

AUTOMOBILE MANUFACTURERS ASSOCIATION CONSOLIDATED SPECIFICATION QUESTIONNAIRE

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MAKE OF CAR: Oldsmobile		MODEL NAME	SYMBOL
COMPANY: Oldsmobile Division General Motors Corporation Lansing 21, Michigan		"98" Super "88" Deluxe "88"	
MODEL YEAR: 1953	DATE 1-1-53		

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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		Deluxe "88"	"Super 88"	"98"
Wheelbase		120	120	124
Tread	Front	59	59	59
	Rear	59	59	59
Maximum Overall Dimensions	Length (L-103)	204	204	215
	Width (W-103)	76.94	76.94	76.94
	Height (H-101)	63.63	63.63	63.63
Steering ratio—overall		27.5:1	27.5:1	27.5:1
Turning diameter (curb to curb)		42.5	42.5	43.0
Shipping weight*		3667	3704	3815
Transmission— (Specify standard, optional, not avail.)	Conventional	Std.	Std.	Std.
	Overdrive	N.A.	N.A.	N.A.
	Automatic	Opt.	Opt.	Opt.
Axle ratio—	Conventional	3.64	3.64	3.64
	Overdrive			
	Automatic	3.23	3.23	3.42
Tire size		7.60 x 15	7.60 x 15	7.60 x 15
Engine	Type	90°V	90°V	90°V
	No. of cylinders	8	8	8
	Valve arrangement	Valve in Head	Valve in Head	Valve in Head
	Bore and stroke	3 3/4 x 3 7/16	3 3/4 x 3 7/16	3 3/4 x 3 7/16
	Piston displacement, cu. in.	303.73	303.73	303.73
	Standard compression ratio	8:1	8:1	8:1
	Maximum bhp at engine rpm	150 at 3600	165 at 3600	165 at 3600
Maximum torque at rpm		280 at 1800	284 at 1800	284 at 1800

*Standard car weight, not including gas and water.

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MODEL	Deluxe "88"	Super "88"	"98"

ENGINE—GENERAL

Type	V, In-line, other	V		
	Angle of V	90°		
No. of cylinders		8		
Valve arrangement		Valve in Head		
Bore and stroke		3 3/4 x 3 7/16		
Piston displacement, cu. in.		303.73		
Numbering system (front to rear)	L. Bank	1-3-5-7		
	R. Bank	2-4-6-8		
Firing order		1-8-7-3-6-5-4-2		
Compression ratio	Standard Head	8.0:1	8.0:1	8.0:1
	Optional Head			
Cylinders	Head Material	Cast Iron		
	Standard Optional			
	Sleeve—Wet, dry, other, none	None		
Number of mounting points	Front	One		
	Rear	Two		
Taxable horsepower	(Dia. ² x No. Cyl.) 2.5	45	45	45
Advertised max. brake horsepower at engine RPM*	Standard head	150 at 3600	165 at 3600	165 at 3600
	Optional head			
	With fuel (Octane and method)	92	92	92
	Standard Head Optional Head		Research Method	
Max. torque (lb. ft. @ RPM)	Standard head	280 at 1800	284 at 1800	284 at 1800
	Optional head			
Recommended idle speed (neutral)		STD. - 425	Hydra-Matic (In Drive 375)	

ENGINE—PISTONS

Material	Aluminum Alloy			
Description and finish	Auto-Thermic, Cam			
	Grind, Tin Plate			
	Steel Strut			
Weight (piston only) oz.	1.263 #			
Clearance	Top land	.032 to .026		
	Skirt	Top	.0005 to .0015	
		Bottom	.0005 to .0010	
Ring groove depth	No. 1 ring	Compression - .200		
	No. 2 ring	Compression - .200		
	No. 3 ring	Oil .193		
	No. 4 ring			

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

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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.	
No. rings above piston pin		3
Compression	Material	Cast Iron
	Coating	Upper Ring - Chrome Glash O.D. Lower Ring - P.C. Lubrite, S.P. Granoseal
	Width	.077 - .078
	Gap	Sealed Pow..008-.016 Perfect Circle .010-.020
	Maximum wall thickness	.187
Oil	Material	Cast Iron
	Coating	None
	Width	.1860 - .1865
	Gap	Sealed Pow..008-.016 Perfect Circle .010-.020
	Maximum wall thickness	.155
Location of expanders		Oil Ring

ENGINE—PISTON PINS

Material		SAE #1117 Steel (Modified)
Length		3.006 - 3.026
Diameter		.9803 - .9807
Type	Locked in rod, in piston, floating, etc.	Full Floating
	Bushing	Rod
		Material
Clearance	In piston	.0000 to .0002 Loose
	In rod	.0005 to .0003
Direction offset in piston		R.H. of Cyl. Bore Centerline

