

# Automobile Manufacturers Association

## Consolidated Specification Questionnaire

### For 1940 Models

### Mechanical Details

Make of Car ..... Oldsmobile ..... Model ..... Series "60"  
 Name of Maker ..... Olds. Motor Works ..... Address ..... Lansing, Michigan

Date... October 16, 1939

**NOTE: (1) Subject to Correction:** It is understood that the following data is 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.**

#### PERFORMANCE

Car Weight per cubic inch piston displacement ..... 15.76  
 Horsepower per cubic inch ..... 413  
 Car Weight per horsepower ..... 38.15  
 (A) Engine Revolutions per mile ..... 3071  
 (B) Piston Displacement per mile = A x Piston displacement ..... 7063  
 Piston Displacement per mile per pound =  $\frac{B}{\text{Car Weight}}$  ..... 1.95  
 Car Weight per square inch of brake lining area ..... 24.49  
 Ratio of car weight to weight of four tires without tubes ..... 44.75:1

[NOTE: Car Weight, for performance figure, is *shipping weight for five-passenger, four-door sedan, plus 500 pounds for liquids and passengers.*]

#### ENGINE

No. of cylinders ..... 6  
 Valve arrangement ..... I-Head  
 Bore ..... 3-7/16" ..... Stroke ..... 4-1/8"  
 Engine—make and model ..... Own "60"  
 Cylinder arrangement (angle of Vee in degrees) ..... In Line  
 Cylinder head, cast iron or aluminum ..... Cast Iron  
 Piston displacement ..... 229.7  
 Taxable horsepower ..... 28.4  
 Maximum brake horsepower at R.P.M. ..... 95 @ 3400  
 Maximum torque (lbs.-ft.) at R.P.M. ..... 180 @ 1400  
 Compression Ratio—  
 Standard ..... 6.1:1 ..... Optional ..... 5.61:1  
 Standard compression pressure—pounds—  
 At cranking speed ..... 146# @ 1000 R.P.M.  
 At what R.P.M. ....

#### PISTONS and RINGS

Piston  
 Make ..... Own  
 Material ..... Aluminum

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

Features—*split skirt, invar strut, oval, tin-plated, aluminum oxide finish, auto-thermic, V-Bridge, etc.* ..... <sup>T</sup>-Slot, Oxide Finish  
 Weight—ounces—without rings, pin or bushing ..... 17.75  
 Length ..... 4-1/32"  
 Clearance—  
 Top land ..... 0.026" Nominal to .....  
 Skirt ..... 0.013" to ..... 0.018"  
 Piston ring groove depth—  
 Oil ..... 3/16" ..... Compression ..... 11/64"  
 No. of oil rings used per piston ..... 2  
 Width of oil rings ..... 3/16"  
 Width of oil ring gap ..... 0.007"  
 No. of compression rings used per piston ..... 2  
 Width of compression rings ..... 3/32"  
 Width of compression ring gap ..... 0.008" to ..... 0.018"  
 Maximum wall thickness of oil rings ..... 150"  
 Maximum wall thickness of compression rings ..... 172"

#### RODS and PINS

Wristpin—  
 Length ..... 3-5/32" ..... Diameter ..... 55/64"  
 Locked in rod, piston or floating ..... Locked in Piston  
 Clearance In Rod ..... 0.003" to ..... 0.006"  
 Hole finish—reamed, diamond bored, broached or ground ..... Diam. Bore  
 Connecting rod—  
 Length—center to center ..... 7-13/16"  
 Material ..... G.M.C. #X-1335 - A  
 Weight—ounces ..... 29.6  
 Crankpin journal—  
 Diameter ..... 2-1/8" ..... Length ..... 1-3/8"  
 Lower bearing—  
 Material ..... Steel Backed Babbit Lined  
 Make ..... Own  
 Clearance ..... 0.005" to ..... 0.025"  
 End play ..... 0.055" to ..... 0.105"  
 Shim—solid, laminated or none ..... None  
 Spun or separate ..... Separate  
 Rods and pistons removed from above or below ..... Above

