

# Automobile Manufacturers Association Consolidated Specification Questionnaire For 1950 Models Mechanical Details

Make of Car..... **Buick** ..... Model..... **Series 70 Roadmaster** .....

Name of Maker..... **Buick Motor Division** ..... Address..... **Flint, Michigan** .....

Date **December 14, 1949**

**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..... **In-Head** .....  
 Bore..... **3-7/16"** ..... Stroke..... **4-5/16"** .....  
 Cylinder head, cast iron or aluminum..... **Cast Iron** .....  
 Cylinder sleeve, Yes..... No..... **X** .....  
 Piston displacement..... **320.2 Cu. In.** .....  
 Taxable horsepower..... **37.81** .....  
 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..... **80** .....)

—With Bare Engine— (See Note)

Maximum brake hp..... **152** ..... at..... **3600** ..... R.P.M.

—With Standard Accessories—\*

Maximum brake hp..... **134** ..... 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..... **280** ..... at..... **2000** ..... R.P.M.

With standard accessories,\* lb. ft..... **274** ..... at..... **2000** ..... R.P.M.

Compression Ratio—  
 Standard..... **7.2 to 1** ..... Optional.....

Standard compression pressure—pounds—  
 At cranking speed..... **120** .....

At what R.P.M..... **160 at 1000 R.P.M.** .....

**PISTONS and RINGS Sterling Aluminum Products Inc., Aluminum Alloys Corp., Aluminum Company of America, and Bohn Aluminum and Brass Corporation**

Piston..... **Aluminum Alloy** .....

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

Features—~~split skirt, iron strut, cast, tin-plated, aluminum oxide finish, anti-shornie, V-Bridge, porous chrome plate, etc.~~ **Cam Ground Turbulator Top-Trans Slot**

Weight—ounces—without rings, pin or bushing..... **17.94** .....

Length..... **4.56"** .....

Clearance—  
 Top land..... **.023"** ..... to..... **.030"** .....  
 Skirt, top..... **.0023"** ..... bottom..... **.0017"** .....

### PISTONS and RINGS (cont'd)

Piston ring groove depth—  
 Oil..... **.182"** ..... Compression..... **.182"** .....  
 No. of oil rings used per piston..... **2** .....  
 Width of oil rings..... **Upper — .1875" Lower — .1865"** .....  
 \*\*Width of oil ring gap..... **Upper — .015" Lower — .0017 (Segmental)** .....  
 No. of compression rings used per piston..... **2** .....  
 Width of compression rings..... **.0938"** .....  
 Width of compression ring gap..... **.015"** .....  
 Maximum wall thickness of oil rings..... **Upper — .150" Lower — .170** .....  
 Maximum wall thickness of compression rings..... **Upper — .170" Lower — .150** .....  
 Are ring expanders used, Yes..... No..... **X** .....

### RODS and PINS

Wristpin—  
 Material..... **C.D.S. 1115** .....  
 Length..... **3.0625"** ..... Diameter..... **8.747"** .....  
 Locked in rod, piston or floating..... **Locked in Rod** .....  
 Clearance in piston..... **.0003"** ..... to..... **.0004"** .....  
 Clearance in rod..... **—** ..... to..... **—** .....

Connecting rod—  
 Length—center to center..... **8.25"** .....  
 Material..... **1145 Forged Steel** .....  
 Weight—ounces..... **36.272** .....

Crankpin journal—  
 Diameter..... **2.25"** ..... Length..... **1.306"** .....

Lower bearing—  
 Material..... **Durex 100-A** .....  
 Clearance..... **.0005"** ..... to..... **.0018"** .....  
 End play..... **.005"** ..... to..... **.010"** .....

Shims Ship—solid, laminated or none..... **None** .....  
 Spun or separate..... **Separate** .....

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

### CRANKSHAFT

Material..... **1145 H.R.S. Steel Forging** .....  
 Weight—stripped..... **116 Lbs.** .....  
 Vibration dampener used—yes or no..... **Yes** .....  
 Type..... **Laminated steel flywheel supported on steel leaf springs.** .....

\*\* Lower oil ring is a steel "U"-Flex Ring.  
 Note: Bare engine is without fan and muffler.

