

# AUTOMOBILE MANUFACTURERS ASSOCIATION CONSOLIDATED SPECIFICATION QUESTIONNAIRE

<b>MAKE OF CAR:</b> BUICK	<b>MODEL NAME</b>	<b>SYMBOL</b>
<b>COMPANY:</b> BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION FLINT, MICHIGAN	Special	Series 40
	Century	Series 60
	Super	Series 50
	Roadmaster	Series 70
<b>MODEL YEAR:</b> 1954	<b>DATE</b> January 6, 1954	

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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	Series 40	Series 60	Series 50	Series 70	
Wheelbase	122		127		
Tread	Front		59		
	Rear		62.2		
Maximum Overall Dimensions	Length (L-103)		216.8		
	Width (W-103)		79.9		
	Height (H-101)		62.4	62.6	
Steering ratio—overall	26.7:1		24.1:1		
Turning diameter (curb to curb)	42.8 Right - 42.9 Left		43.0 Right - 43.0 Left		
Shipping weight*	**3714	**3786	4105	4250	
Transmission— (Specify standard, optional, not avail.)	Conventional		Standard		
	Overdrive		None		
	Automatic		Optional	Standard	
Axle ratio	Conventional		3.9		
	Overdrive		None		
	Automatic		3.6	3.4	
Tire size	7.60-15 4 Ply		8.00-15 4 Ply		
Engine	Type		90°V		
	No. of cylinders		8		
	Valve arrangement		In-Head		
	Bore and stroke		4.00 x 3.20		
	Piston displacement, cu. in.		322.0		
	Standard compression ratio		7.2	8.0	8.5
	Maximum bhp at engine rpm		143 @ 4200	177 @ 4100	200 @ 4100
	Maximum torque at rpm		228 @ 2400	295 @ 2000	309 @ 2400

\*Standard car weight, not including gas and water.

\*\* Estimated

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<b>MAKE OF CAR</b>	BUICK	<b>MODEL YEAR</b>	1954	
<b>MODEL</b>	Series 40	Series 60	Series 50	Series 70

## ENGINE—GENERAL

<b>Type</b>	V, In-line, other Angle of V	V 90°			
<b>No. of cylinders</b>		8			
<b>Valve arrangement</b>		In-Head			
<b>Bore and stroke</b>		3.625 x 3.20	4.00 x 3.20		
<b>Piston displacement, cu. in.</b>		264.0	322.0		
<b>Numbering system (front to rear)</b>	L. Bank	2-4-6-8			
	R. Bank	1-3-5-7			
<b>Firing order</b>		1-2-7-8-4-5-6-3			
<b>Compression ratio</b>	Standard Head	7.2	8.0	8.5	
	Optional Head **	8.1	8.5	None	
<b>Cylinders</b>	Head Material	Cast Iron			
	Standard Optional	None			
	Sleeve—Wet, dry, other, none	None			
<b>Number of mounting points</b>	Front	Two			
	Rear	One			
<b>Taxable horsepower</b>	(Dia. <sup>3</sup> x No. Cyl.) 2.5	42.05	51.20		
<b>Advertised max. brake horsepower at engine RPM*</b>	Standard head	143 @ 4200	195 @ 4100	177 @ 4100	200 @ 4100
	Optional head **	150 @ 4200	200 @ 4100	182 @ 4100	None
	With fuel (Octane and method)	Standard Head	Regular		
		Optional Head	Premium		
<b>Max. torque (lb. ft. @ RPM)</b>	Standard head	228 @ 2400	302 @ 2400	295 @ 2000	309 @ 2400
	Optional head	240 @ 2400	309 @ 2400	300 @ 2000	None
<b>Recommended idle speed (neutral)</b>		450 R.P.M.			

## ENGINE—PISTONS

<b>Material</b>	Aluminum Alloy			
<b>Description and finish</b>	Cam Ground - Transverse Slot Anodized			
<b>Weight (piston only) oz. ***</b>	16.25	19.95		
<b>Clearance</b>	Top land	.025		
	Skirt	Top	.0015	
		Bottom	.0015	
<b>Ring groove depth</b>	No. 1 ring	.1955	.2145	
	No. 2 ring	.198	.217	
	No. 3 ring	.198	.217	
	No. 4 ring	None		

\*Corrected as defined by SAE Engine Test Code, with the following standard power consuming accessories:

\*\* Compression ratio change not obtained with optional head but with changes in cylinder head gasket and on Series 40 only with piston change on Dynaflo equipped cars only.

\*\*\* 16.82 when equipped with Dynaflo Transmission, Series 40.

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## ENGINE—RINGS

<b>Type (top to bottom)</b>	No. 1 oil or comp.	Compression		
	No. 2 oil or comp.	Compression		
	No. 3 oil or comp.	Oil		
	No. 4 oil or comp.	None		
<b>No. rings above piston pin</b>		Three		
	<b>Material</b>	Cast Iron		
<b>Compression</b>	<b>Coating</b>	Lubrite Type		
	<b>Width</b>	.078		
	<b>Gap</b>	.015		
	<b>Maximum wall thickness</b>	.181	.200	
	<b>Material</b>	Steel		
<b>Oil</b>	<b>Coating</b>	None		
	<b>Width</b>	.186		
	<b>Gap</b>	.025		
	<b>Maximum wall thickness</b>	.135		
	<b>Location of expanders</b>	Oil Ring		

## ENGINE—PISTON PINS

<b>Material</b>		CDS 1117	
<b>Length</b>	3.100	3.400	
<b>Diameter</b>		.940	
<b>Type</b>	Locked in rod, in piston, floating, etc.		Locked In Rod
	<b>Bushing</b>	In rod or piston	None
		<b>Material</b>	None
<b>Clearance</b>	In piston	.0004	
	In rod	None	
<b>Direction offset in piston</b>		None	

## ENGINE—CONNECTING RODS

<b>Material</b>		1145 Forged Steel	
<b>Weight (oz.)</b>		22.16	
<b>Length (center to center)</b>		6.00	
<b>Bearing</b>	<b>Material</b>	Durex 100A	
	<b>Type (cast-in or removable)</b>	Removable	
	<b>Effective length</b>	.881	
	<b>Clearance</b>	.0012	
	<b>End play</b>	.007	

## ENGINE—CRANKSHAFT

<b>Material</b>		1145 Forged Steel	
<b>Weight (lb.)</b>		56.7	

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## ENGINE—CRANKSHAFT (cont.)