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## CRANKSHAFT

Vibration dampener used—yes or no ..... Yes .....  
 Type ..... Spring .....  
 Crankshaft counterweights used, number of ..... 7 .....  
 Which main bearing takes thrust ..... Front .....  
 Crankshaft end play ..... .004" ..... .008" .....  
 Main bearing—  
 Type: Cast-in or ..... Slip-in ..... Yes .....  
 If slip-in: Removable from below ..... Yes .....  
 Necessary to align ream ..... No .....  
 Material ..... Steel backed babbitt lined .....  
 Clearance ..... .0005" ..... .003" .....  
 Shim—solid, laminated or none ..... None .....  
 Main bearing journal diameter x length—  
 No. 1. .... 2.31/64" x 1.19/32" .....  
 No. 2. .... 2.35/64" x 1.1/2" .....  
 No. 3. .... 2.43/64" x 1.1/2" .....  
 No. 4. .... 2.11/16" x 1.11/16" .....  
 No. 5. ....  
 No. 6. ....  
 No. 7. ....  
 No. 8. ....  
 No. 9. ....  
 Crankshaft gear or sprocket—  
 Make .....  
 Material ..... G.M.C. #X-1315 Steel .....

## CAMSHAFT

Camshaft gear or sprocket—  
 Make ..... Whitney .....  
 Material ..... G.M.C. #M-12 Cast Iron .....  
 Timing chain—  
 Make ..... Various .....  
 Number of links ..... 47 .....  
 Width ..... 1" .....  
 Pitch ..... 500" .....  
 Adjustment—none, automatic or manual ..... None .....

## VALVES

### INTAKE VALVE—

Make ..... Thompson .....  
 Material ..... G.M.C. #3140 Steel .....  
 Overall length ..... 5.51/64" .....  
 Actual overall diameter of head ..... 1.9/16" .....  
 Angle of seat ..... 30° .....  
 Is valve seat an insert? ..... No ..... Material .....  
 Stem diameter ..... 11/32" .....  
 Stem to guide clearance ..... .00175" ..... to ..... .00375" .....

### VALVES (cont'd)

Lift ..... 300" .....  
 Spring pressure and length—  
 Outer—  
 With valve closed—lb. .... 50.1/2 ..... ins. 2.1/4" .....  
 With valve open—lb. .... 95.1/2 ..... ins. 1.15/16" .....  
 Length out of engine—ins. .... 2.19/32" .....  
 Inner—  
 With valve closed—lb. .... ins. ....  
 With valve open—lb. .... ins. ....  
 Length out of engine—ins. ....

### EXHAUST VALVE—

Make ..... Thompson .....  
 Material ..... Silchrome X CR .....  
 Overall length ..... 5.51/64" .....  
 Actual overall diameter of head ..... 1.27/64" .....  
 Angle of seat ..... 45° .....  
 Is valve seat an insert? ..... No ..... Material .....  
 Stem diameter ..... 11/32" .....  
 Stem to guide clearance ..... .00225" ..... to ..... .00425" .....  
 Lift ..... 300" .....  
 Spring pressure and length—  
 Outer—  
 With valve closed—lb. .... 50.1/2 ..... ins. 2.1/4" .....  
 With valve open—lb. .... 95.1/2 ..... ins. 1.15/16" .....  
 Length out of engine—ins. .... 2.19/32" .....  
 Inner—  
 With valve closed—lb. .... ins. ....  
 With valve open—lb. .... ins. ....  
 Length out of engine—ins. ....

Operating tappet clearance (hot or cold)—intake ..... .008" .....  
 Tappet clearance for valve timing—intake ..... .0124" .....  
 Operating tappet clearance (hot or cold)—exhaust ..... .011" .....  
 Tappet clearance for valve timing—exhaust ..... .0155" .....  
 Hydraulic valve lifters—yes or no ..... No .....

