

Automobile Manufacturers Association Consolidated Specification Questionnaire

1951 Model

Mechanical Details

Make of Car.....Oldsmobile.....Model....."Super 88"
 Name of Maker.....Oldsmobile Division.....
 Name of Maker.....General Motors Corporation.....Address.....Lansing, Michigan
 Date.....1-11-51

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

(2) Only standard equipment included in Factory Delivered price should be included in this questionnaire.

ENGINE

No. of cylinders.....8
 Valve arrangement.....Valve-in-Head
 Bore.....3-3/4".....Stroke.....3-7/16"
 Cylinder head, cast iron or aluminum.....Cast Iron
 Cylinder sleeve, Yes.....No
 Piston displacement.....303.73 Cu. in.
 Taxable horsepower.....45.0
 Horsepower rating—

To be based on actual performance corrected to 60°F. at sea level (barometric pressure 29.92 inches of mercury) with standard fuel. (Octane No. of fuel.....88 Research)

—With Bare Engine—

Maximum brake hp.....135.....at.....3600.....R.P.M.

—With Standard Accessories—*

Maximum brake hp.....129.....at.....3600.....R.P.M.

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

Maximum torque—

With bare engine, lb. ft.....263.....at.....1800.....R.P.M.

With standard accessories,* lb. ft.....255.....at.....1800.....R.P.M.

Compression Ratio—

Standard.....7.50.....Optional.....

Standard compression pressure —pounds—

At cranking speed.....130-150 at 150 RPM

At what R.P.M.....180-190 @ 1000 RPM

PISTONS and RINGS

Piston
 Make.....Own
 Material.....Aluminum Alloy
 Features—split skirt, invar strut, oval, tin-plated, aluminum oxide finish, auto-thermic, V-Bridge, porous chrome plate, etc. Auto-thermic, Cam Grnd., Tin plate, Steel Strut.
 Weight—ounces—without rings, pin or bushing.....19.88 oz..
 Length.....4"
 Clearance—
 Top land......032".....to......026"
 Skirt, top......0005" to.....bottom......0005" to......0010"
 .0015"

PISTONS and RINGS (cont'd)

Piston ring groove depth—
 Oil......193".....Compression......200"
 No. of oil rings used per piston.....One
 Width of oil rings.....3/16"
 Width of oil ring gap *SP......008" to......016"; PC......010" to......020"
 No. of compression rings used per piston.....Two
 Width of compression rings.....5/64"
 Width of compression ring gap.....PC......010" to......020"; SP......008" to......016"
 Maximum wall thickness of oil rings.....PC......150"; SP......155"
 Maximum wall thickness of compression rings......187"
 Are ring expanders used, Yes.....Yes.....No.....
 *SP—Sealed power.....PC—Perfect circle

RODS and PINS

Wristpin—

Material.....SAE #1117 Steel (Modified)
 Length.....3.016".....Diameter......9805"
 Locked in rod, piston or floating.....Full Floating
 Clearance in piston......0000".....to......0002" Loose
 Clearance in rod......0005".....to......0003"

Connecting rod—

Length—center to center.....6.625"
 Material.....GMX-1335 Steel (Modified)
 Weight—ounces.....29.54 oz.

Crankpin journal—

Diameter.....2 1/4".....Length.....2"

Lower bearing—Durex 100-A with GM 4167-M

Material.....Babbitt Overlay - Steel backed
 Clearance......0009".....to......0029"
 End play......002".....to......011"
 Ship—solid, laminated or none.....None
 Spun or separate.....Separate

Rods and pistons removed from above or below.....Above

CRANKSHAFT

Material.....SAE 1145 (Steel (Modified))
 Weight—stripped.....61.51#
 Vibration dampener used—yes or no.....No
 Type.....