Vibration damper type		None	Rubber Absorption	
End thrust taken by bearing (No.)			Five	
Crankshaft end play			.006	
Main bearing	Material	Steel Backed Durex - 100A		
	Type (cast-in or removable)	Removable		
	Clearance	.0018		
	Journal dia. and bearing effective length	No. 1	2.4985 x 1.220	
		No. 2	2.4985 x 1.250	
		No. 3	2.4985 x 1.250	
		No. 4	2.4985 x 1.250	
		No. 5	2.4985 x 1.765	
No. 6		None		
No. 7		None		
Direction offset from cyl. bore		None		
Connecting rod crankpin journal diameter		2.2495		

## ENGINE—CAMSHAFT

Material		Forged Steel		
Bearings	Material	Steel Backed Babbitt		
	Number	Five		
Type of drive	Gear or chain	Chain		
	Crankshaft gear or sprocket material	Sprocket - C.D.S. 1140		
	Camshaft gear or sprocket material	Sprocket - Cast Iron		
	Timing chain	Make	Link Belt	
		No. of links	52	
		Width	.688	
Pitch		.500		

## ENGINE—VALVE SYSTEM

Hydraulic lifters (yes, no)		Yes	
Special provision for valve rotation (intake, exhaust)		None	
Rocker ratio		1.5:1	
Operating tappet clearance (indicate hot or cold)	Intake	None	
	Exhaust	None	
Tappet clearance for timing	Intake	.004 Off Seat	
	Exhaust	.004 Off Seat	
Timing marks on fly-wheel, damper, other		Fan Driving Pulley	Harmonic Balancer

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## ENGINE—VALVE SYSTEM (cont.)

<b>Timing</b>	Intake	Opens (°BTC)	25			
		Closes (°ABC)	67	77		
	Exhaust	Opens (°BBC)	70			
		Closes (°ATC)	42			
<b>Intake</b>	Material		Nickel - Chrome Alloy Steel			
	Overall length		4.704			
	Actual overall head dia.		1.750			
	Angle of seat		45°			
	Seat insert material		None			
	Stem diameter		.3720			
	Stem to guide clearance		.0025			
	Lift		.358	.378		
	Outer spring press. and length	Valve closed (lb. @ in.)	40.5 - 45.5 1.500			
		Valve open (lb. @ in.)	85 - 91 1.142	88-94 1.120		
	Inner spring press. and length	Valve closed (lb. @ in.)	21.5 - 26.5 1.530			
		Valve open (lb. @ in.)	53 - 59 1.172	55-61 1.150		
	<b>Exhaust</b>	Material		21 - 4NS or 2155 N		
		Overall length		4.704		
Actual overall head dia.		1.250				
Angle of seat		45°				
Seat insert material		None				
Stem diameter		.3714				
Stem to guide clearance		.0030				
Lift		.350				
Outer spring press. and length		Valve closed (lb. @ in.)	40.5 - 45.5 1.500			
		Valve open (lb. @ in.)	84 - 90 1.150			
Inner spring press. and length	Valve closed (lb. @ in.)	21.5 - 26.5 1.530				
	Valve open (lb. @ in.)	52 - 58 1.180				

## ENGINE—LUBRICATION SYSTEM

<b>Type of lubrication (splash, pressure, nozzle)</b>	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Nozzle
	Cylinder walls	Splash and Nozzle

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**MODEL** Series 40 Series 60 Series 50 Series 70

## ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ rpm)	35 @ 35
Oil pressure gage type (electric or mechanical)	Mechanical
Type oil intake (floating, stationary)	Stationary
Oil filter type (full flow, partial flow)	Full Flow
Capacity of crankcase, less filter—refill (qt.)	6
Oil grade recommended (SAE viscosity and temperature range)	Not Lower Than 32° F - 20W Not Lower Than Minus 10° F - 10W Below -10° F - 5W
Oil type recommended	Heavy Duty

## ENGINE—FUEL SYSTEM

Recommended fuel	Standard head	Regular	Premium	
	Optional head***		Premium	None
Fuel Tank	Capacity (gals.)	19		
	Filler location	Left Rear Fender		
Fuel Filter	Type	Metal - Sintered Bronze Element		
	Location	At Carburetor		
Fuel pump	Type (elec. or mech.)	Mechanical		
	Location	Right Side of Engine - Near Front		
	Pressure range	5 lbs.		
	Vacuum booster (std., optl., none)	Standard		
Carburetor	Make	Stromberg or Carter		
	Model number	*AAVB-267	**4AUVB-267	*AAVB-267
	Number used	One		
	Type	Downdraft, side inlet, other	Downdraft	
	Single or dual	2 bbl.	4 bbl.	2 bbl.
	Intake manifold heat control (manual, auto., none)	Automatic		
	Automatic choke type (integral, other)	Integral		
Air cleaner type	Standard	Heavy Duty Oil Bath		
	Optional	None		

## ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single With Cross-Over	
Muffler type (rev. flow, str. thru, sep. resonator)	Reverse Flow	
Exhaust pipe dia.	Branch	2.00
	Main	2.50
Tail pipe diameter	2.00	2.12

\* Carter WCD  
 \*\* Carter WCFB  
 \*\* Used In Conjunction With Dynaflo Transmission.