### Valve timing—

Intake opens ..... 5 ..... degrees BUDC piston travel B.T.C. ....  
 Intake closes ..... 45 ..... " ALDC " " A.B.C. ....  
 Exhaust opens ..... 45 ..... " BLDC " " B.B.C. ....  
 Exhaust closes ..... 5 ..... " AUDC " " A.T.C. ....  
 Valve Timing Marks on Flywheel, Vibration Damper, Nose Flywheel

## LUBRICATION

Lubricating system type—pressure or splash ..... Pressure .....  
 Oil pressure to—  
 Main bearings—yes or no ..... Yes .....  
 Connecting rods—yes or no ..... Yes .....

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## LUBRICATION (cont'd)

Wristpins—yes or no ..... Yes .....  
 Camshaft bearings—yes or no ..... Yes .....  
 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. .... 32# .....  
 Pressure at which relief valve opens ..... 27 .....  
 Capacity of oil reservoir—quarts, dry ..... 5 ..... refill ..... 5 .....  
 Oil pressure gauge make ..... A.C. ....  
 Oil reservoir level gauge type ..... Dip Stick .....  
 External oil filter make ..... None .....  
 Oil cooler make ..... None .....  
 Chassis lubrication—  
 Type ..... High Pressure .....  
 Make ..... Various .....

## FUEL

Gasoline tank—capacity ..... 17 Gal. ....  
 Fuel feed—  
 Type—vacuum tank, electric pump, gravity vacuum  
 pump or camshaft pump ..... Camshaft pump .....  
 Make ..... A.C. .... Model ..... F-40 .....  
 Carburetor—  
 Make ..... Carter ..... Model ..... WA-1 .....  
 Size ..... 1 7/16" .....  
 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. ....  
 Muffler make ..... Various .....

## COOLING

Water pump—  
 Type ..... Sealed centrifugal .....  
 Drive ..... V-belt .....  
 Is pump equipped with packing nut ..... No .....  
 Water circulation thermostat make ..... Harrison .....  
 By-pass for recirculation—yes or no ..... Yes .....  
 Radiator shutter—Make ..... None .....  
 Radiator core—

## COOLING (cont'd)

Type ..... Vee Cell .....  
 Make ..... Harrison .....  
 Cooling system—capacity, quarts ..... 17 3/4 .....  
 Water jackets full length of cylinders—yes or no ..... Yes .....  
 Lower radiator hose—  
 Inside diameter ..... 1 3/4" ..... Length ..... Approx. 12"  
 Upper radiator hose—  
 Inside diameter ..... 1 1/2" ..... Length ..... 8"  
 Fan belt—  
 Make ..... Various .....  
 Number used ..... 1 .....  
 Angle of vee ..... 32° .....  
 Length, inside ..... 44 11/16" ..... Width, maximum ..... 13/16"  
 Fan—  
 Make ..... Own .....

## IGNITION

Ignition unit—  
 Make ..... Delco Remy ..... Model .....  
 Manual or octane selector, degrees advance ..... None retard .....  
 Maximum automatic advance, degrees ..... 25° .....  
 Vacuum advance, degrees ..... 34° .....  
 Breaker gap ..... 0.20" .....  
 Cam angle .....  
 Timing—Breaker points open ..... 0 ..... degrees crankshaft travel  
 or TDC ..... inches piston travel (after or before) top center  
 with octane selector in the Normal position .....  
 Timing marks on flywheel, vibration dampener or none ..... Flywheel  
 Firing order ..... 1-5-3-6-2-4 .....  
 Amperage draw of ignition coil—  
 With engine stopped ..... 4.5 .....  
 With engine idling ..... 2.0 .....  
 Ignition lock make ..... Delco Remy .....  
 Spark plug—  
 Thread—10 m.m., 14 m.m. or 18 m.m. .... 14 m.m. ....  
 Make ..... A.C. .... Model ..... 45 .....  
 Gap ..... 0.040" .....  
 Ignition cable make ..... G.M. ....

