS or DG

ENGINE—FUEL SYSTEM

Recommended fuel	Standard head	Premium	
	Optional head	Regular	
Fuel Tank	Capacity (gals.)	20	
	Filler Location	Left Rear	
Fuel Filter	Type	Plastic Fabric	
	Location	In Fuel Tank	
Fuel pump	Type (elec. or mech.)	Mechanical	
	Location	Left Front of Engine	
	Pressure range	4 To 5 P. S. I.	
	Vacuum booster (std., optl., none)	Standard (Except on Cars With Accessory Electric Wiper)	
Carburetor	Make	Rochester (x) Rochester* (x)	
	Model number	7008696** (x) 7007900* (x)	
	Number used	One (x) One (x)	
	Type	Downdraft, side inlet, other	Downdraft
		Single or dual	Dual** (x) Four-Barrel (x)
	Intake manifold heat control (manual, auto., none)		Automatic
	Automatic choke type (integral, other)		Integral
	Air cleaner type	Standard	Dry (x)
Optional		Oil Bath (x)	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single With Cross-over - Dual Optional	
Muffler type (rev. flow, str. thru, sep.resonator)	Reverse Flow	
Exhaust pipe dia.	Branch	2.00
	Main	2.25 Std. or 2.00 With Dual Option
Tail pipe diameter	2.00 Std. or 1.75 With Dual Option	

*Rochester 7008697 model or Carter WCFB-2364-S used with optional HM Trans.

**Rochester 7008695 model used with optional Hydra-Matic trans. except Safari - the Safari, and an 860 or 870 56-27 model with the four-barrel carburetor option, uses the 56-28 model carburetor.

(x)Specification changes with use of optional Extra Horsepower Engine. See Page 2a for supplementary specifications.

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ENGINE-COOLING SYSTEM

Type (pressure system, atmospheric, other)		Pressure - Vent	
Radiator cap relief valve press.		6-1/4 To 7-1/2 psi	
Circulation thermostat	Type (choke, bypass)	By-Pass	
	Starts to open at	160° F.	
Water pump	Type (centrifugal, other)	Centrifugal	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
	Bearing type	Sealed Ball Bearing	
By-pass recirculation type (internal, external)		Internal	
Radiator core type (cellular, tube and fin)		Cellular	
Cooling system capacity	With heater (qt.)	24.3	
	Without heater (qt.)	22.7	
Water jackets full length of cylinder (yes, no)		Yes	
Water all around cylinder (yes, no)		Yes	
Radiator hose	Lower	Number and type (molded, straight)	One - Molded
		Inside diameter and length	2.00 - 10.6
	Upper	Number and type (molded, straight)	One - Molded
		Inside diameter and length	1.75 - 12.8 (x)
	By-pass	Number and type (molded, straight)	None (a)
		Inside diameter and length	None
Drive belts	Fan	Number used	One
		Angle of V	36°
		Outside length	50.8 (x)
		Width	.38
	Generator	Angle of V	Same Belt Drives Fan and Generator
		Outside length	See Fan Belt
		Width	See Fan Belt
Fan	Number of blades and spacing	Four - 76° and 104°	
	Diameter	19	
	Ratio—fan to crankshaft revolutions	.88 To 1	
	Bearing type	See Water Pump	

(a) Water Pump to Cylinder Head Hose	Number And Type	Two - Straight
	Inside Diameter And Length	1.50 - 3.44

(x) Specification changes with use of optional Extra Horsepower Engine. See Page 2a for supplementary specifications.

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco - 1890587	
	Voltage Rtg. & Plates/cell	12 Volt - 9 Plate	
	SAE Designation & Amp Hr. Rtg	None - 53 AMP. Hrs. (20 Hr. Rate)	
	Location	Underhood - Left Side	
	Terminal grounded	Negative	
Generator	Make	Delco-Remy	
	Model	1100304	
	Type	Shunt Wound	
	Ratio—Gen. to Cr/s rev.	2.47 To 1 (x)	
Regulator	Make	Delco-Remy	
	Model	1119000	
	Type	Voltage and Current Regulator	
	Cutout relay	Closing voltage @ generator rpm	11.8 - 13.6 Volts
		Reverse current to open	Not Specified
	Regu-lated	Voltage	14.3 Volts
		Current	25.0 Amps.
	Min. Gen. rpm required	2850	
	Voltage test con-ditions	Temperature	Hot (Regulator Temp. Approx. 125° F.)
		Load	Ignition and Instrument Load Only
Other		1/4 Ohm Fixed Resistance Method	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco-Remy	
	Model	1107641	
	Rotation (drive end view)	Clockwise	
	Engine cranking speed	138 RPM	
	Test conditions	Room Temperature	
	Lock test	Amps	440
		Volts	5.4
		Torque (lb. ft.)	12.5
	No load test	Amps	85
		Volts	10.2
RPM (min.)		3500	
Motor control	Switch (solenoid, manual)	Solenoid	
	Starting procedure	Place Gearshift Lever In Neutral* Position. Open The Throttle About Half Way. Turn Ignition Key To Right To Engage Starter. Release Key When Engine Starts.	