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CRANKSHAFT (cont'd)

Crankshaft counterweights used, number of 6
Which main bearing takes thrust. Rear
Crankshaft end play .004" to .008"
Main bearing—
Type: Cast-in or Slip-in Yes
If slip-in: Removable from below Yes
Necessary to align ream No
Material Durex 100-A with GM 4167M Babbitt
Clearance .0005" to .0030" Except Rear overlay
Shim—solid, laminated or none None

Main bearing journal diameter x 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 2-5/8" x 1.880"
No. 6
No. 7
No. 8
No. 9

Crankshaft gear or sprocket—

Make Link Belt - Morse Optional
Material S.A.E. 1140 Steel - Link Belt
C-1117 or 1118 Steel - Morse

CAMSHAFT

Camshaft gear or sprocket—

Make Link Belt - Morse Optional
Material IX Cast Iron - Link Belt
Cast Iron - Morse

Timing chain—

Make Link Belt - Morse Optional
Number of links 48 L.B. - 64 Morse
Width 27/32" Link Belt - 7/8" Morse
Pitch .500" Link Belt - .375" Morse

VALVES

INTAKE VALVE—

Make Various
Material SAE .3140 Steel & N.E. .8645 Stl.
Overall length 4.917"
Actual overall diameter of head 1-3/4"
Minimum port diameter 1-7/16"
Angle of seat 45°
Is valve seat an insert? No
Stem diameter .3425" - .3417"
Stem to guide clearance .0022" to .0042"
Lift .333"
Spring pressure and length—
Outer—

VALVES (cont'd)

With valve closed—lb. 65# ins. 1.777
With valve open—lb. 141# ins. 1.447
Length out of engine—ins. 2-3/32" Approx
Inner— None
With valve closed—lb. ins.
With valve open—lb. ins.
Length out of engine—ins.

EXHAUST VALVE—

Make Various
Material Head: Silchrome XCR Steel
Stem: Silchrome XCR & NE-8645 Steel
Overall length 4.941
Actual overall diameter of head 1 7/16"
Minimum port diameter 1 3/16"
Angle of seat 45°
Is valve seat an insert? No Material
Stem diameter .3938" - .3930"
Stem to guide clearance .0027" to .0045"
Lift .333"

Spring pressure and length—

Outer—
With valve closed—lb. 65# ins. 1.777
With valve open—lb. 141# ins. 1.447
Length out of engine—ins. 2-3/32" Approx.
Inner— None
With valve closed—lb. ins.
With valve open—lb. ins.
Length out of engine—ins.

Operating tappet clearance (hot or cold)—intake None
Tappet clearance for valve timing—intake Open .0029"
Close .0049"
Operating tappet clearance (hot or cold)—exhaust None
Tappet clearance for valve timing—exhaust Open .0029"
Close .0049"
Hydraulic valve lifters—yes or no Yes

Valve timing—

Intake opens 13 1/2 degrees BUDC piston travel 0.060 inches
Intake closes 50 1/2 " ALDC " 2.947 inches
Exhaust opens 49 1/2 " BLDC " 2.964 inches
Exhaust closes 14 1/2 " AUDC " 0.068 inches
Valve Timing Marks—on Flywheel, Vibration Damper, None None

LUBRICATION

Lubricating system type—pressure or splash Pressure
Oil pressure to—
Main bearings—yes or no Yes
Connecting rods—yes or no Yes
Wristpins—yes or no No
Camshaft bearings—yes or no Yes
Tappets—yes or no Yes

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LUBRICATION (cont'd)

Timing gear or chain lubrication—*positive or splash* Positive
 Oil pump type Gear
 Oil grade recommended—*SAE viscosity and temperature range*—
 Heavy Duty Oil
 Not Lower Than 30°F SAE 20 or 20W
 As Low As 100°F SAE 20W
 As Low As 100°F SAE 10W
 Lower than 100°F SAE 5W
 Normal oil pressure—*lbs. at M.P.H.* 5.45# at 50 MPH
 Pressure at which relief valve opens 40
 Capacity of oil reservoir—*quarts, dry* 5. refill 5
 Oil pressure gauge make A. C.
 Oil reservoir level gauge type Dip Stick
 Floating type oil intake—*yes or no* No
 External oil filter make None
 Other type of oil cleaner None
 Oil cooler make None
 Chassis lubrication—*Make* Various