## BATTERY

Make ..... Delco Remy .....  
 Capacity—ampere hours ..... 100 ..... @ 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 .....  
 Normal engine cranking speed .. Summer-100 R.P.M. ....  
 Lock test—  
 Amperage draw ..... 4.75 .....  
 Volts ..... 3.0 .....  
 Torque in pounds feet .. 12 .....  
 No load test—  
 Amperage draw ..... 65 .....  
 Volts ..... 5 ..... R.P.M. 5000 .....  
 Type of drive—Bendix or sliding gear with overrunning clutch Manual  
 Starter operation—check items required to start engine Gear  
 1. Turn on ignition ..... X .....  
 2. Depress starter pedal ..... X .....  
 3. Depress accelerator pedal .....  
 4. Depress clutch pedal ..... X .....  
 5. Operate button on dash .....  
 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" .....  
 Flywheel teeth integral or steel ring ... Steel ring .....  
 Gear ratio between starter armature and flywheel .. 16.11:1 .....

## GENERATOR

Make .... Delco Remy ... Model .....  
 Field fuse capacity .....  
 Type—third brush, shunt, etc. .... shunt .....  
 Current regulator, voltage regulator or current and  
 voltage control unit ... current & voltage ...  
 Cutout relay—  
 Voltage at closing .... 6.3 - 6.9 .....  
 Armature speed at closing .... 600 .....  
 Car speed at closing .....  
 Amperes to open ..... 0 - 3.0 .....  
 Maximum charging rate cold—  
 Temperature .....  
 Amperes ..... 3.3 .....  
 Voltage ..... 7.85 .....  
 R.P.M. ....  
 Maximum charging rate hot—  
 Temperature .....  
 Amperes ..... 3.3 .....  
 Voltage ..... 7.6 .....  
 R.P.M. ....  
 Car speed for maximum charging rate ..... 21 UP .....  
 Ammeter or charge indicator make ..... A.C. ....

## LAMPS

Lighting switch make..... Delco Remy .....  
 Are tail and dash lights in series.... No .....  
 Headlight—  
 Make .... Guide Lamp .....  
 Location—In fender, in catwalk, on radiator shell, in fender  
 Candlepower of bulb ... 45 watt .....  
 Type of bulb ... Sealed Beam .....  
 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 ... 12 - Dual .....

## CLUTCH

Make ..... Borg & Beck .....  
 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  
 Inside diameter ..... 6" .....  
 Outside diameter ..... 9 1/4" .....  
 Thickness ..... 125" .....  
 No. required ..... 2 .....

## TRANSMISSION

Transmission—  
 Make ..... Own ..... Model ... F-40 .....  
 No. of forward speeds... 3 .....  
 Shift lever location—dash, steering column, floor, Stg. Column  
 If steering column gearshift—  
 Are gears meshed by rod linkage or cable... rod .....  
 Are gears selected by rod linkage or cable... rod .....  
 Automatic or auxiliary shifting mechanism—  
 Make ..... None .....  
 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 .....



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## TRANSMISSION (Cont'd)

Transmission ratio—  
 In overdrive ..... In second ..... 1.66:1 .....  
 In low ..... 2.667:1 ..... In reverse ..... 3.022:1 .....  
 Constant mesh gears on second ..... Yes .....  
 Spur or helical gears—  
 For second speed ..... Helical .....  
 For first speed ..... " .....  
 For reverse speed ..... " .....  
 Synchronous meshing second and third gears ..... Yes .....  
 Transmission oil—  
 Capacity—pints ..... 2 .....  
 Grade recommended—S.A.E. viscosity  
 Summer ..... 80 ..... Winter ..... 80 .....  
 Universal joints—  
 Make ..... Mechanics .....  
 Number used ..... 2 .....  
 Type—fabric, rubber, metal with anti-friction  
 bearing or metal with plain bearing ..... Metal with A.F. brg. ....  
 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 ..... 7.13/16" .....  
 Rear axle oil—  
 Capacity—pints ..... 2.1/2 .....  
 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 ..... 4.55:1 .....  
 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 ..... None .....  
 Are pinion bearings in sleeve ..... None .....  
 Backlash between pinion and ring gear ..... .004" to .006" .....  
 Are pinion bearings preloaded ..... Yes .....  
 How is pinion bearing preload obtained ..... In Manufacture .....  
 Are differential bearings preloaded ..... Yes .....  
 How is differential bearing preload obtained ..... Adjust. Nut .....

