

AMA Specifications – Passenger Car

Data prepared and distributed by American automobile manufacturers, using uniform questionnaire form developed by car manufacturers under auspices of the Automobile Manufacturers Association.

| | | | | | | |
|--------------------|---|-------------------|---------------|--------------------|---------|----------------|
| MAKE OF CAR | BUICK | MODEL YEAR | 1959 | DATE ISSUED | 8-29-58 | REVISED |
| COMPANY | BUICK MOTOR DIVISION, GENERAL MOTORS CORPORATION, FLINT, MICHIGAN | | | | | |
| MODEL NAME | <u>SYMBOL</u> | MODEL NAME | <u>SYMBOL</u> | | | |
| LeSabre | Series 4400 | Electra | Series 4700 | | | |
| Invicta | Series 4600 | | Series 4800 | | | |

TABLE OF CONTENTS

| | | | |
|------------------------------------|------------------------------------|------------------------------|-----------------------------------|
| General Specifications 1 | Drive Units 12 | Rear Suspension 18 | Body & Car - General 25 |
| Engine - Mechanical 2 | Brakes 15 | Body Dimensions 19 | Weights 26 |
| Electrical 8 | Front Suspension & Steering . . 16 | Station Wagon 24 | Index 27 |

NOTES:

1. The specifications set forth herein are those in effect at the date of compilation and are subject to change without notice. UNLESS OTHERWISE INDICATED:
2. All specifications are standard for the models under which they are listed.
3. Specifications apply basically to 4-door sedan or equivalent. Body dimensions shown on pages 19-24 include other body models available.
4. All dimensions are nominal engineering dimensions.

GENERAL SPECIFICATIONS

| MODEL | Additional Information Page No.: | LeSabre | Invicta | Electra | |
|--|----------------------------------|----------------------|---------|------------|----------------|
| | | 4400 | 4600 | 4700 | 4800 |
| Wheelbase (L-101) | 22 | 123.0 | | 126.3 | |
| Tread | Front (W-101) | 62.4 | | | |
| | Rear (W-102) | 60" | | | |
| Maximum Overall Dimensions | Length (L-103) | 217.4 | | 220.6 | 225.4 |
| | Width (W-103) | 80.7 | | | |
| | Height (H-101) | 57.1 | | 57.3 | |
| Transmission-- (Specify trade name - opt., not available) | Manual | Standard | | N.A. | |
| | Overdrive | | | N.A. | |
| | Automatic | **Optional | | *Standard | |
| Axle ratio | Manual | 3.58 | | N.A. | |
| | Overdrive | | | N.A. | |
| | Automatic | ***3.07 | | ***3.23 | |
| Tire size | 15 | ***7.60-15 | | 8.00-15 | |
| Engine (Used with Turbine Type Trans.) | Type, no. cyl., valve arr. | 90°V, Eight, In Head | | | |
| | Fuel system (Carb. or inj.) | Carburetor | | | |
| | Bore and stroke | 4.125 x 3.4 | | | 4.1875 x 3.640 |
| | Piston displ., cu. in. | 364 | | 401 | |
| | Std. compression ratio | 10.5 | | | |
| | Max. bhp at engine rpm | *****250 @ 4400 | | 325 @ 4400 | |
| | Mdx. torque at rpm | *****384 @ 2400 | | 445 @ 2800 | |

- *Twin Turbine Standard. Triple Turbine Available at Extra Cost. Rev. Form 1-58
- **Twin Turbine or Triple Turbine Available at Extra Cost.
- ***8.00-15 Available at Extra Cost on 4600 Only.
- ****2.78 With Triple Turbine Transmission. 3.23 With Power Pack and Twin Turbine Transmission. (Series 4400)
- *****When Equipped With Turbine Type Transmission.

AMA Specifications – Passenger Car

Data prepared and distributed by American automobile manufacturers, using uniform questionnaire form developed by car manufacturers under auspices of the Automobile Manufacturers Association.

MAKE OF CAR BUICK **MODEL YEAR** 1959 **DATE ISSUED** 8-29-58 **REVISED**

COMPANY BUICK MOTOR DIVISION, GENERAL MOTORS CORPORATION, FLINT, MICHIGAN

| MODEL NAME | SYMBOL | MODEL NAME | SYMBOL |
|------------|-------------|------------|-------------|
| LeSabre | Series 4400 | Electra | Series 4700 |
| Invicta | Series 4600 | | Series 4800 |

TABLE OF CONTENTS

| | | | | | | | |
|----------------------------------|---|---------------------------------------|----|---------------------------|----|--------------------------------|----|
| General Specifications | 1 | Drive Units | 12 | Rear Suspension | 18 | Body & Car - General | 25 |
| Engine - Mechanical | 2 | Brakes | 15 | Body Dimensions | 19 | Weights | 26 |
| Electrical | 8 | Front Suspension & Steering | 16 | Station Wagon | 24 | Index | 27 |

NOTES:

1. The specifications set forth herein are those in effect at the date of compilation and are subject to change without notice. UNLESS OTHERWISE INDICATED;
2. All specifications are standard for the models under which they are listed.
3. Specifications apply basically to 4-door sedan or equivalent. Body dimensions shown on pages 19-24 include other body models available.
4. All dimensions are nominal engineering dimensions.

GENERAL SPECIFICATIONS

| MODEL | Additional Information Page No.: | LeSabre | Invicta | Electra | |
|--|----------------------------------|----------------------|---------|----------------|-------|
| | | 4400 | 4600 | 4700 | 4800 |
| Wheelbase (L-101) | 22 | 123.0 | | 126.3 | |
| Tread | Front (W-101) | 62.4 | | | |
| | Rear (W-102) | 60" | | | |
| Maximum Overall Dimensions | Length (L-103) | 217.4 | | 220.6 | 225.4 |
| | Width (W-103) | 80.7 | | | |
| | Height (H-101) | 57.1 | | 57.3 | |
| Transmission— (Specify trade name - opt., not available) | Manual | Standard | | N.A. | |
| | Overdrive | | | N.A. | |
| | Automatic | **Optional | | *Standard | |
| Axle ratio | Manual | 3.58 | | N.A. | |
| | Overdrive | | | N.A. | |
| | Automatic | ***3.07 | | ***3.23 | |
| Tire size | 15 | ***7.60-15 | | 8.00-15 | |
| Engine (Used with Turbine Type Trans) | Type, no. cyl., valve arr. | 90°V, Eight, In Head | | | |
| | Fuel system (Carb. or inj.) | Carburetor | | | |
| | Bore and stroke | 4.125 x 3.4 | | 4.1875 x 3.640 | |
| | Piston displ., cu. in. | 364 | | 401 | |
| | Std. compression ratio | 10.5 | | | |
| | Max. bhp at engine rpm | ****250 @ 4400 | | 325 @ 4400 | |
| | Max. torque at rpm | ****384 @ 2400 | | 445 @ 2800 | |

- *Twin Turbine Standard. Triple Turbine Available at Extra Cost. Rev. Form 1-58
- **Twin Turbine or Triple Turbine Available at Extra Cost.
- ***8.00-15 Available at Extra Cost on 4600 Only.
- ****2.78 With Triple Turbine Transmission. 3.23 With Power Pack and Twin Turbine Transmission. (Series 4400)
- *****When Equipped With Turbine Type Transmission.

AMA Specifications – Passenger Car

| | | | |
|---------------------------------|-------------------------------|-----------------------------------|----------------------------------|
| MAKE OF CAR <u>BUICK</u> | MODEL YEAR <u>1959</u> | DATE ISSUED <u>8-29-58</u> | REVISED _____ |
| MODEL | <u>LeSabre</u> 4400 | <u>Invicta</u> 4600 | <u>Electra</u> 4700 4800 |

ENGINE—GENERAL

| | | | |
|--|---------------|----------------------|----------------|
| Type, no. cyls., valve arr. | | 90°V, Eight, In Head | |
| Bore and stroke | | 4.125 x 3.4 | 4.1875 x 3.640 |
| Piston displacement, cu. in. | | 364 | 401 |
| Bore spacing (C/L to C/L) | | 4.750 | |
| No. system (front to rear) | L. Bank | 2-4-6-8 | |
| | R. Bank | 1-3-5-7 | |
| Firing order | | 1-2-7-8-4-5-6-3 | |
| Compress. ratio (nominal) | Standard SYN. | 8.5 | None |
| | Optional*** | 10.5 | |
| Cylinder Head Material | Standard SYN. | Cast Iron | None |
| | Optional*** | Cast Iron | |
| Cylinder Sleeve - Wet, dry, none | | None | |
| Number of mounting points | Front | Two | |
| | Rear | ** | |
| Taxable $\text{Dia.}^2 \times \text{No. Cyl.}$ horsepower 2.5 | | 54.45 | 56.11 |
| Published max. bhp at engine RPM* | Standard SYN. | N.A. | None |
| | Optional *** | 250 @ 4400 | 325 @ 4400 |
| Published max. torque* (lb. ft. @ RPM) | Standard SYN. | N.A. | None |
| | Optional *** | 384 @ 2400 | 445 @ 2800 |
| Recommended fuel regular - premium | Standard SYN. | Regular | None |
| | Optional*** | Premium | |
| Recommended idle speed (neutral) | | 485 | |

ENGINE—PISTONS

| | |
|--------------------------|--|
| Material | Aluminum Alloy |
| Description and finish | Cam Ground - Transverse Slot Divorced Skirt |
| Weight (piston only) oz. | 22.64 23.68 |

* Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

***One Mounting With Synchronesh or Twin Turbine Transmission. (Continued) Rev. Form 6-57
Two Used When Triple Turbine
Transmission is Specified.

