

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

Make of Car..... **Buick** ..... Model **Series 50 Super** .....  
 Name of Maker..... **Buick Motor Division** ..... Address **Flint, Michigan** .....

Date **December 14, 1949**  
 Revised **July 24, 1950**

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 .. **3-3/16"** ..... Stroke **4-1/8"** .....  
 Cylinder head, cast iron or aluminum ..... **Cast Iron** .....  
 Cylinder sleeve, Yes..... No. **X** .....  
 Piston displacement ..... **263.3 Cu. In.** .....  
 Taxable horsepower ..... **32.51** .....  
 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. .... **124** ..... at.... **3600** ..... R.P.M.

—With Standard Accessories—\*

Maximum brake hp. .... **119** ..... 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. ... **220** ..... at. **2000** ..... R.P.M.

With standard accessories,\* lb. ft. ... **217** ..... at. **2000** ..... R.P.M.

Compression Ratio—

Standard ..... **6.9 to 1** ..... Optional. .... **—** .....

Standard compression pressure —pounds—

At cranking speed ..... **118** .....

At what R.P.M. **150** at **1000** R.P.M. ....

PISTONS and RINGS **Sterling Aluminum Prod. Inc., Aluminum Alloys Corp., Aluminum Co.**

Piston **of America, and Bohn Aluminum and Brass Corporation.**

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

Features—~~split skirts, iron cast, oval, tin plated, aluminum oxide finish, anti-thermic, V-Ridge, porous chrome plate, etc.~~ **Cam Ground Turbulator Top-Trans. Slot**

Weight—ounces—without rings, pin or bushing... **12.912** .....

Length ..... **3.76"** .....

Clearance—

Top land ..... **.019"** ..... to ..... **.027"** .....

Skirt, top ..... **.0021"** ..... bottom ..... **.0015"** .....

## PISTONS and RINGS (cont'd)

Piston ring groove depth—

Oil ..... **.162"** ..... Compression ..... **.162"** .....

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

Width of oil rings Upper ..... **.1875"** Lower ..... **.1865"** .....

\*\*Width of oil ring gap Upper ..... **.015"** Lower ..... **.0016"** (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 ..... **.147"** Lower ..... **.155"** .....

Maximum wall thickness of compression rings Upper ..... **.160"** Lower ..... **.160"** .....

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

## RODS and PINS

Wristpin—

Material ..... **C.D.S. 1115** .....

Length **2.6875"** ..... Diameter **.8127"** .....

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 ..... **7.3750"** .....

Material ..... **1145 Forged Steel** .....

Weight—ounces ..... **28.096** .....

Crankpin journal—

Diameter ..... **2.125"** ..... Length **1.030"** .....

Lower bearing—

Material ..... **Durox 100-A** .....

Clearance ..... **.0005"** ..... to ..... **.0018"** .....

End play ..... **.005"** ..... to ..... **.010"** .....

Shim strip—solid, laminated or none..... **None** .....

Spun or separate ..... **Separate** .....

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

## CRANKSHAFT

Material ..... **1145 Steel Forging** .....

Weight—stripped ..... **90 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 muffler or fan.

Make of Car Buick Model Series 50 Super Date December 14, 1949

CRANKSHAFT (cont'd)

Crankshaft counterweights used, number of 8  
 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 ream No  
 Material Steel Backed Durex - 100-A  
 Clearance .0005" - .0020"  
 Shim—solid, laminated or none None  
 Main bearing journal diameter x length—  
 No. 1 2.5625" x 1.2656"  
 No. 2 2.5625" x 1.0312"  
 No. 3 2.5625" x 1.5469"  
 No. 4 2.5625" x 1.0312"  
 No. 5 2.5625" x 1.7812"  
 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 49  
 Width 13/16"  
 Pitch .500"

