

1949

# Automobile Manufacturers Association Consolidated Specification Questionnaire

## Mechanical Details

Make of Car..... Oldsmobile..... Model..... "76"  
 Oldsmobile Division  
 Name of Maker..... General Motors Corporation..... Address..... Lansing, Michigan  
 Date..... 9-14-48

**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 ..... 6 .....  
 Valve arrangement I-Head .....  
 Bore ... 3.17/32" ..... Stroke 4 3/8"  
 Cylinder head, cast iron or aluminum .. Cast Iron .....  
 Cylinder sleeve, Yes..... No. No.....  
 Piston displacement .257.14 cu. in.....  
 Taxable horsepower ... 29.9 .....  
 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... 75.....)

**—With Bare Engine—**

Maximum brake hp. .... 105 ..... at... 3400 ..... R.P.M.

**—With Standard Accessories—\***

Maximum brake hp. .... 99 ..... at... 3400 ..... 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. ... 202 ..... at 1400 ..... R.P.M.

With standard accessories,\* lb. ft. 197 ..... at 1400 ..... R.P.M.

**Compression Ratio—**

Standard ... 6.5:1 ..... Optional.....

**Standard compression pressure —pounds—**

At cranking speed . 125#.....

At what R.P.M. .... 160# @ 1000 R.P.M.....

**PISTONS and RINGS**

**Piston**

Make ..... Owa.....

Material ..... Aluminum Alloy.....

Features—split skirts, invar struts, oval, tin-plated, aluminum oxide finish, auto-thermic, V-Bridge, porous chrome plate, etc. T-slot-Cam Grnd. Oxalic Sulphuric Acid

Weight—ounces—without rings, pin or bushing... 18.24.02.

Length ..... 4.1/32".....

**Clearance—**

Top land ... 0.023" ..... to ... 0.028"

Skirt, top ... 0.025" ..... bottom... 0.0075"

**PISTONS and RINGS (cont'd)**

**Piston ring groove depth—**

Oil ..... 1/16" ..... Compression ..... 1/8"

No. of oil rings used per piston ... 2 .....

Width of all rings ... 3/16".....

Width of oil ring gap ... 0.007" to 0.015"

No. of compression rings used per piston... 2 .....

Width of compression rings 3/32".....

Width of compression ring gap ... 0.007 to 0.017"

Maximum wall thickness of oil rings... 1/16".....

Maximum wall thickness of compression rings... 1/16".....

Are ring expanders used, Yes..... No..... No.....

**RODS and PINS**

**Wristpin—**

Material .. S.A.E. 1117 Mod......

Length 3.5/32"..... Diameter ..... 8/32"

Locked in rod, piston or floating Locked in Piston.....

Clearance in piston ... 0.002" to 0.001"

Clearance in rod ..... 0.003" to 0.006"

**Connecting rod—**

Length—center to center .. 7.13/16"

Material ..... G.M. X-1335.....

Weight—ounces ..... 30.72.02.

**Crankpin journal—**

Diameter 2.353"..... Length ... 1.125"

**Lower bearing—**

Material Steel Back Durex Babbitt Overlay.....

Clearance ... 0.005" to 0.0025"

End play ... 0.055" to 0.105"

SHIM ~~SHIM~~—solid, laminated or none..... None.....

Spun or separate .. Separate.....

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

**CRANKSHAFT**

Material ..... GM 1045 D.F. Steel.....

Weight—stripped ..... 100#.....

Vibration dampener used—yes or no... Yes.....

Type ..... Leaf Spring.....

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## CRANKSHAFT (cont'd)

Crankshaft counterweights used, number of ..... 7 .....  
 Which main bearing takes thrust ..... Front .....  
 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 ..... Steel Back Durex Babbitt Overlay .....  
 Clearance Rear ..... .0005" to .002" Others .001" to  
 Shim—solid, laminated or none ..... None ..... .003"

## Main bearing journal diameter x length—

No. 1 ..... 2.478" x 1.472"  
 No. 2 ..... 2.541" x 1.250"  
 No. 3 ..... 2.666" x 1.250"  
 No. 4 ..... 2.686" x 1.500"  
 No. 5 .....  
 No. 6 .....  
 No. 7 .....  
 No. 8 .....  
 No. 9 .....

