

AUTOMOBILE MANUFACTURERS ASSOCIATION CONSOLIDATED SPECIFICATION QUESTIONNAIRE

MAKE OF CAR: Chevrolet	MODEL NAME	SYMBOL
COMPANY: Chevrolet Motor Division General Motors Corporation Engineering Center Box 246 N. End Station Detroit 2, Michigan	One-Fifty (6 Cyl.) Two-Ten (6 Cyl.) Bel Air (6 Cyl.)	1500 Series 2100 Series 2400 Series
MODEL YEAR: 1957	DATE 9-1-56	

Revised: 10-15-56; 3-11-57

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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	1500-2100-2400 Series (6 Cyl.)		
Wheelbase	115.0		
Tread	Front	58.0	
	Rear	58.8	
Maximum Overall Dimensions	Length (L-103)	200.0	
	Width (W-103)	73.9	
	Height (H-101)	59.9	
Steering ratio—overall		25.7:1	
Turning diameter (curb to curb)		41.5 Ft.	
Shipping weight*		3275 Lb. (Estimated)	
Transmission— (Specify standard, optional, not avail.)	Conventional	Standard	
	Overdrive	Optional	
	Automatic	Optional	
Axle ratio	Conventional	3.55:1 (a)	
	Overdrive	4.11:1 (a)	
	Automatic	3.36:1 (a) ^c	
Tire size		7.50-14-4 Fly, Tubeless	
Engine	Type	In Line	
	No. of cylinders	6	
	Valve arrangement	In Head	
	Bore and stroke	3.56 x 3.94	
	Piston displacement, cu. in.	235.5	
	Standard compression ratio	8.0:1	
	Maximum bhp at engine rpm	140 @ 4200	
	210 @ 2400		

*Standard car weight, not including gas and water. (For Model 2103)

(a) These ratios also available with optional "Positraction" (limited slip) Differential.

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ENGINE—GENERAL

Type	V, In-line, other	In Line	
	Angle of V	None	
No. of cylinders		6	
Valve arrangement		In Head	
Bore and stroke		3.56 x 3.94	
Piston displacement, cu. in.		235.5	
Numbering system (front to rear)	L. Bank	In Line, from front to rear	
	R. Bank		See above
Firing order		1-5-3-6-2-4	
Compression ratio	Standard Head	8.0:1	
	Optional Head	None	
Cylinders	Head	Cast Alloy Iron	
	Material		None
	Sleeve—Wet, dry, other, none	None	
Number of mounting points	Front	2	
	Rear	2	
Taxable horsepower	(Dia. ² x No. Cyl.) 2.5	30.4	
Advertised max. brake horsepower at engine RPM*	Standard head	140 @ 4200	
	Optional head	None	
	With fuel (Octane and method)	Standard Head	87-92 Octane, Research
		Optional Head	None
Max. torque (lb. ft. @ RPM)	Standard head	210 @ 2400	
	Optional head	None	
Recommended idle speed (neutral)		475 RPM	

ENGINE—PISTONS

Material	Cast Aluminum Alloy with Steel Struts		
Description and finish	Cam Ground, Tin Coated Controlled Expansion Flat Head		
Weight (piston only) oz.	18.40		
Clearance	Top land	.033-.042	
	Skirt	Top	.0006-.0010 (b)
		Bottom	N.A.
Ring groove depth	No. 1 ring	.1985-.2045	
	No. 2 ring	.1985-.2045	
	No. 3 ring	.1985-.2045	
	No. 4 ring	None	

*Corrected as defined by SAE Engine Test Code, with the following standard power consuming accessories: Dynamometer Exhaust Water pump, no fan, generator not charging

(b) Measured 1.29 inches from top of piston.

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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 Alloy Iron
	Coating	Wear Resistant
	Width	.0930 - .0935
	Gap	.007 - .017
	Maximum wall thickness	.178
Oil	Material	Rails, Steel; Spacer, Stainless Steel
	Coating	Upper and Lower Rails, Chrome Plated O.D. -
	Width	.181 - .188
	Gap	.015 - .055
	Maximum wall thickness	.153
Location of expanders		In Oil Ring Assy.

ENGINE—PISTON PINS

Material		Chrome Steel	
Length		3.168 - 3.198	
Diameter		.8660 - .8665	
Type	Locked in rod, in piston, floating, etc.	Clamped in Rod	
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston	.00015 - .00025	
	In rod	None	
Direction offset in piston		Major Thrust Side	

ENGINE—CONNECTING RODS

Material		Drop Forged Steel
Weight (oz.)		28.03
Length (center to center)		6.8125
Bearing	Material	Steel Backed Babbit
	Type (cast-in or removable)	Removable
	Effective length	1.008
	Clearance	.0007 - .0027
	End play	.005 - .010

ENGINE—CRANKSHAFT

Material		Forged Steel
Weight (lb.)		80

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ENGINE—CRANKSHAFT (cont.)