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## ENGINE—COOLING SYSTEM

Type (pressure system, atmospheric, other)		Pressure System		
Radiator cap relief valve press.		7 lbs.		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at	157-162		
Water pump	Type (centrifugal, other)	Centrifugal		
	Number of pumps	One		
	Drive (V-belt, other)	V-Belt		
	Bearing type	Sealed, Double Row Ball Bearing		
By-pass recirculation type (internal, external)		Internal		
Radiator core type (cellular, tube and fin)		Vee Cellular		
Cooling system capacity	With heater (qt.)	*18	20.0	
	Without heater (qt.)	**16.5	18.5	
Water jackets full length of cylinder (yes, no)		No		
Water all around cylinder (yes, no)		Yes		
Radiator hose	Lower	Number and type (molded, straight)	One - Molded	
		Inside diameter and length	Dia. 1.562	
	Upper	Number and type (molded, straight)	One - Molded	
		Inside diameter and length	Dia. 1.562	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter and length	None	
Drive belts	Fan	Number used	***One	
		Angle of V	36°	
		Outside length	52.7	
		Width	.380	
	Generator	Angle of V	***	
		Outside length	***	
		Width	***	
		Number of blades and spacing		Four, 76° - 104°
Diameter		18 inches		
Ratio—fan to crankshaft revolutions		.92:1		
Bearing type		Fan and Water Pump Bearing Shown Above		

\* When equipped with Dynaflo Transmission, Series 40, 60 & 50, 20 Qts.  
 \*\* When Equipped with Dynaflo Transmission, Series 40, 60 & 50, 18.5 Qts.  
 \*\*\* One Belt is used for both fan and generator.

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MAKE OF CAR BUICK MODEL YEAR 1954

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## ELECTRICAL—SUPPLY SYSTEM

<b>Battery</b>	Make and Model		Delco-Remy - 3 EM 60-W	
	Voltage Rtg. & Plates/cell		12-9	
	SAE Designation & Amp Hr. Rtg		2E-60	
	Location		Left Front Fender Skirt - Under Hood	
Terminal grounded		Negative		
<b>Generator</b>	Make		Delco-Remy	
	Model		1102008	
	Type		Shunt	
	Ratio—Gen. to Cr/s rev.		2.17:1	
<b>Regulator</b>	Make		Delco-Remy	
	Model		1118825	
	Type		Voltage & Current Control	
	Cutout relay	Closing voltage @ generator rpm	11.8 - 13.6 - Adjust to 12.8	
		Reverse current to open	-1 to -6	
	Regulated	Voltage	14-15 - Adjust to 14.5	
		Current	27 - 33 - Adjust to 30	
	Min. Gen. rpm required		2300 (Hot)	
Voltage test conditions	Temperature	150° F.		
	Load	Run 15 Minutes at 1-10 Amps.		
	Other			

## ELECTRICAL—STARTING SYSTEM

<b>Starting motor</b>	Make		Delco-Remy	
	Model		1107621	
	Rotation (drive end view)		Clockwise	
	Engine cranking speed		160 R.P.M.	
	Test conditions		Engine & Operating Temperature	
	Lock test	Amps	470	
		Volts	5.1	
		Torque (lb. ft.)	12	
No load test	Amps	95		
	Volts	10.2		
	RPM (min.)	4000		
<b>Motor control</b>	Switch (solenoid, manual)		Solenoid	
	Starting procedure		<ol style="list-style-type: none"> <li>1. Turn on ignition</li> <li>2. Depress accelerator.</li> </ol>	



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## ELECTRICAL—STARTING SYSTEM (cont.)

<b>Motor drive</b>	<b>Engagement type</b>		Solenoid With Over Running Clutch
	<b>Pinion meshes (front, rear)</b>		Front
	<b>Number of teeth</b>	<b>Pinion</b>	9
		<b>Flywheel</b>	180
<b>Flywheel tooth face width</b>		.573	

## ELECTRICAL—IGNITION SYSTEM

<b>Coil</b>	<b>Make</b>		Delco-Remy
	<b>Model</b>		*1115082
	<b>Amps</b>	<b>Engine stopped</b>	4.5
		<b>Engine idling</b>	2.5
<b>Distributor</b>	<b>Make</b>		Delco-Remy
	<b>Model</b>		1110849
	<b>Spark advance data (at distributor shaft)</b>	<b>Centr. advance start (rpm)</b>	0° - .6° @ 300
		<b>Centr. advance max. deg. @ rpm</b>	11° - 13.5° @ 1750
		<b>Vacuum advance start (in. Hg.)</b>	6.5 - 8.5
		<b>Vac. adv. (max. deg. @ in. Hg.)</b>	10.5 @ 11.5
	<b>Breaker gap (in.)</b>		** .0125 - .0175
	<b>Cam angle (deg.)</b>		Usage not Recommended by Buick
<b>Breaker arm tension (oz.)</b>		19 - 23	
<b>Timing</b>	<b>C/S deg. @ rpm</b>		5 BTC
	<b>Mark location</b>	Fan Drive Pulley   Harmonic Balancer	
	<b>Cylinder numbering system (see page 2)</b>	Front to Rear	Left Bank, 2-4-6-8 Right Bank, 1-3-5-7
		<b>Firing order (see page 2)</b>	1-2-7-8-4-5-6-3
	<b>Make and model</b>		A.C. 44-5
<b>Spark plug</b>	<b>Thread (mm)</b>		14
	<b>Tightening torque (lb. ft.)</b>		25
	<b>Gap</b>		.030 - .035
<b>Cable</b>	<b>Conductor type</b>		Stranded Copper
	<b>Insulation type</b>		Neoprene
	<b>Spark plug protector</b>		Neoprene Boot & Sheet Metal Cover

## ELECTRICAL—SUPPRESSION

<b>Description</b>	Distributor	10,000 OHM Resistance Rotor
	Coil	.33 Micro-Farad Condenser
	Generator	.33 Micro-Farad Condenser
	Voltage Regulator	.50 Micro-Farad Condenser

\* To be Used in Series with Resistance Unit 1927809.

\*\* Dwell Meter for Setting Point Opening Is Not Recommended.