FUEL

Gasoline tank—*capacity* 18 gallons
 Fuel feed—
 Type—*vacuum tank, electric pump, gravity vacuum pump or camshaft pump* Camshaft Pump
 Make A. C. Model Type CE
 Carburetor—
 Make Rochester BB & Carter WGD
 Number used 1
 Size 1.7/16"
 Type—
 Up or down draft Down Single or dual Dual
 Intake manifold heat control—*manual, automatic or none* Automatic
 Automatic choke, make Carter and Rochester
 Air cleaner—*intake silencer make* A. C.
 Type—*dry felt; oil bath; oil coated fibre* Oil coated metal ribbon
 Heavy Duty type—*Make* None Model
 Muffler make Hayes and Walker
 Tail pipe diameter 2.00"

COOLING

Water pump—
 Type Sealed Centrifugal
 Drive V-Belt
 Is pump equipped with packing nut No
 Water circulation thermostat make Harrison
 Pressure relief valve—*yes or no* Yes
 By-pass for recirculation—*yes or no* Yes
 Radiator core—
 Type Tubular Vee Cell
 Make Harrison

COOLING (cont'd)

Cooling system—*capacity, quarts* 21 1/2 qts.
 Water jackets full length of cylinders—*yes or no* Yes
 Water all around cylinder—*yes or no* Yes
 Lower radiator hose—
 Inside diameter 1 3/4" Length 14.31"
 Upper radiator hose—
 Inside diameter 1 1/2" Length 9.00"
 Fan belt—
 Make Various
 Angle of vee 36°
 Length, outside 39" Width, maximum 3/8"
 Fan—
 Make Hayes No. of Blades 4

IGNITION

Ignition units—
 Make Delco Remy Model 1110824
 Manual or octane selector, *degrees advance* 15° *retard* 15°
 Maximum centrifugal advance crankshaft, *degrees* 30° ± 2°
 at 3700 engine R.P.M.
 Inches of Mercury Necessary to operate Vacuum Advance (Plus or minus 1 inch) 4.5" to 6.5"
 Maximum Vacuum advance crankshaft, *degrees* 20° ± 2°
 Breaker gap .016" Breaker arm tension 19-23 oz.
 Cam angle 26° to 33° deg.
 Timing—*Breaker points open* 2 1/8 BTC degrees crankshaft rotation
 or inches piston travel (after or before) top center
 with octane selector in the Normal position Crankshaft
 Timing mark location—*flywheel, vibration dampener or none* Pulley
 Firing order 1-8-7-3-6-5-4-2
 Amperage draw of ignition coil—
 With engine stopped 4.5 AMP
 With engine idling 2.0 AMP
 Spark plug—
 Thread—10 m.m., 14 m.m. or 18 m.m. 14 mm
 Make AC Model 46-5
 Gap .030"
 Ignition cable make GM

BATTERY

Make Delco Remy Model 17K4W
 Capacity—*ampere hours* 115 AH @ 20 hour rate
 Number of plates per cell 17
 Bench charging rate—
 Start 12.5 Finish 5.25
 Which battery terminal is grounded Negative
 Location of battery Under Hood

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STARTING MOTOR

Make Delco Remy Model 1107982
 Normal engine cranking speed Summer 120 R.P.M.
 Brush spring tension 24-28 oz.
 Lock test—
 Amperage draw 600
 Volts 3.0
 Torque in pounds feet 15
 No load test—
 Amperage draw 80
 Volts 5.7 R.P.M. 5500
 Type of drive—Bendix or sliding gear with overrunning clutch.
 Starting device—Solenoid, manual, etc. Solenoid
 Starter operation—check items required to start engine
 1. Turn on ignition X
 2. Depress starter pedal
 3. Depress accelerator pedal X
 4. Depress clutch pedal
 5. Operate button on dash X
 6. Pull out throttle
 Starting motor pinion meshes front or rear Front
 No. of teeth in flywheel 145
 Face width of flywheel teeth 3/8"
 Gear ratio between starter armature and flywheel 16.11:1