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CRANKSHAFT (cont'd)

Crankshaft counterweights used, number of 5  
 Which main bearing takes thrust Center  
 Crankshaft end play .004" - .008"  
 Main bearing—  
 Type: Cast-in or Slip-in X  
 If slip-in: Removable from below Yes  
 Necessary to align room No  
 Material Steel backed Durex - 100A  
 Clearance .0005" - .0020"  
 Shim—solid, laminated or none None  
 Main bearing journal diameter x length—  
 No. 1. 2.5625" x 1.2812"  
 No. 2. 2.625" x .9687"  
 No. 3. 2.6875" x 1.4687"  
 No. 4. 2.750" x .9687"  
 No. 5. 2.8125" x 2.4687"  
 No. 6  
 No. 7  
 No. 8  
 No. 9

Crankshaft gear or sprocket—  
 Make Link Belt  
 Material C.D.S. #1112

CAMSHAFT

Camshaft gear or sprocket—  
 Make Link Belt  
 Material Cast Iron 13M  
 Timing chain—  
 Make Link Belt  
 Number of links 50  
 Width 13/16"  
 Pitch .500"

VALVES

INTAKE VALVE—

Make Thompson  
 Material 3140  
 Overall length 5.250"  
 Actual overall diameter of head 1.7812"  
 Minimum port diameter 1.375"  
 Angle of seat 45°  
 Is valve seat an insert? No  
 Stem diameter .3720"  
 Stem to guide clearance .0015" to .0035"  
 Lift .347"  
 Spring pressure and length—  
 Outer—

VALVES (cont'd)

With valve closed—lb. 52 ins. 1.9375"  
 With valve open—lb. 120 ins. 1.5938"  
 Length out of engine—ins. 2.380"  
 Inner—  
 With valve closed—lb. 24 ins. 1.660"  
 With valve open—lb. 52 ins. 1.320"  
 Length out of engine—ins. 2.100"

EXHAUST VALVE—

Make Thompson, Eaton or Rich  
 Material XCR or 2112N  
 Overall length 5.250"  
 Actual overall diameter of head 1.4375"  
 Minimum port diameter 1.0625"  
 Angle of seat 45°  
 Is valve seat an insert? No Material  
 Stem diameter .3715"  
 Stem to guide clearance .0021" to .0039"  
 Lift .348"  
 Spring pressure and length—  
 Outer—  
 With valve closed—lb. 52 ins. 1.9375"  
 With valve open—lb. 120 ins. 1.5938"  
 Length out of engine—ins. 2.380"  
 Inner—  
 With valve closed—lb. 24 ins. 1.660"  
 With valve open—lb. 52 ins. 1.320"  
 Length out of engine—ins. 2.100"

Operating tappet clearance (hot or cold)—intake —  
 Tappet clearance for valve timing—intake —  
 Operating tappet clearance (hot or cold)—exhaust —  
 Tappet clearance for valve timing—exhaust —  
 Hydraulic valve lifters—yes or no Yes

Valve timing—

Intake opens 14 degrees BUDC piston travel inches  
 Intake closes 71 " ALDC " " inches  
 Exhaust opens 56 " BLDC " " inches  
 Exhaust closes 25 " AUDC " " 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 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—*  
 Not lower than 32°F. **20W or SAE 20**  
 As low as plus 10°F. **20W**  
 As low as minus 10°F. **10W**  
 Below minus 10°F. **5W or 10W + 10%**  
 Normal oil pressure—*lbs. at M.P.H.* **35 at 35 M.P.H.** **Kerosene**  
 Pressure at which relief valve opens **35**  
 \*\*Capacity of oil reservoir—*quarts, dry* **8** *refill* **7**  
 Oil pressure gauge make **A. C.**  
 Oil reservoir level gauge type **Stick**  
 Floating type oil intake—*yes or no* **Yes**  
 External oil filter make **A. C.**  
 Other type of oil cleaner **None**  
 Oil cooler make **None**  
 Chassis lubrication—*Make* **Lincoln Mfg.**