VALVES

INTAKE VALVE—

Make Thompson, Rich or Eaton  
 Material 3140  
 Overall length 5.1094"  
 Actual overall diameter of head 1.5313"  
 Minimum port diameter 1.125"  
 Angle of seat 45°  
 Is valve seat an insert? No  
 Stem diameter .3720  
 Stem to guide clearance .0015" to .0035"  
 Lift .348"  
 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 5.1094"  
 Actual overall diameter of head 1.3438"  
 Minimum port diameter 1.0313"  
 Angle of seat 45°  
 Is valve seat an insert? No Material  
 Stem diameter .3715"  
 Stem to guide clearance .0021" to .0039"  
 Lift .342"  
 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 13 degrees BUDC piston travel inches  
 Intake closes 68 " ALDC " " inches  
 Exhaust opens 55 " BLDC " " inches  
 Exhaust closes 22 " 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

Make of Car..... Buick ..... Model Series 50 Super ..... Date December 14, 1949

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% Kero-  
 none ..  
 Normal oil pressure—lbs. at M.P.H. 35 at 35 M.P.H. ..  
 Pressure at which relief valve opens 35 ..  
 \*\* Capacity of oil reservoir—quarts, dry 6-1/2 refill 5-1/2 ..  
 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-7258 ..  
 Number used 1 ..  
 Size 1.125" ..  
 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 Vee Cellular ..  
 Make Harrison ..

COOLING (cont'd)

|  | Without Heater   | With Heater           |
|--|------------------|-----------------------|
| Cooling system—capacity, quarts                  | 13               | 14-1/4                |
| Water jackets full length of cylinders—yes or no | No               | No                    |
| Water all around cylinder—yes or no              | Yes              | 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 7.750" |
| Fan—   |                  |                       |
| Make   | Hayes Industries |                       |
| No. of Blades                                    | 4                |                       |

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 4 degrees crankshaft rotation  
 or ~~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 15E4-W ..  
 Capacity—ampere hours 100 @ 20 hour rate ..  
 Number of plates per cell 15 ..  
 Bench charging rate—  
 Start 1 Amp. per Pos. Plate finish 1 Amp. per Pos. Plat ..  
 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.

Make of Car..... **Buick** ..... Model **Series 50 Super** ..... Date **December 14, 1949**

**STARTING MOTOR**

Make **Delco Remy** ..... Model **110707B** .....  
 Normal engine cranking speed **90 R.P.M.** .....  
 Brush spring tension **24 - 28 Oz.** .....  
 Lock test—  
     Amperage draw **525** .....  
     Volts **3.37** .....  
     Torque in pounds feet **12** .....  
 No load test—  
     Amperage draw **65** .....  
     Volts **5.67** ..... R.P.M. **5000** .....  
 Type of drive—**Bendix** or sliding gear with overrunning clutch .....  
 Starting device—**Solenoid, manual** or **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 **146** .....  
 Face width of flywheel teeth **.547"** .....  
 Gear ratio between starter armature and flywheel **16.22 to 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 and 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 **Buick (Disc by Long or Borg & Back)** .....  
 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 **One and flywheel** .....  
 No. of clutch driven discs **One** .....  
 Clutch facing—  
     Material—**woven or matted asbestos, cork** **Woven** .....  
     Inside diameter **6"** .....  
     Outside diameter **10"** .....  
     Thickness **.125"** .....  
     No. required **2** .....

**TRANSMISSION**

Transmission—  
 Make **Own** ..... Model **Series 50** .....  
 No. of forward speeds **3** .....  
 Manual shift—**yes, no** **Yes** .....  
 Automatic or auxiliary shifting mechanism—**yes** **no** **X** .....  
     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** **Direct** .....  
 Transmission ratio—  
     In overdrive ..... In second **1.66 - 1** .....  
     In third **Direct** ..... In fourth .....  
     In low **2.67 - 1** ..... In reverse **3.02 - 1** .....

\* At 8 Volts - Voltage Regulator not operating.