GENERATOR

Make Delco Remy Model 1102704
 Type—third brush, shunt, etc. Shunt
 Brush spring tension 24 to 32 oz.
 Current regulator, voltage regulator or current and voltage control unit Current & Voltage Control
 Maximum controlled charging rate
 Temperature 70° - 140°
 Amperes 40 Amp.
 Voltage 8 V.
 R.P.M. 1880 at 70° - 2320 at 140°
 Cutout relay—
 Voltage at closing 6.5
 Amperes to open, reverse current 0 to -4
 Air gap .020"
 Voltage regulator—
 Volts 7.3 @ 9 Amp.
 Temperature 150°
 Air gap .075"
 Current regulator—
 Amperes 40 Amp.
 Temperature 150°
 Air gap .075"
 Car speed for maximum charging rate 22 MPH and up
 Ammeter or charge indicator make A.C.

LAMPS

Lighting switch make Delco Remy
 Are tail and dash lights in series No
 Headlights—
 Make Guide Lamp
 Location—in fender, in catwalk, or radiator shell Fender
 Parking or fender light make Guide
 Tail and stop light make Guide
 Horn—
 Type—vibrator or motor Vibrator No. used 2
 Make Delco Remy
 Amperage draw of each High Note 18 Amp.
 Low Note 20 Amp.

CLUTCH

Make Long Mfg. Div.
 Drive type—
 Direct to flywheel face Yes
 Through fluid flywheel No
 Semi-centrifugal Yes
 Power operated unit—make None
 Vibration insulation or neutralizer—fabric,
 rubber blocks or springs Spring-Friction Type
 No. of clutch driving discs 1
 No. of clutch driven discs 1
 Clutch facing—
 Material—woven or moulded asbestos, cork Woven Asbestos
 Inside diameter 7"
 Outside diameter 10.5"
 Thickness .136
 No. required 2

TRANSMISSION

Transmission— Syncro-Mesh
 Make Buick Model 1343942
 No. of forward speeds 3
 Manual shift—yes, no Yes
 Automatic or auxiliary shifting mechanism—yes no No
 If yes, Make
 Type—centrifugal, vacuum, electric or hydraulic
 Automatic overdrive— No
 Make
 Oil capacity—pints
 Oil grade recommended—S.A.E. viscosity
 Summer Winter
 Gear ratio in high—standard 5-passenger
 4-door sedan 1:1
 Transmission ratio—
 In overdrive In second 1.5259:1
 In third 1:1 In fourth
 In low 2.3933:1 In reverse 2.534:1

See Auxiliary sheet 4A attached, for information on Oldsmobile's Hydra-Matic Drive. This unit is available for all "Super 88" model cars, car prices being increased accordingly. The information listed herein, under clutch and transmission applies to the 1951 design synchro-mesh transmission, standard equipment for all "Super 88" model cars.

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HYDRA - MATIC DRIVE SPECIFICATIONS

TYPE	High efficiency fluid coupling combined with a fully automatic transmission.
LOCATION	Unit with engine.
TYPE OF GEARING	Planetary,
CONTROL LOCATION	Steering Column & Throttle.
NUMBER OF FORWARD SPEEDS	4
TRANSMISSION RATIOS:	
First	3.8195 to 1
Second	2.6341 to 1
Third	1.45 to 1
Fourth	1 to 1
Reverse	4.3045 to 1
TRANSMISSION OIL CAPACITY	10.5 quarts Hydra-Matic Fluid Refill
CLUTCH	None
AXLE RATIO - STANDARD	3.42:1

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TRANSMISSION (cont'd)

Constant mesh gears on second Yes
 Spur or helical gears—
 For second speed Constant Mesh Helical
 For first speed Sliding Helical
 For reverse speed Sliding Helical
 For all speeds
 Synchronous meshing and third gears Yes
 Transmission oil—
 Capacity—pints 2 Pts.
 Grade recommended—S.A.E. viscosity
 Summer ... SAE ... 80 Winter 80
 Universal joints—
 Make ... Saginaw Strg. Gr. Div.
 Number used 2
 Type—metal with anti-friction
 bearing or metal with plain bearing Needle
 Lubricated with ... Permanently
 Drive taken through springs, torque arm, torque tube or
 radius rods Springs
 Torque taken through springs, torque arm, torque
 tube or radius rods Springs