**FUEL**

Gasoline tank—*capacity* **19 Gallons**  
 Fuel feed—  
 Type—*vacuum tank, electric pump, gravity vacuum pump or camshaft pump* **Camshaft Pump**  
 Make **A. C.** Model **Type AH**  
 Carburetor—  
 Make **Stromberg or Carter** Model **AAVB-267 or WCD-726S**  
 Number used **1**  
 Size **1.250"**  
 Type—  
 Up or down draft **Down** Single or dual **Dual**  
 Intake manifold heat control—*manual, automatic or none* **Automatic**  
 Automatic choke, make **Stromberg or Carter** Model  
 Air cleaner—*intake silencer* make **A. C.**  
 Type—*dry felt; oil bath; oil coated fibre* **Oil Bath**  
 Heavy Duty type—*Make* Model  
 Muffler make **Walker or Hayes**  
 Tail pipe diameter **2"**

**COOLING**

Water pump—  
 Type **Centrifugal Ball Bearing-Spring Loaded Seal**  
 Drive **Single 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 **Yes Cellular**  
 Make **Harrison**

**COOLING (cont'd)**

**Without Heater With Heater**  
 Cooling system—*capacity, quarts* **17-3/4** **19**  
 Water jackets full length of cylinders—*yes or no* **No**  
 Water all around cylinder—*yes or no* **Yes**  
 Lower radiator hose—  
 Inside diameter **1.5625"** Length **Elbow Type**  
 Upper radiator hose—  
 Inside diameter **1.5625"** Length **Elbow Type**  
 Fan belt—  
 Make **Various**  
 Angle of vee  
 Length, outside Width, maximum **1"**  
 Fan—  
 Make **Hayes Industries** No. of Blades **5**

**IGNITION**

Ignition units—  
 Make **Delco Remy** Model **1110815**  
 Manual or octane selector, *degrees advance* *retard*  
 Maximum centrifugal advance crankshaft, *degrees* **22 - 26**  
 at **3000** engine R.P.M.  
 Inches of Mercury Necessary to operate Vacuum Advance (Plus or minus 1 inch) **6 to start; 12 for full travel**  
 Maximum Vacuum advance crankshaft, *degrees* **10 - 12**  
 Breaker gap **.015"** Breaker arm tension **19 - 23 oz.**  
 Cam angle **\*** *deg.*  
 Timing—*Breaker points open* **6** *degrees crankshaft rotation*  
~~*on* *inches-piston-travel (after or before) top center*~~  
~~*with octane selector in the* *position*~~  
 Timing mark location—*flywheel, vibration dampener or none* **Flywheel**  
 Firing order **1-6-2-5-8-3-7-4**  
 Amperage draw of ignition coil—  
 With engine stopped **4.50**  
 With engine idling **2.50**  
 Spark plug—  
 Thread—*10 m.m., 14 m.m. or 18 m.m.* **14 MM**  
 Make **A. C.** Model **48**  
 Gap **.025"**  
 Ignition cable make **Packard Electric**

**BATTERY**

Make **Delco Remy** Model **17E4-W**  
 Capacity—*ampere hours* **120** @ 20 hour rate  
 Number of plates per cell **17**  
 Bench charging rate—  
 Start **1 Amp per Pos. Plate** finish **1 Amp per Pos. Plate**  
 Which battery terminal is grounded **Negative**  
 Location of battery **Under Hood**

\* Do not recommend using a dwell meter for checking point opening.

\*\* Add 1-1/2 quarts for dry oil filter.

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**STARTING MOTOR**

Make Delco Remy Model 1107953  
 Normal engine cranking speed 90 R.P.M.  
 Brush spring tension 24 - 28 Oz.  
 Lock test—  
 Amperage draw 600  
 Volts 3  
 Torque in pounds feet 16  
 No load test—  
 Amperage draw 65  
 Volts 5.67 R.P.M. 5500  
 Type of drive—~~Denite~~ or sliding gear with overrunning clutch  
 Starting device—~~Solenoid~~ Solenoid  
 Starter operation—check items required to start engine  
 1. Turn on ignition Yes  
 2. Depress starter pedal  
 3. Depress accelerator pedal Yes  
 4. Depress clutch pedal  
 5. Operate button on dash  
 6. Pull out throttle  
 Starting motor pinion meshes front or rear Front  
 No. of teeth in flywheel 156  
 Face width of flywheel teeth .6719"  
 Gear ratio between starter armature and flywheel 17.33 - 1