ENGINE—CONNECTING RODS

Material		GM X-1335 Modified
Weight (oz.)		29.54
Length (center to center)		6.625
Bearing	Material	Durex 100-A with GM 4167-M Babbit Overlay-Steel Backed
	Type (cast-in or removable)	Removable
	Effective length	.876-.886
	Clearance	.0009 to .0029
	End play	(.004-.009 Preferred) .002 - .011 (2 rods per crankpin)

ENGINE—CRANKSHAFT

Material	SAE 1145 Steel (Modified)
Weight (lb.)	65.5#

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ENGINE—CRANKSHAFT (cont.)

Vibration damper type		No	Yes	Yes
End thrust taken by bearing (No.)		Rear		
Crankshaft end play		.004 to .008		
Main bearing	Material	Steel Backed Durex 100-A with GM 4167-M Babbit Overlay		
	Type (cast-in or removable)	Slip In (Removable from Below)		
	Clearance	.0005 to .0030 Except Rear; Rear Only .002 - .0035		
	Journal dia. and bearing effective length	No. 1	2 1/2 x 1 3/32	
		No. 2	2 1/2 x 1 1/8	
		No. 3	2 1/2 x 1 1/8	
		No. 4	2 1/2 x 1 1/8	
		No. 5	2 1/2 x 1 1/8	
		No. 6	2 5/8 x 1.880	
		No. 7		
Direction offset from cyl. bore		None		
Connecting rod crankpin journal diameter		2 1/4		

ENGINE—CAMSHAFT

Material	Cast Iron		
Bearings	Material	Steel backed babbit or Cu, lead, bronze	
	Number	5	
Type of drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	S.A.E. 1140 Steel - Link Belt C-1117 or 1118 Steel - Morse	
	Camshaft gear or sprocket material	Cast Iron - Link Belt Cast Iron - Morse	
	Timing chain	Make	Link Belt - Morse Optional
		No. of links	48 L.B. - 64 Morse
		Width	27/32 Link Belt - 7/8 Morse
		Pitch	.500 Link Belt - .375 Morse

ENGINE—VALVE SYSTEM

Hydraulic lifters (yes, no)	Yes		
Special provision for valve rotation (intake, exhaust)	No		
Rocker ratio	1.8 to 1		
Operating tappet clearance (indicate hot or cold)	Intake	None	
	Exhaust	None	
Tappet clearance for timing	Intake	Open - .0029; Close - .0049	
	Exhaust	Open - .0029; Close - .0049	
Timing marks on fly-wheel, damper, other	Crankshaft Pulley	Crankshaft Balancer	Crankshaft Balancer

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MODEL Deluxe "88" Super 88 98

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	13 1/2
		Closes (°ABC)	50 1/2
	Exhaust	Opens (°BBC)	49 1/2
		Closes (°ATC)	14 1/2
Intake	Material		S.A.E. 3140 Steel & SAE 8645 Steel
	Overall length		4.917
	Actual overall head dia.		1 3/4
	Angle of seat		45°
	Seat insert material		None
	Stem diameter		.3425 - .3417
	Stem to guide clearance		.0022 to .0042
	Lift		.366
	Outer spring press. and length	Valve closed (lb. @ in.)	90# @ 1.829"
		Valve open (lb. @ in.)	156# @ 1.463"
	Inner spring press. and length	Valve closed (lb. @ in.)	None
		Valve open (lb. @ in.)	None
Exhaust	Material		Thompson Sil. XCR; Eaton Sil. XCR Head & SAE 8645 STEM
	Overall length		4.941
	Actual overall head dia.		1 7/16
	Angle of seat		45°
	Seat insert material		None
	Stem diameter		.3938 - .3930
	Stem to guide clearance		.0027 to .0045
	Lift		.366
	Outer spring press. and length	Valve closed (lb. @ in.)	90 # @ 1.829
		Valve open (lb. @ in.)	156 # @ 1.463
	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	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Pressure
	Cylinder walls	Pressure

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ mph)	35-45# at 50 M.P.H.
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.)	5 Quarts
Oil grade recommended (SAE viscosity and temperature range)	Not Lower Than 300°F SAE 20 or 20W As Low as 100°F SAE 20W As Low as - 100°F SAE 10W Lower Than - 100°F SAE 5 W
Oil type recommended	Heavy Duty