*"N" or "P" Positions With Hydra-Matic.

(x) Specification changes with use of optional Extra Horsepower Engine. See Page 2a for supplementary specifications.

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor drive	Engagement type		Sliding Gear, Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	176
Flywheel tooth face width		.50 (a)	

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy	
	Model		1115085 (x)	
	Amps	Engine stopped	3.5 @ 12 Volts (Points Closed) (x)	
Engine idling		1.2 @ 12 Volts (x)		
Distributor	Make		Delco-Remy	
	Model		1110862 (x)	
	Spark advance data (at distributor shaft)	Centr. advance start (rpm)	400	(x)
		Centr. advance max. deg. @ rpm	10 @ 3600	(x)
		Vacuum advance start (in. Hg.)	4.0 To 6.0	(x)
		Vac. adv. (max. deg. @ in. Hg.)	8 @ 13.5 Hg.	(x)
	Breaker gap (in.)		.016"	
	Cam angle (deg.)		26° - 33°	
Breaker arm tension (oz.)		19 - 23 Oz.		
Timing	C/S deg. @ rpm		5 BUDC At Hot Idle	
	Mark location		Harmonic Balancer Pulley	
	Cylinder numbering system (see page 2)		L. Bank 1 - 3 - 5 - 7 (Front To Rear) R. Bank 2 - 4 - 6 - 8	
	Firing order (see page 2)		1 - 8 - 4 - 3 - 6 - 5 - 7 - 2	
Spark plug	Make and model		AC 46 (x)	
	Thread (mm)		14 MM	
	Tightening torque (lb. ft.)		20 To 30	
	Gap		.033 To .038	
Cable	Conductor type		Carbonized Thread	
	Insulation type		Neoprene	
	Spark plug protector		Butyl Rubber Boot	

ELECTRICAL—SUPPRESSION

Description	Carbonized Cotton Core Secondary Cables, Engine To Dash Ground, Wheel Static Collectors (Front and Rear Wheels), Generator Condenser, and Voltage Regulator Condenser.
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(a) Width is .45 or .36 with Optional Hydra-Matic Transmissions.

(x) Specification changes with use of optional Extra Horsepower Engine - See Page 2a for supplementary specifications.

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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make <u>AC</u> Trip odometer (yes, no) <u>No</u>	
Charge Indicator—type		<u>Ammeter</u>
Temperature Indicator—type		<u>Bourdon Tube</u>
Oil pressure Indicator—type		<u>Bourdon Tube</u>
Fuel Indicator—type		<u>Electric</u>
Ignition switch	Identify positions in order and circuits controlled	Off Position - Vertical - Key Removable In This Position Only. On Position - 40° Clockwise From Vertical - Ignition and Accessory Circuits. Start Position - 70° Clockwise From Vertical - Ignition and Starter Circuits - No Accessories.
	Provision for illumination	<u>Yes - Bulb At Switch</u>
	Location	<u>Left Center Of Instrument Panel</u>
	Theft protection type	<u>None</u>
Main lighting switch	Identify positions and lights controlled	Forward Position - Off. 1st Position - Instrument Lights, Parking Lights, Tail Lights and License Light. 2nd Position - Instrument Lights, Head Lights, Tail Lights and License Lights. Clockwise Rotation Dims Instrument Lights to "Off".
Other light switches	Locations and lamps controlled	Accessories - See Footnotes. Dimmer Switch - On Floor Left Of Steering Column. Dome Light Switch - At Dome Light and on Door Frames - Both Front On 27 Model and All Doors on 28 Model. Direction Indicator - In Housing Below Steering Wheel Hub. Stop Light Switch - Adjacent To Brake Pedal.
Other switches	Locations and devices controlled	Radio - At Center of Instrument Panel. Antenna Motor - Instrument Panel Lower Edge Left of Center. Heater - Instrument Panel Above Steering Column. Rear Seat Speaker - On Radio Control Panel (See Radio). Air Conditioning - Above Radio Control Panel. Power Seat - On Seat Frame at Left Hand End.
Windshield wiper	Make	<u>Trico*</u>
	Type	<u>Vacuum*</u>
	Vacuum booster provision	<u>Yes*</u>
	Washer provision	<u>Yes</u>
Horn	Type	<u>Vibrator</u>
	Number used	<u>Two - Third Horn Available as Accessory</u>
	Amp draw (each)	<u>Low Note 10-12 Amps. @ 13 V. ; High Note 9-11 Amps. @ 13 V.</u>

Accessory Light Switches:

- Back-up Light - On Lower End of Steering Column, For Hydra-Matic Cars Switch is Combined With Neutral Safety Switch.
- Underhood Light - Mercury Switch in Bulb Socket of Lamp Assembly.
- Spot Light - Built Into Control Handle of Spot Light.
- Hand Brake Signal - On Bracket at Lower Left Front Corner of Dash.
- Glove Compartment Light - Upper Left Hand Corner of Compartment.
- Ash Tray Light - Controlled by Main Light Switch.
- Courtesy Light - Lower Edge of Instrument Panel on Right of Steering Column.
- Trunk Compartment and Utility Light - Mercury Switch on Lamp Bracket.