***When Turbine Type Transmission Equipped.

AMA Specifications – Passenger Car

| | | | |
|--------------------------|------------------------|---|---------------------------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE ISSUED 9-16-58 REVISED | |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 4800 |

ENGINE PISTONS (Cont.)

| | | | |
|--------------------|------------|-------------|---------------|
| Clearance (limits) | Top land | .029 - .037 | |
| | Skirt | Top | .0008 - .0014 |
| | | Bottom | .0018 - .0034 |
| Ring groove depth | No. 1 ring | .211 - .219 | |
| | No. 2 ring | .214 - .221 | |
| | No. 3 ring | .216 - .224 | .214 - .221 |
| | No. 4 ring | None | |

ENGINE—RINGS

| | | |
|--------------------------|---|----------------------|
| Function (top to bottom) | No. 1, oil or comp. | Compression |
| | No. 2, oil or comp. | Compression |
| | No. 3, oil or comp. | Oil |
| | No. 4, oil or comp. | None |
| Compression | Description - material, type, coating, etc. | Cast Iron - Lubrited |
| | Width | .077 - .078 |
| | Gap | .015 - .025 |
| Oil | Description - material, type, coating, etc. | Steel - Uncoated |
| | Width | .180 - .186 |
| | Gap | .015 - .035 |
| Expanders | | Steel - Oil Ring |

ENGINE—PISTON PINS

| | | |
|-----------|--|-----------------------|
| Material | GDS - 1118 | |
| Length | 3.520" | |
| Diameter | .9994 - .9997 | |
| Type | Locked in rod, in piston, floating, etc. | |
| | Pressed in Rod | |
| | Bushing | None |
| Clearance | In piston | None |
| | In rod | .0004 |
| | Direction & amount offset in piston | .0007 - .0015 (Press) |
| | | None |

ENGINE—CONNECTING RODS

| | | |
|---------------------------|--|-----------------------------------|
| Material | SAE 1141 | |
| Weight (oz.) | 23.20 | 24.384 |
| Length (center to center) | 6.100 | 6.220 |
| Bearing | Material & Type | |
| | Steel Backed M400 Aluminum - Removable | |
| | Overall length | .820 |
| | Clearance (limits) | .0002 - .0023 |
| | End play | .005 - .012 (Total For Both Rods) |

AMA Specifications – Passenger Car

| | | | | |
|---------------------------------|-------------------------------|--|------------------------|-------------|
| MAKE OF CAR <u>BUICK</u> | MODEL YEAR <u>1959</u> | DATE ISSUED <u>9-16-58</u> REVISED | | |
| MODEL | <u>LeSabre</u> 4400 | <u>Invicta</u> 4600 | <u>Electra</u> 4700 | <u>4800</u> |

ENGINE—CRANKSHAFT

| | | | | | |
|--|--|--|----------------|----------------|--|
| Material | | SAE 1145 | | | |
| Vibration damper type | | Rubber Absorption | | | |
| End thrust taken by bearing (No.) | | Five | Three | | |
| Crankshaft end play | | .004 - .008 | | | |
| Main bearing | Material & type | Steel Backed - Front Four M400 - Rear Durex 100A - All Removable | | | |
| | Clearance | .0005 - .0021 | | | |
| | Journal dia. and bearing overall length | No. 1 | 2.4985 x .940 | | |
| | | No. 2 | 2.4985 x .940 | | |
| | | No. 3 | 2.4985 x .940 | 2.4985 x .891 | |
| | | No. 4 | 2.4985 x .940 | | |
| | | No. 5 | 2.4985 x 1.199 | 2.4985 x 1.200 | |
| | | No. 6 | None | | |
| No. 7 | | None | | | |
| Dir. & amt. cyl. offset | | None | | | |
| Crankpin journal diameter | | 2.2495 | | | |

ENGINE—CAMSHAFT

| | | | | |
|----------------------|---|-----------------------------------|----|--|
| Location | | Above Crankshaft at Center of "V" | | |
| Material | | Cast Alloy Iron | | |
| Bearings | Material | Steel Backed Babbitt | | |
| | Number | Five | | |
| Type of drive | Gear or chain | Chain | | |
| | Crankshaft gear or sprocket material | Sprocket - Sintered Metal Powder | | |
| | Camshaft gear or sprocket material | Sprocket - Cast Iron | | |
| | Timing chain | No. of links | 52 | |
| Width | | .688 | | |
| Pitch | | .500 | | |

ENGINE—VALVE SYSTEM

| | | | | |
|---|---------|-------------------|--|--|
| Hydraulic lifters (Std, opt, NA) | | Standard | | |
| Special provision for valve rotation (intake, exhaust) | | None | | |
| Rocker ratio | | 1.6 | | |
| Operating tappet clearance (indicate hot or cold) | Intake | None | | |
| | Exhaust | None | | |
| Timing marks on fly-wheel, damper, other | | Harmonic Balancer | | |

(Continued)

Rev. Form 6-57

AMA Specifications – Passenger Car

| | | | | | | | |
|-------------|-----------------|-----------------|-----------------|--------------|---------|---------|--|
| MAKE OF CAR | BUICK | MODEL YEAR | 1959 | DATE: ISSUED | 9-16-58 | REVISED | |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 | | 4800 | | |

ENGINE—VALVE SYSTEM (cont.)

| | | | | | | | |
|--------------------------------------|--------------------------------------|-----------------------------|--------------|-------|--|--|-----------------|
| Timing | Intake | Opens (°BTC) | 25 | 35 | 33 | | |
| | | Closes (°ABC) | 77 | 73 | 77 | | |
| | | Duration - deg. | 282 | 288 | 290 | | |
| | Exhaust | Opens (°BBC) | 65 | 73 | 75 | | |
| | | Closes (°ATC) | 37 | 37 | 44 | | |
| | | Duration - deg. | 282 | 290 | 299 | | |
| Valve opening overlap | | 62° | 72° | 77° | | | |
| Intake | Material | | | | | Nickel - Chrome Alloy Steel | |
| | Overall length | | | | | 4.785 | |
| | Actual overall head dia. | | | | | 1.875 | |
| | Angle of seat | | | | | 45° | |
| | Seat insert material | | | | | None | |
| | Stem diameter | | | | | Tapered - .3715 ± .0005 to .3730 ± .0005 | |
| | Stem to guide clearance | | | | | Top - .001 - .003 - Bottom - .0025 - .0045 | |
| | Lift | | .403 | *.443 | .439 | | |
| | Outer spring press. and length | Valve closed (lb. @ in.) | 42 @ 1.600 | | | | |
| | | Valve open (lb. @ in.) | 96 @ 1.160 | | | | |
| | Inner spring press. and length | Valve closed (lb. @ in.) | 25.5 @ 1.690 | | | | |
| | | Valve open (lb. @ in.) | 76.0 @ 1.250 | | | | |
| | Exhaust | Material | | | | | S11 10 or 2155N |
| | | Overall length | | | | | 4.785 |
| Actual overall head dia. | | | | | 1.500 | | |
| Angle of seat | | | | | 45° | | |
| Seat insert material | | | | | None | | |
| Stem diameter | | | | | Tapered - .3705 ± .0005 to .3720 ± .0005 | | |
| Stem to guide clearance | | | | | .003 - .005 | | |
| Lift | | .403 | *.439 | .441 | | | |
| Outer spring press. and length | | Valve closed (lb. @ in.) | 42 @ 1.600 | | | | |
| | | Valve open (lb. @ in.) | 96 @ 1.160 | | | | |
| Inner spring press. and length | | Valve closed (lb. @ in.) | 25.5 @ 1.690 | | | | |
| | | Valve open (lb. @ in.) | 76 @ 1.250 | | | | |

ENGINE—LUBRICATION SYSTEM

| | | |
|--|----------------------|----------------------------------|
| Type of lubrication (splash, pressure, nozzle) | Main bearings | Pressure |
| | Connecting rods | Pressure |
| | Piston pins | Splash |
| | Camshaft bearings | Pressure |
| | Tappets | Pressure |
| | Timing gear or chain | Drip From Front Camshaft Bearing |
| | Cylinder walls | Splash and Nozzle |

*When Equipped With Turbine Type Transmission.

(Continued)

Rev. Form 6-57

AMA Specifications – Passenger Car

| | | | | |
|--------------------------|------------------------|-----------------------------|-----------------|----------------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE: ISSUED 8-29-58 | | REVISED |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 | 4800 |

ENGINE—LUBRICATION SYSTEM (cont.)

| | | | |
|---|--------------------------|----------------------|----------------------------|
| Oil pump type | Gear | | |
| Normal oil pressure (lb. @ engine rpm) | 40 @ 1600 | | |
| Oil pressure sending unit (elect. or mech.) | Mechanical | | |
| Type oil intake (floating, stationary) | Stationary | | |
| Oil filter system (full flow, partial, other) | Full Flow | | |
| Filter replacement (element, complete) | Element and Can | | |
| Capacity of crankcase, less filter-refill (qt.) | 4 | | |
| Oil grade recommended (SAE viscosity and temperature range) | <u>Anticipated Temp.</u> | <u>SAE Viscosity</u> | <u>SAE Multi-Viscosity</u> |
| | Not lower than +32° F | 20W or 20 | 10W-30 or 10W-20 |
| | Not lower than -10° F | 10W | 10W-20W or 10W-30 |
| | Below -10° F | 5W | 5W-10W or 5W-20 |
| Engine Service Requirement (MM, MS, etc.) | DG or MS | | |

ENGINE—EXHAUST SYSTEM

| | | |
|--|-------------------------|-------------------|
| Type (single, single with cross-over, dual, other) | *Single With Cross Over | Dual |
| Muffler No. & type (reverse flow, straight thru, separate resonator) | Two-Reverse Flow | Four-Reverse Flow |
| Exhaust pipe dia. (O.D. wall thickness) | Branch 2.0 - .076 | N.A. |
| | Main 2.0 - .076 | 2.25 - .076 |
| Tail pipe diameter (O.D. & wall thickness) | 2.0 - .048 | |

ENGINE—FUEL SYSTEM

(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. if used)

| | | | | |
|---|---|----------------------------------|-----------------------------------|------------------|
| Induction type: Carburetor, fuel injection, supercharger. | Carburetor | | | |
| Fuel Tank | Capacity (gals.) | 20 (Minimum) | | |
| | Filler location | Body - Rear Panel | | |
| Fuel Pump | Type (elec. or mech.) | Mechanical | | |
| | Locations | Engine | | |
| | Pressure range | 5.25 - 6.5 (At Carburetor Level) | | |
| Vacuum booster (std., optional, none) | N.A. | | | |
| Fuel Filter | Type | AC Glass Bowl | | |
| | Locations | Engine | | |
| Carburetor | Make & Model No. | Stromberg Carter | Carter - RPD | |
| | Number & Type | 1-Dual Downdraft (Standard) | 1 - 4Bbl. Downdraft | |
| | Barrel size | 1.4380 | 1.5625 Primary - 1.6875 Secondary | |
| | Choke type | Automatic | | |
| | Intake manifold heat control (exhaust or water) | Exhaust | | |
| | Air clnr. type | Standard | Alum. Element | Aluminum Element |
| | | Optional | None | |

*Dual Exhaust System Available as Optional Equipment.