Make of Car..... Buick Model Series 50 Super Date December 14, 1949

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 ..... 1-3/4  
     Grade recommended—S.A.E. viscosity  
         Summer \* Winter \*  
 Universal joints—  
     Make ..... Saginaw or Spicer  
     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 50  
     Type—Semi, full or three-quarter floating ..... Semi-Floating  
 Minimum road clearance under center of rear axle—tires inflated ..... 7.76"  
 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 ..... 3.9 - 1  
     Optional gear ratios ..... 3.6 - 1  
     Number of teeth— 43 11  
         In ring gear 47 In pinion 13  
     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 & Goodrich  
     Size ..... 7.60 - 15 No. of plies ..... 4

- \* "All Purpose" Gear Lubricant; SAE 90 for temperature not lower than -10°F. and SAE 80 for temperatures lower than -10°F.
- \*\* Seasonal changes are not recommended.
- \*\*\* For winter driving, add 2 Lbs. to above tire pressures.

TIRES and WHEELS (Cont'd) Cold Warm Cold Warm  
 \*\*\* Inflation pressure—Front 24 27 Rear 24 27  
 Rim—Diameter ..... 15" Width ..... 6.50"

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 axle .....  
 If coil—  
     Free length ..... 14.750"  
     Length under curb weight ..... 9.250"

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 ..... 9.563  
     Rate for above ..... 107 ..... pounds per inch  
 Shock absorbers—  
     Make ..... Dalco  
     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

Make of Car..... Buick ..... Model Series 50 Super ..... Date December 14, 1949

**STEERING**

Steering gear—  
 Type ... Ball Bearing Worm & Nut  
 Make ... Saginaw ..... Model ... Series 50  
 Ratio ... 19.8 - 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 ... 4-1/2  
 Car turning radius—feet—right, left or both ... 19.75  
 Caster—degrees Positive 1/4 to Positive 1-1/2  
 Camber—degrees or 7/8 Pos. or 5/8 Neg.  
 Toe-in—inches 1/16" to 1/8"  
 Crosswise inclination of kingpin—degrees 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 ... 6.82"

**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 ... 1.750" ..... Thickness ... .1875"  
 Clearance—sleeve ... .015" ..... heel ... .015"  
 Total foot braking area ... 161.5 Sq. In.  
 Percent braking power on rear wheels ... 47  
 Parking Brake  
 Hand lever operates on—transmission, separate rear, rear service  
 ice 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 ... 1.094"  
 Flange width—maximum ... 2.250"  
 Wheelbase ... 121.5"  
 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 L. Frt. Door Pillar and  
 stamped on left side rail - near front  
 Overall length of car—  
 With bumpers and bumper guards ... 204"  
 Overall width of car ... 80.0"  
 Overall height, road to roof with no load ... 63.9"

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

Make of Car..... Buick ..... Model Series 50 Super ..... Date December 14, 1949

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 <sup>and Fan</sup> bearing—  
 Make or type ..... New Departure 885156 .....  
 Size or number ..... 954208 .....

Fan bearing—  
 Make or type .....  
 Size or number .....

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 ..... .500" x .562" x .7813" .....

Starting motor outboard bearing—  
 Make or type .....  
 Size or number .....

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 ..... New Departure 7109 .....  
 Size or number ..... 907109 .....

Clutch throwout bearing—  
 Make or type ..... CTL-48 BGA or N. D. ....  
 Size or number ..... 1308159 or 954222 .....

Transmission main drive gear rear bearing—  
 Make or type ..... New Departure 47507 -X57 .....  
 Size or number ..... 954114 .....

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

Transmission main shaft rear bearing—  
 Make or type ..... New Departure 3206 .....  
 Size or number ..... 903206 .....

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

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

Transmission reverse idler bearing—  
 Make or type ..... Bushing .....

## BEARINGS (cont'd)

Size or number ..... 1307898 .....