## TIRES and WHEELS

Tires—  
 Make ..... Various .....  
 Size ..... 16" x 6.00" ..... No. of plies ..... 4 .....  
 Inflation pressure—Front ..... 27 ..... Rear ..... 27 .....  
 Rim—Diameter ..... 16" ..... Width ..... 4.50 E .....  
 Axle clearance for jack—tires inflated  
 Front ..... Rear .....  
 Wheels—  
 Type ..... Steel .....  
 Make ..... Various .....

## SPRINGS

### FRONT SPRING—

Independent or conventional suspension ..... Independent .....  
 Type—coil, semi-elliptic or transverse ..... Coil .....  
 Make ..... Own .....  
 Material ..... Silico-Manganese Steel .....  
 Sway eliminators—torsional, lateral, none ..... Torsional .....  
 If leaf—  
 Length ..... Width .....  
 Number of leaves—5-passenger, 4-door sedan .....  
 Are radius rods used on axle .....  
 Shocked front or rear .....  
 Anti-shock shackle location .....

### If coil—

Free length ..... 20.19/32" .....  
 Length under curb weight ..... 10.1/16" .....  
 Rate for above ..... 290 ..... pounds per inch

### REAR SPRING—

Independent or conventional suspension ..... Conventional .....  
 Type—coil, semi-elliptic or transverse ..... Coil .....  
 Make ..... Own .....  
 Material ..... Silico-Manganese Steel .....  
 Sway eliminators—torsional, lateral, none ..... Lateral .....

### If leaf—

Length ..... Width .....  
 Number of leaves—5-passenger, 4-door sedan .....  
 Spring leaves lubricated with .....  
 Spring cover make .....  
 Spring shackles—

Front—Type ..... Make .....  
 Rear—Type ..... Make .....

### Spring bolts—

Type .....

### If coil—

Free length ..... 20.19/32" .....  
 Length under curb weight ..... 15.11/16" .....

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## SPRINGS (cont'd)

Rate for above ..... 87 ..... pounds per inch  
 Shock absorbers—  
 Make ..... Delco .....  
 Type—*one way, two way* ..... Two Way .....  
 Fluid capacity—front ..... rear .....

## STEERING

Steering gear—  
 Type ..... Worm & Roller .....  
 Make ..... Saginaw ..... Model .....  
 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 1/2 .....  
 Car turning radius—feet—right, left or both ..... 18' .....  
 Caster—degrees ..... 0 ..... to ..... - 3/4 .....  
 Camber—degrees or ..... 1/4 inches ..... to ..... +1/2" .....  
 Toe-in—inches ..... 1/16" ..... to ..... 1/8" .....  
 Crosswise inclination of kingpin—degrees ..... 4° 51" 10" .....  
 Front axle—  
 Make ..... None ..... Model .....  
 Section type—*I-beams, tubular or none* .....  
 End type—*Elliott or reverse Elliott* ..... Reverse Elliott .....  
 Minimum road clearance—*tires inflated* ..... 7 7/8" .....

## 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 ..... Moulded .....  
 Drum—

## BRAKES (cont'd)

Material ..... Cast Iron ..... Diameter ..... 11" .....  
 Lining—  
 Length per wheel ..... 21 5/16" .....  
 Width ..... 1 3/4" ..... Thickness ..... 3/16" .....  
 Clearance—*top* ..... 0.10" ..... *heel* ..... 0.10" .....  
 Total foot braking area ..... 148 .....  
 Percent braking power on rear wheels ..... 45 .....  
 Hand brake location, *on floor, under cowl at right, under cowl at left* .....  
 Hand lever operates on—*transmission, separate rear brakes, rear service brakes or all four service brakes* ..... Rear Service .....  
 Hand brake—  
 Internal or external ..... Internal .....  
 Drum diameter ..... 11" .....  
 Lining—  
 Length per drum ..... 21 5/16" .....  
 Width ..... 1 3/4" ..... Thickness ..... 3/16" .....  
 Clearance ..... 0.10" .....