*Except With Accessory Electric Wiper (Made by Delco Appliance Div. of G. M.).

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ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-4030.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamp	2	50-40 W. Sealed Beam	Underhood Light	1	#93*
Headlamp beam indicator	1	#53	Hood Ornament	1	#53*
Parking light	2	#1034	Ash Tray Light	1	#53*
Tail light	2	#1034	Air Cond. Panel	1	#57*
Stop light		Same As Tail Light	Hand Brake Signal	1	#57*
Direction indicator	Front	Same As Parking Light	Hydramatic Indicator	1	#57*
	Rear	Uses Tail & Stop Light Bulbs	Compass Light	1	#53*
	Tell-Tale	2	#57	Radio "On" Indicator	1
License plate light	1	#67			
Instrument light	6	#57			
Ignition lock light	1	#53			
Map light		None			
Dome light	1	#1004 - Except Custom Cars Which Use #90 (1) on Safari, (2) on			
Clock light	2	#57**	Catalinas		
Radio dial light	2	#57*			
Glove compartment light	1	#57*			
Courtesy light	2	#89 (Accessory on all 860 Models and 870 Station Wagon & 4 Dr.			
Trunk compartment light	1	#1003*	Sedan)		
Other Heater Panel	2	#57*			
Back-up Light	2	1073*			
Spot Light	1	30 W* Sealed Beam			

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking light: SFE-10 (a), Direction Indicator: same as (a).

Headlamp	22 C.B.	(a)	Air Cond. Panel Light	Same as (e)
Headlamp beam indicator	Same as	(a)	Compass Light	Same as (e)
Parking light	Same as	(a)	Ash Tray Light	7.5 Fuse (h)
Tail light	7.5 Fuse	(b)	Hood Ornament Light	Same as (h)
Stop light	7.5 Fuse	(c)	Back-up Lights	7.5 Fuse (i)
Direction indicator	7.5 Fuse	(d)	Hand Brake Light	Same as (d)
License plate light	Same as	(b)	Heater Panel Light	Same as (e)
Instrument light	SFE 4	(e)	Hydramatic Indicator	Same as (e)
Ignition light	Same as	(e)	Underhood Light	Same as (g)
Map light	None		Heater Motor	7.5 Fuse (j)
Dome light	Same as	(c)	Air Conditioning Power	AGC 30 (k)
Clock	7.5 Fuse	(f)	Air Cond. Relay Switch	Same as (i)
Clock light	Same as	(e)	Power Antenna	SFE 14 (l)
Radio	Same as	(f)	Power Window Regulator	40 C.B. (m)
Glove compartment light	7.5 Fuse	(g)	Power Seat	Same as (m)
Courtesy light	Same as	(c)	Clock (From one Source)	AGA 1.5 (n)%
Trunk compartment light	Same as	(c)	Spot Light	7.5 Fuse (o)
Other			Rear Window Defroster	Same as (j)
Radio Dial Light	Same as	(e)	Cigar Lighter	Note #
Radio "On" Ind.	Same as	(f)	Electric Windshield Wiper	AGC 30 (p)¢

*Accessory.

**Accessory on 860 and 870 model cars - Standard on all others.

%Clocks made by New Haven are fed through (f) and (n) which is on clock.

#Optional Lighters - one uses attached fuse, the other has integral C.B.

¢Motor has integral 18 amp. C.B.

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DRIVE UNITS—CLUTCH (PEDAL OPERATED)

Make		Inland With Long Driven Member	
Type (dry or wet plate)		Dry	
In combination with fluid coupling (yes, no)		No	
Semi-centrifugal (yes, no)		No	
Type pressure plate springs		Diaphragm Spring	
Total plate pressure (lb.)		1613	
No. of clutch driven discs		One	
Clutch facing	Material	Woven Molded Asbestos	
	Inside diameter	6.75	
	Outside diameter	10.00	
	Total eff. area (sq. in.)	85.78	
	Thickness	.125	
	Number required	Two	
	Engagement cushioning method		Spring Action Of Offset Driven Plate Spokes
	Release bearing	Type	Ball Thrust
		Method of lubrication	Sealed
	Torsional damping	Method (springs, other)	Coil Springs And Friction
Frict. mat.		Steel On Steel	

DRIVE UNITS—TRANSMISSIONS

Conventional (std. or opt.)	Standard
Conventional with overdrive (std. or opt.)	None
Automatic (std. or opt.)	Optional

DRIVE UNITS—CONVENTIONAL TRANSMISSION

Number of forward speeds		Three
Transmission ratios	In first	2.39:1
	In second	1.53:1
	In third	Direct
	In fourth	None
	In reverse	2.53:1
Constant mesh gears in 2nd (yes, no)		Yes
Spur gear used in (indicate speeds)		None
Helical gears used in (indicate speeds)		All
Synchronous meshing in 2nd and 3rd gears (yes, no)		Yes

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DRIVE UNITS—CONVENTIONAL TRANSMISSION (cont.)