Vibration damper type		Oscillating (rubber floating)	
End thrust taken by bearing (No.)		3	
Crankshaft end play		.0035 - .0095	
Main bearing	Material	Steel backed babbit	
	Type (cast-in or removable)	Removable	
	Clearance	Brgs. 1 & 2, .0008 - .0021; Brgs. 3 & 4 .0010 - .0026	
	Journal dia. and bearing effective length	No. 1	2.6840 x 1.063
		No. 2	2.7150 x .907
		No. 3	2.7160 x .982
		No. 4	2.7770 x 1.189
		No. 5	None
No. 6		None	
No. 7		None	
Direction offset from cyl. bore		None	
Connecting rod crankpin journal diameter		2.311 - 2.312	

ENGINE—CAMSHAFT

Material		Cast Alloy Iron	
Bearings	Material	Steel backed babbit	
	Number	1	
Type of drive	Gear or chain		Gear
	Crankshaft gear or sprocket material		Steel
	Camshaft gear or sprocket material		Bakelite and fabric composition with steel hubs
	Timing chain	Make	None
		No. of links	None
		Width	None
		Pitch	None

ENGINE—VALVE SYSTEM

Hydraulic lifters (yes, no)		Yes
Special provision for valve rotation (intake, exhaust)		None
Rocker ratio		1.477:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero
	Exhaust	Zero
Tappet clearance for timing	Intake	Zero
	Exhaust	Zero
Timing marks on fly-wheel, damper, other		Flywheel

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	10° 30'	
		Closes (°ABC)	53° 30'	
	Exhaust	Opens (°BBC)	49°	
		Closes (°ATC)	15°	
Intake	Material		High Alloy Steel	
	Overall length		6.376 - 6.396	
	Actual overall head dia.		1.870 - 1.880	
	Angle of seat		31° in Head	
	Seat insert material		None	
	Stem diameter		.3410 - .3417	
	Stem to guide clearance		.0010 - .0027	
	Lift		.4004	
	Outer spring press. and length	Valve closed (lb. @ in.)	74-82 @ 1.858	
		Valve open (lb. @ in.)	196-208 @ 1.462	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		High Alloy Steel
		Overall length		4.913 - 4.933
Actual overall head dia.		1.495 - 1.505		
Angle of seat		46° in Head		
Seat insert material		None		
Stem diameter		.3410 - .3417		
Stem to guide clearance		.0010 - .0027		
Lift		.4004		
Outer spring press. and length		Valve closed (lb. @ in.)	74-82 @ 1.858	
		Valve open (lb. @ in.)	196-208 @ 1.462	
Inner spring press. and length		Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Pressurized jet cross sprayed
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Nozzle
	Cylinder walls	Pressurized jet cross sprayed

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ rpm)	30 PSI @ 1170-1200 RPM
Oil pressure gage type (electric or mechanical)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter type (full flow, partial flow)	(Optional) Partial Flow
Capacity of crankcase, less filter—refill (qt.)	5
Oil grade recommended (SAE viscosity and temperature range)	Not lower than 32°F-----SAE 20W or SAE 20 or SAE 10W-30 Not lower than 0°F-----SAE 10W or SAE 10W-30 Lower than 0°F-----SAE 5W or SAE 5W-20
Oil type recommended	Heavy Duty

ENGINE—FUEL SYSTEM

Recommended fuel	Standard head	Regular grade	
	Optional head	None	
Fuel Tank	Capacity (gals.)	16	
	Filler Location	Behind left rear fender moulding	
Fuel Filter	Type	Screen	
	Location	In Fuel Tank	
Fuel pump	Type (elec. or mech.)	Mechanical	
	Location	Lower right front corner of engine	
	Pressure range	3.5 - 4.5 PSI	
	Vacuum booster (std., opt., none)	None	
Carburetor	Make	Rochester Products	
	Model number	7009657 (a)	
	Number used	One	
	Type	Downdraft, side inlet, other	Downdraft
		Single or dual	Single Barrel
	Intake manifold heat control (manual, auto., none)		Automatic
	Automatic choke type (integral, other)		Integral
	Air cleaner type	Standard	Oil Wetted
		Optional	Oil Bath

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single	
Muffler type (rev. flow, str. thru, sep.resonator)	Reverse Flow	
Exhaust pipe dia.	Branch	None
	Main	2.00 Outside Dia.
Tail pipe diameter	1.81 Inside Dia.	

(a) 7009656 with automatic transmission.

