

Automobile Manufacturers Association

Consolidated Specification Questionnaire

1950 MODEL

Mechanical Details

Make of Car.....Oldsmobile.....Model....."98"
 Oldsmobile Division
 Name of Maker.....General Motors Corporation.....Address.....Lansing, Michigan
 Date.....11-28-49.....

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 cylinders8.....
 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 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 86 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 7.25.....Optional.....

Standard compression pressure —pounds—

At cranking speed 136# at 150 R.P.M.

At what R.P.M. 183# @ 1000 R. P. M.

PISTONS and RINGS

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

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 .008" to .016"
 No. of compression rings used per piston Two.....
 Width of compression rings 5/64"
 Width of compression ring gap .010 to .020
 Maximum wall thickness of oil rings .150"
 Maximum wall thickness of compression rings .187"
 Are ring expanders used, Yes.....Yes.....No.....

RODS and PINS

Wristpin—
 Material S. A. E. #1117 Steel.....
 Length 3.016".....Diameter .9805"
 Locked in rod, piston or floating Full Floating.....
 Clearance in piston .0000.....to .0002
 Clearance in rod .0005".....to .0003"

Connecting rod—
 Length—center to center 6.625"
 Material GM X-1335 Steel.....
 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.....
 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 S. A. E. 1145 Mod. Steel.....
 Weight—stripped 60#.....
 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 4167 Babbitt Overlay

Clearance .0005" to .003" - Except Rear

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. 1141 Steel "Link Belt"
C-1117 or 1118 Steel "Morse"

CAMSHAFT

Camshaft gear or sprocket—

Make Link Belt - Morse Optional
Material 1X Cast Iron - Morse Cast Iron

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 S. A. E. 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 3.425 - 3.417
Stem to guide clearance .0022" to .0040"
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 XCR Head
Material Silchrome XCR Steel & NE-8645 Stl.
Overall length 4.941" Stem
Actual overall diameter of head 1 7/16
Minimum port diameter 1.241
Angle of seat 45°
Is valve seat an insert? No Material
Stem diameter 3.938 - 3.930
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
CAM LIFT for valve timing—intake Open .0029" Close
Operating tappet clearance (hot or cold)—exhaust None .0049"
CAM LIFT for valve timing—exhaust Open .0029" Close
Hydraulic valve lifters—yes or no Yes .0049"

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—
See Lubrication Chart.....
 Normal oil pressure—lbs. at M.P.H. 40# at 30 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
 Carburetor—
 Make Various Model Type C.E.
 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 Various Model
 Air cleaner—intake silencer make A.C.
 Type—dry felt; oil bath; oil coated fibre Oil coated Metal
 Heavy Duty type—Make None Model ribbon
 Muffler make Hayes & Walker
 Tail pipe diameter 2"

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 5/8" Approx.
 Upper radiator hose—
 Inside diameter 1-1/2" Length 11-1/8"
 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 1110817
 Manual or octane selector, degrees advance 15° retard 15°
 Maximum centrifugal advance crankshaft, degrees 30°
 at 3700 engine R.P.M.
 Inches of Mercury Necessary to operate Vacuum Advance (Plus or
 minus 1 inch) 6.5 to 8.5"
 Maximum Vacuum advance crankshaft, degrees 20°
 Breaker gap .0125-.0175 Breaker arm tension 19-23 oz.
 Dwell angle 22° B.T.C. deg.
 Timing—Breaker points open 2-1/2 degrees crankshaft rotation
 or inches piston travel (after or before) top center
 with octane selector in the Normal position.
 Timing mark location—flywheel, vibration dampener or none Crankshaft
 Firing order 1-8-7-3-6-5-4-2 Pulley
 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 m.m.
 Make A.C. Model 45
 Gap .030"
 Ignition cable make G.M.