ENGINE—FUEL SYSTEM

ENGINE—FUEL SYSTEM				Premium	
Recommended fuel	Standard head		Premium		
	Optional head				
Fuel tank, capacity (gal.)			18		
Fuel pump	Type (elec. or mech.)		Mechanical		
	Location		Engine Front Cover		
	Pressure range		4# to 5# at 16" above outlet at 1800 RPM		
	Vacuum booster (std., optl., none)		Std.		
Carburetor	Make		Carter	Rochester	& Carter
	Model number		WGD	4 GC	WCFB
	Number used		One		
	Type	Downdraft, side inlet, other	Downdraft		
		Single or dual	Dual	Quad	Quad
	Intake manifold heat control (manual, auto., none)		Automatic		
	Automatic choke type (integral, other)		Integral		
	Air cleaner type	Standard	Dry		
		Optional	Oil Bath		

ENGINE—EXHAUST SYSTEM

Muffler type (reverse flow, straight through)	Reverse Flow
Exhaust pipe diameter	2
Tail pipe diameter	2

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ENGINE—COOLING SYSTEM

Type (pressure system, atmospheric, other)		Pressure System		
Radiator cap relief valve press.		7#		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at	153° - 157°		
Water pump	Type (centrifugal, other)	Centrifugal		
	Number of pumps	One		
	Drive (V-belt, other)	V-Belt		
	Bearing type	Ball Bearing		
By-pass recirculation type (internal, external)		Internal		
Radiator core type (cellular, tube and fin)		Cellular Round "V" Type		
Cooling system capacity	With heater (qt.)	22.5		
	Without heater (qt.)	21.5		
Water jackets full length of cylinder (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator hose	Lower	Number and type (molded, straight)	S.A.E. - Part IV Class RS or RN Cooland Hose One-Molded	
		Inside diameter and length	1 3/4 x 14.5	
	Upper	Number and type (molded, straight)	S.A.E. Part IV Class KS One - Molded	
		Inside diameter and length	1 1/2 Diam. - 11.80 length	
	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			57 7/16	
Width			.380	
Gener-ator		Angle of V	None	
		Outside length	None	
		Width	None	
Fan	Number of blades and spacing	Four -- 76° & 104°		
	Diameter	21		
	Ratio—fan to crankshaft revolutions	.815 to 1		
	Bearing type	Ball		

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 3EE70	
	Voltage Rtg. & Plates/cell		12 Volts - 11 Plates	
	SAE Designation & Amp Hr. Rtg		----- - 70 Amp. Hr. RTG.	
	Location		UnderHood Left Side	
Generator	Terminal grounded		Negative	
	Make		Delco-Remy	
	Model		1102003	
	Type		Shunt	
Regulator	Ratio—Gen. to Cr/s rev.		2.24:1	
	Make		Delco-Remy	
	Model		1118750	
	Type		Current & Voltage Control	
	Cutout relay	Closing voltage @ generator rpm	11.8 - 13.6	Adj. 12.8
		Reverse current to open	0 TO - 4	
	Regu-lated	Voltage	14.2 - 14.8	Adj. 14.5
		Current	27-33	Adj. 30.0
	Min. Gen. rpm required		2400	
	Voltage test con-ditions	Temperature	Hot	
		Load	8-10 Amp.	
		Other		

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy	
	Model		1107603	
	Rotation (drive end view)		Clockwise	
	Engine cranking speed		Summer 150 R.P.M.	
	Test conditions		S.A.E. 20 with engine completely warm	
	Lock test	Amps	460	
		Volts	5.2	
		Torque (lb. ft.)	11.5	
	No load test	Amps	75 Max.	
		Volts	10.3	
RPM (min.)		6500		
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		Turn Ignition Key to Right Against Spring	

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MODEL Deluxe "88" Super 88 98

ELECTRICAL—STARTING SYSTEM (cont.)

Motor drive	Engagement type		Sliding Gear, Overrunning Clutch	
	Pinion meshes (front, rear)		Front	
	Number of teeth	Pinion	9	
		Flywheel	145	
Flywheel tooth face width		.490 - .510		

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy	
	Model		1115082	
	Amps	Engine stopped	4/5 (With Resistor)	
		Engine idling	2.0 (With Resistor)	
Distributor	Make		Delco Remy	
	Model		1110824	
	Spark advance data (at distributor-shaft) Crankft.	Centr. advance start (rpm)	650	
		Centr. advance max. deg. @ rpm	30° at 3000 R.P.M.	
		Vacuum advance start (in. Hg.)	4 1/2" to 6 1/2"	
		Vac. adv. (max. deg. @ in. Hg.)	20° at 19" to 21"	
	Breaker gap (in.)		.016"	
	Cam angle (deg.)		26° to 33°	
	Breaker arm tension (oz.)		19 to 23	
	Timing	C/S deg. @ rpm		2 1/2° BTC at idle
Mark location		Crankshaft Pulley Slot & Pointer on Left Front		
Cylinder numbering system (see page 2)		Left Bank 1-3-5-7 Eng. Cover. Right Bank 2-4-6-8		
Firing order (see page 2)		1-8-7-3-6-5-4-2		
Spark plug	Make and model		AC - 46-5	
	Thread (mm)		14	
	Tightening torque (lb. ft.)		23-28	
	Gap		.030	
Cable	Conductor type		Stranded Copper	
	Insulation type		Neoprene	
	Spark plug protector		Silicone Sleeve	