## FRAME

Frame—  
 Make ..... Various .....  
 Type ..... Channel X-Member .....  
 Depth—*maximum* ..... 5 1/2" .....  
 Thickness—*maximum* ..... 7/64" .....  
 Flange width—*maximum* ..... 1 3/4" .....  
 Wheelbase ..... 116" .....  
 Tread—  
 Front ..... 58 .....  
 Rear ..... 59 .....  
 Weight of standard 5-passenger four-door sedan—  
 Shipping ..... Not Available .....  
 Curb ..... Not Available .....  
 Per cent on front axle .....  
 Price of standard 5-passenger, 4-door sedan ..... Not Available .....  
 First serial number, this series ..... 703001 .....  
 Serial number location ..... Left front top frame .....  
 side member .....  
 Overall length of car—  
 With bumpers and bumper guards ..... 197 3/4" .....

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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 ... N.D. D.R. Ball .....  
 Size or number ... 954210 .....

Fan bearing—  
 Make or type ... None .....  
 Size or number ..... .....

Starting motor commutator end bearing—  
 Make or type ... Plain .....  
 Size or number ... 9/16" x 15/16" .....

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 27/32" .....

Generator commutator end bearing—  
 Make or type ... Plain .....  
 Size or number ..... .....

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

Super-charger—  
 Make or type ... None .....  
 Size or number ..... .....

Clutch throwout bearing—  
 Make or type ... Perm. Lub. Graphite .....  
 Size or number ... 411538 .....

Clutch pilot bearing—  
 Make or type .....  
 Size or number ..... .....

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

Transmission reverse idler bearing—  
 Make or type ... Bronz. Bushing .....  
 Size or number ... 1307898 .....

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

Transmission main shaft rear bearing—  
 Make or type ... N.D. Ball .....  
 Size or number ... 907506 .....

Transmission countershaft front bearing—  
 Make or type ... Roller .....  
 Size or number ... 1302154 .....

Transmission countershaft rear bearing—  
 Make or type ... Roller .....  
 Size or number ... 1302154 .....

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

## BEARINGS (cont'd)

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

Main shaft extension bearing—  
 Make or type ... Bushing .....  
 Size or number ... 1313790 .....

Rear axle pinion shaft front bearing—  
 Make or type ... N.D. Double Row Ball .....  
 Size or number ... 905306 .....

Rear axle pinion shaft rear bearing—  
 Make or type ... Hyatt Roller .....  
 Size or number ... 107391 .....

Differential right bearing—  
 Make or type ... Hyatt Barrel Roller .....  
 Size or number ... 179243 .....

Differential left bearing—  
 Make or type ... Hyatt Barrel Roller .....  
 Size or number ... 179243 .....

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

Rear wheel outer bearing—  
 Make or type ... N.D. Ball .....  
 Size or number ... 954172 .....

Front wheel inner bearing—  
 Make or type ... N.D. Ball .....  
 Size or number ..... .....

Front wheel outer bearing—  
 Make or type ... N.D. Ball .....  
 Size or number ..... .....

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 ... N.D. Ball .....  
 Size or number ... 230679 .....

Front spring—Bolt—  
 Bushing size ..... None .....  
 Bushing type ..... " .....

Shackles—  
 Upper end ..... None .....  
 Lower end ..... " .....

Rear spring—Bolt—  
 Bushing size ..... None .....  
 Bushing type ..... " .....

Shackles—  
 Upper end ..... None .....  
 Lower end ..... " .....

Make of Car ..... Oldsmobile ..... Model ..... Series "60" ..... Date 10-16-39 .....