## Crankshaft gear or sprocket—

Make ..... Link Belt .....  
 Material ..... GM X1315 .....

## CAMSHAFT

## Camshaft gear or sprocket—

Make ..... Link Belt .....  
 Material ..... Cast Iron 1X .....

## Timing chain—

Make ..... Link Belt .....  
 Number of links ..... 47 .....  
 Width ..... 15/16" .....  
 Pitch ..... .500" .....

## VALVES

## INTAKE VALVE—

Make ..... Various .....  
 Material ..... S.A.E. 3140 Steel .....  
 Overall length ..... 5.779" to 5.789"  
 Actual overall diameter of head ..... 1.3/4"  
 Minimum port diameter ..... 1.3/8"  
 Angle of seat ..... 30°  
 Is valve seat an insert? ..... No .....  
 Stem diameter ..... .3420 .....  
 Stem to guide clearance ..... .00175" to .00375"  
 Lift ..... .310"  
 Spring pressure and length—  
 Outer—

## VALVES (cont'd)

With valve closed—lb. .... 55# ..... ins. 2.1/4"  
 With valve open—lb. .... 100# ..... ins. 1.15/16"  
 Length out of engine—ins. .... 2.5/8"  
 Inner— None  
 With valve closed—lb. .... ins.  
 With valve open—lb. .... ins.  
 Length out of engine—ins. ....

## EXHAUST VALVE—

Make ..... Various .....  
 Material ..... Silchrome XCR Steel .....  
 Overall length ..... 5.51/64"  
 Actual overall diameter of head ..... 1.27/64"  
 Minimum port diameter ..... 1.1/4"  
 Angle of seat ..... 45°  
 Is valve seat an insert? ..... No ..... Material .....  
 Stem diameter ..... .3414 .....  
 Stem to guide clearance ..... .00245" to .00425"  
 Lift ..... .308"

## Spring pressure and length—

Outer—  
 With valve closed—lb. .... 55 ..... ins. 2.1/4"  
 With valve open—lb. .... 100 ..... ins. 1.15/16"  
 Length out of engine—ins. .... 2.5/8"  
 Inner— None  
 With valve closed—lb. .... ins.  
 With valve open—lb. .... ins.  
 Length out of engine—ins. ....

Operating tappet clearance (hot or cold)—intake ..... .008" Hot  
 Tappet clearance for valve timing—intake ..... .0125"  
 Operating tappet clearance (hot or cold)—exhaust ..... .011" Hot  
 Tappet clearance for valve timing—exhaust ..... .0155"  
 Hydraulic valve lifters—yes or no ..... No

## Valve timing—

Intake opens ..... 5 ..... degrees BUDC piston travel .010 ..... inches  
 Intake closes ..... 45 ..... " ALDC " " 3.370 ..... inches  
 Exhaust opens ..... 45 ..... " BLDC " " 3.648 ..... inches  
 Exhaust closes ..... 5 ..... " AUDC " " .010 ..... 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 ..... Yes .....  
 Camshaft bearings—yes or no ..... Yes .....  
 Tappets—yes or no ..... No .....

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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 M.P.H.  
 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 1539297

## Carburetor—

Make Carter Model WA-1

Number used 1

Size 1 1/2"

## Type—

Up or down draft down Single or dual Single

Intake manifold heat control—*manual, automatic or none* Automatic

Automatic choke, make Carter 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 or Walker

Tail pipe diameter 1 3/4"

## 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 Copper Core

Make Harrison

## COOLING (cont'd)

Cooling system—*capacity, quarts* 18 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 14.3/16" approx.