REAR AXLE

Rear axle—
 Make Own Model
 Type—Semi, full or three-quarter floating Semi-Floating
 Minimum road clearance under center of rear
 axle—tires inflated ... 8.16"
 Rear axle oil—
 Capacity—pints ... 3.3/4
 *Grade and type recommended—S.A.E. viscosity
 Summer ... SAE 90 Winter ... SAE 90
 Type of gearing—spiral bevel, worm, hypoid ... Hypoid
 Gear ratio—standard 5-passenger 4-door sedan ... 3.64:1
 Optional gear ratios ... 3.9:1
 Number of teeth—
 In ring gear ... 40 In pinion ... 11
 How is pinion adjusted—screw or shims Shims
 How is pinion bearing adjusted—screw or shims Nut
 Are pinion bearings carried in sleeve ... No
 Backlash between pinion and ring gear .004" to .008"

TIRES and WHEELS

Tires—
 Make ... Various
 Size ... 7.60" x 15" No. of plies ... 4
 *Grade - Multi-Purpose Gear Lubricant

TIRES and WHEELS (Cont'd)

Inflation pressure—Front ... 24# Rear ... 22#
 Rim—Diameter ... 15" Width ... 5.1/2K

SPRINGS**FRONT SPRING—**

Independent or conventional suspension ... Independent
 Type—coil, semi-elliptic, transverse, torsion Coil
 Make ... Own
 Material ... Spring Steel GM 29M
 Torsional stabilizer at front ... Yes
 If leaf—
 Length Width
 Number of leaves—5-passenger, 4-door sedan
 Are radius rods used on axle
 If coil—
 Free length ... 15 15/32
 Length under curb weight ... 10 3/8

REAR SPRING—

Independent or conventional suspension Conventional
 Type—coil, semi-elliptic, transverse, torsion Semi-elliptic
 Make ... Own
 Material AISI #9260 or AISI #5160
 Torsional stabilizer at rear ... No
 If leaf—
 Length ... 58" Width ... 2 1/2"
 Number of leaves—5-passenger, 4-door sedan Five
 Spring leaves lubricated with Grease #ES-2
 Spring cover, Yes ... Yes No
 Spring shackles—
 Front—Type None Make
 Rear—Type Rubber Bushed Make Various
 Spring bolts—
 Type Rear Spring Front eye rubber bushed
 If coil—
 Free length
 Length under curb weight
 Rate for above 95# pounds per inch

Shock absorbers—

Make ... Delco
 Type, one way with lever, two way with lever, or direct acting
 Front Two way with Lever
 Rear Direct Acting
 Fluid capacity (oz.)—front 134-140 cc rear 170 cc. $\pm$ 5%

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STEERING

Steering gear—
 Type Worm and Roller
 Make Saginaw Model 420-D-205
 Ratio 19:1
 Lubricant recommended Sea Chart
 Steering wheel diameter 18.00"
 Drag link longitudinal or transverse Transverse
 Tie rod—one or two 2
 Is intermediate steering arm used No
 Number of turns of steering wheel for full left
 to right swing of wheels 4.1/4
 Car turning radius—feet—right, left or both 20.0'
 Caster—degrees 0° to 3/4° Neg.
 Camber—degrees or inches 3/4° Neg. to 3/4° Pos.
 Toe-in—inches 1/16" to 1/8"
 Crosswise inclination of kingpin—degrees 4° 29' 27"
 Front axle—
 Make None Model
 Section type—I-beams, tubular or none None
 End type—Elliott or reverse Elliott Reversed Elliott
 Minimum road clearance—tires inflated 8.44"