AMA Specifications – Passenger Car

| | | | | |
|--------------------------|------------------------|--|---------|------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE: ISSUED 8-29-58 REVISED | | |
| | LeSabre | Invicta | Electra | |
| MODEL | 4400 | 4600 | 4700 | 4800 |

ENGINE—COOLING SYSTEM

| | | | |
|--|------------------------------|------------------------------------|---|
| Type (pressure system, atmospheric, other) | | Pressure | |
| Radiator cap relief valve pressure | | 15# | |
| Circulation thermostat | Type (choke, bypass) | By-Pass | |
| | Starts to open at (°F) | 167-172 | |
| Water pump | Type (centrifugal, other) | Centrifugal | |
| | Number of pumps | One | |
| | Drive (V-belt, other) | V-Belt | |
| | Bearing type | Two Single Row Ball Bearings | |
| By-pass recirculation type (internal, external) | | Internal | |
| Radiator core type (cellular, tube and fin, other) | | Tube and Center | |
| Cooling system capacity | With heater (qt.) | 19.0 | |
| | Without heater (qt.) | 16.5 | |
| | Opt. equipment-specify (qt.) | 16.5 | |
| Water jackets full length of cylinder (yes, no) | | No | |
| Water all around cylinder (yes, no) | | Yes | |
| Radiator hose | Lower | Number and type (molded, straight) | One-Molded |
| | | Inside diameter | 1.5625 |
| | Upper | Number and type (molded, straight) | One-Molded |
| | | Inside diameter | 1.5625 |
| | By-pass | Number and type (molded, straight) | None |
| | | Inside diameter | None |
| Fan | Number of blades & Spacing | | Four - 76° x 104° |
| | Diameter | | 18.5" |
| | Ratio-fan to crankshaft rev. | | .92 |
| | Fan cutout type | | **Torque Control |
| Bearing type | | ***Two Single Row Ball Bearings | |
| *Drive belts (indicate belt used by letter) | Fan | | "A" Generator and Water Pump |
| | Generator | | "A" Fan and Water Pump Drive |
| | Water Pump | | "A" Fan and Generator |
| | Power Steering | | "B" Fan and Water Pump Drive |
| | Air Conditioning | | "C" (Two) Fan, Generator and Water Pump Drive (Matched Set) "D" Fan, Water Pump and Power Steering Drive |

| * Drive Belt Dimensions | 364 Cubic Inch Engine | | | | 401 Cubic Inch Engine | | | |
|-------------------------|-----------------------|------------------|---------|------------------|-----------------------|------------------|---------|------------------|
| | A | B | C | D | A | B | C | D |
| Angle of V | 38° | 38° | 38° | 38° | 38° | 38° | 38° | 38° |
| Nominal length (SAE) | 53.26 | 50.34 **50.34 | **60.30 | 55.90 **55.62 | 53.26 | 50.50 **50.50 | **60.80 | 56.40 **56.90 |
| Width | .38 | .47 | .38 | .47 | .38 | .47 | .38 | .47 |

Rev. Form 1-58

**Used When Air Conditioning is Specified

***Common Bearing

AMA Specifications – Passenger Car

| | | | |
|--------------------------|------------------------|-----------------------------|-------------------------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE: ISSUED 9-16-58 | REVISED |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 4800 |

ELECTRICAL—SUPPLY SYSTEM

| | | | | |
|-----------|-------------------------------|--|-------------------------------------|--|
| Battery | Make and Model | Delco-Remy | | |
| | Voltage Rtg. & Total Plates | 12 - 66 | | |
| | SAE Designation & Amp Hr. Rtg | 3 KMR-70 | | |
| | Location | Left Fender Skirt - Underhood | | |
| | Terminal grounded | Negative | | |
| Generator | Make | Delco-Remy | | |
| | Model | ***1102147 | | |
| | Type | Shunt | | |
| | Ratio—Gen. to Cr/s rev. | ***2.4 | | |
| | Gen. cut-in—engine rpm | 514 @ 90°F | | |
| Regulator | Make | Delco-Remy | | |
| | Model | *1119242 | | |
| | Type | Voltage and Current Control | | |
| | Cutout relay | Closing voltage @ generator rpm | 11.8 - 13.6 (Adjust to 12.8 @ 1450) | |
| | | Reverse current to open | -1 to -6 | |
| | Regulated | Voltage | 14-15 (Adjust to 14.5) | |
| | | Current | **31-36 amps @ 125°F | |
| | Voltage test conditions | Temperature | 125° | |
| Load | | Run 15 Min. @ 10 amps | | |
| Other | | Battery Must Be in Circuit for Voltage Check | | |

ELECTRICAL—STARTING SYSTEM

| | | | | |
|----------------|---------------------------|---|-----------|-----------|
| Starting motor | Make | Delco-Remy | | |
| | Model | 1107724 | 1107739 | |
| | Rotation (drive end view) | Clockwise | | |
| | Engine cranking speed | 160 RPM (Approximately) | | |
| | Test conditions | Engine @ Operating Temperature | | |
| | Lock test | Amps | 300 - 360 | 290 - 370 |
| | | Volts | 3.5 | 2.0 |
| | | Torque (lb. ft.) | N.A. | |
| | No load test | Amps | 100 | 120 |
| | | Volts | 10.6 | |
| RPM (min.) | | 3600 | 4700 | |
| Motor control | Switch (solenoid, manual) | Solenoid | | |
| | Starting procedure | <ol style="list-style-type: none"> 1. Turn on Ignition 2. Depress Accelerator Pedal <p style="margin-left: 40px;">Note: Transmission Control Lever Must Be in Neutral or Park Position With Twin Turbine or Triple Turbine Equipped Cars.</p> | | |

*1119617 Used With Air Conditioning
 **42-47 Amps at 125°F With Air Conditioning
 ***1102138 Used With Air Conditioning
 ****2.82 With Air Conditioning

AMA Specifications – Passenger Car

| | | | | | | | |
|-------------|-----------------|-----------------|-----------------|--------------|---------|---------|--|
| MAKE OF CAR | BUICK | MODEL YEAR | 1959 | DATE: ISSUED | 9-16-58 | REVISED | |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 | 4800 | | | |

ELECTRICAL—STARTING SYSTEM (cont.)

| | | | | | | | |
|---------------------------|-----------------------------|----------|-----------------------------------|--|--|--|--|
| Motor drive | Engagement type | | Solenoid With Over-Running Clutch | | | | |
| | Pinion meshes (front, rear) | | Front | | | | |
| | Number of teeth | Pinion | 9 | | | | |
| | | Flywheel | 166 | | | | |
| Flywheel tooth face width | | .573 | .375 | | | | |

ELECTRICAL—IGNITION SYSTEM

| | | | | | | | |
|---------------------------|---|------------------------------------|---|---------|--|--|--|
| Coil | Make | | Delco-Remy | | | | |
| | Model | | 1115100 | | | | |
| | Amps | Engine stopped | 4.5 | | | | |
| Engine idling | | 2.5 | | | | | |
| Distributor | Make | | Delco-Remy | | | | |
| | Model | | *1110936 | | | | |
| | Centrifugal adv. in crankshaft degrees @ engine rpm | Start (rpm) | **900 to 1600 | | | | |
| | | Intermediate points deg. @ rpm | Straight-Line | | | | |
| | | Max deg. @ rpm | ***12 to 16° @ 3800 | | | | |
| | Vacuum adv. in crankshaft degrees @ in. Hg. | Start (in. Hg) | ****8.0 - 10.0 | | | | |
| | | Intermediate points, deg. @ in. Hg | # 10° @ 10 | 4° @ 10 | | | |
| | | Max. deg. in. Hg. | *****21° @ 14.5 in. Hg. | | | | |
| Breaker gap (in.) | | .0125 - .0175 | | | | | |
| Cam angle (deg.) | | 30° | | | | | |
| Breaker arm tension (oz.) | | 19 - 23 | | | | | |
| Timing | Crankshaft deg. @ rpm. | | *****12° BTC at Idle | | | | |
| | Mark location | | Harmonic Balancer | | | | |
| | Cylinder numbering system (see page 2) | | Left Bank 2-4-6-8 Front to Rear Right Bank 1-3-5-7 | | | | |
| Firing order (see page 2) | | 1-2-7-8-4-5-6-3 | | | | | |
| Spark Plug | Make and model | | AC-Type 44S | | | | |
| | Thread (mm) | | 14 | | | | |
| | Tightening torque (lb. ft.) | | 25 | | | | |
| | Gap | | .030 - .035 | | | | |
| Cable | Conductor type | | 4000 Ohms/Ft. Resistance Cable | | | | |
| | Insulation type | | Neoprene | | | | |
| | Spark plug protector | | Neoprene Boot | | | | |

ELECTRICAL—SUPPRESSION

| | |
|-------------|---|
| Description | 4000 Ohm/Ft. Spark Plug Wires and Coil to Distributor Wire. Coil .33 MFD Condenser. Generator .33 MFD Condenser. Voltage Regulator .50 MFD Condenser |
|-------------|---|

- *1110949 Used With 4400 Synchronesh
- **450-800 Used With 4400 Synchronesh
- ***24-28 @ 3750 Used With 4400 Synchronesh
- ****6.5-8.5 Used With 4400 Synchronesh
- *****21° @ 14 in. Hg. Used With 4400 Synchronesh
- *****5° @ 400 max. Used With 4400 Synchronesh
- #4° @ 10 in. hg. When Turbine Type Transmission Equipped