## Upper radiator hose—

Inside diameter 1 1/2" Length 8.1/4"

## Fan belt—

Make Various

Angle of vee 28°

Length, outside 43.3/8" Width, maximum 49/64"

## Fan—

Make Own No. of Blades 4

## IGNITION

## Ignition units—

Make Delco Remy Model 1110214

Manual or octane selector, *degrees advance* 10° *retard* 10°

Maximum centrifugal advance crankshaft, *degrees* 22° ± 2

at 4000 engine R.P.M.

Inches of Mercury Necessary to operate Vacuum Advance (Plus or

minus 1 inch) .5-.7

Maximum Vacuum advance crankshaft, *degrees* 16° ± 2

Breaker gap .020" Breaker arm tension 17-21 oz.

Dwell angle 35°

Timing—*Breaker points open* 0 *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* Flywheel

Firing order 1-5-3-6-2-4

## 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 .040"

Ignition cable make G.M.

## BATTERY

Make Delco Remy Model 15AA4-W

Capacity—*amperes hours* 100 A.H. @ 20 hour rate

Number of plates per cell 15

## Bench charging rate—

Start 12.5 Finish 4.5

Which battery terminal is grounded Negative

Location of battery Under Hood

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**STARTING MOTOR**

Make Delco Remy..... Model 1107955.....  
Normal engine cranking speed Summer 100 R.P.M.....  
Brush spring tension 24 to 28 oz.....

## Lock test—

Amperage draw ..... 800.....  
Volts ..... 3.0.....  
Torque in pounds feet 15.0.....

## No load test—

Amperage draw ..... 65.....  
Volts ..... 5..... R.P.M. 5000.....

Type of drive—Belt 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 .....
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 1/2".....

Gear ratio between starter armature and flywheel 16.11:1.....

**GENERATOR**

Make Delco Remy..... Model 1102706.....  
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° - 2320 at 140°.....

## Cutout relay—

Voltage at closing ..... 6.5.....  
Amperes to open, reverse current -2.....  
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.....

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 1.8 Amp.....

Low Note 20 Amp.....

**CLUTCH**

Make Borg and Beck.....

## Drive type—

Direct to flywheel face Yes.....

Through fluid flywheel No.....

Semi-centrifugal No.....

Power operated unit—make None.....

Vibration insulation or neutralizer—fabric,

rubber blocks or springs Springs.....

No. of clutch driving discs 1.....

No. of clutch driven discs 1.....

## Clutch facing—

Material—woven or moulded asbestos, cork Woven, Moulded Asbestos.....

Inside diameter 7".....

Outside diameter 10".....

Thickness .125".....

No. required 2.....

**TRANSMISSION**

## Transmission—

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—

Make None.....

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 1.661:1.....

In third 1:1..... In fourth.....

In low 2.667:1..... In reverse 3.022:1.....

See auxiliary sheet 4A, attached, for information on Oldsmobile's Hydra-Matic Drive. This unit is available for all "76" model cars, car prices being increased accordingly. The information listed herein, under clutch and transmission applies to the 1949 design synchro-mesh transmission, standard equipment for all "76" 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	Four

## 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	11 Quarts Hydra-Matic Fluid
Clutch	None
Axle Ratio - Standard	3.63 to 1
Optional	3.9 to 1

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**TRANSMISSION (cont'd)**

Constant mesh gears on second Yes  
 Spur or helical gears—  
 For second speed Helical  
 For first speed Helical  
 For reverse speed Helical  
 For all speeds Helical  
 Synchronous meshing and third gears Yes  
 Transmission oil—  
 Capacity—pints 2  
 Grade recommended—S.A.E. viscosity  
 Summer 90 Winter 90  
 Universal joints—  
 Make Mechanics  
 Number used 2  
 Type—metal with anti-friction  
 bearing ~~axle with plain bearing~~  
 Lubricated ~~with~~ Permanently  
 Drive taken through springs, torque arm, torque tube or  
 radius rods Stabilizing Arms  
 Torque taken through springs, torque arm, torque  
 tube or radius rods Stabilizing Arms