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ENGINE-COOLING SYSTEM

Type (pressure system, atmospheric, other)		Pressure	
Radiator cap relief valve press.		6.25 - 7.50 PSI	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at	160°F	
Water pump	Type (centrifugal, other)	Centrifugal	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
	Bearing type	Permanently lubricated, double row ball bearing	
By-pass recirculation type (internal, external)		Internal	
Radiator core type (cellular, tube and fin)		Cellular	
Cooling system capacity	With heater (qt.)	17	
	Without heater (qt.)	16	
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	1-3/4 x 16-1/2 (Approx.)
	Upper	Number and type (molded, straight)	One, Molded
		Inside diameter and length	1-1/2 x 5-1/4 (Approx.)
	By-pass	Number and type (molded, straight)	None
		Inside diameter and length	None
Drive belts	Fan	Number used	One
		Angle of V	37° - 44°
		Outside length	40.5 Pitch Length
		Width	.375
	Generator	Angle of V	37° - 44°
		Outside length	40.5 Pitch Length
		Width	.375
Fan	Number of blades and spacing	4 Staggered	
	Diameter	17.5	
	Ratio—fan to crankshaft revolutions	.949:1	
	Bearing type	Double row ball	

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco, 2SMR53-W
	Voltage Rtg. & Plates/cell		12-Volt - 9 Plate
	SAE Designation & Amp Hr. Rtg		2SM, 53 Amp. Hrs. @ 20 Hr. Rate
	Location		Front of engine compartment near radiator baffle
	Terminal grounded		Negative
Generator	Make		Delco-Remy
	Model		1100326
	Type		Two Brush Shunt Wound
	Ratio—Gen. to Cr/s rev.		2.31:1
Regulator	Make		Delco-Remy
	Model		1119000
	Type		Current and Voltage Control
	Cutout relay	Closing voltage @ generator rpm	12.8 @ 1300
		Reverse current to open	N. A.
	Regulated	Voltage	14.5
		Current	25
	Min. Gen. rpm required		(For max. output-hot) 2980
	Voltage test conditions	Temperature	Operating (Run Gen. 15 Min. @ 8-10 Amps. Before Testing)
		Load	10 Amp. Max.
Other		None	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy
	Model		1107652
	Rotation (drive end view)		Clockwise
	Engine cranking speed		N.A.
	Test conditions		Engine at Operating Temperature
	Lock test	Amps	N.A.
		Volts	N.A.
		Torque (lb. ft.)	N.A.
	No load test	Amps	75 (Max.)
		Volts	10.3
RPM (min.)		6900	
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Place shift lever in neutral and depress clutch. (a) Press accelerator once to floor to set automatic chcke, then release. Turn ignition key to extreme right position to start engine.

(a) - For automatic transmission, place selector lever in "P" (Park) or "N" (Neutral) position.

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor drive	Engagement type		Positive shift solenoid
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	168
Flywheel tooth face width		.4135	

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy
	Model		1115085
	Amps	Engine stopped	4
Engine idling		1.8	
Distributor	Make		Delco-Remy
	Model		1112403
	Spark advance data (at distributor shaft)	Centr. advance start (rpm)	300
		Centr. advance max. deg. @ rpm	13° @ 1750 RPM
		Vacuum advance start (in. Hg.)	9.0
		Vac. adv. (max. deg. @ in. Hg.)	7-1/2° @ 13 In. Hg.
	Breaker gap (in.)		.016 - .021
	Cam angle (deg.)		28° - 35°
Breaker arm tension (oz.)		19 - 23	
Timing	C/S deg. @ rpm		T.C. @ Idle
	Mark location		Flywheel
	Cylinder numbering system (see page 2)		From front to rear
	Firing order (see page 2)		1-5-3-6-2-4
Spark plug	Make and model		AC 44
	Thread (mm)		14
	Tightening torque (lb. ft.)		15-25 Ft. Lb.
	Gap		.033 - .038
Cable	Conductor type		Linen core impregnated with an electrical conducting material.
	Insulation type		Rubber with neoprene jacket
	Spark plug protector		Plastic

ELECTRICAL—SUPPRESSION

Description	Non-metallic high tension cables
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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Tell-Tale Light
Temperature indicator—type		Electrical
Oil pressure indicator—type		Tell-Tale Light
Fuel indicator—type		Electric Indicator
Ignition switch	Identify positions in order and circuits controlled	Vertical-----Off, unlocked Counter Clockwise-----Off, locked 1st Pos. Clockwise from vert.--Ignition and accessories on 2nd Pos. Clockwise from vert.--Ignition and starter on 1st spring return to 1st position
	Provision for illumination	Light from fuel gauge illuminates ignition lock
	Location	On instrument panel to right of steering column
	Theft protection type	None
Main light-ing switch	Identify positions and lights controlled	Depressed - Off 1st Notch - Instr. panel lights, parking lights. 2nd Notch - Instr. panel lights, driving lights. Rotate clockwise to dim and turn off instrument panel lights; counter clockwise to turn on and brighten panel and turn on dome light.
Other light switches	Locations and lamps controlled	Toe Panel-----Headlight Dimmer Glove Compartment-----Glove Compartment Lamp (a) Front Door Hinge Pillars-----Dome Lamp (b) Steering Column-----Turn Signal Lamps On Brace below Instr. Panel---Stop Lamps Lower end shift mechanism-----Back-up Lamps (d)
Other switches	Locations and devices controlled	On Accelerator Linkage-----Overdrive lock-out switch Instrument Panel-----Heater & blower switch Door Panels-----Power windows (e) Front Seat Left Lower Panel---Power seats (e) Instrument Panel-----Electric windshield wipers (e) Instrument Panel-----Radio on-off switch (d)
Windshield wiper	Make	Trico
	Type	Vacuum (c)
	Vacuum booster provision	None
	Washer provision	Dealer installed accessory
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	High 9, Low 10