AMA Specifications – Passenger Car

| | | | | | | | |
|--------------------|-----------------|-------------------|-----------------|--------------------|---------|----------------|--|
| MAKE OF CAR | BUICK | MODEL YEAR | 1959 | DATE ISSUED | 8-29-58 | REVISED | |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 | | 4800 | | |

ELECTRICAL—INSTRUMENTS AND SWITCHES

| | | |
|-----------------------------|--|--|
| Speed-ometer | Make | AC |
| | Trip odometer (yes, no) | Yes |
| Charge indicator-type | | Ammeter |
| Temperature indicator-type | | Mechanical - Bourdon Tube |
| Oil pressure indicator-type | | Mechanical - Bourdon Tube |
| Fuel indicator-type | | Electrical |
| Other | | None |
| Ignition switch | Identify positions in order and circuits controlled | Center - Ignition, Stop Lights, Direction Signals, Back-up Lights, Starting Control, Blower Motor and Air Conditioning Rotated Counter-Clockwise - "Off" and Locked Rotated Clockwise - "Off" and Unlocked |
| | Provision for illumination | Yes |
| | Location | Right of Steering Column |
| Main lighting switch | Identify positions and lights controlled | 1st Position Out - Park and Taillights 2nd Position Out - Headlamps and Taillights Rotating Fully Counter-Clockwise - Turns Dome Light on and Instrument Lights on Bright Rotating Switch Knob Clockwise Dims Instrument Lights and Turns Dome Light "Off" Fully Clockwise Turns Instrument Lights "Off" |
| Other light switches | Locations and lamps controlled Map Light Trunk Lamp Glove Comp't Parking Brake Stop Light | *Lever at Map Light **Mercury Switch in Lamp Mechanically Operated by Door *On Parking Brake Release Bracket Hydraulic - On Frame Opposite Steering Gear |
| Other switches | Locations and devices controlled Direction Signal Back-up Lights Neutral Safety Wiper | Left Side of Steering Column *Steering Column Between Dash and Instrument Panel **Steering Column Between Dash and Instrument Panel Left Instrument Panel Extension |
| Windshield wiper | Make | Delco Products |
| | Type | Electric |
| | Vacuum booster provision | None |
| | Washer provision | ***Yes |
| Horn | Type | Solenoid |
| | Number used | Two |
| | Amp draw (each) | Both 7 to 11 @ 12V |

*Optional at Extra Cost on Series 4400, 4600 and 4700

Rev. Form 6-57

**Optional at Extra Cost on Series 4400

***Optional at Extra Cost on Series 4400 and 4600.

AMA Specifications – Passenger Car

| | | | | | | | |
|--------------------|-----------------|-------------------|------|--------------------|---------|----------------|--|
| MAKE OF CAR | BUICK | MODEL YEAR | 1959 | DATE ISSUED | 9-16-58 | REVISED | |
| MODEL | LeSabre 4400 | Invicta 4600 | | Electra 4700 | | 4800 | |

ELECTRICAL--LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

| | | | |
|-------------------------|--|----------------------------|--------|
| Headlamps & arrangement | 2-4001 (Upper Beam) 2-4002 (Lower Beam) Guide T-3 Horizontal | | |
| Headlamp beam indicator | 1-53 | | |
| Parking light | 2-1034 | | |
| Tail light | 2-1034 | | |
| Stop light | Same as Taillight | | |
| Direction signal | Front | Same Bulb as Parking Light | |
| | Rear | Same Bulb as Taillight | |
| | Indicator | 2-53 | |
| License plate light | 1-67 (2-67 on Estate Wagon and Vermont Sold Cars) | | |
| Instrument light | 10-57 | | |
| Ignition lock light | None | | |
| Back up light | | *2-1073 | 2-1073 |
| Dome light | 1-1004 | | 2-90 |
| Clock light | *1-57 | | 1-57 |
| Radio light | | *1-1891 | |
| Glove compartment light | | 1-57 | |
| Map Light | | *1-90 | 1-90 |
| Brake Indicator | | *1-57 | 1-57 |
| Dyn. Sel. Light | *1-57 | | 1-57 |
| Ash Tray | **1-53 | | 1-53 |

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA *Accessory at Extra Cost **Standard with Automatic Transmission

Use trade number of fuse, e.g., SFE-10. indicate circuit breaker by ampere capacity suffixed by letters "C.B." e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lights SFE-10 (a), Direction indicator same as (a).

| | | | |
|----------------------------|--|-----------|------|
| Headlamp | 15CB (a) | | |
| Headlamp beam indicator | (a) | | |
| Parking light | (a) | | |
| Tail light | 10AGC (f) | | |
| Stop light | 10AGC (b) | | |
| Direction indicator | (b) | | |
| License plate light | (f) | | |
| Instrument light | 5AGC (d) | | |
| Ignition light | None | | |
| Back up light | 10AGC | | |
| Dome light | SFE-20 (c) | | |
| Clock | *2AGA | | 2AGA |
| Clock light | *(d) | | (d) |
| Radio | *7.5 Special - 4 AGW Transistor Portable | | |
| Glove compartment light | (e) | | |
| Map Light | | *5AGC (e) | (e) |
| Trunk Light | *(c) | | (c) |
| Blower, Heater, A.C. | *SFE-20 | | |
| Cigar Lighter | Special | | |
| Antenna Motor | *15AGC | | |
| Windows & Seat | *40CB | | 40CB |
| Safety Buzz. & Brake Warn. | *5AGC | | 5AGC |
| Windshield Wiper | | 25AGC | |

AMA Specifications – Passenger Car

| | | | |
|---------------------------------|-------------------------------|---|---------------------------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE: ISSUED 8-29-58 REVISED | |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 4800 |

DRIVE UNITS—CLUTCH (Manual Transmission)

| | | |
|-----------------------------|-------------------------------------|---------------|
| Make & type | Long - Dry Type | None |
| Type pressure plate springs | Coil | None |
| Total plate pressure (lb.) | 1845 | None |
| No. of clutch driven discs | One | None |
| Clutch facing | Material | Woven |
| | Outside & inside dia. | 11.0" x 7.00" |
| | Total eff. area (sq.in.) | 113.0 |
| | Thickness | .125 |
| Release bearing | Engagement cushioning method | Spring |
| | Type & method of lubrication | Ball Sealed |
| Torsional damping | Methods: springs, friction material | Spring |

DRIVE UNITS—TRANSMISSIONS

| | | |
|--------------------------------------|-----------|------------|
| Manual (std. or opt.) | Standard | N.A. |
| Manual with overdrive (std. or opt.) | | N.A. |
| Automatic (std. or opt.) | *Optional | **Standard |

DRIVE UNITS—MANUAL TRANSMISSION

| | | | |
|------------------------------------|----------------------|---------------|--------|
| Number of forward speeds | 3 | N.A. | |
| Transmission ratios | In first | 2.153 | |
| | In second | 1.373 | |
| | In third | 1.0 | |
| | In fourth | | |
| | In reverse | 2.279 | |
| Synchronous meshing, specify gears | 2nd & 3rd | N.A. | |
| Lubricant | Capacity (pt.) | 2.5 | |
| | Type recommended | Multi-Purpose | |
| | SAE viscosity number | Summer | SAE-90 |
| | | Winter | SAE-90 |
| | | Extreme cold | SAE-90 |

*Twin Turbine or Triple Turbine Transmission Available at Extra Cost.

Rev. Form 6-57

**Twin Turbine Standard. Triple Turbine Available at Extra Cost.

AMA Specifications – Passenger Car

| | | | | | | | |
|--------------------------|------------------------|---------|---------|-----------------------------|--|----------------|--|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | | | DATE: ISSUED 8-29-58 | | REVISED | |
| MODEL | LeSabre | Invicta | Electra | | | | |
| | 4400 | 4600 | 4700 | 4800 | | | |

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

| | | | | | |
|-----------|---|------------------------------|--------|------|------|
| Overdrive | Type (planetary or other) | | | None | |
| | Manual lockout (yes, no) | | | None | |
| | Downshift accelerator control (yes, no) | | | None | |
| | Minimum cut-in speed | | | None | |
| | Gear ratio | | | None | |
| | Lu- bri- cant | Capacity (Overdrive only) | | | None |
| | | Separate filler (yes, no) | | | None |
| | | Type recommended | | | None |
| | | SAE vis- cosity number | Summer | | None |
| | | | Winter | | None |
| Ext. cold | | | None | | |

DRIVE UNITS—AUTOMATIC TRANSMISSION

| | | |
|---|--------------------------------------|---|
| Trade name | *Optional | ** |
| Type describe | | Torque Converter With Gears |
| Method of Selection (Lever, Push Button or other) | | Lever |
| Selector Pattern | | P-R-N-D-G (Triple Turbine) P-N-D-L-R (Twin Turbine) |
| List gear ratios Selector Pattern and indicate which are used in each selector position | | D - 1 x Converter Ratio L - 1.82 x Converter Ratio R - 1.82 x Converter Ratio |
| Max. upshift speeds—drive range | | None |
| Max. kickdown speeds—drive range | | None |
| Torque convertor | Number of elements | 5 |
| | Max. ratio at stall at engine rpm | *** 3.4 @ 3300 3.1 @ 2100 |
| | Type of cooling (air, water) | Water |
| Lubricant | Capacity—refill (pt.) | 24 |
| | Type recommended | *** |
| Special transmission features | | Stator Blade Angle Changes in Response to Throttle Position |

*Synchronesh Standard. Twin Turbine or Triple Turbine Transmission Rev. Form 6-57
Available at Extra Cost.