BATTERY

Make Delco Remy Model 17K4W
 Capacity—amperes hours 115 A.H. @ 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 1107956
 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 X
 3. Depress accelerator pedal X
 4. Depress clutch pedal X
 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 28 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° to 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 21 M. P. H. 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 .137
 No. required 2

TRANSMISSION

Transmission—Synco-Mesh
 Make Own Model
 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—quarts
 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 1.53:1
 In third 1:1 In fourth
 In low 2.39:1 In reverse 2.39:1

See auxiliary sheet 4A attached, for information on Oldsmobile's Hydra-Matic Drive. This unit is available for all "98" model cars, car prices being increased accordingly. The information listed herein, under clutch and transmission applies to the 1950 design synco-mesh transmission, standard equipment for all "98" model cars.

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Hydra-Matic Drive Specifications

TYPE	High efficiency fluid couplings 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	3.8195:1
Second	2.6341:1
Third	1.45 :1
Fourth	1:1
Reverse	4.3045:1
TRANSMISSION OIL CAPACITY	10.5 Qts. Hydra-Matic Fluid Refill
CLUTCH	None
AXLE RATIO - STANDARD	3.64:1
OPTIONAL	3.9 :1

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STEERING

Steering gear—
 Type.....Ball-Nut.....
 Make.....Saginaw.....Model.....
 Ratio.....21.3.....
 Lubricant recommended.....See Chart.....
 Steering wheel diameter.....18".....
 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 3/4".....
 Car turning radius—feet—right, left or both.....21.0'.....
 Caster—degrees.....0°.....to.....3/4°.....Neg.....
 Camber—degrees or.....inches.....1/4°.....Neg.....3/4°.....Pos.....
 Toe-in—inches.....1/16".....to.....1/8".....
 Crosswise inclination of kingpin—degrees.....4° 29' 47".....
 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.....8-7/16".....

BRAKES

Foot brakes—
 Make.....Various.....
 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)

Front.....Rear.....
 Width.....2-1/2".....2".....Thickness......221"......231".....
 Clearance—top......015".....heel......015".....
 Total foot braking area.....191.7.....
 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.....5 3/4".....
 Thickness—maximum.....135".....
 Flange width—maximum.....2 1/8" - 3 1/8".....
 Wheelbase.....122".....
 Tread—
 Front.....59".....
 Rear.....61-1/2".....
 Weight of standard 5-passenger, four-door sedan—
 Shipping.....3750.....
 Curb.....3907.....
 Price of standard 5-passenger, 4-door sedan.....
 First serial number, this series.....509M1001.....
 Serial number location.....On body left front.....
 door pillar.....
 Overall length of car—
 With bumpers and bumper guards.....209".....
 Overall width of car.....80".....
 Overall height, road to roof with no load.....62.5/16".....
 (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 type New Departure D. R. Ball
 Size or number 954446

Fan bearing—
 Make or type None
 Size or number

Starting motor commutator end bearing—
 Make or type Plain
 Size or number

Starting motor drive end bearing—
 Make or type None
 Size or number

Starting motor outboard bearing—
 Make or type Bronze Graphite
 Size or number 1/2" x 25/32"

Generator commutator end bearing—
 Make or type Bronze
 Size or number 9/16" x 25/32"

Generator drive end bearing—
 Make or type Ball Bearing
 Size or number W. D. 3203

Transmission main drive gear front pilot bearing—
 Make or type Durex
 Size or number 412562

Clutch throwout bearing—
 Make or type Ball Thrust
 Size or number 1421681

Transmission main drive gear rear bearing—
 Make or type New Departure Ball
 Size or number 954381

Transmission main shaft front pilot bearing—
 Make or type Roller
 Size or number 1294780

Transmission main shaft rear bearing—
 Make or type New Departure Ball
 Size or number 954383

Transmission countershaft front bearing—
 Make or type Needle Roller
 Size or number 1298445

Transmission countershaft rear bearing—
 Make or type Needle Roller
 Size or number 1298445

Transmission reverse idler bearing—
 Make or type Babbitt Steel
 Backed Bushing

BEARINGS (cont'd)

Size or number 1433125

Overdrive shaft rear bearing—
 Make or type None
 Size or number

Overdrive shaft pilot bearing—
 Make or type None
 Size or number

Main shaft extension bearing—
 Make or type Cleveland Graphite Bronze
 Size or number 1313790

Rear axle pinion shaft front bearing—
 Make or type Timken or Hyatt
 Size or number 188963 or 506917