- (a) - Except 1500 Series.
- (b) - On 2100 series; on all doors on 2400 series vehicles.
- (c) - Electric windshield wiper available as a regular production option.
- (d) - Dealer installed accessory.
- (e) - Available as regular production option.

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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-T3-5400
Headlamp beam indicator	1-53
Parking light	2-1034 (Combination parking & directional signal lamp)
Tail light	2-1034 (Combination tail, stop & directional signal lamp)
Stop light	(See "tail light")
Direction indicator	Front (See "parking light")
	Rear (See "tail light")
	Tell-Tale 2-57
License plate light	2-67 on Sedan Delivery & Station Wagons; 1-67, all others
Instrument light	4-57
Ignition lock light	Illuminated by Instr. Panel Lights
Map light	None
Dome light	1-1004
Clock light	1-57 * (Reg. Prod. on 2400 Series)
Radio dial light	1-GE 1891 *
Glove compartment light	1-57 (Reg. Prod. on 2100-2400 Series accessory on 1500 Series)
Courtesy light	2-89 * (Reg. Prod. on model 2434 only)
Trunk compartment light	1-93 *
Other	Back-up - (2-1073*); Cigarette Lighter (1-53*); Compass - (1-53*); Oil pressure Tell-tale (1-57); Parking brake alarm - (1-57*); Portable spot Lamp - (1-4416*); Underhood lamp - (1-93*) & Spot Lamp - (1-4405*); Generator Tell-tale (1-57)

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 the 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	13 CB (d)
Headlamp beam indicator	None
Parking light	Same as (d)
Tail light	SFE - 9 (e)
Stop light	Same as (e)
Direction indicator	SFE - 6 (g)
License plate light	Same as (e)
Instrument light	AGA-3 Fuse (f)
Ignition light	None-Illuminated by Instrument Panel Lights
Map light	None
Dome light	Same as (e)
Clock	Same as (e)
Clock light	AGA-3 Fuse
Radio	SFE-7-1/2
Glove compartment light	Same as (f)
Courtesy light	Same as (e)
Trunk compartment light	Same as (e)
Other	Auto compass (e); Oil pressure tell tale (g); Battery charging ind. (e); Heater & defroster, SFE 10; Back-up, SFE 9; underhood - SFE 9; Spot lamp, SFE 9 or SFE 14; Parking brake alarm, SFE 9; Front seat adjuster & window lifters, 40 amp circuit breaker; overdrive solenoid, SFE 9; air cond. evap. motor, SFE 20; Radio antenna SFE-15.

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DRIVE UNITS—CLUTCH (PEDAL OPERATED)

Make		Own	
Type (dry or wet plate)		Dry	
In combination with fluid coupling (yes, no)		No	
Semi-centrifugal (yes, no)		No	
Type pressure plate springs		Diaphragm	
Total plate pressure (lb.)		1425 - 1600	
No. of clutch driven discs		One	
Clutch facing	Material	Molded or Woven Asbestos Composition	
	Inside diameter	6.0 (a)	
	Outside diameter	9.5 (a)	
	Total s.f. area (sq. in.)	85.22 (a)	
	Thickness	.122 - .128	
	Number required	Two	
	Engagement cushioning method	Spring	
	Release bearing	Type	Ball Bearing
		Method of lubrication	Sealed
	Torsional damping	Method (springs, other)	Springs at Hub
Frict. mat.		None	

DRIVE UNITS—TRANSMISSIONS

Conventional (std. or opt.)	Standard (b)
Conventional with overdrive (std. or opt.)	Optional
Automatic (std. or opt.)	Optional

DRIVE UNITS—CONVENTIONAL TRANSMISSION

Number of forward speeds		3
Transmission ratios	In first	2.94:1
	In second	1.68:1
	In third	1.00:1
	In fourth	None
	In reverse	2.94:1
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

- (a) - 6.5 I.D. x 11.0 O.D., 123.7 Sq. In. Optional
 (b) 4 Speed Transmission available as Heavy Duty operation equipment

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DRIVE UNITS—CONVENTIONAL TRANSMISSION (cont.)