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**MODEL** Series 40 Series 60 Series 50 Series 70

## ELECTRICAL—INSTRUMENTS AND SWITCHES

<b>Speed-ometer</b>	<b>Make</b>		<b>A.C.</b>	
	<b>Trip odometer (yes, no)</b>	No		Yes
<b>Charge indicator—type</b>		Ammeter		
<b>Temperature indicator—type</b>		Bourdon Tube		
<b>Oil pressure indicator—type</b>		Pressure Expansion		
<b>Fuel indicator—type</b>		Electric		
<b>Ignition switch</b>	<b>Identify positions in order and circuits controlled</b>	Center - Ignition and Accessories On. 1st Position Counterclockwise-Ignition & Accessories Off & Locked 1st Position Clockwise - Ignition and Accessories Off-Not Locked		
	<b>Provision for illumination</b>	Instrument Lamp In Switch Housing		
	<b>Location</b>	Right of Steering Column		
	<b>Theft protection type</b>	Metal Shield		
<b>Main lighting switch</b>	<b>Identify positions and lights controlled</b>	1st Position Out - Park and Tail Lights 2nd Position Out - Head Lights and Tail Lights Fully Counterclockwise - Instrument and Map Lights Off 1st Position Clockwise - Map Lights On. 2nd Position Clockwise - Map Lights and Instrument Lights On. 3rd Position Clockwise - Instrument Lights On*		
	<b>Locations and lamps controlled</b>			
<b>Other light switches</b>	Dome Lamp	*****		
	Trunk Lamp	**Mercury Switch In Lamp		
<b>Other switches</b>	Glove Compartment	Mechanically Operated By Door		
	Parking Brake	*** On Parking Brake Release Bracket		
<b>Other switches</b>	<b>Locations and devices controlled</b>			
	Directional Signal	Left Side of Steering Column		
	Back-Up Lights	***Base of Steering Column***		On Steering Column Between Dash & Inst. Panel
<b>Windshield wiper</b>	<b>Make</b>	Trico		
	<b>Type</b>	Vacuum		
	<b>Vacuum booster provision</b>	Yes		
	<b>Washer provision</b>	Yes		
<b>Horn</b>	<b>Type</b>	Vibrator		
	<b>Number used</b>	2		
	<b>Amp draw (each)</b>	Left Horn 9.5 - Right Horn 10.5		

- \* Further rotation clockwise dims instrument lights.
- \*\* Optional at Extra Cost Series 40
- \*\*\* Optional at Extra Cost Series 40-60-50.
- \*\*\*\* Series 40-60-50 Dynaflo same as Series 70.
- \*\*\*\*

Manual

Automatic

41D, 46R, 61, 66R  
46C, 66C  
52-72R  
56R, 76R  
56C, 76C, 100

Dome Light  
Rear of Left Rear Arm Rest  
Left Center Pillar  
Dome Light  
Rear of Left Rear Arm Rest

Front Pillars  
Front Pillars  
Front & Center Pillars  
Front Pillars  
Front Pillars

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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	2-4400			
Headlamp beam indicator	1-53			
Parking light	2-1034			
Tail light	2-1034			
Stop light	Use Same Bulb as Tail Light			
Direction indicator	Front	Use Same Bulb as Parking Light		
	Rear	2-1073		
	Tell-Tale	2-53		
License plate light	2-67			
Instrument light	4-57	1	7-57	
Ignition lock light	1-57			
Map light	1-89			
Dome light	1-1004			
Clock light	1-57*			1-57
Radio dial light	1-57*			
Glove compartment light	1-57			
Courtesy light	None			
Trunk compartment light	1-89*			1-89
Other Back-up Light	2-1073*			2-1073
Brake Indicator	1-57*			1-89*
Dynaflow Quadrant Light**	**1-53*			1-53

## ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

\*Accessory at Extra Cost.

\*\*Included in Dynaflow Package.

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 20 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	25 @ 3 Min. C.B. (a)			
Headlamp beam indicator	Same as (a)			
Parking light	Same as (a)			
Tail light	Same as (a)			
Stop light	SFE-9 (b)			
Direction indicator	Same as (b)			
License plate light	Same as (a)			
Instrument light	Same as (a)			
Ignition light	Same as (a)			
Map light	Same as (a)			
Dome light	SFE-20 (c)			
Clock	*AGA-2	AGA-2		
Clock light	*Same as (a)	Same as (a)		
Radio	*7.5 Special			
Glove compartment light	AGA-2			
Courtesy light	None			
Trunk compartment light	*Same as (c)	Same as (c)		
Other BRAKE INDICATOR	*SFE-9 (d)			SFE-9 (d)
HEATER & BLOWER	*SFE-9			
Back-Up Lamps	*Same as (d)			Same as (d)
Cigar Lighter	Special			
Antenna Motor	*AGC-15			

\*Electric Window & Seat Controls - 40 C.B.  
 Air Conditioner \*20-SFE Blower: 2-AGA Temp. Control  
 Vacuum Brake Booster SFE-14 Fuse\*

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## DRIVE UNITS—CLUTCH (PEDAL OPERATED)

<b>Make</b>		Buick		None	
<b>Type (dry or wet plate)</b>		Dry Plate		None	
<b>In combination with fluid coupling (yes, no)</b>		No		None	
<b>Semi-centrifugal (yes, no)</b>		No		None	
<b>Type pressure plate springs</b>		Crown Spring	Coil Spring	None	
<b>Total plate pressure (lb.)</b>		1350	1680	None	
<b>No. of clutch driven discs</b>		One		None	
<b>Clutch facing</b>	<b>Material</b>	Woven		None	
	<b>Inside diameter</b>	6	6.5	None	
	<b>Outside diameter</b>	10	10.5	None	
	<b>Total eff. area (sq. in.)</b>	100.6	106.8	None	
	<b>Thickness</b>	125 + .003		None	
	<b>Number required</b>	Two		None	
	<b>Engagement cushioning method</b>		Spring		None
	<b>Release bearing</b>	<b>Type</b>	Ball		None
		<b>Method of lubrication</b>	Sealed		None
	<b>Torsional damping</b>	<b>Method (springs, other)</b>	Spring		None
<b>Frict. mat.</b>		Woven Material		None	