Lubricant	Capacity (pt.)		2.5
	Type recommended		Extreme Pressure
	SAE viscosity number	Summer	EP 80 or 90
		Winter	EP 80 or 90
Extreme cold		EP 80 or 90	

DRIVE UNITS—CONVENTIONAL TRANSMISSION WITH OVERDRIVE

For transmission data see conventional transmission section

Overdrive	Type (planetary or other)		None	
	If planetary, No. of pinions		None	
	Manual lockout (yes, no)		None	
	Downshift accelerator control (yes, no)		None	
	Minimum cut-in speed		None	
	Gear ratio		None	
	Lubricant	Capacity (O.D. only)		None
		Separate filter (yes, no)		None
		Type recommended		None
		SAE viscosity number	Summer	None
Winter			None	
Ext. cold		None		

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Hydra-Matic*	Hydra-Matic
Type (fluid coupling with gears, torque convertor with gears, other)	Fluid Coupling With Gears	
Manual selector positions, left to right (show symbols and define, e.g., N- Neutral)	N-Neutral ▲DR-Country Drive Range DR▲-City Drive Range LO-Low Range R-Reverse	P-Park N-Neutral ▲DR-Country Drive Range DR▲-City Drive Range LO-Low Range R-Reverse
List gear ratios in each drive position (range)	1st - 4.10:1 2nd - 2.63:1 3rd - 1.56:1 4th - 1.00:1 R - 4.62:1	1st - 3.97:1 2nd - 2.55:1 3rd - 1.55:1 4th - 1.00:1 R - 4.31:1
Shifting within drive position range by accelerator control and speed limiting governor (yes, no)	Yes	
By governor—forced shift (yes, no)	Yes	
Downshift of gears in high range possible up to (mph)	65 M. P. H.	70 M. P. H.

*Hydra-Matic for 56-28 model car is used on 56-27 model at Manufacturer's option.

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DRIVE UNITS—AUTOMATIC TRANSMISSION (cont.)

Torque convertor	Number of elements		None
	Max. ratio at stall at engine rpm		None
	Mechanical lockup	Provided (yes, no)	None
		Speed range	None
		Releases at (speed range, mph)	None
	Type of cooling (forced air, oil cooler and type, other)		None
Anti-creep device (yes, no)		None	
Lubricant	Capacity—refill (pt.)		19.0 18.7
	Type recommended		G. M. Hydra-Matic Drive Fluid
	Grade	Summer	Automatic Transmission Fluid (AQ-ATF) Type A
		Winter	Automatic Transmission Fluid (AQ-ATF) Type A
Extreme cold		Automatic Transmission Fluid (AQ-ATF) Type A	

DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (exposed, torque tube)		Exposed
Outer diameter x length* x wall thickness	Conventional trans.	3 x 60.58 x .065 3 x 62.58 x .065
	Overdrive trans.	None
	Automatic trans.	3 x 60.58 x .065 3 x 62.58 x .065
Intermediate bearing	Type (plain, anti-friction)	None
	Lubri. (fitting, prepack)	None
Universal joints	Make	Saginaw
	Number used	Two
	Type (ball and trunion, cross, other)	Cross
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Prepacked
Drive taken through (torque tube or arms, spring)		Springs
Torque taken through (torque tube or arms, springs)		Springs

*Centerline to centerline of joints or centerline of rear attachment point.

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DRIVE UNITS—REAR AXLE

Type (semi-floating, other)		Semi-Floating		
Gear type (hypoid, other)		Hypoid		
Gear ratio and No. of teeth	Conventional trans.	3.64:1 40:11		
	Overdrive trans.	None		
	Automatic trans.	3.08:1 40:13	3.23:1 42:13	
Pinion adjustment (shim, other)		Shim		
Pinion bearing adj. (shim, other)		Collapsible Spacer		
Lubricant	Capacity (pt.)	3.25		
	Type recommended	Hypoid Gear Lubricant		
	SAE viscosity number	Summer	90	
		Winter	90	
Extreme cold		90		

DRIVE UNITS—WHEELS

Type (disc, other)		Steel Disc	
Rim (size and flange type)		15 x 5-1/2 K	
Attachment	Type (bolt or stud)	Bolt	
	Circle diameter	5	
	Number and size	5 - 1/2-20	