**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 1/8"  
 Rear axle oil—  
 Capacity—pints 3 3/4 pts.  
 Grade and type recommended—S.A.E. viscosity  
 Summer See Lub. Chart Winter  
 Type of gearing—spiral bevel, worm, hypoid Hypoid  
 Gear ratio—standard 5-passenger 4-door sedan 4.1:1  
 Optional gear ratios 43:10 (Hilly)  
 Number of teeth—  
 In ring gear 41 In pinion 10  
 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 .006"

**TIRES and WHEELS**

Tires—  
 Make Various  
 Size 7:10 x 15 No. of plies 4

**TIRES and WHEELS (Cont'd)**

Inflation pressure—Front 24# Rear 24#  
 Rim—Diameter 15" Width 5.50F  
 5.50K(Optional)

**SPRINGS**

**FRONT SPRING—**

Independent or conventional suspension Independent  
 Type—coil, semi-elliptic, transverse, torsion Coil  
 Make Own  
 Material GM 9260M Spring Steel  
 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 17 9/16"  
 Length under curb weight 10"

**REAR SPRING—**

Independent or conventional suspension Conventional  
 Type—coil, semi-elliptic, transverse, torsion Coil  
 Make Own  
 Material GM 9260 M. Spring Steel  
 Torsional stabilizer at rear Yes  
 If leaf—  
 Length Width  
 Number of leaves—5-passenger, 4-door sedan  
 Spring leaves lubricated with  
 Spring cover, Yes No  
 Spring shackles—  
 Front—Type Make  
 Rear—Type Make  
 Spring bolts—  
 Type  
 If coil—  
 Free length 15 1/8"  
 Length under curb weight 9 1/2"  
 Rate for above 100# 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 Two Way with Lever  
 Fluid capacity (oz.)—front 134-140 cc rear 154-163 cc

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**STEERING**

Steering gear—  
 Type ..... Worm and Roller.....  
 Make ..... Saginaw..... Model ..... 420.....  
 Ratio ..... 19:1.....  
 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 1/4.....  
 Car turning radius—feet—right, left or both. 40.0'.....  
 Caster—degrees ..... 0..... to ..... 3/4°.....  
 Camber—degrees or ..... inches 1/4° Neg. so. 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 1/8".....

**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"..... 24".....

**BRAKES (cont'd)**

	Front	Rear
Width	2".....	1 3/4".....
Thickness	.221".....	.231".....
Clearance—top	.015".....	heel ..... .015".....
Total foot braking area	159.8.....	
Percent braking power on rear wheels	44%.....	
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 ..... 6.3/16".....  
 Thickness—maximum ..... 120".....  
 Flange width—maximum 2.1/4".....  
 Wheelbase ..... 119 1/2".....  
 Tread—  
 Front ..... 57".....  
 Rear ..... 59".....  
 Weight of standard 5-passenger, four-door sedan—  
 Shipping ..... 3324.....  
 Curb ..... 3474.....  
 Price of standard 5-passenger, 4-door sedan .....  
 First serial number, this series 496 M 1001.....  
 Serial number location On Body Left Front Door Pillar.....  
 Overall length of car—  
 With bumpers and bumper guards ..... 202".....  
 Overall width of car ..... 75 3/16".....  
 Overall height, road to roof with no load ..... 62 7/16".....

63.43

63.6

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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.....  
 Size or number .....954213.....  
 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 .....Graphite.....  
 Size or number .....411538.....  
 Transmission main drive gear rear bearing—  
 Make or type .....New Departure Ball.....  
 Size or number .....954154.....  
 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 .....907506.....  
 Transmission countershaft front bearing—  
 Make or type .....Needle.....  
 Size or number .....1302154.....  
 Transmission countershaft rear bearing—  
 Make or type .....Needle.....  
 Size or number .....1302154.....  
 Transmission reverse idler bearing—  
 Make or type .....Bronze Bushing.....

**BEARINGS (cont'd)**

Size or number .....1307898.....  
 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 .....Steel Backed 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.....