ELECTRICAL—SUPPRESSION

Description	Rotor Suppressed			
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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	AC	
	Trip odometer (yes, no)	No	
Charge indicator—type		Ammeter (Shunt)	
Temperature indicator—type		Electrical	
Oil pressure indicator—type		Pressure, Mechanical	
Fuel indicator—type		Electrical	
Ignition switch	Identify positions in order and circuits controlled	Vertical - Off Turn Key to Right - All Circuits on Left - Accessories Only Far Right Against Spring - Starter	
	Provision for illumination	Yes Light at Switch	
	Location	To Right of Steering Column	
	Theft protection type		
Main light-ing switch	Identify positions and lights controlled	Pull out to first position - Parking Lamp Pull Out Full - Headlamps Rotate Switch - Controls Dash Lamp Brightness * Dome Lamp Circuit controlled by Light Switch on Convertible Cars	
Other light switches	Locations and lamps controlled	RH 7 LH Front Door Pillar Post Switches control Dome Lamp Switch at Dome Light in Car Roof controls Dome Lamp	98 4-Door has Door Switches on all Doors controlling Dome Lights. Pillar SW on 98 Lts 4-dr controls Dome/
Other switches	Locations and de-vices controlled	Turn Signal - Steering Column - Front Lamps, and Rear Stop Lamps Stop Lt. on Toe Pan Below Brake Pedal-Rear Stop Lamps-Mechanical Safety Switch on Steering Column--interrupts started circuit with car in gear. Heater SW turn type - on panel. For Heat-HI Right, LO Left. For Defrost - Pull Out. Glove Box Lt. SW Right Side of Glove Box	
Windshield wiper	Make	Trico	
	Type	Vacuum	
	Vacuum booster provision	Standard	
	Washer provision	Yes	
Horn	Type	Vibrator	
	Number used	2	
	Amp draw (each)	19-21	

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MODEL DeLuxe "88" Super 88 98

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		2-4430	2-4430
Headlamp beam indicator		1-53	1-53
Parking light		2-67	2-67
Tail light		2-1034	2-1034
Stop light		2-1034	2-1034
Direction indicator	Front	2-1034	2-57
	Rear	2-1034	2-57
	Tell-Tale	2-57	2-57
License plate light		1-67	1-67
Instrument light		3-57	3-57
Ignition lock light		1-57	1-57
Map light			
Dome light		1-94	2-90
Clock light		1-57*	1-57
Radio dial light		1-57*	1-57*
Glove compartment light		1-57*	1-57*
Courtesy light		2-90*	2-90*
Trunk compartment light		1-89*	1-89*
Other			
Underhood		1-89*	1-89*
Brake Indicator		1-57*	1-57*
Ash Tray		2-53	2-53.
* Optional Equipment			

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	25CB (A)	
Headlamp beam indicator	25CB (A)	
Parking light	25CB (A)	
Tail light	25CB (B)	
Stop light	SFE14 (C)	
Direction indicator	SFE9	
License plate light	25CB (B)	
Instrument light	25CB (A)	
Ignition light	25CB (A)	
Map light	SFE14 (D)	
Dome light	SFE14 (C)	SFE20
Clock	SFE2	
Clock light	25CB (A)	
Radio	SFE7.5	
Glove compartment light	SFE4 (D)	
Courtesy light	SFE14 (C)	
Trunk compartment light	25CB (B)	
Other		
Underhood	SFE4	
Brake Indicator	SFE4	
Cigar Lighter	SFE20	
Ammeter	SFE9	
Instrument Feed	SFE9	

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MODEL

Deluxe "88"

Super 88

98

DRIVE UNITS—CLUTCH (PEDAL OPERATED)

Make		Long Mfg.
Type (dry or wet plate)		Dry
In combination with fluid coupling (yes, no)		No
Semi-centrifugal (yes, no)		Yes
Type pressure plate springs		Compression
Total plate pressure (lb.)		1400#
No. of clutch driven discs		One
Clutch facing	Material	Woven Molded
	Inside diameter	7"
	Outside diameter	10.5"
	Total eff. area (sq. in.)	48.11
	Thickness	.136"
	Number required	Two
	Engagement cushioning method	Flat Springs Between the Facings
	Release bearing	Ball
	Type	Method of lubrication
	Torsional damping	Method (springs, other)
Frict. mat.		Pressure Gun
		Springs
		Steel

DRIVE UNITS—TRANSMISSIONS

Conventional (std. or opt.)	Std.
Conventional with overdrive (std. or opt.)	Not Available
Automatic (std. or opt.)	Opt.