BRAKES

Foot brakes—
 Make Bendix
 Type of mechanism, hydraulic or mechanical Hydraulic
 If vacuum booster is standard, state make None
 Brake lining moulded, semi-moulded or woven—
 Primary shoe Moulded
 Secondary shoe Moulded
 Drum—
 Material Cast Iron Diameter 11"
 Lining— Front Rear
 Length per wheel 21.5/16" 21.5/16"

BRAKES (cont'd)

Width Front 2-1/2" Rear 2" Thickness 3/16"
 Clearance—toe .015" heel .015"
 Total foot braking area 191.7 sq. in.
 Percent braking power on rear wheels 42%
 Hand lever operates on—transmission, separate rear brakes, rear service brakes or all four service brakes Rear Service
 Hand brake, if separate from service brake—
 Internal or external
 Drum diameter
 Lining—
 Length per drum
 Width Thickness
 Clearance

FRAME and OTHER GENERAL DATA

Frame—
 Depth—maximum 6.16"
 Thickness—maximum 120"
 Flange width—maximum 2.38
 Wheelbase 120.00"
 Tread—
 Front 57"
 Rear 59"
 Weight of standard 5-passenger, four-door sedan—
 Shipping 3580
 Curb 3737
 Price of standard 5-passenger, 4-door sedan
 First serial number, this series 518M1001
 Serial number location On Body left front door
Pillar
 Overall length of car—
 With bumpers and bumper guards 204"
 Overall width of car 75.66"
 Overall height, road to roof with no load 63.63" (5 Pass. Load)

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

BEARINGS

Water pump bearing—
 Make or typeNew Departure D.R. Ball.....
 Size or number954446.....
 Fan bearing—
 Make or typeNone.....
 Size or number
 Starting motor commutator end bearing—
 Make or typePlain.....
 Size or number
 Starting motor drive end bearing—
 Make or typeNone.....
 Size or number
 Starting motor outboard bearing—
 Make or typeBronze Graphite.....
 Size or number1/2" x 25/32"
 Generator commutator end bearing—
 Make or typeBronze.....
 Size or number9/16" x 25/32"
 Generator drive end bearing—
 Make or typeBall Bearing.....
 Size or numberW.D. 3203.....
 Transmission main drive gear front pilot bearing—
 Make or typeDuraex.....
 Size or number412562.....
 Clutch throwout bearing—
 Make or typeBall Thrust.....
 Size or number1421681.....
 Transmission main drive gear rear bearing—
 Make or type
 Size or number954379.....
 Transmission main shaft front pilot bearing—
 Make or type
 Size or number435845.....
 Transmission main shaft rear bearing—
 Make or type
 Size or number954382.....
 Transmission countershaft front bearing—
 Make or typeNeedle Roller.....
 Size or number1298445.....
 Transmission countershaft rear bearing—
 Make or typeNeedle Roller.....
 Size or number1298445.....
 Transmission reverse idler bearing—
 Make or typeBushings Hard Rolled Brass or
 Sand Cast Bronze

BEARINGS (cont'd)

Size or number553119 or 1321609.....
 Overdrive shaft rear bearing—
 Make or typeNone.....
 Size or number
 Overdrive shaft pilot bearing—
 Make or typeNone.....
 Size or number
 Main shaft extension bearing—
 Make or typeCleveland Graphite Bronze.....
 Size or number1313790.....
 Rear axle pinion shaft front bearing—
 Make or typeTimken or Hyatt.....
 Size or number188963 or 506917.....
 Rear axle pinion shaft rear bearing—
 Make or typeTimken or Hyatt.....
 Size or number188960 or 506920.....
 Differential right bearing—
 Make or typeHyatt or Bower.....
 Size or number179243 or 502970.....
 Differential left bearing—
 Make or typeHyatt or Bower.....
 Size or number179243 or 502970.....
 Rear wheel inner bearing—
 Make or typeNone.....
 Size or number
 Rear wheel outer bearing—
 Make or typeNew Departure Ball.....
 Size or number954172.....
 Front wheel inner bearing—
 Make or typeNew Departure Ball.....
 Size or number909052.....
 Front wheel outer bearing—
 Make or typeNew Departure Ball.....
 Size or number909001.....
 Kingpin upper bearing—
 Make or typeSteel Backed 4035 M. Bronze.....
 Size or number231905.....
 Kingpin lower bearing—
 Make or typeSteel Backed 4035 M. Bronze.....
 Size or number231905.....
 Kingpin thrust bearing—
 Make or typeHoover Ball.....
 Size or number230679.....