## DRIVE UNITS—TRANSMISSIONS

<b>Conventional (std. or opt.)</b>	Standard	None
<b>Conventional with overdrive (std. or opt.)</b>	None	
<b>Automatic (std. or opt.)</b>	Optional	Standard

## DRIVE UNITS—CONVENTIONAL TRANSMISSION

<b>Number of forward speeds</b>		Three		None
<b>Transmission ratios</b>	<b>In first</b>	2.67	2.3933	None
	<b>In second</b>	1.66	1.5259	None
	<b>In third</b>	1.00	1.00	None
	<b>In fourth</b>	None		None
	<b>In reverse</b>	3.02	2.534	None
<b>Constant mesh gears in 2nd (yes, no)</b>		Yes		None
<b>Spur gear used in (indicate speeds)</b>		None		None
<b>Helical gears used in (indicate speeds)</b>		All		None
<b>Synchronous meshing in 2nd and 3rd gears (yes, no)</b>		Yes		None

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<b>MODEL</b>	Series 40	Series 60	Series 50	Series 70
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### DRIVE UNITS—CONVENTIONAL TRANSMISSION (cont.)

<b>Lubricant</b>	Capacity (pt.)	1.75	2.50	None	
	Type recommended	"Multi-Purpose" Gear Lubricant		None	
	SAE viscosity number	Summer	SAE 90		None
		Winter	SAE 90		None
Extreme cold		SAE 90		None	

### DRIVE UNITS—CONVENTIONAL TRANSMISSION WITH OVERDRIVE

For transmission data see conventional transmission section

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

### DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	*Twin Turbine Dynaflo
Type (fluid coupling with gears, torque convertor with gears, other)	Torque Converter With Gears
Manual selector positions, left to right (show symbols and define, e.g., N- Neutral)	P-Park N-Neutral D-Drive L-Low R-Reverse
List gear ratios in each drive position (range)	D - 1x Converter Ratio L - 1.82 x Converter Ratio R - 1.82 x Converter Ratio
Shifting within drive position range by accelerator control and speed limiting governor (yes, no)	No
By governor—forced shift (yes, no)	No
Downshift of gears in high range possible up to (mph)	Manual Downshift Not Recommended Over 40 M.P.H.

\* Optional At Extra Cost on Series 40, 60, & 50.

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## DRIVE UNITS—AUTOMATIC TRANSMISSION (cont.)

<b>Torque convertor</b>	Number of elements		4	
	Max. ratio at stall at engine rpm		2.45 @ 1700	
	Mechanical lockup	Provided (yes, no)	No	
		Speed range	None	
		Releases at (speed range, mph)	None	
	Type of cooling (forced air, oil cooler and type, other)		Water Cooled	
Anti-creep device (yes, no)		No		
<b>Lubricant</b>	Capacity—refill (pt.)		20	
	Type recommended		**	
	Grade	Summer	Type "A"	
		Winter	Type "A"	
Extreme cold		Type "A"		

## DRIVE UNITS—PROPELLER SHAFT

Number used		One			
Type (exposed, torque tube)		Torque Tube			
<b>Outer diameter x length* x wall thickness</b>	Conventional trans.		2.62 x 60.9 x .065	2.62 x 64.9 x .065	None
	Overdrive trans.		None		
	Automatic trans.		2.62 x 60.9 x .065	2.62 x 64.9 x .065	
<b>Intermediate bearing</b>	Type (plain, anti-friction)		None		
	Lubri. (fitting, prepack)		None		
<b>Universal joints</b>	Make		Saginaw or Spicer		
	Number used		One		
	Type (ball and trunnion, cross, other)		Cross		
	Bearing	Type (plain, anti-friction)		Steel Bushing	
Lubric. (fitting, prepack)		Lubricated Automatically By Transmission Lubricant			
Drive taken through (torque tube or arms, spring)		Torque Tube			
Torque taken through (torque tube or arms, springs)		Torque Tube			

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

\*\* Automatic Transmission fluid type A, - must be identified by AQ-ATF number embossed in can or special Buick oil for Dynaflo Drive.



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### DRIVE UNITS—REAR AXLE

<b>Type (semi-floating, other)</b>		Semi-Floating			
<b>Gear type (hypoid, other)</b>		Hypoid			
<b>Gear ratio and No. of teeth</b>	Conventional trans.	3.9(11-43)		None	
	Overdrive trans.	None			
	Automatic trans.	3.6(12-43)	3.4(12-41)		
<b>Pinion adjustment (shim, other)</b>		Shims			
<b>Pinion bearing adj. (shim, other)</b>		None			
<b>Lubricant</b>	Capacity (pt.)	4.5			
	Type recommended	*Hypoid Lubricant - GM 4655M only, for complete fill			
	SAE viscosity number	Summer	90		
		Winter	90		
Extreme cold		*80 GM 4654M			

### DRIVE UNITS—WHEELS

<b>Type (disc, other)</b>		Disc		
<b>Rim (size and flange type)</b>		15 x 6L		
<b>Attachment</b>	Type (bolt or stud)	Bolt		
	Circle diameter	5.000		
	Number and size	Five - .562		

### DRIVE UNITS—TIRES

<b>Size and ply rating</b>	Standard	7.60 x 15 4 Ply		8.00x15 4 Ply	
	Optional	None			
<b>Rev/mile at 30 mph</b>		725.3	724.7	730.2	717.3
<b>Inflation press. (cold)</b>	Front	24			
	Rear	24			

### BRAKES—SERVICE

<b>Type</b>		Hydraulic - Internal Expanding		
<b>Booster type</b>		Optional***		
<b>Effective area (sq. in.)</b>		184.6	207.5	219
<b>Percent brake effectiveness—rear</b>		47		
<b>Drum</b>	Diameter	Front	12	
		Rear	12	
	Type and material	Cast Iron		

\* M.P. Hypoid May Be Used for Make-Up.

\*\*\* On Dynaflo Equipped Cars Only.

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## BRAKES—SERVICE (cont.)