Lubricant	Capacity (pt.)		2
	Type recommended		A-9 Mineral Oil
	SAE viscosity number	Summer	SAE 90
		Winter	SAE 90
		SAE 80	

DRIVE UNITS—CONVENTIONAL TRANSMISSION WITH OVERDRIVE

For transmission data see conventional transmission section

Overdrive	Type (planetary or other)		Planetary	
	If planetary, No. of pinions		3	
	Manual lockout (yes, no)		Yes	
	Downshift accelerator control (yes, no)		Yes	
	Minimum cut-in speed		27 MPH	
	Gear ratio		0.70:1	
	Lubricant	Capacity (O.D. only)		1 Pint
		Separate filter (yes, no)		No
		Type recommended		A-9 Mineral Oil
		SAE viscosity number	Summer	SAE 90
Winter	SAE 90			
		SAE 80		

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Powerglide
Type (fluid coupling with gears, torque converter with gears, other)	Torque converter with planetary 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)	Drive 3.82-1:1 Low 3.82-1.82:1 Reverse 1.82:1
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)	50

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DRIVE UNITS—AUTOMATIC TRANSMISSION (cont.)

Torque convertor	Number of elements		3	
	Max. ratio at stall at engine rpm		2.1:1	
	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)		Plate type oil cooler		
Anti-creep device (yes, no)		No		
Lubricant	Capacity—refill (pt.)		Capacity 22 Pts.; Refill, 10 Pts.	
	Type recommended		Type A	
	Grade	Summer	Same grade in all temperature ranges	
		Winter		
Extreme cold				

DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (exposed, torque tube)		Exposed
Outer diameter x length* x wall thickness	Conventional trans.	3.000 x 53.90 x .065
	Overdrive trans.	Same as above
	Automatic trans.	Same as above
Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubri. (fitting, prepack)	None
Universal joints	Make	
	Own	
	Number used	
	2	
Type (ball and trunnion, cross, other)		Yoke and Spider (Trunnion)
Bearing	Type (plain, anti-friction)	Anti-Friction
	Lubric. (fitting, prepack)	Pre-Pack
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 (d)	Conventional trans.	3.55:1 (9-32) (c)
	Overdrive trans.	4.11:1 (9-37) (c)
	Automatic trans.	3.36:1 (11-37) (c)
Pinion adjustment (shim, other)		Shim
Pinion bearing adj. (shim, other)		None
Capacity (pt.)		4 Pts.
Type recommended		A-9 Hypoid lubricant
Lubricant	SAE viscosity number	SAE 90
	Summer	SAE 90
	Winter	SAE 90
Extreme-cold		SAE 90

DRIVE UNITS—WHEELS

Type (disc, other)		Disc
Rim (size and flange type)		14 x 5J (Modified)
Attachment	Type (bolt or stud)	Bolt
	Circle diameter	4.75
	Number and size	5, 7/16-20

DRIVE UNITS—TIRES

Size and ply rating	Standard	7.50-14-4 Ply Tubeless blackwall
	Optional	(a)
Rev./mile at 30 mph		78 1/2
Inflation press. (cold)	Front	22 lb.
	Rear	22 lb.

BRAKES—SERVICE

Type		Servo - 4 Wheel hydraulic
Booster type		Vacuum assisted hydraulic unit with integral master cyl. (b)
Effective area (sq. in.)		157
Percent brake effectiveness—rear		44%
Drum	Diameter	11
	Front	11
	Rear	11
Type and material		Composite, rim cast alloy iron; Web-pressed steel

- (a) - 7.50-14-4 Ply tubeless whitewall, 7.50-14-6 Ply tubeless blackwall or whitewall.
 (b) - Available as a regular production option.
 (c) - These ratios also available with optional "Positraction" (Limited Slip) differential
 (d) - Heavy duty operation equipment available in the following ratios:
 3.55:1 (9-32), 3.70:1 (10-37), 3.90:1 (10-39), 4.11:1 (9-37), 4.56:1 (9-41), 4.89:1 (9-44), 5.14:1 (7-36), 5.57:1 (7-39), 5.83:1 (6-35), 6.33:1 (6-38), 3.89:1 (9-35).

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BRAKES—SERVICE (cont.)

	Bonded or riveted		Bonded	
	Brake lining	Primary	Material	Full molded asbestos composition
Size (length x width x thickness)			Front wheel	9.29 x 2.0 x .175
			Rear wheel	9.29 x 1.75 x .175
Segments per shoe		One		
Secondary		Material	Full molded asbestos composition	
		Size (length x width x thickness)	Front wheel	11.69 x 2.0 x .175
	Rear wheel		11.69 x 1.75 x .175	
Segments per shoe		One		
Wheel cylinder bore	Front	1.125		
	Rear	1.00		
Master cylinder bore		1.00		
Available pedal travel		6.38		
Line pressure at 100 lb. pedal load		160 (actual)		
Shoe clearance adjustment		Adjust to light drag and backoff 7 notches		

BRAKES—PARKING

Type of control		T-Handle
Location of control		Under instrument panel, left of steering column
Operates on		Rear service brakes
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	Welded box girder frame with channel type cross members.
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FRONT SUSPENSION

Type and description	Independent, short and long arm spherical joint outer pivots, rubber bushed inner pivots, coil springs.
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FRONT SUSPENSION (cont.)