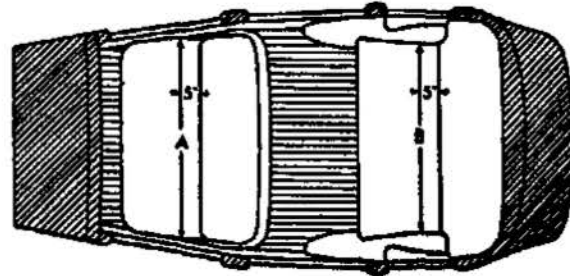
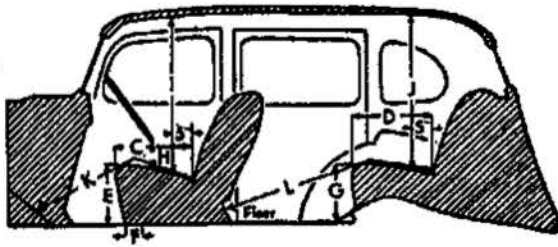
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NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.  
 (2) Enter on top line your own model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

EQUIPMENT	Models		
	Standard	DeLuxe	Custom
Catalog Designation of Model .....	"76"	"76"	
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 on ignition or ignition and steering .....	Ignition	Ignition	
Clock make .....	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	Various	
Front—yes or no .....	None	Yes	Yes
Rear—yes or no .....			
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	

Make of Car..... Oldsmobile..... Model..... "76"..... Date..... 9-14-48.....

**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) .....	59 7/8"
Width of rear seat cushion, measured 5 inches from back (B) .....	58 7/16"
Depth of front seat cushion (C) .....	17 15/16"
Depth of rear seat cushion (D) .....	17 15/16"
Height of front seat cushion measured 12 1/2 inches from center line of body (E) .....	13 5/8"
Front seat horizontal adjustment, inches (F) .....	4 7/16"
Front seat vertical adjustment, inches .....	1 1/2"
Height of rear cushion measured 12 1/2 inches from center line of body (G) .....	12 7/16"
Vertical distance steering wheel and seat cushion (H) .....	5 5/8"
Head room at front seat, measured 5 inches from back (I) .....	35 15/16"
Head room at rear seat, measured 5 inches from back (J) .....	35 5/8"
Leg room in front seat, measured from 6 inches up on toe board, following contour of seat cushion (K) .....	42 5/8"
Leg room in rear seat, measured from center of foot rest, following contour of seat cushion (L) .....	40 7/8"
Trunk capacity, cubic feet .....	10.46 cu. ft.
Width of left front pillar on diagonal with door closed .....	

Make of Car..... Oldsmobile..... Model..... "76"..... Date 9-14-48

**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 8-88	Roadster	Fisher
	Phaeton	
	Two-door sedan	
	Four-door sedan	
	Coupe	Murray
	Coupe with rumble	
Crescent 8-89	Cabriolet	Fisher
	Roadster	
	Phaeton	
	Two-door sedan	
	Four-door sedan	Budd
	Coupe	
	Coupe with rumble	
	Cabriolet	Plymouth LaBaron

MAKE AND MODEL	BODY TYPE List Types on Ascending Price Scale Beginning with the Lowest Price	Factory Delivered Price Including Federal Tax and Handling Charge	Number of Pass- engers	Wheel- base	Shipping Weight	Seating Arrange- ment Number  See Below	Body Make
"76"	Club Coupe		5	119 <sup>1</sup> / <sub>2</sub>	3253	3	Fisher
"76"	Club Sedan		5	119 <sup>3</sup> / <sub>8</sub>	3294	3	Fisher
"76"	Four-Door Sedan		5	119 <sup>3</sup> / <sub>8</sub>	3324	4	Fisher
"76"	Town Sedan		5	119 <sup>3</sup> / <sub>8</sub>	3341	4	Fisher
"76"	Convertible Coupe		5	119 <sup>3</sup> / <sub>8</sub>	3587	3	Fisher
"76"	Station Wagon		8	119 <sup>3</sup> / <sub>8</sub>	3619		Fisher

**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.