DRIVE UNITS—CONVENTIONAL TRANSMISSION

Number of forward speeds		3
Transmission ratios	In first	2.3933:1
	In second	1.5259:1
	In third	1:1
	In fourth	
	In reverse	2.534:1
Constant mesh gears in 2nd (yes, no)		Yes
Spur gear used in (indicate speeds)		None
Helical gears used in (indicate speeds)		Yes-All
Synchronous meshing in 2nd and 3rd gears (yes, no)		Yes

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DRIVE UNITS—CONVENTIONAL TRANSMISSION (cont.)

Lubricant	Capacity (pt.)		2 Pints
	Type recommended		Multi Purpose Gear Lub.
	SAE viscosity number	Summer	SAE-80
		Winter	SAE-80
		Extreme cold	SAE-80

DRIVE UNITS—CONVENTIONAL TRANSMISSION WITH OVERDRIVE

For transmission data see conventional transmission section

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

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Hydra-Matic
Type (fluid coupling with gears, torque converter with gears, other)		Automatic Transmission with drive thru planetary gears and fluid coupling.
Manual selector positions, left to right (show symbols and define, e.g., N- Neutral)		N - Neutral DR- Drive S -- Super Performance LO- Low R - Reverse
List gear ratios in each drive position (range)	First	3.8195:1
	Second	2.6341:1
	Third	1.45:1
	Fourth	1:1
	Reverse	4.3045:1
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.

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MODEL DeLuxe "88" Super 88 98

DRIVE UNITS—AUTOMATIC TRANSMISSION (cont.)

Torque converter	Number of elements		Not Available				
	Max. ratio at stall at engine rpm						
	Mechanical lockup	Provided (yes, no)					
		Speed range					
		Releases at (speed range, mph)					
	Type of cooling (forced air, oil cooler and type, other)						
Anti-creep device (yes, no)							
Lubricant	Capacity—refill (pt.)		21				
	Type recommended		G.M. Hydra-Matic Drive Fluid				
	Grade	Summer	"	"	"	"	"
		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 x 58 1/2				
	Overdrive trans.		Not Available				
	Automatic trans.		3 x 58 3/8				
Inter-mediate bearing	Type (plain, anti-friction)		No				
	Lubri. (fitting, prepack)						
Universal joints	Make		Saginaw Steering Gear				
	Number used		2				
	Type (ball and trunnion, cross, other)		Cross				
	Bearing	Type (plain, anti-friction)	Needle				
		Lubric. (fitting, prepack)	Prepack				
		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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MODEL Deluxe "88" Super 88 98

DRIVE UNITS—REAR AXLE

Type (semi-floating, other)	Semi-Floating		
Gear type (hypoid, other)	Hypoid		
Gear ratio and No. of teeth	Conventional trans.	Standard 3.64:1	-40-11
		Optional 3.90:1	-39-10
	Overdrive trans.		
Automatic trans.	3.23:1 42-13	3.23:1 42-13	3.42:1 41-12
	3.07:1 OPT 40-13	3.07:1 OPT 40-13	3.07:1 OPT 40-13
Pinion adjustment (shim, other)	Shims		
Pinion bearing adj. (shim, other)	Nut		
Lubricant	Capacity (pt.)	4 3/4	
	Type recommended	Multi-Purpose Hypoid Lubricant	
	SAE viscosity number	Summer	SAE-90
		Winter	SAE-90
		Extreme cold	SAE-80

DRIVE UNITS—WHEELS

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

DRIVE UNITS—TIRES

Size and ply rating	Standard	7.60 x 15 - 4	
	Optional	8.00 x 15 - 4	98 Series only
Rev/mile at 30 mph	721.9		
Inflation press. (cold)	Front	24	
	Rear	22	

BRAKES—SERVICE

Type	Bendix		
Booster type			
Effective area (sq. in.)	191.7		
Percent brake effectiveness—rear	42%		
Drum	Diameter	Front	11" x 2 1/2"
		Rear	11" x 2"
	Type and material Cast Iron & Steel Composite		

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BRAKES—SERVICE (cont.)