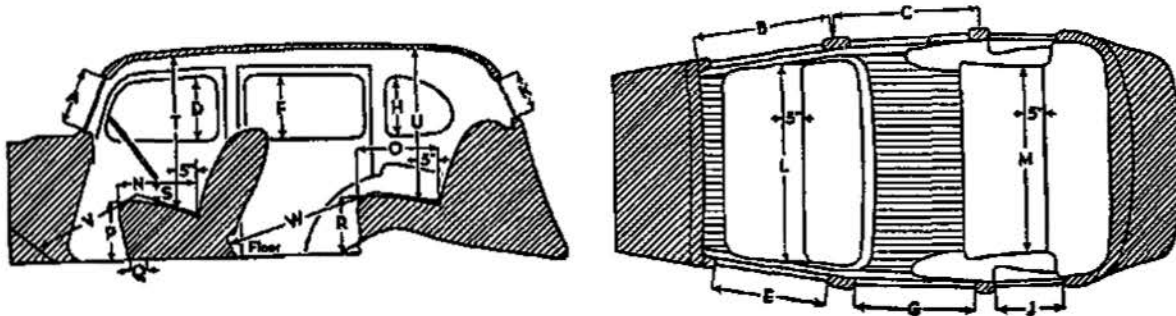
NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.  
 (2) Enter on top line your own model name, or series mark corresponding to Standard, DeLuxe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

EQUIPMENT	Models		
	Standard	DeLuxe	Custom
Catalog Designation of Model.....	Series "60"		
Lacquer make .....	Various		
Body finish, lacquer or synthetic enamel .....	Lacquer		
Fender finish, lacquer or synthetic enamel .....	"		
Hardware make .....	Ternstedt		
Speedometer make .....	A.C.		
Gasoline gauge make .....	A.C.		
Thermometer make .....	A.C.		
Car lock make .....	Various		
Car lock operates on ignition or ignition and steering .....	Ignition		
Clock make .....	None		
Cigar lighter make .....	"		
Safety glass make .....	L.O.F.		
Safety glass type, laminated or tempered .....	Laminated		
In windshield .....	"		
In side windows .....	"		
In rear window .....	Tempered		
Bumper make .....	Own		
Bumper guard make .....	None		
Car heater make .....	None		
No. of tail lights included .....	2		
No. of visors included .....	2		
No. of horns included .....	2		
No. of windshield wipers included .....	2		
No. of windshield washers included .....	None		
No. of spare tires included .....	One		



Make of Car ..... Oldsmobile ..... Model ..... Series "60" ..... Date 10-16-39 .....

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



**EXTERIOR**

Overall height, road to roof with <del>no load</del> ..... 5 pass. load.....	66 29/32"
Minimum height of floor in front compartment, <del>no load</del> ..... 5 pass. load.....	16"
Minimum height of floor in rear compartment, <del>no load</del> ..... 5 pass. load.....	15 1/64"
Distance between hinge centers, front door.....	18 7/8"
Distance between hinge centers, rear door.....	10 1/2"
Windshield opening height (A).....	13 1/2"
Windshield opening width, to center strip if divided.....	23"
Width of front door, at handle (B).....	33 3/4"
Width of rear door, at handle (C).....	28 3/4"
Height of front door, maximum.....	46 1/2"
Height of rear door, maximum.....	46 1/2"
Height of window opening in front door, maximum (D).....	12 3/4"
Width of window opening in front door, maximum (E).....	25"
Height of window opening in rear door, maximum (F).....	13"
Width of window opening in rear door, maximum (G).....	24"
Height of rear quarter window opening, maximum (H).....	11 3/8"
Width of rear quarter window opening, maximum (J).....	16 1/4"
Height of rear window opening, maximum (K).....	10 3/4"
Width of rear window opening, maximum [if divided list each].....	32 1/2"

**INTERIOR**

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

Width of front seat cushion, measured 5 inches from back (L).....	49 3/4"
Width of rear seat cushion, measured 5 inches from back (M).....	47"
Depth of front seat cushion (N).....	17 3/4"
Depth of rear seat cushion (O).....	19"
Height of front seat cushion (P).....	13 1/2"
Front seat horizontal adjustment, inches (Q).....	4 1/2"
Front seat vertical adjustment, inches.....	11 1/16"
Height of rear seat cushion (R).....	16"
Vertical distance between steering wheel and seat cushion (S).....	6 3/4"
Head room at front seat, measured 5 inches from back (T).....	37"
Head room at rear seat, measured 5 inches from back (U).....	37 3/8"
Leg room in front seat, measured from 6 inches up on toe board (V).....	41 7/8"
Leg room in rear seat, measured from center of foot rest (W).....	45"
Width of left front pillar on diagonal with door closed.....	3 3/8"

*clear 40*