**GENERATOR**

Make Delco Remy Model 1102709  
 Type—~~third brush~~, shunt, etc. Shunt  
 Brush spring tension 24 - 32 Oz.  
 Current regulator, voltage regulator or current and voltage control unit Current & Voltage  
 Maximum controlled charging rate  
 Temperature Hot  
 Amperes 40  
 Voltage 8  
 R.P.M. 2400 Approx.  
 Cutout relay—  
 Voltage at closing 6.1 - 6.8 at 150°F  
 Amperes to open, reverse current -1 to -6  
 Air gap .020"  
 Voltage regulator—  
 Volts 7.4  
 Temperature 150°F  
 Air gap .075"  
 Current regulator—  
 \* Amperes 40 - 46  
 Temperature 150°F  
 Air gap .075"  
 Car speed for maximum charging rate 25 M.P.H. Approx.  
~~Ammeter~~ or charge indicator make A. C.

**LAMPS**

Lighting switch make Delco Remy  
 Are tail and dash lights in series No - Parallel  
 Headlights—  
 Make Guide Lamp  
 Location—*in fender, in catwalk, or radiator shell* In Fender  
 Parking or fender light make Guide Lamp  
 Tail and stop light make Guide Lamp  
 Horn—  
 Type—*vibrator or motor* Vibrator No. used 2  
 Make Delco Remy  
 Amperage draw of each Left 17-19 Right 19-21

**CLUTCH**

Make No Clutch  
 Drive type—  
 Direct to flywheel face  
 Through fluid flywheel  
 Semi-centrifugal  
 Power operated unit—make  
 Vibration insulation or neutralizer—*fabric, rubber blocks or springs*  
 No. of clutch driving discs  
 No. of clutch driven discs  
 Clutch facing—  
 Material—*woven or moulded asbestos, cork*  
 Inside diameter  
 Outside diameter  
 Thickness  
 No. required

**TRANSMISSION**

Transmission—  
 Make Own Model Series 70  
 No. of forward speeds Infinite Variable  
 Manual shift—yes, no Yes  
 Automatic or auxiliary shifting mechanism—yes X no  
 If yes, Make Dynaflo Drive  
 Type—*centrifugal, vacuum, electric or hydraulic* 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  
 In high 1 - 1 In fourth  
 In low 1.82 - 1 In reverse 1.82 - 1

\* At 8 Volts - Voltage regulator not operating.

\*\* Maximum Converter Torque Ratio 2.24 - 1. Ratio in high 1 x Torque Ratio. Ratio in low 1.82 x Torque Ratio. Ratio in reverse 1.82 x Torque Ratio.

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**TRANSMISSION (cont'd)**

Constant mesh gears on second .....  
 Spur or helical gears—  
     For second speed .....  
     For <sup>Low</sup> third speed ..... **Helical - Planetary Set**  
     For reverse speed ..... **Helical - Planetary Set**  
     For all speeds .....  
 Synchronous meshing and third gears .....  
 Transmission oil—  
     Capacity—pints ..... **22**  
     Grade recommended—S.A.E. viscosity  
         Summer ..... \* ..... Winter ..... \*  
 Universal joints—  
     Make ..... **Saginaw**  
     Number used ..... **One**  
     Type—metal with anti-friction bearing or metal with plain bearing ..... **Metal with Plain Bearing**  
     Lubricated with ..... **Transmission Lubricant**  
 Drive taken through springs, torque arm, torque tube or radius rods ..... **Torque Tube**  
 Torque taken through springs, torque arm, torque tube or radius rods ..... **Torque Tube**

**REAR AXLE**

Rear axle—  
     Make ..... **Own** ..... Model **Series 70**  
     Type—Semi, full or three-quarter floating ..... **Semi-floating**  
 Minimum road clearance under center of rear axle—tires inflated ..... **8.26"**  
 Rear axle oil—  
     Capacity—pints ..... **4**  
     Grade and type recommended—S.A.E. viscosity  
     \*\*S.A.E. **90 Hypoid Gear Lubricant GM 4655M**  
         Summer ..... Winter .....  
 Type of gearing—spiral bevel, worm, hypoid ..... **Hypoid**  
 Gear ratio—standard 5-passenger 4-door sedan ..... **3.6 - 1**  
     Optional gear ratios ..... **3.9 - 1**  
 Number of teeth—  
     In ring gear ..... **47** ..... **13**  
     In pinion ..... **43** ..... **11**  
 How is pinion adjusted—screw or shims ..... **Shims**  
 How is pinion bearing adjusted—screw or shims ..... **None**  
 Are pinion bearings carried in sleeve ..... **No**  
 Backlash between pinion and ring gear ..... **.006" to .010"**