**Twin Turbine Standard. Triple Turbine Available at Extra Cost.

***Automatic Transmission Fluid Type "A" Must Be Identified by AQ-ATF Number
Embossed in Can or Special Buick Oil.

****3.4 @ 3150) When Twin Turbine is Specified
3.1 @ 1900)

AMA Specifications – Passenger Car

| | | | | |
|--------------------------|------------------------|-----------------------------|---------|----------------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE: ISSUED 8-29-58 | | REVISED |
| | LeSabre | Invicta | Electra | |
| MODEL | 4400 | 4600 | 4700 | 4800 |

DRIVE UNITS—PROPELLER SHAFT

| | | | | |
|---|---------------------------------------|---|------------------------------------|--|
| Number used | | Two | | |
| Type (exposed, torque tube) | | Torque Tube | | |
| Outer diameter x length* x wall thickness | Manual transmission | 2.748 x 48.68 | None | |
| | Front Shaft Only | x .065 | | |
| | Overdrive transmission | None | | |
| Automatic transmission | Front Shaft Only | 2.748 x 48.68 x .065 | 2.748 x 51.98 x .065 | |
| | | | | |
| Inter-mediate bearing | Type (plain, anti-friction) | Ball | | |
| | Lubrication (fitting, prepack) | Packed For Life | | |
| Universal joints | Make | Saginaw, Front - Saginaw or Spicer, Rear | | |
| | Number used | 2 | | |
| | Type (ball and trunion, cross, other) | Plain Cross, Front - Needle Bearing Cross, Rear | | |
| | Bearing | Type (plain, anti-friction) | Plain, Front - Anti-Friction, Rear | |
| Lubric. (fitting, prepack) | | Front By Transmission - Rear Packed For Life | | |
| Drive taken through (torque tube or arms, springs) | | Torque Tube | | |
| Torque taken through (torque tube or arms, springs) | | Torque Tube | | |

DRIVE UNITS—REAR AXLE

| | | | | | |
|---|------------------------|--|------------------|--|--|
| Description – (incl. limited slip differential) | | Hypoid Semi-Floating - (Standard) Positive Traction Differential - (Optional) | | | |
| Drive Pinion Offset | | 1.7500 | | | |
| No. of differential pinions | | **2 | | | |
| Gear ratio and No. of teeth | Automatic transmission | *** | **** | | |
| | Overdrive trans. | None | | | |
| | Manual transmission | 3.58 (43-12) | None | | |
| Ring gear pitch diameter & O.D. | | 9.375 - 9.375 | | | |
| Pinion adjustment (shim, other) | | Shim | | | |
| Pinion bearing adj. (shim, other) | | Shim | | | |
| Wheel bearing type | | Ball | | | |
| Lubricant | Capacity (pt.) | 6.5 | | | |
| | Type recommended | ****Hypoid Lubricant - GM4655M (90) | | | |
| | SAE viscosity number | Summer | SAE-90 - GM4655M | | |
| | | Winter | SAE-90 - GM4655M | | |
| Extreme cold | | SAE-90 - GM4655M | | | |

*Center to center of universal joints, or to centerline of rear attachment.

**Four Used With Optional Equipment Positive Traction Differential

***3.07 With Twin Turbine Transmission 2.78 With Triple Turbine. 3.23 With Power Pack

****3.23 With Twin Turbine Transmission 2.78 With Triple Turbine Transmission

*****Special Lubricant #BS-723 Used With Positive Traction Units

AMA Specifications – Passenger Car

| | | | |
|--------------------------|------------------------|--|---------------------------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE: ISSUED 9-16-58 REVISED | |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 4800 |

DRIVE UNITS—WHEELS

| | | | |
|-----------------------------------|---------------------|-------------------|----------|
| Type & material | | Disc - Steel | |
| Rim (size and flange type) | | 15-5.50K | 15-6.00L |
| Attachment | Type (bolt or stud) | Bolt | |
| | Circle diameter | 5.00" | |
| | Number and size | Five - (.5625-18) | |

DRIVE UNITS—TIRES

| | | | |
|-------------------------------|-----------------------|-----------------|-----------------|
| Standard | Size & ply | 7.60-15 (4-Ply) | 8.00-15 (4-Ply) |
| | Type - Nylon, etc. | Rayon | |
| | Sidewall color | ***Black | |
| Optional | Size & ply | 8.00-15 (4-Ply) | 8.00-15 (4-Ply) |
| | Type - Nylon, etc. | Rayon | |
| | Sidewall color | Black or White | White |
| Rev/mile at 30 mph | | 735 | 723 |
| Inflation press.(cold) | Front | 24 | |
| | Rear | *****24 | |

BRAKES—SERVICE

| | | | | |
|--|--------------------------|--|----------------------|----------------------|
| Type | | Hydraulic - Internal Expanding | | |
| Power brake type | | * | | |
| Effective area (sq. in.) | | 160.01 | | |
| Gross lining area (sq. in.) | | 218.03 | | |
| Percent brake effectiveness-front | | 55.9 | | |
| Drum | Diameter | Front | 12.015 | |
| | | Rear | 12.015 | |
| Type and material | | ** | | |
| Banded or riveted | | Riveted | | |
| Brake lining | Front Shoe | Material | Molded - Extruded | |
| | | Size (length x width x thickness) | Front wheel | 10.040 x 2.50 x .265 |
| | | | Rear wheel | 10.040 x 2.25 x .220 |
| | Segments per shoe | One | | |
| | Rear Shoe | Material | Molded - Extruded | |
| Size (length x width x thickness) | | Front wheel | 12.959 x 2.50 x .265 | |
| | | Rear wheel | 12.959 x 2.25 x .220 | |
| Segments per shoe | One | | | |
| Wheel cylinder bore | Front | 1.125 | | |
| | Rear | 1.00 | | |
| Master cylinder bore | | 1.00 | | |
| Available pedal travel | | 6.75 | 3.18 | |
| Line pressure at 100 lb. pedal load | | 600 | *** | |
| Shoe clearance adjustment | | .015 | | |

*Available At Extra Cost (Series 4400 and 4600) When Twin Turbine or Triple Turbine Equipped.

Rev. Form 1-58

**Front Drums Aluminum Body With Cast Iron Liners, Rear Drum 60 Pin Cast Iron - Standard On All Series.

***7.60-15 Whitewall Tires Available on Series 4400 and 4600 As Optional Equipment At Extra Cost.

****Power Brakes - 600# Line Pressure With 30# Pedal Load and 20" Hg. Vacuum.
*****28# on Estate Wagons.

AMA Specifications – Passenger Car

| | | | | |
|--------------------------|------------------------|--|-----------------|------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE: ISSUED 8-29-58 REVISED | | |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 | 4800 |

BRAKES—PARKING

| | | |
|---------------------------------|--|------|
| Type of control | Step On - Left Foot Operated | |
| Location of control | Left Side Cowl Panel | |
| Operates on | Rear Service Shoes | |
| If separate from service brakes | Type (internal or external) | None |
| | Drum diameter | None |
| | Lining size (length x width x thickness) | None |

FRAME or UNITIZED CONSTRUCTION

| | |
|----------------------|--|
| Type and description | Boxed Side Bars With "K" Type X-Member |
|----------------------|--|

SUSPENSION—GENERAL (See Supplemental page 16 for details on Air Suspension)*

| | | |
|------------------------------------|---|--------|
| Provision for car leveling | None | |
| Provision for brake dip control | Yes | |
| Provision for acc. squat control | No | |
| Special provisions for car jacking | Slot in Front Bumper Rail. .25" Indentation in Bottom of Lower Plate of Rear Bumper | |
| Shock absorber front & rear | Type | Direct |
| | Make | Delco |
| | Piston dia. | 1" |
| Other special features | * | |

SUSPENSION—FRONT

| | |
|----------------------|----------------------------|
| Type and description | Coil Spring and Ball Joint |
|----------------------|----------------------------|

(Continued) Rev. Form 1-58

* Air Suspension: Available on all models (rear only) at extra cost.
 Air spring type Diaphragm
 Compressor data Single cylinder
 type Delco
 make 875
 drive ratio Tank - (220-255# psi)
 Normal operating pressures 60# rear
 spring rates Dual height control valves (mechanical)
 leveling data

AMA Specifications – Passenger Car

| | | | |
|--------------------------|------------------------|--|---------------------------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE: ISSUED 9-16-58 REVISED | |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 4800 |

SUSPENSION FRONT (cont.)

| | | | | |
|------------|---|---------------|---------------|---------------|
| Spring | Type | Coil | | |
| | Material | 9260 | | |
| | Size (coil design height & I.D.; bar length x dia.) | ***146 x .700 | ***151 x .710 | ***151 x .721 |
| | Spring rate (lb. per in.) | ***375 | ***380 | ***400 |
| | Rate at wheel (lb. per in.) | ***92 | ***93 | ***97 |
| | Design load (lb. @ design height) | 2360 | 2430 | 2500 |
| Stabilizer | Type (link, linkless, frameless) | ** | | |
| | Material & bar diameter | ** | | |

STEERING

| | | | | |
|--|---|--------------------------------|---|------|
| Mechanical (std., opt., NA) | | Standard | None | |
| Power (std., opt., NA) | | *Optional | Standard | |
| Wheel diameter | | 17.0" | | |
| Turning diameter | Outside front | Wall to wall (l. & r.) | 46.8 | |
| | | Curb to curb (l. & r.) | 44.0 | |
| | Inside rear | Wall to wall (l. & r.) | 26.5 | |
| | | Curb to curb (l. & r.) | 27.3 | |
| Outside wheel angle with inside wheel at 20° | | 18.0 | | |
| Mechanical | Gear | Type | Recirculating - Ball Nut | |
| | | Make | Saginaw | |
| | Ratios | Gear | 23.6 | |
| | | Overall | 28.8 | |
| | No. wheel turns | 5 | | |
| Power | Type | Hydraulic | | |
| | Make | Saginaw In-line - Rotary Valve | | |
| | Trade name | Safety Power Steering | | |
| | Gear | Type | Recirculating Ball Nut Integral With Power Piston | |
| | | Ratios | Gear | 17.5 |
| | | | Overall | 19.7 |
| | Pump driven by | Belt | | |
| | Number wheel turns | 4 | | |
| Linkage | Type | Parallelogram | | |
| | Location (front or rear of wheels, other) | Rear of Wheels | | |
| | Drag link (trans. or longit.) | Transverse | | |
| | Tie rods (one or two) | Two | | |