DRIVE UNITS—TIRES

Size and ply rating	Standard	7.10 x 15 - 4 Ply* (Tubeless)	
	Optional	7.60 x 15 - 4 Ply (Tubeless)	
Rev/mile at 30 mph 50 MPH		734 With 7.10 Tires - 722 With 7.60 Tires	
Inflation press. (cold)	Front	24# For 7.10 - 22# For 7.60	
	Rear	24# For 7.10 - 20# For 7.60	

BRAKES—SERVICE

Type		Hydraulic, Internal Expanding, 2 Shoe, Single Anchor	
Booster type		Vacuum - Optional	
Effective area (sq. in.)		178	
Percent brake effectiveness—rear		43.7	
Drum	Diameter	Front	12
		Rear	11
	Type and material		Steel Backed Centrifugally Cast Alloy Iron

* 6 Ply Rating Optional.

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BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted		Riveted		
	Primary	Material		Molded Asbestos	
		Size (length x width x thickness)	Front wheel	10.05 x 2.25 x .20	
			Rear wheel	9.29 x 1.75 x .20	
		Segments per shoe		One	
	Secondary	Material		Molded Asbestos	
		Size (length width x thickness)	Front wheel	12.92 x 2.25 x .20	
			Rear wheel	11.93 x 1.75 x .20	
		Segments per shoe		One	
	Wheel cylinder bore	Front	1.06		
Rear		.94			
Master cylinder bore		1.00			
Available pedal travel		5.94			
Line pressure at 100 lb. pedal load		760 P. S. I.			
Shoe clearance adjustment		.015			

BRAKES—PARKING

Type of control		T-Handle
Location of control		Left of Steering Column
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	Not Separate
	Drum diameter	Not Separate
	Lining size (length x width x thickness)	Not Separate

FRAME

Type and description	Riveted and Welded Channel Section Side Rails and Crossmembers With I-Beam "X" Members
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FRONT SUSPENSION

Type and description	Independent, Lateral Control With Coil Springs
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FRONT SUSPENSION (cont.)

Spring	Type	Coil	
	Material	Spring Steel (SAE 9260)	
	Size (length x width x No. leaves or coil I.D.)	3.69	
	Spring rate (lb. per in.)	290 (a)	
	Rate at wheel (lb. per in.)	81 (b)	
	Normal load (lb. @ rated length)	2050 - 2120 @ 10" (c)	
Shock absorbers	Manufacturer	Delco	
	Type (direct or lever)	Direct	
	Piston diameter	1"	
Stabilizer	Type (link, linkless, frameless)	Link	
	Material	Steel - SAE 1065 or 1070	

STEERING

Type used (Standard or optional)		Mechanical	Standard		
		Power	Optional		
Wheel diameter		18			
Turning diameter	Outside front	Wall to wall (r. & l.)	44' 11"	45' 5"	
		Curb to curb (r. & l.)	42' 5"	42' 11"	
	Inside rear	Wall to wall (r. & l.)	25' 4"	25' 6"	
		Curb to curb (r. & l.)	26' 0"	26' 2"	
Inside wheel angle with outside wheel at 20°		22.5°			
Mechanical	Gear	Type	Recirculating Ball Bearing		
		Make	Saginaw		
		Ratios	Gear	20:1	
			Overall	25:1	
	No. wheel turns	5.06			
Power	Type	Hydraulic			
	Make	Saginaw			
	Trade name	Power Steering			
	Gear	Type	Recirculating Ball Bearing		
		Ratios	Gear	17.5:1	
			Overall	22.5:1	
	Pump driven by	Belt From Crankshaft Pulley			
	Overall torque ratio	Variable			
	Number wheel turns	4.25			
	Linkage	Type	Link - Parallelogram		
Location (front or rear of wheels)		Rear			
Drag link (trans. or long)		None			
Tie rods (one or two)		Two			

(a) 325 With Hydra-Matic Transmission Option.

(b) 90 With Hydra-Matic Transmission Option.

(c) 2150-2220 @ 10" With Hydra-Matic Transmission Option.

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STEERING (cont.)

Kingpin	Inclination at camber (deg.)		1° 20' @ 0° Camber
	Diameter		.862
	Bearings (type)	Upper	Bronze Bushing
		Lower	Bronze Bushing
		Thrust	Ball
Wheel alignment (range and preferred)	Caster (deg.)		1° Negative ± 1/2°
	Camber (deg.)		1/2° Positive ± 1/2°
	Toe-in (outside tread-inches)		0 To .062 Toe-in Measured 9 In. Above Floor
Steering knuckle type			Reverse Elliott
Wheel spindle	Diameter	Inner bearing	1.374
		Outer bearing	.749
	Thread size		3/4 - 20
	Bearing type		Ball