	Bonded or riveted			Riveted	
		Material		Moulded	Extruded
Brake lining	Primary	Size (length x width x thickness)	Front wheel	10.094 x 2.25 x .187	
			Rear wheel	10.094 x 1.75 x .187	10.094 x 2.25 x .187
		Segments per shoe	One		
	Secondary	Size (length x width x thickness)	Front wheel	12.969 x 2.25 x .187	
			Rear wheel	12.969 x 1.75 x .187	12.969 x 2.25 x .187
		Segments per shoe	One		
Wheel cylinder bore	Front	1.12			
	Rear	1.0			
Master cylinder bore		1.0			
Available pedal travel		7.5			
Line pressure at 100 lb. pedal load		600			
Shoe clearance adjustment		.015			

## BRAKES—PARKING

Type of control		Step On - Left Foot Operated
Location of control		Left Side Cowel Panel
Operates on		Rear Service Shoes
If separate from service brakes	Type (internal or external)	None
	Drum diameter	None
	Lining size (length x width x thickness)	None

## FRAME

Type and description	Double Drop, Channel X Center Cross Member, Box Type Front Cross Member.
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## FRONT SUSPENSION

Type and description	Independent With Coil Springs
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<b>MODEL</b>	Series 40	Series 60	Series 50	Series 70
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## FRONT SUSPENSION (cont.)

		Coil		
		High Carbon Silicon Manganese Steel 9260		
<b>Spring</b>	Size (length x width x No. leaves or coil I.D.)	15.0 x .660 x 4.047	15 x .670 x 4.047	15 x .680 x 4.047
	Spring rate (lb. per in.)	350	360	
	Rate at wheel (lb. per in.)	92	95	
	Normal load (lb. @ rated length)	1085 @ 9.50	1140 @ 9.50	1175 @ 9.50
<b>Shock absorbers</b>	Manufacturer	Delco		
	Type (direct or lever)	Direct		
	Piston diameter	1"		
<b>Stabilizer</b>	Type (link, linkless, frameless)	Link Type Mounted In Rubber		
	Material	SAE 1065		

## STEERING

<b>Type used (Standard or optional)</b>		Mechanical	Standard	None	
		Power	Optional*	Standard	
<b>Wheel diameter</b>		18			
<b>Turning diameter</b>	Outside front	Wall to wall (r. & l.)	44.5 Right - 44.6 Left	45.5 Right - 45.5 Left	
		Curb to curb (r. & l.)	42.8 Right - 42.9 Left	43.0 Right - 43.0 Left	
	Inside rear	Wall to wall (r. & l.)	Not Available		
		Curb to curb (r. & l.)	Not Available		
<b>Inside wheel angle with outside wheel at 20°</b>		22.5°			
<b>Mechanical</b>	<b>Gear</b>	Type	Ball Bearing Worm and Nut		
		Make	Saginaw		
		Ratios	Gear	23.6	
			Overall	26.7	
	No. wheel turns	4.5		None	
<b>Power</b>	Type		Hydraulic*		
	Make		Saginaw		
	Trade name		Buick Power Steering		
	<b>Gear</b>	Type	Ball Bearing Worm and Nut		
		Ratios	Gear	21.3:1	
			Overall	24.1:1	
	Pump driven by		Belt		
	Overall torque ratio		Variable		
Number wheel turns		5			
<b>Linkage</b>	Type		Parallel Drag Link		
	Location (front or rear of wheels)		Rear		
	Drag link (trans. or long)		Transverse		
	Tie rods (one or two)		Two		

\*Optional On Series 40, 60, and 50 DynaFlow Equipped Cars Only.

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## STEERING (cont.)

<b>Kingpin</b>	Inclination at camber (deg.)		0° at 7/8° Camber
	Diameter		.861 - .862
	Bearings (type)	Upper	Bushing
		Lower	Bushing
Thrust		Ball	
<b>Wheel alignment (range and preferred)</b>	Caster (deg.)		1/2° Positive to 3/4° Negative
	Camber (deg.)		7/8° Positive to 5/8° Negative
	Toe-in (outside tread-inches)		0 to 1/16
<b>Steering knuckle type</b>			Reverse Elliott
<b>Wheel spindle</b>	Diameter	Inner bearing	1.3735 - 1.3740
		Outer bearing	.8426 - .8431
	Thread size		13/16 - 16, LH & RH
	Bearing type		Ball

## REAR SUSPENSION

<b>Type</b>			Coil Springs	
<b>Drive and torq. taken through (see page 14)</b>			Torque Tube	
<b>Spring</b>	<b>Type</b>		Coil	
	<b>Material</b>		High Carbon Silicon Manganese Steel 9260	
	<b>Size (length x width x No. leaves or coil I.D.)</b>		19.375 x .560 x 5.5      19.50 x .580 x 5.5	
	<b>Spring rate (lb. per in.)</b>		100      115	
	<b>Rate at wheel (lb. per in.)</b>		100      115	
	<b>Normal load (lb. at rated length)</b>		960 @ 9.562      1070 @ 9.562	
	<b>Mounting insulation type</b>			Rubberized Fabric
	<b>If leaf</b>	<b>No. of leaves</b>		None
		<b>Covers (yes, no)</b>		No
		<b>Lubricated (yes, no)</b>		No
<b>Inserts</b>		<b>Type and size</b>		None
		<b>Material</b>		None
<b>Shackle (comp. or tens.)</b>			None	
<b>Shock absorbers</b>	<b>Manufacturer</b>		Delco	
	<b>Type (direct or lever)</b>		Lever	
	<b>Piston diameter</b>		1-1/2"	
<b>Stabilizer</b>	<b>Type (link, linkless, frameless)</b>		None	
	<b>Material</b>		None	
<b>Track bar type</b>			Tubular Steel Bar Mounted In Rubber	