	Type	Coil
	Material	High Alloy Steel
Spring	Size (length x width x No. leaves or coil I.D.)	15.16 x 3.602 I.D.
	Spring rate (lb. per in.)	311
	Rate at wheel (lb. per in.)	109
	Normal load (lb. @ rated length)	1710 @ 9.69
Shock absorbers	Manufacturer	Delco
	Type (direct or lever)	Direct
	Piston diameter	1.0
Stabilizer	Type (link, linkless, frameless)	None
	Material	None

STEERING

Type used (Standard or optional)	Mechanical	Standard	
	Power	Optional	
Wheel diameter		18 In.	
Turning diameter	Outside front	Wall to wall (r. & l.)	11.5 Ft.
		Curb to curb (r. & l.)	11.5 Ft.
	inside rear	Wall to wall (r. & l.)	22.0 Ft.
		Curb to curb (r. & l.)	24.0 Ft.
Inside wheel angle with outside wheel at 20°		22° - 26°	

Mechanical	Gear	Type	Semi-reversible, recirculating ball	
		Make	Saginaw	
		Ratios	Gear	20:1
			Overall	25.7:1
No. wheel turns		5.34		

Power	Type	Hydraulic		
	Make	Saginaw		
	Trade name	None		
	Gear	Type	Semi-reversible recirculating ball	
		Ratios	Gear	20:1
			Overall	23.3:1 21:1
	Pump driven by		Extension of generator shaft	
Overall torque ratio		N.A.		
Number wheel turns		5.34		

Linkage	Type	Relay Link
	Location (front or rear of wheels)	Rear
	Drag link (trans. or long)	
	Tie rods (one or two)	Longitudinal - Two

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STEERING (cont.)

Kingpin	Inclination of camber (deg.)		3-1/2° - 4-1/2° (a)	
	Diameter (spher. joint)		Upper 1.306; Lower 1.248	
	Bearings (type)	Upper		Spherical Joint
		Lower		Spherical Joint
	Thrust		None	
Wheel alignment (range and preferred)	Castor (deg.)		+ 1/2° to + 1-1/2°	
	Camber (deg.)		0° to 1°	
	Toe-in (outside tread-inches)		1/8 to 3/16	
Steering knuckle type			Reverse Elliot in combination with spherical joints	
Wheel spindle	Diameter	Inner bearing	1.2490 - 1.2495	
		Outer bearing	.7490 - .7495	
	Thread size		3/4-20	
	Bearing type		Ball	

REAR SUSPENSION

Type			Longitudinal		
Drive and torq. taken through (see page 14)			Rear Springs		
Spring	Type		Semi-Elliptic		
	Material		High alloy steel		
	Size (length x width x No. leaves or coil I.D.)		58 x 2 x 4		
	Spring rate (lb. per in.)		112		
	Rate at wheel (lb. per in.)		N.A.		
	Normal load (lb. at rated length)		1050		
	Mounting insulation type			Spring Seat	
	If leaf	No. of leaves	-	4	
		Covers (yes, no)		No	
		Lubricated (yes, no)		No	
		Inserts	Type and size		Leaf Tip, 2.50 x 2.00 x .163
			Material		Nylon
Shackle (comp. or tens.)			Compression		
Shock absorbers	Manufacturer		Dalco		
	Type (direct or lever)		Direct		
	Piston diameter		1.0		
Stabilizer	Type (link, linkless, frameless)		None		
	Material		None		
Track bar type			None		

(a) - Inclination of steering axis.

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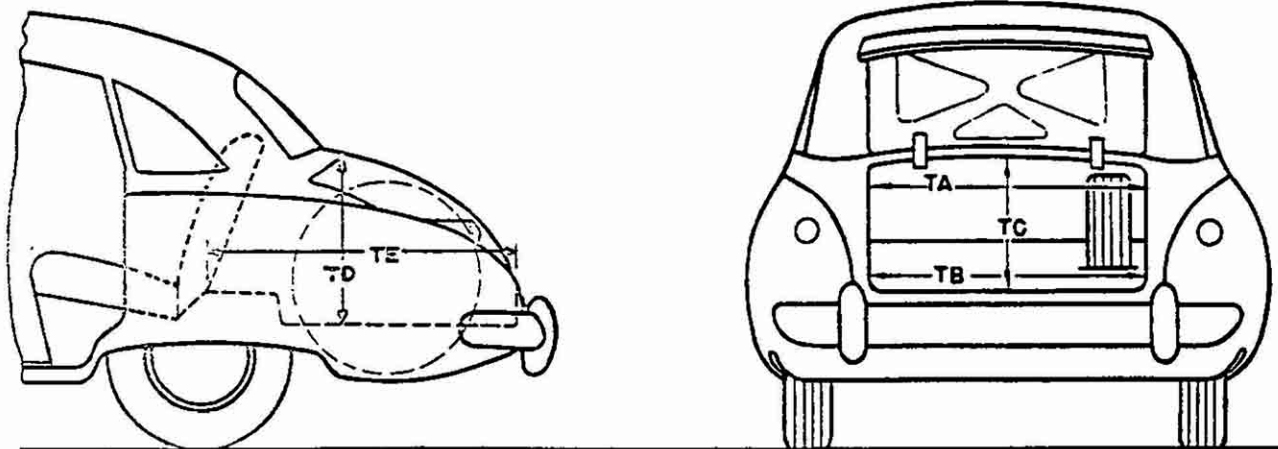
BODY—GENERAL DEFINITIONS