REAR SUSPENSION

Type			Longitudinal Leaf			
Drive and torq. taken through (see page 14)			Rear Springs			
Spring	Type		Semi-Elliptic			
	Material		Steel - SAE 5155, 5160 or 9255			
	Size (length x width x No. leaves or coil I.D.)		58 x 2 x 5	60 x 2 x 6		
	Spring rate (lb. per in.)		108	120		
	Rate at wheel (lb. per in.)		N. A.	N. A.		
	Normal load (lb. at rated length)		850 Right 900 Left	900 Right 950 Left		
	Mounting insulation type			Rubber Bushings		
	If leaf	No. of leaves		5	6	
		Covers (yes, no)		No		
		Lubricated (yes, no)		No		
		Inserts	Type and size		Full Length	
			Material		Wax Impregnated Material	
Shackle (comp. or tens.)			Compression			
Shock absorbers	Manufacturer		Delco			
	Type (direct or lever)		Direct			
	Piston diameter		1 In.			
Stabilizer	Type (link, linkless, frameless)		None			
	Material		None			
Track bar type			None			

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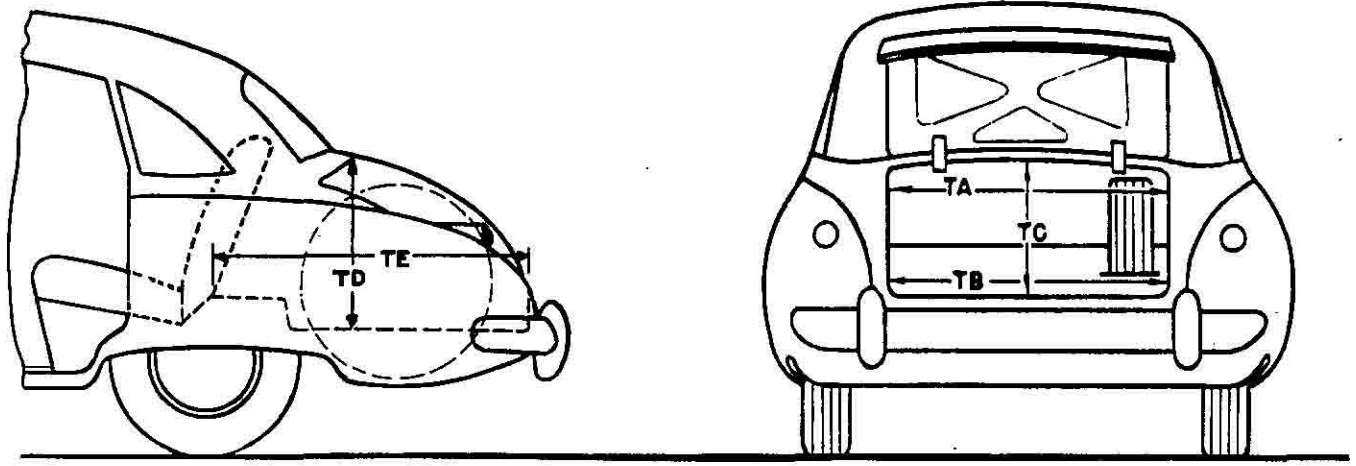
BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been proposed for adoption by the SAE. These are indicated by a number following the type of dimension, e.g., L 3. Additional dimensions have been added by the AMA Specifications Body Sub-Committee for inclusion in the Questionnaire. These are shown by an additional letter, e.g., HA. The dimensions are developed from the following basic points:

1. Front and rear seat "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
2. Front seat is in the rear position.
3. Loaded position—5 passengers, front 300 lb., rear 450 lb., includes spare wheel, tire and tools, and full complement of gas, oil, water, etc. and tires to recommended pressure, etc.
4. C. L. (centerline).
5. D. L. O. (daylight opening, exposed glass dimension).
6. Ramp breakover angle (page 20-A) is the supplement of the included ramp angle (180° minus the included ramp angle) over which a car can pass without hanging up.

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BODY—TRUNK OPENING DIMENSIONS



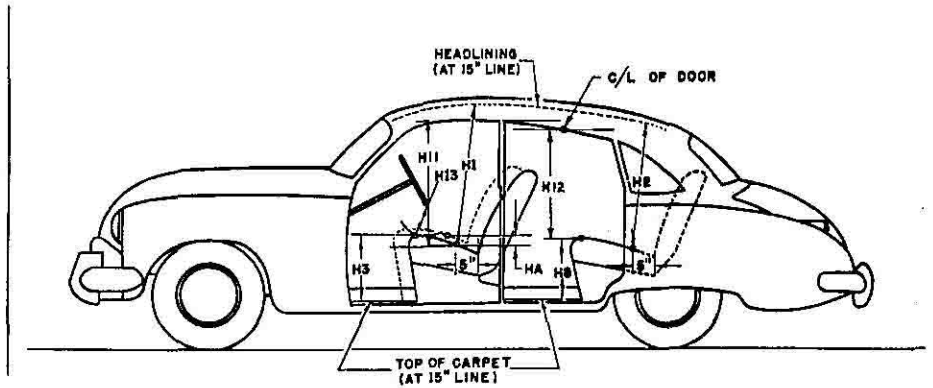
TA—Width across the top	50.0	49.9
TB—Width across the bottom	49.3	49.7
TC—Diagonal dimension at CL from top of opening to bottom	32.3	38.2
TD—Vertical height of opening (floor to top, inside edge of opening)	21.9	21.9
TE—Max. horizontal depth (forward from vertical projection of inside edge of opening)	48.4	55.4
Position of spare tire stowage	Right Side - Vertical	
Method of holding lid open	Torsion Bar Counterbalance	