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 .....

# 1950 MODEL SPECIFICATIONS

Make of Car       Buick       Model       Series 50 Super       Date       December 14, 1949      

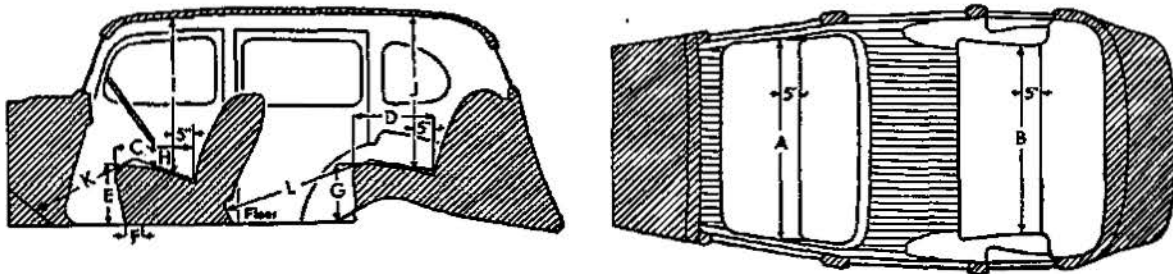
**NOTE: (1) List only that equipment which is included in the factory delivered price. Special equipment which is fitted, but not included in the factory delivered price should be listed with its additional price.**  
**(2) Enter on top line your own model name, or series mark corresponding to Standard,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

| EQUIPMENT  | Models                     |        |                 |
|--|----------------------------|--------|-----------------|
|  | Standard                   | DeLuxe | Custom          |
| Catalog Designation of Model                           | Series 50                  |        |                 |
| 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 Dalco |        | Remy            |
| 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 Spg. 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                            | One                        |        |                 |



Make of Car..... Buick..... Model ... Series 50 Super..... 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) .....   | 35.5"  |
| 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) .....       | 39.2"  |
| Trunk capacity, cubic feet .....  | —      |
| Width of left front pillar on diagonal with door closed .....   | 3.06"  |

Make of Car..... Buick..... Model ..Series 50 Super..... 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          | Body Model        | Body Make |
|---------------|-------------------|-----------|
| Crescent 8-80 | Roadster          | Fisher    |
|               | Phaeton           |           |
|               | Two-door sedan    |           |
|               | Four-door sedan   |           |
|               | Coups             |           |
|               | Coups with rumble |           |
|               | Cabriolet         |           |
|               |                   | Murray    |
|               |                   |           |
|               |                   | Fisher    |
|               |                   |           |
|               |                   | Buick     |
|               |                   |           |
|               |                   |           |
|               |                   | Plattwood |
|               |                   | LeBaron   |

| MAKE AND MODEL | BODY TYPE<br>List Types on Ascending Price Scale Beginning with the Lowest Price | Factory Delivered Price Including Federal Tax and Handling Charge | Number of Passengers | Wheel-base | Shipping Weight | Seating Arrangement Number<br><small>See Below</small> | Body Make      |
|----------------|--|---|----------------------|------------|-----------------|--|----------------|
| Super 56S      | Sedanet  |   | 6                    | 121.5"     |                 | 3  | Fisher         |
| Super 51       | 4-Door Sedan   |   | 6                    | 121.5"     |                 | 4  | Fisher         |
| Super 53       | 4-Door Sedan   |   | 6                    | 121.5"     |                 | 4  | Fisher         |
| Super 56C      | Convertible Coupe  |   | 6                    | 121.5"     |                 | 3  | Fisher         |
| Super 56R      | Riviera  |   | 6                    | 121.5"     |                 | 3  | Fisher         |
| Super 52       | 4-Door Sedan   |   | 6                    | 125.5"     |                 | 4  | Fisher         |
| Super 59       | Estate Wagon   |   | 6                    | 121.5"     |                 | 4  | Tonia 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.