Brake Lining	Bonded or riveted			Riveted		
	Pri- mary	Material		Marshall - 4112		
		Size (Length x width x thickness)	Front wheel	9 3/8 x 2 1/2 x 3/16		
			Rear wheel	9 3/8 x 2 x 3/16		
		Segments per shoe			One	
	Second- ary	Material		Marshall - 9171		
		Size (Length width x thickness)	Front wheel	12 1/32 x 2 1/2 x 3/16		
			Rear wheel	12 1/32 x 2 x 3/16		
		Segments per shoe			One	
	Wheel cyl- inder bore	Front			1 3/32	
Rear			15/16			
Master cylinder bore				1"		
Available pedal travel				6 1/2		
Line pressure at 100 lb. pedal load				735 APP		
Shoe clearance adjustment				.015"		

BRAKES—PARKING

Type of control		T-Handle
Location of control		Left of Steering Column
Operates on		Rear
If separate from service brakes	Type (internal or external)	Service
	Drum diameter	
	Lining size (length x width x thickness)	

FRAME

Type and description	Deep, Channel Section Side Rails and Sub-Bars, I Beam "X" Members and Five Cross Members.
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FRONT SUSPENSION

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

Spring	Type	Coil		
	Material	Spring Steel GM, 29M GM 9260M Spring Steel		
	Size (length x width x No. leaves or coil I.D.)	3 11/16		
	Spring rate (lb. per in.)	325		
	Rate at wheel (lb. per in.)	100		
	Normal load (lb. @ rated length)	1935 @ 9 1/2	1935 @ 9 1/2	2010 @ 9 1/2
Shock absorbers	Manufacturer	Delco		
	Type (direct or lever)	Lever		
	Piston diameter	1 1/2		
Stabilizer	Type (link, knifese, frameless)	Link		
	Material	SAE 1070		

STEERING

Type used (Standard or optional)		Mechanical	Standard		
		Power	Optional		
Wheel diameter			18.00"		
Turning diameter	Wall to wall		44.0'	44.0'	45.0'
	Curb to curb		42.5'	42.5'	43.0'
Outside wheel angle with inside wheel at 20°			17°45'		
Mechanical	Gear	Type	Ball-Nut		
		Make	Saginaw		
		Ratios	Gear	21.3:1	
		Overall	27.5:1		
	No. wheel turns (l. to r.) (l. to r.)		4 3/4		
Power	Type		Hydraulic Booster		
	Make		Saginaw Steering Gear Division		
	Trade name		Power Steering		
	Gear	Type	Ball Nut		
		Ratios	Gear	21.3:1	
		Overall	25.73:1		
	Pump driven by		Belt From Crank Pulley		
	Overall torque ratio		Variable		
	Number wheel turns (l. to r.)		4 3/4		
	Linkage	Type		Symmetrical	
Location (front or rear of wheels)		Rear			
Drag link (trans. or long)		Transverse			
Tie rods (one or two)		Two			

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STEERING (cont.)

Kingpin	Inclination at camber (deg.)		4°55'13"
	Diameter		.86175
	Bearings (type)	Upper	Bushing
		Lower	Bushing
Thrust		Ball	
Wheel alignment (range and preferred)	Caster (deg.)		0° to - 3/4° (Neg)
	Camber (deg.)		-1/4° to + 3/4°
	Toe-in (outside tread-inches)		1/16" to 1/8"
Steering knuckle type			
Wheel spindle	Diameter	Inner bearing	1.3736 1.3741
		Outer bearing	.7490 .7495
	Thread size		3/4 - 20
	Bearing type		Ball and Cone

REAR SUSPENSION

Type			Longitudinal Leaf			
Drive and torq. taken through (see page 14)			Springs			
Spring	Type		Semi-Elliptic			
	Material		AISI #9260 or AISI #5160			
	Size (length x width x No. leaves or coil I.D.)		58 x 2 1/2 - 5			
	Spring rate (lb. per in.)		95	95	95	
	Rate at wheel (lb. per in.)		115	115	115	
	Normal load (lb. at rated length)		960-1.3"	960 - 1.3"	960 - 1.3 "	
	Mounting insulation type		Rubber			
	If leaf	No. of leaves		5		
		Covers (yes, no)		No		
		Lubricated (yes, no)		No		
		Inserts	Type and size	Full Length		
			Material	Composition		
Shackle (comp. or tens.)		Compression				
Shock absorbers	Manufacturer		Delco			
	Type (direct or lever)		Direct			
	Piston diameter		1"			
Stabilizer	Type (link, linkless, frameless)		Link			
	Material		SAE 1070			
Track bar type			No			

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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)—is the supplement of the included ramp angle over which a car can pass without hanging up.