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BODY—HEIGHT DIMENSIONS—INTERIOR



H1. Front headroom—from "A" pt. to headlining at 8° back of vertical on 15" line. (For "A" pt. see note 1, page 19)	36.0
H2. Rear headroom—from "A" pt. to headlining at 8° back of vertical on 15" line.	35.9
H3. Front seat height to floor carpet on 15" line (front edge of cushion).	13.7
H8. Rear seat height to floor carpet on 15" line (front edge of cushion).	12.2
H11. Entrance—front—cushion "A" point to bottom windcord vertical.	29.4
H12. Entrance—rear—top of cushion to bottom windcord vertical at C/L of rear door.	28.1
H13. Steering wheel clearance to seat cushion taken on arc.	5.1
HA. Front seat vertical rise at "A" pt. (inches.)	0.5

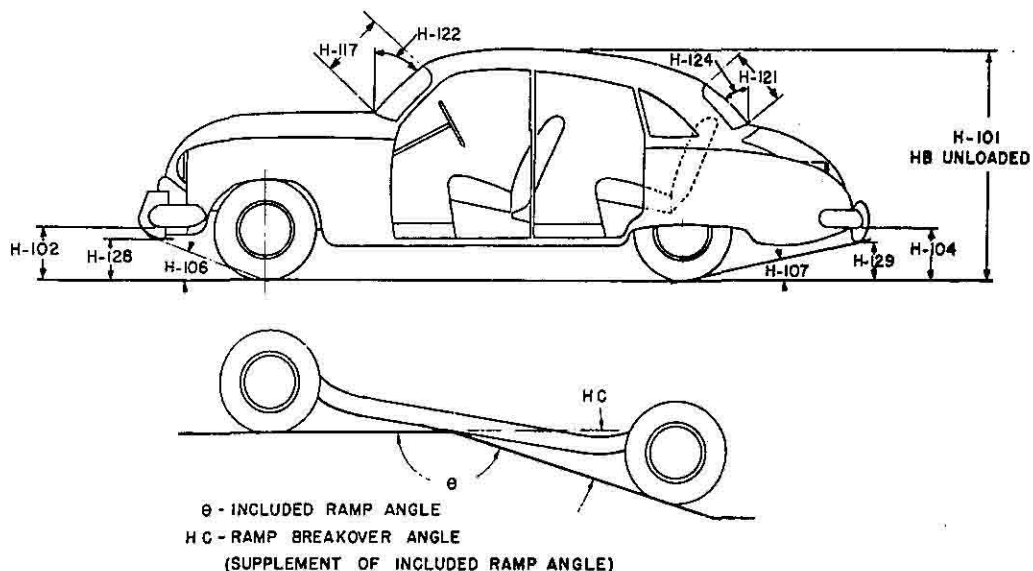
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BODY—HEIGHT DIMENSIONS—EXTERIOR



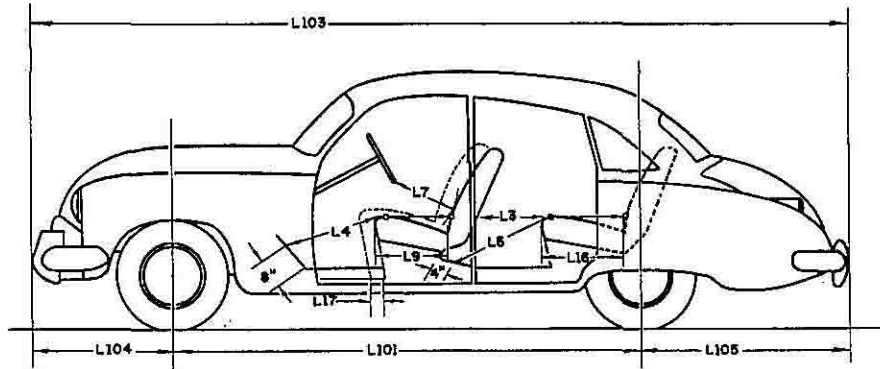
H101. Overall height.	60.5	
HB. Overall height—unloaded.	62.5	
H102. Front bumper bottom to ground at normal section.	10.6	
H104. Rear bumper bottom to ground at normal section.	11.4	
H106. Angle of approach—from the tire rolling radius to lowest point on front bumper or guard.	24° 30'	24° 30'
H107. Angle of departure—from the tire rolling radius to lowest point on rear bumper or guard.	15° 10'	13° 36'
HC. Ramp breakover angle.*	12° 42'	12° 28'
H117. Windshield DLO-slant height.	17.7	
H121. Backlight DLO*—Max., slant height.	18.3	
H122. Windshield slope angle to vertical line on car axis.	41° 55'	
H124. Backlight slope angle to vertical line on car axis.	46° 50'	
H128. Ground to bottom of front bumper guard. (Accessory)	10.5	
H129. Ground to bottom of rear bumper guard.	None	
HD. Min. road clearance (location and dimension).	6.70 At Bottom Of Frame Side Rails	
HE. Min. road clearance at rear axle.	7.68	

*See Notes, page 19.