*Available at Extra Cost (Continued) Rev. Form 1-58

** .75 O.D. (Link Type) on all Air Ride and Estate Wagons. (SAE 1084)

***181 x .703 With Air Ride (All Design Heights 10.3" - All I.D.'s - 4.05".)

****306 With Air Ride

*****75 With Air Ride

AMA Specifications – Passenger Car

| | | | | |
|--------------------------|------------------------|--|---------|------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE: ISSUED 9-16-58 REVISED | | |
| | LeSabre | Invicta | Electra | |
| MODEL | 4400 | 4600 | 4700 | 4800 |

STEERING (cont.)

| | | | | |
|--|-------------------------------|----------------------------|---|--|
| Steering Axis | Inclination at camber (deg.) | | 7° at 0° 50' Camber | |
| | Bearings (type) | Upper | Ball Joint Suspension Used | |
| | | Lower | Ball Joint Suspension Used | |
| | Thrust | Ball Joint Suspension Used | | |
| Wheel alignment (range and preferred) | Caster (deg.) | | 1.5° Negative (With Air Ride 1° Negative) | |
| | Camber (deg.) | | 30' Positive (Same With Air Ride) | |
| | Toe-in (outside tread-inches) | | .0625 - .1562 (Same With Air Ride) | |
| Steering spindle & joint type | | | Ball Joint Suspension | |
| Wheel spindle | Diameter | Inner bearing | 1.374" | |
| | | Outer bearing | .843" | |
| | Thread size | | .8125 - 16 U. N. | |
| | Bearing type | | Ball | |

SUSPENSION—REAR

| | | | | |
|--|---|---|------------------|-------------|
| Type and description | | Coil Standard - Air Ride (Rear) Available as Opt. Equipment | | |
| Drive and torq. taken through (see page 14) | | Torque Tube | | |
| Spring | Type | Coil | | |
| | Material | 9260 | | |
| | Size (length x width, coil design height and I.D.; bar length & dia.) | *134 x .580 | *137 x .591 | *142 x .610 |
| | Spring rate (lb. per in.) | 110 | 115 | 125 |
| | Rate at wheel (lb. per in.) | 110 | 115 | 125 |
| | Design load (lb. at design height) | 1055 | 1125 | 1205 |
| | Mounting insulation type | | Laminated Rubber | |
| If leaf | No. of leaves | | | |
| | Inserts | Type and size | | |
| | | Material | | |
| Shackle (comp. or tens.) | | | | |
| Stabilizer | Type (link, linkless, frameless) | | None | |
| | Material | | | |
| Track bar type | | Tubular Steel Bar Mounted in Rubber | | |

*Design Height - 10.5" (All) - I.D. - 5.5"

MAKE OF CAR BUICK **MODEL YEAR** 1959 **DATE: ISSUED** 8-29-58 **REVISED** _____

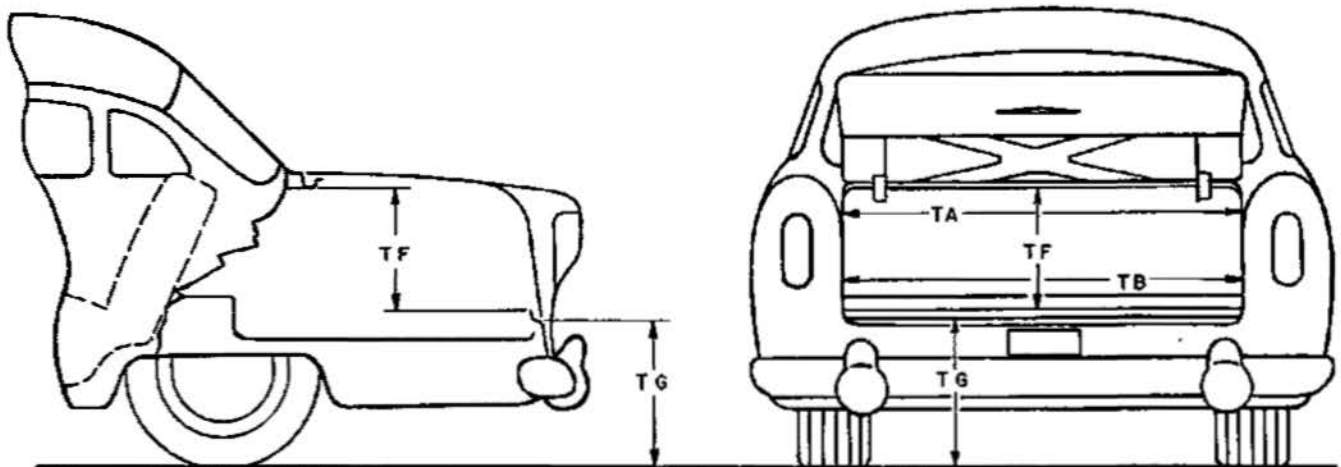
BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by the S.A.E. These are indicated by a number following the type of dimension, e.g. L 3. Additional dimensions have been added by the AMA Specifications Body Subcommittee for inclusion in the Questionnaire. These are shown by an additional letter, e.g., HA. Symbol "a" added as suffix to SAE dimensions indicates an AMA modification. The dimensions are developed from the following basic points:

1. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
2. Front and rear seat "B" points are located on seat back 15" from center of body at height of horizontal tangent to top of seat cushion.
3. Front seat is in the full down and normal rearmost position.
4. Loaded position—5 passenger, front 300 lb., rear 450 lb.; includes spare wheel, tire and tools, and full complement of gas, oil, water, and tires to recommended pressure, etc.
5. C/L (centerline).
6. D. L. O. (daylight opening, exposed glass dimension - pages 21, 23 & 25).
7. Ramp breakover angle (page 21) is the supplement of the included ramp angle (180° minus the included ramp angle) over which a car can pass without hanging up.

| MODEL | LeSabre | Invicta | Electra | |
|-------|---------|---------|---------|------|
| | 4400 | 4600 | 4700 | 4800 |

BODY—TRUNK DIMENSIONS

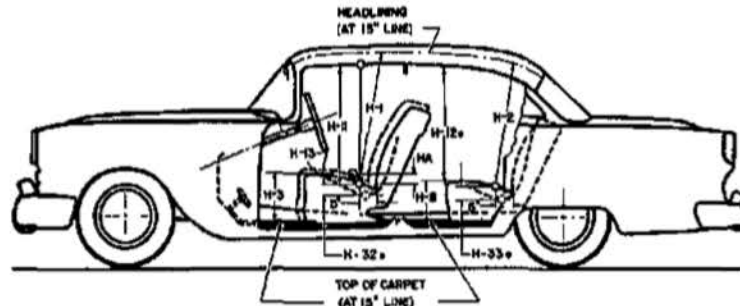


| | | |
|--|------------------------------------|------|
| Usable trunk luggage capacity (see Section H1 of SAE Automotive Drafting Standards) | 30.216 | N.A. |
| TA—Width across the top | 52.6 | |
| TB—Width across the bottom | 31.0 | |
| TF—Vertical dimension at C/L from bottom to top of opening. | 11.0 | |
| TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded) | 26.6 | 26.9 |
| Position of spare tire stowage | On Right Side On An Angle To Floor | |
| Method of holding lid open | Torsion Rods (Spring Loaded) | |

AMA Specifications – Passenger Car

MAKE OF CAR BUICK **MODEL YEAR** 1959 **DATE ISSUED** 9-16-58 **REVISED** _____

BODY—HEIGHT DIMENSIONS--INTERIOR

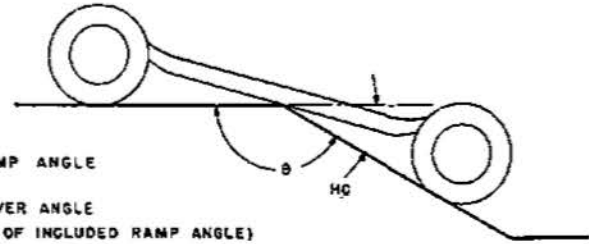
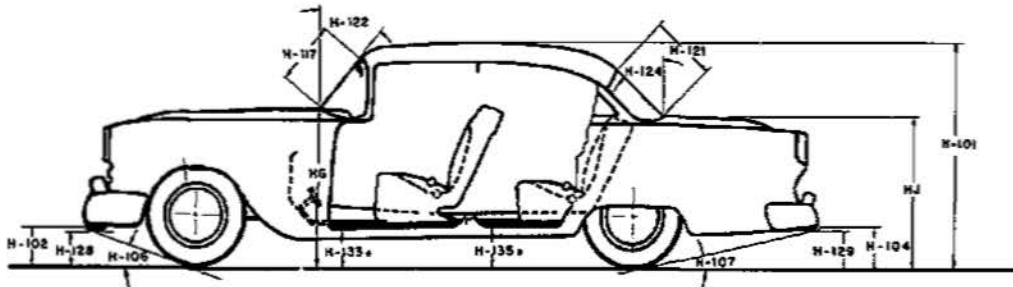


| MODEL | LeSabre | Invicta | Electra | |
|--|---------|---------|---------|------|
| | 4400 | 4600 | 4700 | 4800 |
| H1. Front headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line. (For "A" pt. see note 1, page 19) | 34.7 | | 34.3 | |
| H2. Rear headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line. | 33.9 | | 33.4 | 33.3 |
| H3. Front cushion height above low point on floor carpet on 15" line (front edge of cushion). | 9.8 | 9.6 | 10.0 | |
| H8. Rear cushion height above low point on floor carpet on 15" line (front edge of cushion). | 13.2 | | 13.8 | |
| H11. Entrance—front—cushion free "A" point to bottom windcord vertical. | 29.0 | | 29.2 | 29.7 |
| H12a. Entrance—rear—top of cushion at vertical tangent to front of rear seat, to bottom of windcord in rear. | 28.0 | | 27.2 | 27.7 |
| H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance). | 5.1 | | 4.7 | |
| HA. Front seat maximum vertical rise at free "A" point. | .5 | | | |
| HF. Front seat maximum vertical rise of free "A" point with multiple-position seat. | 1.7 | | | |
| H32a. Front seat depressed depth—vertical dimension from free "A" point to depressed "A" point. | 4.5 | | | |
| H33a. Rear seat depressed depth—vertical dimension from free "A" point to depressed "A" point. | 4.5 | | | |