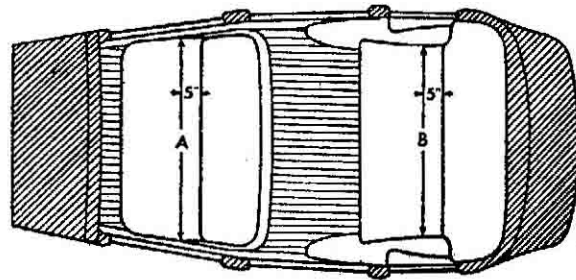
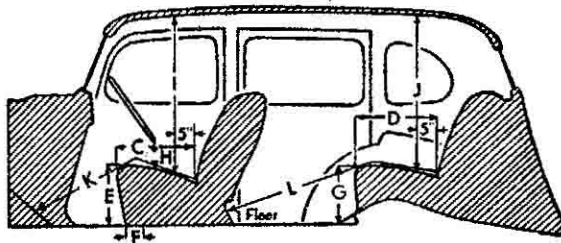
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- NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.
 (2) Enter on top line your own model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

EQUIPMENT	Models		
	Standard	DeLuxe	Custom
Catalog Designation of Model	"88"	"88"	
Lacquer make	Various	Various	
Body finish, <i>lacquer or synthetic enamel</i>	Lacquer	Lacquer	
Fender finish, <i>lacquer or synthetic enamel</i>	Lacquer	Lacquer	
Hardware make	Ternstedt	Ternstedt	
Speedometer make	A.C.	A.C.	
Gasoline gauge make	A.C.	A.C.	
Thermometer make	A.C.	A.C.	
Car lock make	Various	Various	
Car lock operates <i>on ignition or ignition and steering</i>	Ignition	Ignition	
Clock make <i>mechanical or electrical</i>	None	None	
Cigar lighter make	Rochester Products	Rochester Products	
Safety glass make	L.O.F.	L.O.F.	
Safety glass type, <i>laminated or tempered</i>			
In windshield	Laminated	Laminated	
In side windows	Laminated	Laminated	
In rear window	Tempered	Tempered	
Bumper make	Own	Own	
Bumper guard make	Brown-Lipe-Chapin	Brown-Lipe-Chapin	
Car heater make Type	None	None	
Direction signal make	None	None	
Front—yes or no Rear—yes or no	None	None	
No. of tail lights included	2	2	
No. of visors included	2	2	
No. of horns included	2	2	
No. of windshield wipers included	2	2	
No. of spare tires included	1	1	

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



INTERIOR

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

Width of front seat cushion, measured 5 inches from back (A)	63.12
Width of rear seat cushion, measured 5 inches from back (B)	63.40
Depth of front seat cushion (C)	18.12
Depth of rear seat cushion (D)	18.60
Height of front seat cushion measured 12½ inches from center line of body (E)	13.45
Front seat horizontal adjustment, inches (F)	4.40
Front seat vertical adjustment, inches	.42
Height of rear cushion measured 12½ inches from center line of body (G)	11.86
Vertical distance steering wheel and seat cushion (H)	5.30
Head room at front seat, measured 5 inches from back (I)	36.04
Head room at rear seat, measured 5 inches from back (J)	35.58
Leg room in front seat, measured from 6 inches up on toe board, following contour of seat cushion (K)	42.28
Leg room in rear seat, measured from center of foot rest, following contour of seat cushion (L)	41.63
Trunk capacity, cubic feet	
Width of left front pillar on diagonal with door closed	2.64

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BODY DETAIL AND EQUIPMENT FORMS

DIRECTIONS

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

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

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

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

[illegible]

SEATING ARRANGEMENT NUMBERS

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