# AMA Consolidated Specification Questionnaire

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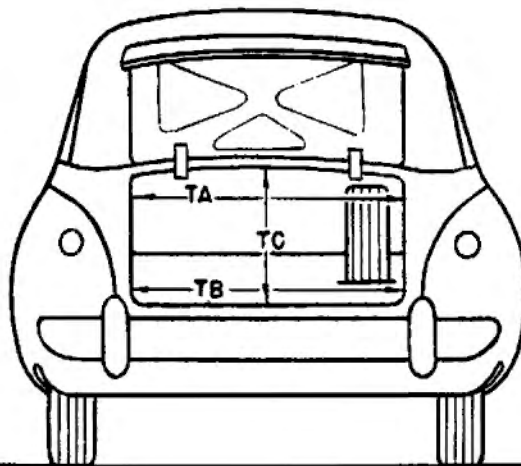
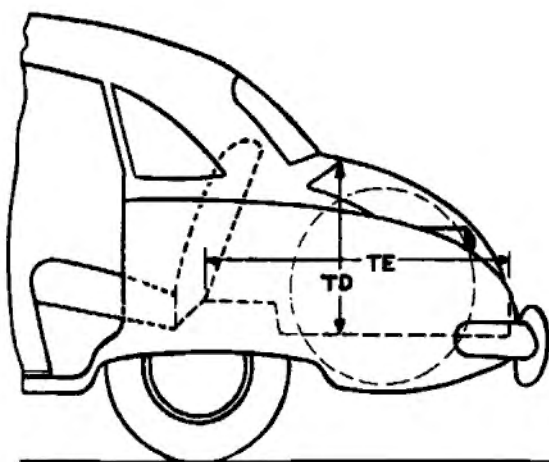
## BODY—GENERAL DEFINITIONS

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



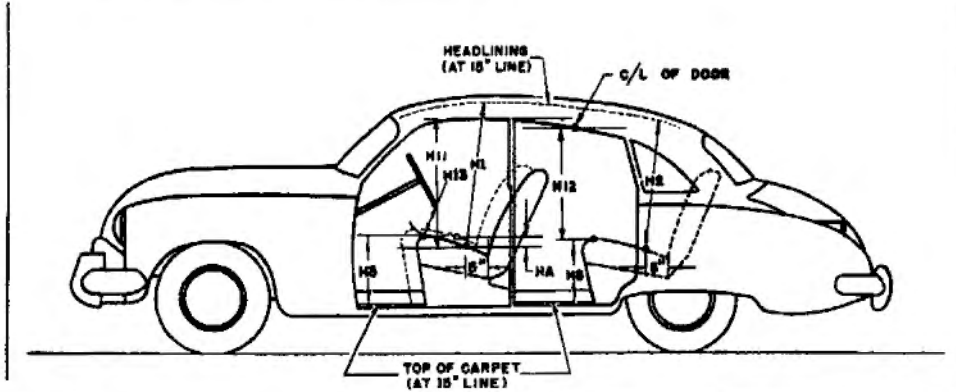
TA—Width across the top	55.6	58.7
TB—Width across the bottom	53.0	54.6
TC—Diagonal dimension at CL from top of opening to bottom	31.8	34.3
TD—Vertical height of opening (floor to top, inside edge of opening)	23.4	25.2
TE—Max. horizontal depth (forward from vertical projection of inside edge of opening)	46.0	49.0
Position of spare tire stowage	Right Side - Longitudinal, Vertical	
Method of holding lid open	Counterbalanced Spring at Trunk Lid Hinges	

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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)	35.6	36.6	35.9
H2. Rear headroom—from "A" pt. to headlining at 8° back of vertical on 15" line.	34.D	35.2	35.1
H3. Front seat height to floor carpet on 15" line (front edge of cushion).	12.8	13.5	
H8. Rear seat height to floor carpet on 15" line (front edge of cushion).	12.0	12.6	12.3
H11. Entrance—front—cushion "A" point to bottom windcord vertical.	29.7	30.8	30.2
H12. Entrance—rear—top of cushion to bottom windcord vertical at C/L of rear door.	27.5	29.5	28.9
H13. Steering wheel clearance to seat cushion taken on arc.	5.5	5.1	4.4
HA. Front seat vertical rise at "A" pt. (inches.)	1.2	1.1	



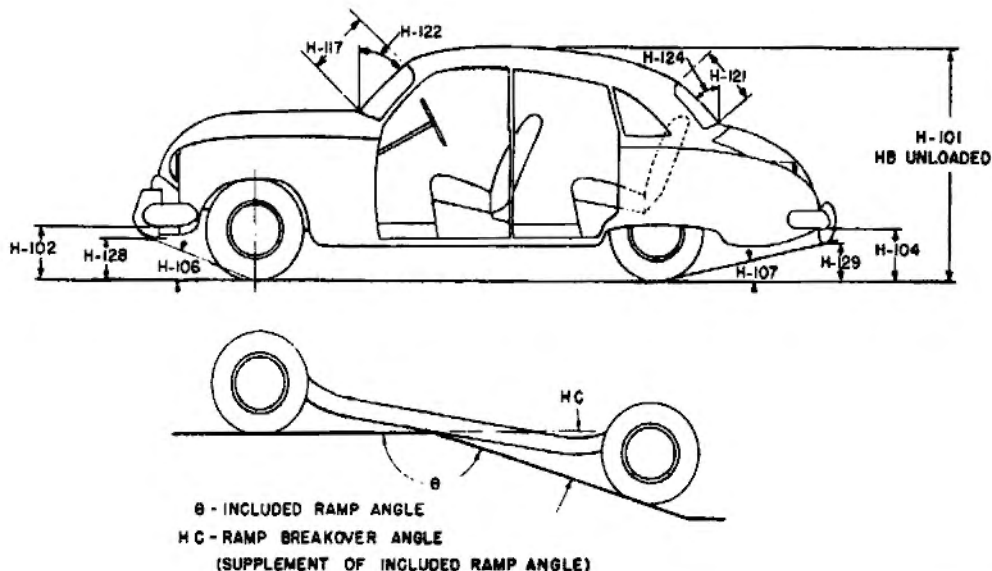
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## BODY—HEIGHT DIMENSIONS—EXTERIOR