**TIRES and WHEELS**

Tires—  
     Make ..... **U. S., Firestone and Goodrich**  
     Size ..... **8.00 - 15"** ..... No. of plies ..... **4**

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

	<b>Cold</b>	<b>Warm</b>	<b>Cold</b>	<b>Warm</b>
*** Inflation pressure—Front	<b>24</b>	<b>27</b>	Rear	<b>24</b> <b>27</b>
Rim—Diameter	<b>15"</b>		Width	<b>6.50" L</b>

**SPRINGS**

**FRONT SPRING—**

Independent or conventional suspension ..... **Independent**  
 Type—coil, semi-elliptic, transverse, torsion ..... **Coil**  
 Make ..... **Own**  
 Material ..... **Steel 9260**  
 Torsional stabilizer at front ..... **Yes**  
 If leaf—  
     Length ..... Width .....  
     Number of leaves—5-passenger, 4-door sedan .....  
     Are radius rods used on axis .....  
 If coil—  
     Free length ..... **15.0"**  
     Length under curb weight ..... **9.25"**

**REAR SPRING—**

Independent or conventional suspension ..... **Coil Spring Susp.**  
 Type—coil, semi-elliptic, transverse, torsion ..... **Coil**  
 Make ..... **Own**  
 Material ..... **Steel 9260**  
 Torsional stabilizer at rear ..... **No**  
 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 ..... **19.375"**  
     Length under curb weight ..... **9.5625"**  
     Rate for above ..... **117** ..... 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 ..... **165 CC** ..... rear ..... **165 CC**

\* Dynaflo Fluid.  
 \*\* Seasonal changes are not recommended.  
 \*\*\* For winter driving add 2 Lbs. to above tire pressures.

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**STEERING**

Steering gear—  
 Type **Ball Bearing Worm and Nut**  
 Make **Saginaw** Model **Series 70**  
 Ratio **23.6 - 1**  
 Lubricant recommended **Steering Gear Lubricant**  
 Steering wheel diameter **18"**  
 Drag link longitudinal or transverse **None**  
 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 **5-1/4**  
 Car turning radius—feet—right, left or both **20.9**  
 Caster—degrees **1/4 Pos.** to **1-1/2 Pos.**  
 Camber—degrees or **7/8 Pos. inches** to **5/8 Neg.**  
 Toe-in—**inches** **1/16"** to **1/8"**  
 Crosswise inclination of kingpin—degrees **4-1/4** at **3/8** Camber  
 Front axle—  
 Make ..... Model .....  
 Section type—**I-beams, tubular or none**  
 End type—**Elliott or reverse Elliott**  
 Minimum road clearance—**tires inflated** **7.28"**

**BRAKES**

Foot brakes—  
 Make **Bendix or Delco**  
 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 **12"**  
 Lining—  
 Length per wheel **23.0625"**

**BRAKES (cont'd)**

Width **2.25"** Thickness **.1875"**  
 Clearance—**toe** **.015"** **heel** **.015"**  
 Total foot braking area **207.5 Sq. In.**  
 Percent braking power on rear wheels **47**  
**Parking Brake**  
 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** **5.5625"**  
 Thickness—**maximum** **.1562"**  
 Flange width—**maximum** **2.250"**  
 Wheelbase **126.3"**  
 Tread—  
 Front **59.1"**  
 Rear **62.2"**  
 Weight of standard 5-passenger, four-door sedan—  
 Shipping .....  
 Curb .....  
 Price of standard 5-passenger, 4-door sedan .....  
 First serial number, this series **See Note**  
 Serial number location **Plate on Lt. Frt. Door Pillar—**  
**stamped on Left Side Rail - Near Front**  
 Overall length of car—  
 With bumpers and bumper guards **208.8"**  
 Overall width of car **80.0"**  
 Overall height, road to roof with no load **64.4"**

Note: Flint 1-5360001; Southgate 2-5370001; Linden 3-5374001; Kansas City 4-5380001; Wilmington 5-5388001; Atlanta 6-5393001; Framingham 7-5397001.