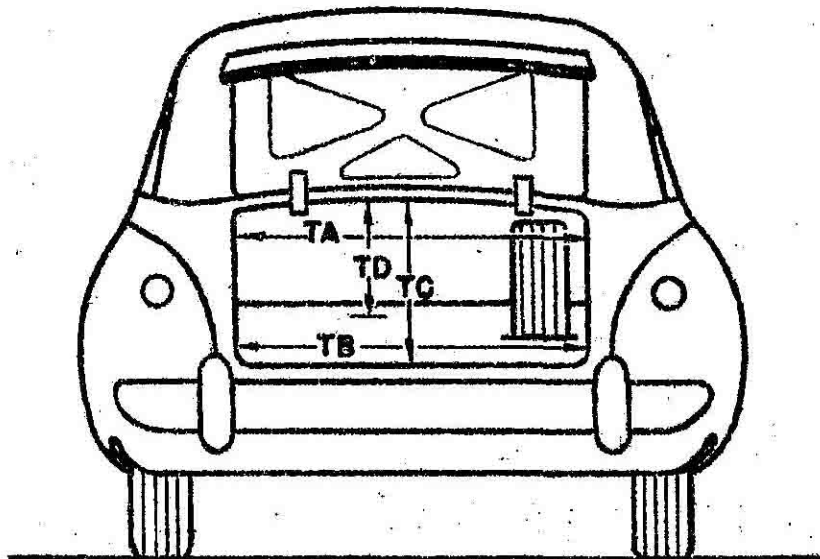
MODEL

DeLuxe "88"

Super 88

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BODY—TRUNK OPENING DIMENSIONS



TA—Width across the top	54 3/4	55 3/4
TB—Width across the bottom	49 1/2	47 3/4
TC—Diagonal dimension at CL from top of opening to bottom	33	40
TD—Vertical height of opening (floor to top, inside edge of opening)	25	24
Position of spare tire stowage	Right Side, Longitudinal, Vertical	
Method of holding lid open	Counterbalanced Spring at Trunk Lid Hinge	

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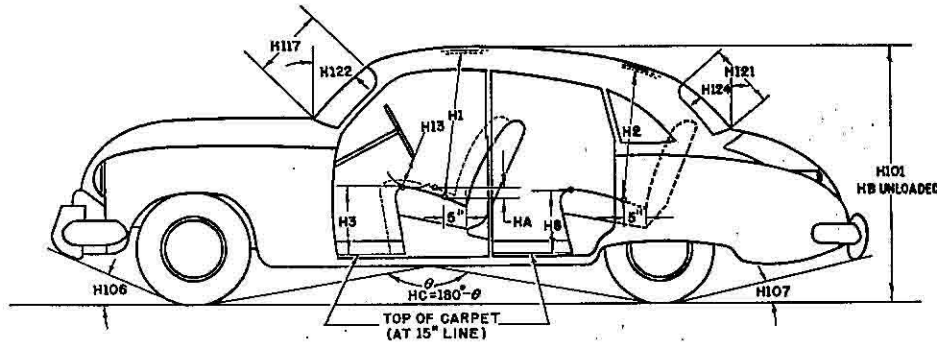
MODEL

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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)	35.94	35.40	35.00
	H2. Rear headroom—from "A" pt. to headlining at 8° back of vertical on 15" line.	36.04	34.95	34.33
	H3. Front seat height to floor carpet on 15" line (front edge of cushion).	13.68	13.68	13.50
	H8. Rear seat height to floor carpet on 15" line (front edge of cushion).	12.45	12.45	12.18
	H13. Steering wheel clearance to seat cushion taken on arc.	4.90	4.90	4.56
	HA. Front seat vertical rise at "A" pt. (inches.)	.34	.34	.34
Exterior	H101. Overall height.	63.63	63.63	63.63
	HB. Overall height—unloaded.			
	H106. Angle of approach—from the tire rolling radius to lowest point on front bumper or guard.	22°0'	22°0'	22°0'
	H107. Angle of departure—from the tire rolling radius to lowest point on rear bumper or guard.	13°45'	13°45'	13°30'
	HC. Ramp breakover angle.*	165°30'	165°30'	166°
	H117. Windshield DLO-slant height.			
	H121. Backlight DLO*—Max., slant height.	15.94	15.94	15.94
	H122. Windshield slope angle to vertical line on car axis.	45°	45°	45°
	H124. Backlight slope angle to vertical line on car axis.	42°	42°	42°
	HD. Min. road clearance (location and dimension).	Frame - Side Rail - 7.14"		
	HE. Min. road clearance at rear axle.	8.16	8.16	8.16

*See Notes, page 19.