AMA Specifications – Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1959 DATE: ISSUED 9-16-58 REVISED _____

BODY—HEIGHT DIMENSIONS—EXTERIOR



| MODEL | LeSabre | Invicta | Electra | |
|--|-----------------|---------|---------|-------|
| | 4400 | 4600 | 4700 | 4800 |
| H101. Overall height - loaded. | 57.1 | | 57.3 | |
| HB. Overall height - curb weight. | 58.6 | | 58.8 | |
| H102. Front bumper bottom to ground at normal section. | 11.0 | | 11.2 | |
| H104. Rear bumper bottom to ground at normal section. | 12.0 | | 12.2 | |
| H106. Angle of appr.-fr. tire static loaded rad. to interfering pt. on fr. bumper, gd., other. | 22.2° | | 22.7° | |
| H107. Angle of dep.-fr. tire static loaded rad. to interfering pt. on rr. bumper, gd., other. | 14.2° | | 14.4° | 13.2° |
| HC. Ramp breakover angle.* | 12.5° | | 12.3° | |
| H117. Windshield DLO-slant height. | 26.8 | | | |
| H121. Backlight DLO*-max., slant height. | 25.96 | | | |
| H122. Windshield slope angle to vertical line on car axis. | 48.8° | | | |
| H124. Backlight slope angle to vertical line on car axis. | 58.9° | | | |
| H128. Ground to bottom of front bumper guard. | 10.0 | | 10.2 | |
| H129. Ground to bottom of rear bumper guard. | Guards Not Used | | | |
| H133a. Bottom of front door to ground, min. dimension - car loaded. | 12.6 | | 12.8 | |
| H135a. Bottom of rear door to ground, min. dimension - car loaded. | 12.5 | | 12.7 | |
| HD. Min. road clear. (5 pass. load) & loc. | **6.1 | | **6.3 | |
| HE. Min. road clearance at rear axle. | 7.7 | | 7.9 | |
| HG. Hood at rr. to grd.-vert. dim. excl. molding, fr. hood opening line at cowl (curb wt.) | 39.4 | | 39.7 | |
| HH. Max. ht., fr. grd. frt. of windshield (curb wt.) | 41.09 | | 41.30 | |
| HJ. Max. ht. fr. grd. back of r. window (curb wt.) | 40.58 | | 40.81 | |

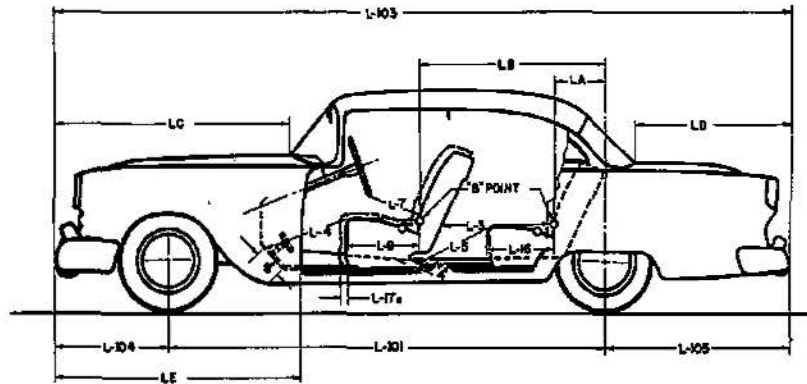
* See Notes, page 19.

**Rear Axle Strut Rod

AMA Specifications – Passenger Car

MAKE OF CAR BUICK **MODEL YEAR** 1959 **DATE ISSUED** 9-16-58 **REVISED**

BODY—LENGTH DIMENSIONS



| MODEL | LeSabre | Invicta | Electra | |
|--|---------|---------|---------|---------|
| | 4400 | 4600 | 4700 | 4800 |
| * L3. Rear compartment of front seat back to rear seat back. | 29.7 | | 33.0 | 32.6 |
| * L4. Leg room—front—ball of foot to top of seat to seat back—15" line. | 44.0 | 43.9 | 43.7 | |
| * L5. Leg room—rear—from ball of foot to top of seat cushion and to seat back. | 42.8 | 42.7 | 46.2 | 45.6 |
| L7. Steering wheel clearance to seat back taken on arc. | 14.1 | | 13.8 | |
| * L9. Front seat depth (front edge to vert. tan. to seat back on 15" line). | 18.9 | | 18.6 | |
| * L16. Depth of rear seat (front edge to seat back). | 18.4 | | | 18.0 |
| L17a. Total adjustment of front seat at front lower seat frame. | 4.75 | | | |
| LA. Rear seat "B" point to center line of rear axle. | 20.6 | | | |
| LB. Front seat "B" point to center line of rear axle. | 56.4 | | 60.0 | |
| LC. Front of car to base of windshield. | 58.6 | | | |
| LD. Rear of car to base of rear window or upper structure. | 48.81 | | | 53.51 |
| LE. Front of car to front edge of front door. | 69.96 | | | |
| L101. Wheelbase. | 123.0 | | 126.3 | |
| L103. Overall length (bumper to bumper inc. guards). | 217.4 | | 220.6 | **225.4 |
| L104. Overhang—front including bumper guards. | 34.6 | | | |
| L105. Overhang—rear including bumper guards. | 59.8 | | | 64.4 |

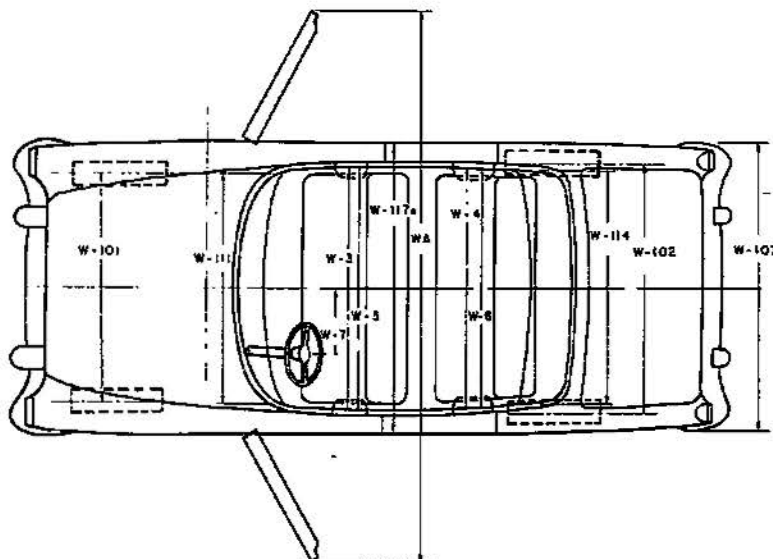
* Dimension taken on 15" line—see notes 1 & 2, page 19.

**220.6 Style 4867 (2 Door Convertible)

AMA Specifications - Passenger Car

MAKE OF CAR BUICK **MODEL YEAR** 1959 **DATE: ISSUED** 9-16-58 **REVISED** _____

BODY--WIDTH DIMENSIONS

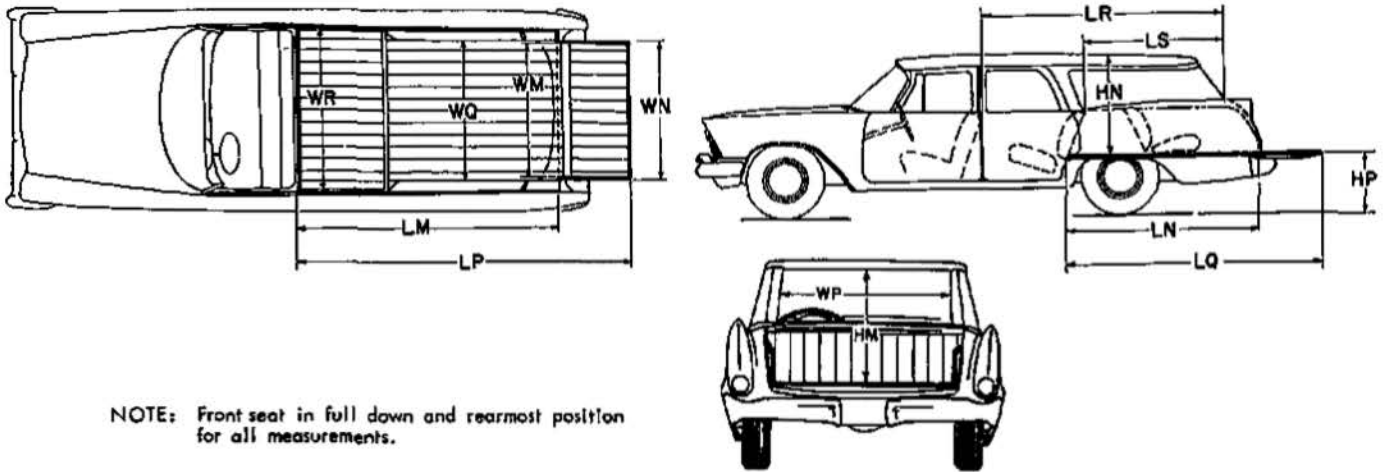


| MODEL | | LeSabre | Invicta | Electra | |
|--------------|--|---------|---------|---------|------|
| | | 4400 | 4600 | 4700 | 4800 |
| Interior | W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back. | 60.4 | | 60.0 | |
| | W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back. | 59.0 | | | |
| | W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back. | 65.4 | | 65.2 | |
| | W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back. | 65.4 | | 65.0 | 64.9 |
| | W7. Steering wheel center to center of body. | 16.3 | | | |
| Exterior | W101. Front tread at ground. | 62.4 | | | |
| | W102. Rear tread at ground. | 60.0 | | | |
| | W103. Max. overall width of car including bumpers or moldings. | 80.7 | | | |
| | WA. Max. overall width of car with doors open. | 154.4 | | | |
| | W111. Windshield DLO, max. width. | 64.66 | | | |
| | W114. Back window DLO, max. width. | 60.62 | | | |
| | W117a. Max. body width at center pillar, less hardware and applied moldings. | 79.0 | | | |