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

BEARINGS

Water pump <sup>and fan</sup> bearing—  
 Make or type **New Departure 885156**  
 Size or number **954208**

Fan bearing—  
 Make or type .....

Starting motor commutator end bearing—  
 Make or type **Oilless Bushing**  
 Size or number **.750" x .563" x .9688"**

Starting motor drive end bearing—  
 Make or type **Oilless Bushing**  
 Size or number **.563" x .625" x .8437"**

Starting motor <sup>middle</sup> ~~outboard~~ bearing—  
 Make or type **Oilless Bushing**  
 Size or number **.7575" x .812" x .7187"**

Generator commutator end bearing—  
 Make or type **Bushing**  
 Size or number **.5625" x .7835" x .7969"**

Generator drive end bearing—  
 Make or type **New Departure 3203**  
 Size or number **903203**

Transmission main drive gear front pilot bearing—  
 Make or type .....

Clutch throwout bearing—  
 Make or type .....

Transmission <sup>Pilot Bearing in Primary Pump Cover</sup> ~~main drive gear rear bearing~~—  
 Make or type **Ball**  
 Size or number **954439**

Transmission <sup>Front Pump Body</sup> ~~main shaft front pilot bearing~~—  
 Make or type **Bushing**  
 Size or number **1331471**

Transmission <sup>Reverse Ring Gear</sup> ~~main shaft rear bearing~~—  
 Make or type **Bushing**  
 Size or number **1333074**

Transmission <sup>Rear Bearing Retainer</sup> ~~countershaft front bearing~~—  
 Make or type **Bushing**  
 Size or number **1333719**

Transmission <sup>Brake Drum High and Low</sup> ~~countershaft rear bearing~~—  
 Make or type **Bushing**  
 Size or number **1333007**

Transmission <sup>Case</sup> ~~reverse idler bearing~~—  
 Make or type **Bushing**

BEARINGS (cont'd)

Size or number **1335065**

Overdrive shaft rear bearing—  
 Make or type .....

Size or number .....

Overdrive shaft pilot bearing—  
 Make or type .....

Size or number .....

Main shaft extension bearing—  
 Make or type .....

Size or number .....

Rear axle pinion shaft front bearing—  
 Make or type **New Departure**  
 Size or number **905607**

Rear axle pinion shaft rear bearing—  
 Make or type **Hyatt - Two Used**  
 Size or number **126047**

Differential right bearing—  
 Make or type **Bower or Hyatt**  
 Size or number **1317716 or 187434**

Differential left bearing—  
 Make or type **Bower or Hyatt**  
 Size or number **1317716 or 187434**

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

Rear wheel outer bearing—  
 Make or type **Hyatt**  
 Size or number **111121**

Front wheel inner bearing—  
 Make or type **New Departure**  
 Size or number **909062**

Front wheel outer bearing—  
 Make or type **New Departure**  
 Size or number **909025**

Kingpin upper bearing—  
 Make or type **Split Bushing**  
 Size or number **1266949**

Kingpin lower bearing—  
 Make or type **Split Bushing**  
 Size or number **1266949**

Kingpin thrust bearing—  
 Make or type **Hoover 3021 or Nice 4984**  
 Size or number **148393 or 134630**

Make of Car Brick Model Series 70 Roadmaster Date December 14, 1949

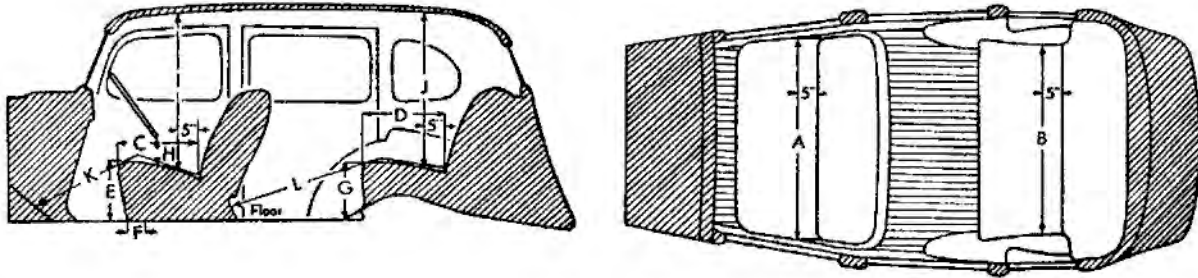
- NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.  
 (2) Enter on top line your own model name, or series mark corresponding to Standard,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