Rear axle pinion shaft rear bearing—
 Make or type Timken or Hyatt
 Size or number 188960 or 506920

Differential right bearing—
 Make or type Hyatt or Bower
 Size or number 179243 or 502970

Differential left bearing—
 Make or type Hyatt or Bower
 Size or number 179243 or 502970

Rear wheel inner bearing—
 Make or type None
 Size or number

Rear wheel outer bearing—
 Make or type New Departure Ball
 Size or number 954172

Front wheel inner bearing—
 Make or type New Departure Ball
 Size or number 909052

Front wheel outer bearing—
 Make or type New Departure Ball
 Size or number 909001

Kingpin upper bearing—
 Make or type Steel Backed 4035 M Bronze
 Size or number 231905

Kingpin lower bearing—
 Make or type Steel Backed 4035 M Bronze
 Size or number 231905

Kingpin thrust bearing—
 Make or type Hoover Ball
 Size or number 230679

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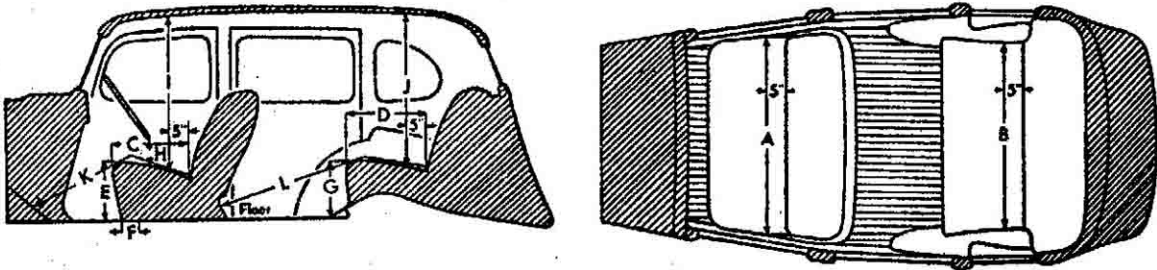
NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.

(2) Enter on top line your own model name, or series mark corresponding to Standard, DeLuxe or Custom.

EQUIPMENT	Models		
	Standard "98"	DeLuxe "98"	Custom
Catalog Designation of Model	Various	Various	
Lacquer make	Lacquer	Lacquer	
Body finish, <i>lacquer or synthetic enamel</i>	Lacquer	Lacquer	
Fender finish, <i>lacquer or synthetic enamel</i>	Ternstedt	Ternstedt	
Hardware make	A. C.	A. C.	
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	Electric	
Cigar lighter make	Various	Various	
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	None	None	
Direction signal make	None	None	
Front—yes or no	None	None	
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)	64.24"
Width of rear seat cushion, measured 5 inches from back (B)	64.98"
Depth of front seat cushion (C)	18.24"
Depth of rear seat cushion (D)	17.74"
Height of front seat cushion measured 12½ inches from center line of body (E)	13.06"
Front seat horizontal adjustment, inches (F)	4.00"
Front seat vertical adjustment, inches	1/4"
Height of rear cushion measured 12½ inches from center line of body (G)	11.83"
Vertical distance steering wheel and seat cushion (H)	5.52"
Head room at front seat, measured 5 inches from back (I)	35.87"
Head room at rear seat, measured 5 inches from back (J)	35.68"
Leg room in front seat, measured from 6 inches up on toe board, following contour of seat cushion (K)	42.83"
Leg room in rear seat, measured from center of foot rest, following contour of seat cushion (L)	41.67"
Trunk capacity, cubic feet	11.65 N. B. - 9.58 P. B.
Width of left front pillar on diagonal with door closed	2.87"

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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 8-90	Roadster	Fisher
	Phaeton	
	Two-door sedan	
	Four-door sedan	
	Coupe	
	Coups with rumble	Murray
	Cabriolet	
Crescent 8-90	Roadster	Fisher
	Phaeton	
	Two-door sedan	
	Four-door sedan	
	Coupe	Sadd
	Coups with rumble	
	Cabriolet	
	Limousine	Fleetwood
	Landauette	LeBaron

[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.