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	49.8
TB—Width across the bottom	49.0
TC—Diagonal dimension at CL from top of opening to bottom	N.A.
TD—Vertical height of opening (floor to top, inside edge of opening)	20.0
TE—Max. horizontal depth (forward from vertical projection of inside edge of opening)	19.0
Position of spare tire stowage	Upright in trunk, right hand side
Method of holding lid open	Torsion Rods

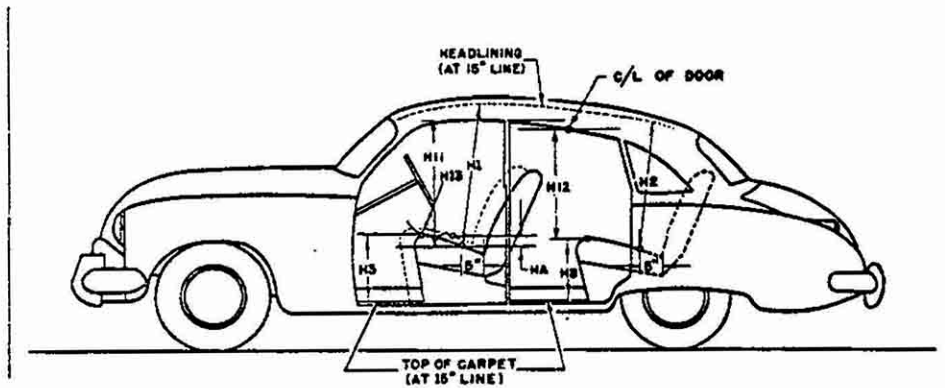
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BODY—HEIGHT DIMENSIONS—INTERIOR



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.	35.6
H3. Front seat height to floor carpet on 15° line (front edge of cushion).	13.1
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.	29.5
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.	6.1
HA. Front seat vertical rise at "A" pt. (inches.)	.7

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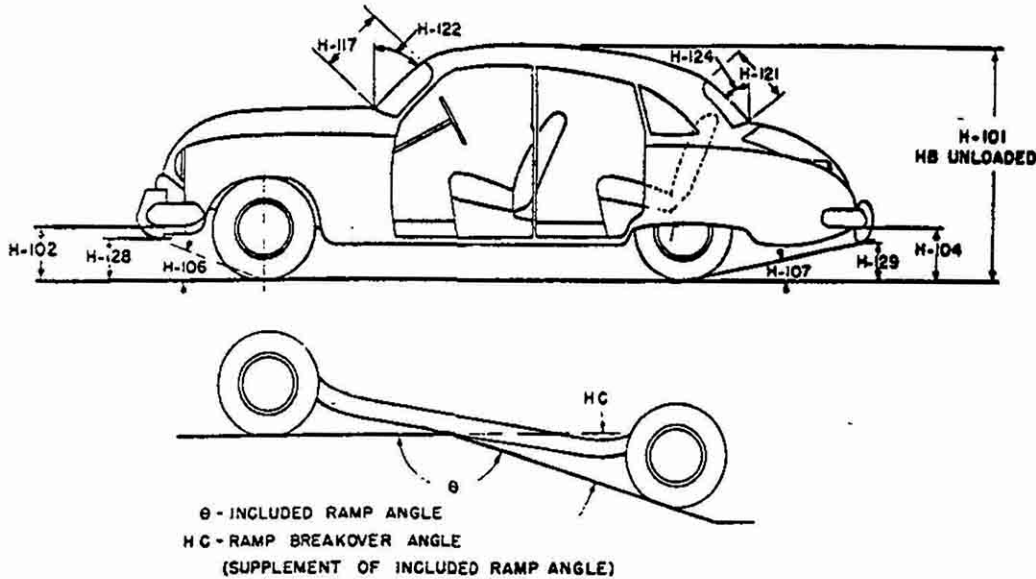
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BODY—HEIGHT DIMENSIONS—EXTERIOR