EQUIPMENT	Models		
	Standard	DeLuxe	Custom
Catalog Designation of Model	Series 70		
Lacquer make	Duco		
Body finish, <i>lacquer or synthetic enamel</i>	Lacquer		
Fender finish, <i>lacquer or synthetic enamel</i>	Lacquer		
Hardware make	Ternstedt		
Speedometer make	A. C.		
Gasoline gauge make	A. C.		
Thermometer make	A. C.		
Car lock make	Briggs & Stratton or Delco	Ray	
Car lock operates on ignition or ignition and steering	Ignition		
Clock make <i>mechanical or electrical</i>	Borg or New Haven		
Cigar lighter make	Casco or Rochester		
Safety glass make	L.O.F.		
Safety glass type, <i>laminated or tempered</i>	Safety Plate Glass		
In windshield	Laminated		
In side windows	Laminated		
In rear window	Tempered		
Bumper make	Standard Steel Spring Co.	or Gordon Mfg. Co.	
Bumper guard make	Brown, Lipe, Chapman		
Car heater make	Type		
Direction signal make	Guide Lamp		
Front—yes or no <b>Yes</b> Rear—yes or no <b>Yes</b>			
No. of tail lights included	2		
No. of visors included	2		
No. of horns included	2		
No. of windshield wipers included	2		
No. of spare tires included	1		



Make of Car ..... Buick ..... Model Series 70 Roadmaster Date December 14, 1949

**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) .....	63.8"
Width of rear seat cushion, measured 5 inches from back (B) .....	63.0"
Depth of front seat cushion (C) .....	17.9"
Depth of rear seat cushion (D) .....	17.9"
Height of front seat cushion measured 12½ inches from center line of body (E) .....	13.36"
Front seat horizontal adjustment, inches (F) .....	4.00"
Front seat vertical adjustment, inches .....	.25"
Height of rear cushion measured 12½ inches from center line of body (G) .....	11.83"
Vertical distance steering wheel and seat cushion (H) .....	4.8"
Head room at front seat, measured 5 inches from back (I) .....	35.1"
Head room at rear seat, measured 5 inches from back (J) .....	34.8"
Leg room in front seat, measured from 6 inches up on toe board, following contour of seat cushion (K) .....	43.3"
Leg room in rear seat, measured from center of foot rest, following contour of seat cushion (L) .....	39.6"
Trunk capacity, cubic feet .....	—
Width of left front pillar on diagonal with door closed .....	3.06"

Make of Car ..... Buick ..... Model Series 70 Roadmaster ... Date December 14, 1949

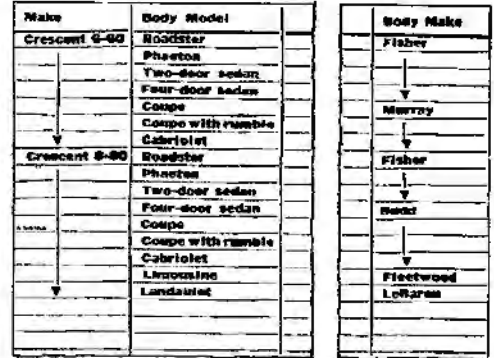
BODY DETAIL AND EQUIPMENT FORMS

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 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
Roadmaster 76S	Sedanet		6	126.3"		3	Fisher
Roadmaster 71	4-Door Sedan		6	126.3"		4	Fisher
Roadmaster 73	4-Door Sedan		6	126.3"		4	Fisher
Roadmaster 76C	Convertible Coupe		6	126.3"		3	Fisher
Roadmaster 76R	Riviera		6	126.3"		3	Fisher
Roadmaster 72	4-Door Sedan		6	130.3"		4	Fisher
Roadmaster 79	Estate Wagon		6	126.3"		4	Ionia Mfg. Co

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.