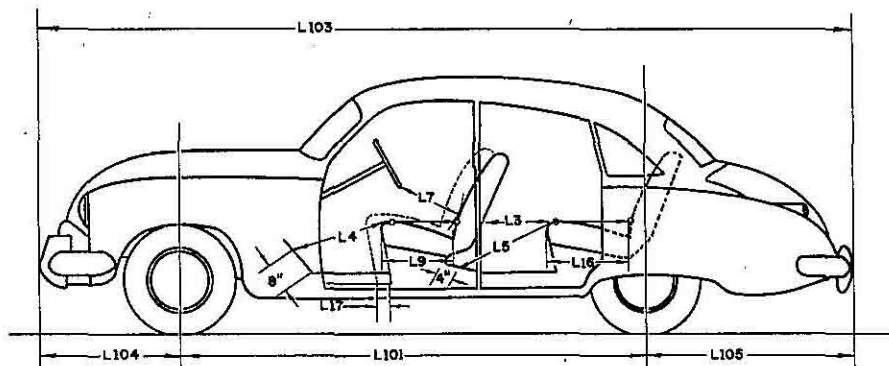
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MODEL DeLuxe "88" Super 88 98

BODY—LENGTH DIMENSIONS



Interior	L3. Rear compartment back of front seat back to rear seat back.	34.19	34.04	34.17
	L4. Leg room—front—diagonal—ball of foot to top of seat to front seat back—15" line.	42.66	42.66	42.53
	L5. Leg room—rear—diagonal—from ball of foot to top of rear seat cushion and to seat back.	42.95	43.32	43.45
	L7. Steering wheel clearance to seat back taken on arc.	13.00	13.00	12.81
	L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).	18.68	18.68	18.68
	L16. Depth of rear seat (front edge to seat back).	18.76	18.76	18.96
	L17. Total adjustment of front seat at floor.	4.40	4.40	4.40
Exterior	L101. Wheel base.	120	120	124
	L103. Overall length (bumper to bumper inc. guards).	204	204	215
	L104. Overhang—front including bumper guards.	34.50	34.50	34.50
	L105. Overhang—rear including bumper guards.	48.65	48.65	55.65

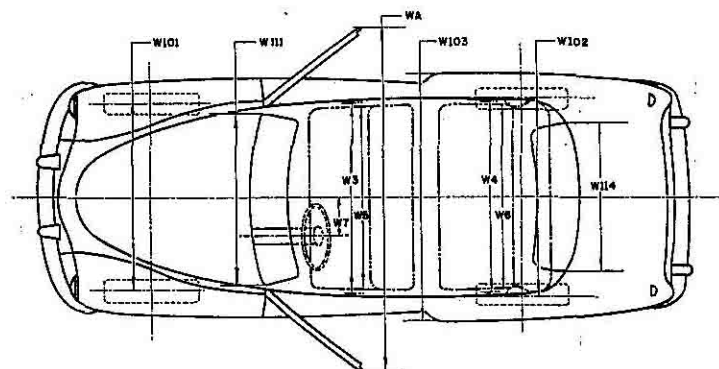
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MODEL DeLuxe "88" Super 88 98

BODY—WIDTH DIMENSIONS



Interior	W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	57.58	57.58	57.58
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	56.70	56.70	56.74
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	63.08	63.08	63.08
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	63.40	63.40	63.30
	W7. Steering wheel center to center of body.	15.31	15.31	15.31
Exterior	W101. Front tread at ground.	59	59	59
	W102. Rear tread at ground.	59	59	59
	W103. Max. overall width of car including bumpers or mouldings.	76.94	76.94	76.94
	WA. Max. overall width of car with doors open.	142.75	142.75	142.75
	W111. Windshield DLO, max. width.	53.2	53.2	53.2
	W114. Back window DLO, max. width.	57.5	57.5	57.5

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MODEL	DeLuxe "88"	Super 88	98
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BODY—TYPES

Body types and number of passengers. (Please use the letter code shown below followed by the number of passengers, e.g. A-6.)

G-5	G-5	G-5
D-5	D-5	J-5
	G-5	L-5
	J-5	

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

BODY—MISCELLANEOUS INFORMATION

	DeLuxe "88"	"Super 88"	"98"
Doors hinged (front, rear)	Front	Front	Front
	Rear	Front	Front
Type of finish (lacquer, enamel)	Lacquer	Lacquer	Lacquer
Hood opening (front, side; semi-full, full, half)	Front	Front	Front
Hood counterbalanced (yes, no)	Yes	Yes	Yes
Hood release control (internal, external)	External	External	External
Windshield (one piece, two piece; curved, flat)	One Piece, Curved	One Piece, Curved	One Piece, Curved
Rear window type (one piece, two piece, three piece; curved, flat)	One Piece Curved	One Piece Curved	One Piece Curved

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