AMA Specifications – Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1959 DATE: ISSUED 9-16-58 REVISED _____

STATION WAGON—CARGO SPACE DIMENSIONS



| MODEL | LeSabre | Invicta |
|--|---------|---------|
| | 4435 | 4635 |
| LM Floor length from bottom of front seat to inside of tail gate in raised position. | | 94.4 |
| LN Floor lgth. from bottom of second seat to inside of tail gate in raised position. | | 61.5 |
| LP Floor lgth. from bottom of front seat to end of tail gate in lowered position. | | 123.1 |
| LQ Floor lgth. from bottom of second seat to end of tail gate - tail gate lowered. | | 90.2 |
| HM Maximum hght. of rear opening - tail gate lowered. | | 25.2 |
| WM Rear end opening width at floor. | | 50.5 |
| WN Rear end opening width at top of tail gate. | | 49.5 |
| WQ Minimum distance between wheelhouses. | | 39.0 |
| WP Maximum width of rear opening above raised tail gate. | | 45.4 |
| WR Maximum width of cargo space at floor. | | 54.1 |
| LR Cargo horizontal distance from top rear of front seat back to top of tail gate. | | 88.0 |
| LS Cargo horizontal distance from top rear of second seat back to top of tail gate. | | 51.2 |
| HN Maximum height of roof above floor at center line of car. | | 28.4 |
| HP Platform height of end of lowered tail gate - curb weight. | | 27.7 |
| Third Seat - facing direction. | | None |

AMA Specifications - Passenger Car

| | | | |
|--------------------------|------------------------|----------------------------|-------------------------|
| MAKE OF CAR BUICK | MODEL YEAR 1959 | DATE ISSUED 9-16-58 | REVISED |
| MODEL | LeSabre 4400 | Invicta 4600 | Electra 4700 4800 |

BODY—MISCELLANEOUS INFORMATION

| | | |
|---|-------------|---|
| Drs. hinged (front, rear) | Front doors | Front |
| | Rear doors | Front |
| Type of finish (lacquer, enamel). | | Acrylic Lacquer |
| Hood hinge location (front, rear). | | Rear |
| Hood counterbalanced (yes, no). | | Yes |
| Hood release control (internal, external). | | External |
| Vehicle (Serial) No. Location | | Plate Welded to Left Front Pillar of Body |
| Engine No. location | | *Same as Vehicle Serial Number |
| Theft protection - type | | None |
| Vent window control method (crank, friction pivot). | | Crank |
| Windshield type (single curved, compound curved, other) | | Compound Curved |
| Rear window type (Flat, curved, one piece, three piece) | | One-Piece Curved |
| Side glass type (curved, flat) | | Flat |
| Windshield glass area D.L.O. | | 1740.1 |
| Backlight glass area D.L.O. | | 1557.6 |
| Total glass area D.L.O. | 4691.0 | 4763.9 4919.1 |

BODY—TYPES AND STYLE NAMES —

Body type, number of passengers & style names; use manufacturer's code for series & body style.

| BODY STYLES: | CODES |
|--------------------------|---------------------------|
| 4419 - Sedan | 4 door - 6 window |
| 4439 - Sedan | 4 door - 4 window Hardtop |
| 4467 - Coupe Convertible | 2 door |
| 4437 - Coupe | 2 door - Hardtop |
| 4411 - Sedan | 2 door |
| 4435 - Estate Wagon | 4 door |
| | |
| 4619 - Sedan | 4 door - 6 window |
| 4639 - Sedan | 4 door - 4 window Hardtop |
| 4667 - Coupe Convertible | 2 door |
| 4637 - Coupe | 2 door - Hardtop |
| 4635 - Estate Wagon | 4 door |
| | |
| 4719 - Sedan | 4 door - 6 window |
| 4739 - Sedan | 4 door - 4 window Hardtop |
| 4737 - Coupe | 2 door - Hardtop |
| | |
| 4829 - Sedan | 4 door - 6 window Riviera |
| 4839 - Sedan | 4 door - 4 window Hardtop |
| 4867 - Coupe Convertible | 2 door |

*Cylinder block forward of push rod cover on left side of engine.

AMA Specifications -- Passenger Car

MAKE OF CAR BUICK

MODEL YEAR 1959

DATE ISSUED 8-29-58 **REVISED**

MAJOR OPTIONAL ITEMS - WEIGHTS

| | CURB - WEIGHT - POUNDS | | | % PASS. WEIGHT DISTRIBUTION | | | | SHIPPING * WEIGHT |
|---|------------------------|------|-------|-----------------------------|------|---------------|------|----------------------|
| | Front | Rear | Total | Pass. In Front | | Pass. In Rear | | |
| | | | | Front | Rear | Front | Rear | |
| Model | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Not Available - Will be Supplied at Later Date | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Accessories & Equipment Differential Weights | Remarks |
|--|---------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

* These are weights that are reported to states for licensing purposes.

INDEX

| SUBJECT | PAGE NO. | SUBJECT | PAGE NO. |
|--------------------------------------|---------------|--------------------------------------|------------------|
| Air Suspension | 16 | Lamp Bulbs | 11 |
| Angles of Approach, Departure | 21 | Legroom | 22 |
| Automatic Transmission | 1, 13 | Lengths - Car, & Body Interior | 1, 22 |
| Axis, Steering | 18 | Lifters, Valve | 4 |
| Axle, Rear | 1, 14 | Linings - Clutch, Brake | 12, 15 |
| Battery | 8 | Lubrication | 5, 6, 12, 13, 14 |
| Bearings, Engine | 3, 4, 7 | Motor, Starting | 8 |
| Belts - Fan, Generator, Water Pump | 7 | Muffler | 6 |
| Body - General Information, Types | 19, 25 | Overdrive | 13 |
| Height Dimensions | 21 | Piston Pins & Rings | 3 |
| Length Dimensions | 22 | Pistons | 2, 3 |
| Overall Dimensions | 1, 21, 22, 23 | Power Brakes | 15 |
| Trunk Capacities, Opening Dimensions | 19 | Power Steering | 17 |
| Width Dimensions | 23 | Propeller Shaft, Universal Joints | 14 |
| Brakes - Parking, Service, Power | 15, 16 | Pumps - Oil, Fuel | 6 |
| Comber | 18 | Water | 7 |
| Camshaft | 4 | Radiator, Hoses | 7 |
| Capacities | | Ramp Break-over Angle | 21 |
| Cooling System | 7 | Ratios - Axle | 1, 14 |
| Fuel Tank | 6 | Compression | 1, 2 |
| Lubricants | | Steering | 17 |
| Engine Crankcase | 6 | Transmission | 12, 13 |
| Transmission and Overdrive | 12, 13 | Rear Axle | 1, 14 |
| Rear Axle | 14 | Regulator - Generator | 8 |
| Carburetor | 6 | Rims | 15 |
| Caster | 18 | Rings, Piston | 3 |
| Choke, Automatic | 6 | Rods - Connecting | 3 |
| Circuit Breakers, Fuses | 11 | Shock Absorbers, Front & Rear | 16 |
| Clearance, Ground | 21 | Spark Plugs | 9 |
| Clutch - Pedal Operated | 12 | Speedometer | 10 |
| Coil, Ignition | 9 | Springs - Front & Rear Suspension | 17, 18 |
| Connecting Rods | 3 | Valve, Engine | 5 |
| Cooling System | 7 | Stabilizer (Sway Bar) - Front & Rear | 17, 18 |
| Crankshaft | 4 | Starting Motor | 8 |
| Cylinders and Cylinder Head | 2 | Steering | 17, 18 |
| Distributor - Ignition | 9 | Suppression - Ignition, Radio | 9 |
| Electrical System | 8, 9, 10, 11 | Suspension - Front & Rear | 16, 17, 18 |
| Engine | | Switches | 10 |
| Bore, Stroke, Displacement, Type | 1, 2 | Tailpipe | 6 |
| Compression Ratio | 1, 2 | Thermostat, Cooling | 7 |
| Firing Order, Cylinder Numbering | 2, 9 | Timing, Engine & Valve | 4, 5, 9 |
| General Information, H.P. & Torque | 1, 2 | Tires | 1, 15 |
| Lubrication | 5, 6 | Toe in | 18 |
| Exhaust System | 6 | Torque Converter | 13 |
| Fan, Cooling | 7 | Torque - Engine, Rated | 1, 2 |
| Filters - Engine Oil, Fuel System | 6 | Transmission - Types | 1, 12, 13 |
| Frame | 16 | Automatic | 1, 13 |
| Front Suspension | 16, 17 | Manual & Overdrive | 12, 13 |
| Fuel, Fuel Pump, Fuel System | 6 | Ratios | 12, 13 |
| Fuel Injection | 1, 6 | Tread | 1, 23 |
| Fuses, Circuit Breakers | 11 | Turning Diameter | 17 |
| Generator and Regulator | 8 | Universal Joints, Propeller Shaft | 14 |
| Glass | 21, 23, 25 | Valves - Intake & Exhaust | 4, 5 |
| Headroom - Body | 20 | Vibration Damper | 4 |
| Heights - Car & Body | 1, 20, 21 | Voltage Regulator | 8 |
| Hood | 25 | Water Pump | 7 |
| Horns | 10 | Weights - Shipping, Curb | 26 |
| Horsepower - Brake, Rated, Taxable | 1, 2 | Wheel Alignment | 18 |
| Ignition System | 9 | Wheelbase | 1, 22 |
| Inflation - Tires | 15 | Wheels & Tires | 15 |
| Instruments | 6, 10 | Wheel Spindle | 18 |
| Kingpin (Steering Axis) | 18 | Widths - Car & Body | 1, 23 |
| | | Windshield | 21, 23, 25 |
| | | Windshield Wiper | 10 |