<b>H101.</b> Overall height.	60.5	62.4	62.6
<b>HB.</b> Overall height—unloaded.	62.3	64.2	64.4
<b>H102.</b> Front bumper bottom to ground at normal section.	11.6		11.8
<b>H104.</b> Rear bumper bottom to ground at normal section.	11.6	11.4	11.6
<b>H106.</b> Angle of approach—from the tire rolling radius to lowest point on front bumper or guard.	23°	20.5°	21°
<b>H107.</b> Angle of departure—from the tire rolling radius to lowest point on rear bumper or guard.	15°	13.5°	
<b>HC.</b> Ramp breakover angle.*	12.5°	12°	
<b>H117.</b> Windshield DLO—slant height.	18.2	18.8	
<b>H121.</b> Backlight DLO*—Max., slant height.	17.0	17.2	
<b>H122.</b> Windshield slope angle to vertical line on car axis.	44°	47°	
<b>H124.</b> Backlight slope angle to vertical line on car axis.	46°	48°	
<b>H128.</b> Ground to bottom of front bumper guard.	10.9		11.1
<b>H129.</b> Ground to bottom of rear bumper guard.	11.6	11.4	11.6
<b>HD.</b> Min. road clearance (location and dimension).**	6.5		6.7
<b>HE.</b> Min. road clearance at rear axle.	7.7		7.9

\*See Notes, page 19.

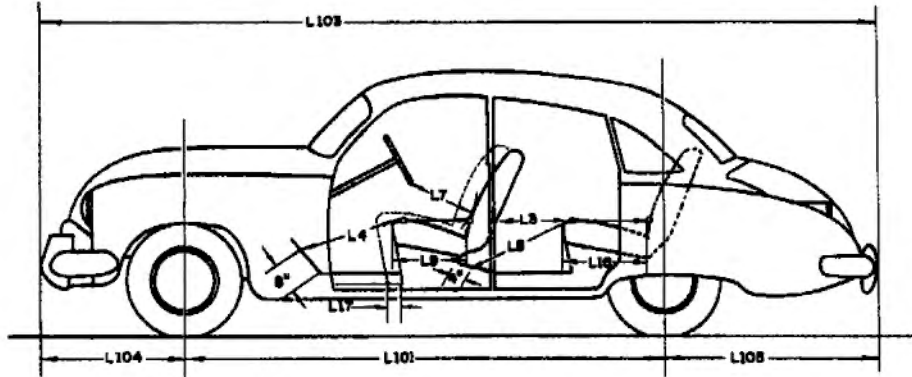
\*\* Frame Side Rail

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**MODEL** Series 40 Series 60 Series 50 Series 70

## BODY—LENGTH DIMENSIONS



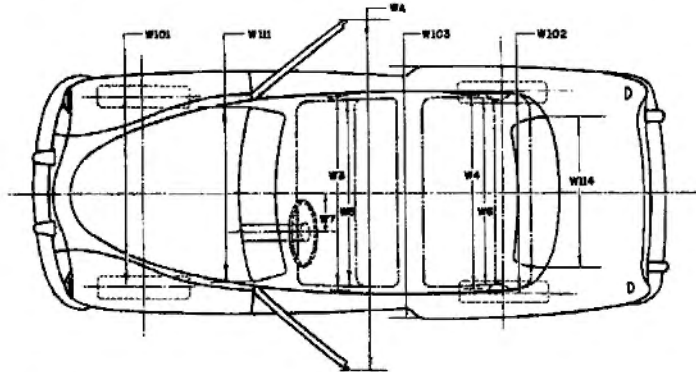
Interior	L3. Rear compartment back of front seat back to rear seat back.	32.4	34.8	35.0	
	L4. Leg room—front—diagonal—ball of foot to top of seat to front seat back—15" line.	42.3	43.3	43.4	
	L5. Leg room—rear—diagonal—from ball of foot to top of rear seat cushion and to seat back.	41.8	41.4	45.2	45.6
	L7. Steering wheel clearance to seat back taken on arc.	13.6	13.5		
	L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).	18.6	17.5	17.9	
	L16. Depth of rear seat (front edge to seat back).	18.9	17.7	17.8	
	L17. Total adjustment of front seat at floor.	4.4	4.7		
Exterior	L101. Wheel base.	122	127		
	L103. Overall length (bumper to bumper inc. guards).	206.3	216.8		
	L104. Overhang—front including bumper guards.	35.6	36.3		
	L105. Overhang—rear including bumper guards.	48.7	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.	58.2	59.4	
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	56.7	58.7	
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	62.5	64.9	64.7
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	62.4	65.7	
	W7. Steering wheel center to center of body.	15.1	16.2	
	Exterior	W101. Front tread at ground.	59.0	
W102. Rear tread at ground.		59.0	62.2	
W103. Max. overall width of car including bumpers or mouldings.		76.6	79.8	
WA. Max. overall width of car with doors open.		145.8	147.8	
W111. Windshield DLO, max. width.		61.1	61.0	
W114. Back window DLO, max. width.		60.0	60.3	

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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 - Full
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 - *Wrap Around
Windshield glass area	1179.5	1207.7
Backlight glass area	1045.8	979.5
Total glass area	3888.4	4048.9

## 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)	L-6	L-6	L-6	L-6
	J-6	J-6	J-6	J-6
	G-6	G-6	H-6	H-6
	D-6	P-6		
	P-6	L-6 Skylark		

### Body type code

- |  |   |
|--|---|
| A—Coupe—2 door flatback<br>B—Coupe—2 door notchback<br>C—Sedan—2 door flatback<br>D—Sedan—2 door notchback<br>E—Sedan—4 door flatback (4 windows)<br>F—Sedan—4 door flatback (6 windows)<br>G—Sedan—4 door notchback (4 windows)<br>H—Sedan—4 door notchback (6 windows)<br>J—Hardtop—2 door<br>K—Hardtop—4 door | L—Convertible—2 door<br>M—Convertible—4 door<br>N—Station wagon—2 door<br>P—Station wagon—4 door<br>Q—Combined passenger and utility—2 door<br>R—Combined passenger and utility—4 door<br>S—Sedan delivery<br>T—Limousine |
|--|---|

\* Except Models, 46C 49, 56C, 66C, 69, 76C, and 100.

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