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BODY—LENGTH DIMENSIONS



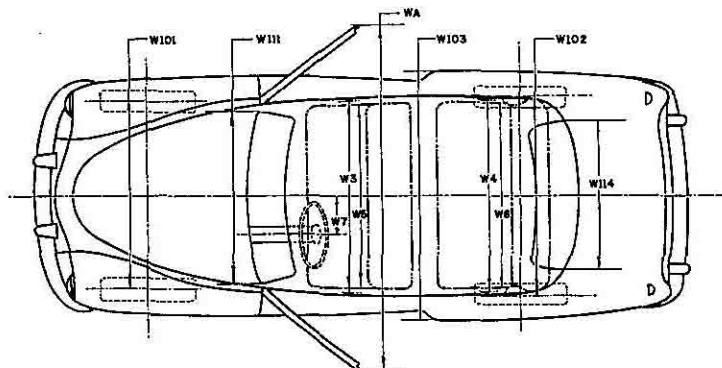
Interior	L3. Rear compartment back of front seat back to rear seat back.	31.8	
	L4. Leg room—front—diagonal—ball of foot to top of seat to front seat back—15" line.	43.4	
	L5. Leg room—rear—diagonal—from ball of foot to top of rear seat cushion and to seat back.	42.0	
	L7. Steering wheel clearance to seat back taken on arc.	14.1	
	L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).	18.6	
	L16. Depth of rear seat (front edge to seat back).	18.9	
	L17. Total adjustment of front seat at floor.	4.4	
Exterior	L101. Wheel base.	122.0	124.0
	L103. Overall length (bumper to bumper inc. guards).	205.6	212.6
	L104. Overhang—front including bumper guards.	35.1	35.1
	L105. Overhang—rear including bumper guards.	48.5	53.5

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BODY—WIDTH DIMENSIONS



Interior	W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	56.7
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	56.4
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	61.9
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	63.1
	W7. Steering wheel center to center of body.	15.7
Exterior	W101. Front tread at ground.	58.66
	W102. Rear tread at ground.	59.05
	W103. Max. overall width of car including bumpers or mouldings.	75.1
	WA. Max. overall width of car with doors open.	143.2
	W111. Windshield DLO, max. width.	59.4
	W114. Back window DLO, max. width.	58.6

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BODY—MISCELLANEOUS INFORMATION

Doors hinged (front, rear)	Front	Front
	Rear	Front
Type of finish (lacquer, enamel)		Lacquer
Hood opening (front, side; semi-full, full, half)		Front
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vent window control method (crank, friction, pivot)		Crank
Windshield (one piece, two piece; curved, flat)		One Piece - Curved
Rear window type (one piece, two piece, three piece; curved, flat)		One Piece - Curved
Windshield glass area - Visibility		1018.5
Backlight glass area - Visibility		1067.2
Total glass area - Visibility		3515.1

BODY—TYPES AND STYLE NAMES

Body type, number of passengers, and style names (use letter code shown below followed by passenger capacity and style name e.g., N-6 Ranchwagon)	D-6 2 Dr. Sedan	H-6 4 Dr. Sedan
	H-6 4 Dr. Sedan	J-6 2 Dr. Catalina
	J-6 2 Dr. Catalina	K-6 4 Dr. Catalina
	K-6 4 Dr. Catalina	L-5 Convertible Coupe
	N-6 2 Dr. Station Wagon	
	N-6 Safari	
	P-9 4 Dr. Station Wagon	
	P-6 4 Dr. Station Wagon	

Body type code

- A—Coupe—2 door flatback
- B—Coupe—2 door notchback
- C—Sedan—2 door flatback
- D—Sedan—2 door notchback
- E—Sedan—4 door flatback (4 windows)
- F—Sedan—4 door flatback (6 windows)
- G—Sedan—4 door notchback (4 windows)
- H—Sedan—4 door notchback (6 windows)
- J—Hardtop—2 door
- K—Hardtop—4 door

- L—Convertible—2 door
- M—Convertible—4 door
- N—Station wagon—2 door
- P—Station wagon—4 door
- Q—Combined passenger and utility—2 door
- R—Combined passenger and utility—4 door
- S—Sedan delivery
- T—Limousine

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