H101. Overall height.		59.9
HB. Overall height—unloaded.		61.5
H102. Front bumper bottom to ground at normal section.		10.6
H104. Rear bumper bottom to ground at normal section.		9.6
H105. Angle of approach—from the tire rolling radius to lowest point on front bumper or guard.		20° 50'
H107. Angle of departure—from the tire rolling radius to lowest point on rear bumper or guard.		12° 0'
HC. Ramp breakover angle.*		110 5/11
H117. Windshield DLO—slant height.		18.5
H121. Backlight DLO*—Max., slant height.		18.5
H122. Windshield slope angle to vertical line on car axis.		41° 55'
H124. Backlight slope angle to vertical line on car axis.		44°
H128. Ground to bottom of front bumper guard.	N.A., Bumper guard integral with bumper	
H129. Ground to bottom of rear bumper guard.	N.A., Bumper guard integral with bumper	
HD. Min. road clearance (location and dimension).	Exhaust pipe to ground 5.92	
HE. Min. road clearance at rear axle.		7.6

*See Notes, page 19.

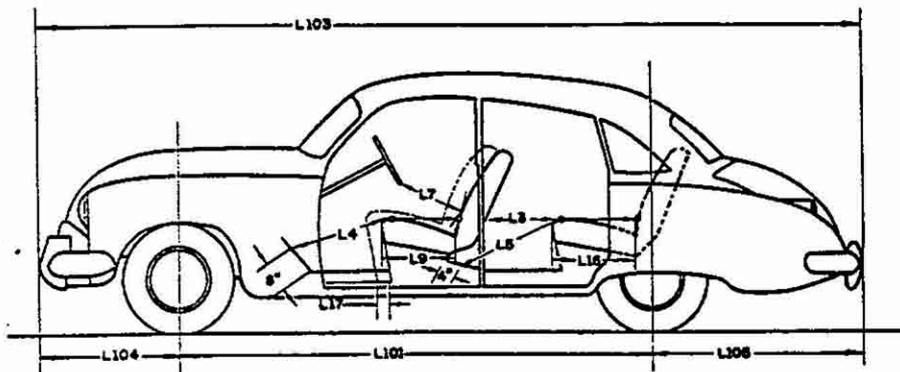
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BODY—LENGTH DIMENSIONS



	L12. Rear compartment back of front seat back to rear seat back.	28.6
	L14. Leg room—front—diagonal—ball of foot to top of seat to front seat back—15° line.	44.4
	L15. Leg room—rear—diagonal—from ball of foot to top of rear seat cushion and to seat back.	39.8
Interior	L17. Steering wheel clearance to seat back taken on arc.	14.8
	L19. Front seat depth (front edge to vert. tan. to seat back on 15° line).	18.2
	L16. Depth of rear seat (front edge to seat back).	17.9
	L17. Total adjustment of front seat at floor.	4.4
	L101. Wheel base.	115.0
	L103. Overall length (bumper to bumper inc. guards).	200.0
Exterior	L104. Overhang—front including bumper guards.	32.5
	L105. Overhang—rear including bumper guards.	52.5

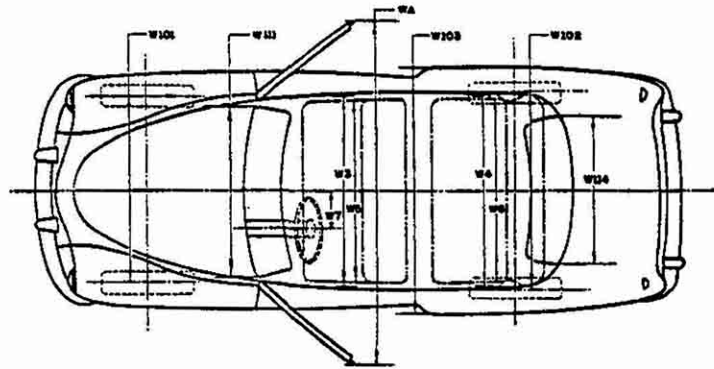
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BODY—WIDTH DIMENSIONS



	W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	56.9
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	56.4
Inter-	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	62.1
rior	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	62.9
	W7. Steering wheel center to center of body.	15.6
	W101. Front tread at ground.	58.0
	W102. Rear tread at ground.	58.8
Exte-	W103. Max. overall width of car including bumpers or mouldings.	73.9
rior	WA. Max. overall width of car with doors open.	140.1
	W111. Windshield DLO, max. width.	59.2
	W114. Back window DLO, max. width.	58.4

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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		1144.9
Backlight glass area		1127.2
Total glass area		3916.2

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)	Series 1500 (One-Fifty)	Series 2100 (Two-Ten)	Series 2400 (Bel Air)
	D-6	D-6	D-6
	G-6	G-6	G-6
	S-2	P-6 (Townsmen)	P-6 (Townsmen)
	Q-6	K-6	K-6
	N-6 (Handyman)	P-9 (Beauville)	N-6 (Nomad)
		B-6 (Delray)	L-5
		N-6 (Handyman)	J-6
		J-6	

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