# Specifications Form Passenger Car

# 1983

## METRIC (U.S. Customary)

| Manufacturer | Car Line | |
|---|---|---|
| CHEVROLET MOTOR DIVISION<br>GENERAL MOTORS CORPORATION | CHEVROLET | |
| **Mailing Address**<br>CHEVROLET ENGINEERING CENTER<br>30003 VAN DYKE<br>WARREN, MICHIGAN 48090 | **Model Year**<br>1983 | **Issued:**<br>SEPTEMBER, 1982<br>**Revised (*)**<br>FEBRUARY, 1983 |

Revised sheets- 3, 3A, 4A, 5, 5A, 8, 8A, 9, 9A, 10, 10A, 11, 11A, 12, 13, 17, 21, 23

# MVMA Specifications Form
# Passenger Car
**METRIC (U.S. Customary)**

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**NOTE:**
1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
   a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
   b. Nominal design dimensions are used throughout these specifications.
   c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds)
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be availa-

## Car Models

| Model Description | Introduction Date | Make, Car Line, Series, Body Type (Mfgr's Model Code) | No of Designated Seating Positions (Front/Rear) | | Max Truck/Cargo Load—Kilograms (Pounds) |
|---|---|---|---|---|---|
| CHEVROLET | | Model Number | Front/Rear - 3rd | | |
| IMPALA<br>4-Door Sedan | | 1BL69 | 3 | 3 | 90.7 (200.0) |
| CAPRICE CLASSIC<br>4-Door Sedan | | 1BN69 | 3 | 3 | 90.7 (200.0) |
| 4-Door Station Wagon, 3-Seat | | 1BN35 | 3 | 3-2 | |

NOTE: Any specifications on the following pages specific to California requirements are indicated accordingly.

# Passenger Car

**METRIC (U.S. Customary)**

Model Year 1983 Issued 7-23-82 Revised (*) 9-82

**Power Teams** (indicate whether standard or optional)

SAE Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

| SERIES AVAILABILITY | ENGINE | | | | | | TRANSMISSION | @ AXLE RATIO (std. first) (indicate A/C ratio) | |
|---|---|---|---|---|---|---|---|---|---|
| | Displ. Liters (in³) | Carb. (Barrels, FI, etc.) | Compr. Ratio | SAE Net at RPM kW (bhp) | SAE Net at RPM Torque N·m (lb. ft.) | Exhaust System* | | Base | Opt. |
| Base-All Exc. Calif. Sedans | V6 3.8 Liter (229 CID) LC3 | 2 | 8.6:1 | 110 @ 4000 | 190 @ 1600 | S | Auto-'250c' - Base | 2.56/ 2.73*# | 3.23$ |
| Base - Calif. Only Sedans | V6 3.8 Liter (231 CID) LD5 | 2 | 8.0:1 | 110 @ 3800 | 190 @ 1600 | S | Auto-'350c' - Base | 2.73 | 3.23 |
| Avail. - All States Avail.-Sedans | V8 5.0 Liter (305 CID) LG4 | 4 | 8.6:1 | 150 @ 4000 | 240 @ 2400 | S | Auto-'250c' - Base@ | 2.41# | 3.08$ |
| | | | | | | | Auto-700-R4 - Base % | 2.73# | |
| Base - Station Wgns | | | | | | | Auto-700-R4 - Base | 2.73# | 3.08$ |
| Avail. - All States Sedans | V8 5.7 Liter (350 CID) LF9 | Fuel Inj. Die-sel | 22.1:1 | 105 @ 3200 | 200 @ 1600 | S | Auto-'350c' - Base | 2.41¢ | |
| | | | | | | | Auto 200-4R - Opt. | 2.93¢ | |
| Station Wagons | | | | | | | Auto-'350c' - Base | 2.56 | |
| | | | | | | | Auto 200-4R - Opt. | 2.93¢ | |

* - 2.73:1 axle required with A/C, optional without A/C.
¢ - Air conditioning mandatory (RPO C60) when NA6 is ordered.
@ - 191 mm (7-1/2") ring gear for sedans; 222 mm (8-3/4") ring gear for wagons, SEO vehicles and limited slip axles.
# - NA5 meets high altitude standards, NA6 not released.
$ - Requires NA6.
% - '700-R4' transmission will replace '250c' transmission interim 1983.
# - Not available in California.

**METRIC (U.S. Customary)**

| Engine Description/Carb. Engine Code | 3.8 LITER V6 (229 CID) 2-BBL CARBURETOR RPO LC3 | 3.8 LITER V6 (231 CID) 2-BBL. CARBURETOR RPO LD5 |
|---|---|---|

## ENGINE — GENERAL

| | | | |
|---|---|---|---|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, etc.) | | 90° "V" - Front - Logitudinal Number of mounting points Two - front One - rear | |
| No. of cylinders | | 6 | |
| Bore | | 94.92 (3.736) | 96.5 (3.80) |
| Stroke | | 88.39 (3.48) | 86.4 (3.40) |
| Bore spacing (c/l to c/l) | | 111.8 (4.40) | 107.7 (4.24) |
| Cylinder block material | | Cast alloy iron | |
| Cylinder block deck height | | 229.2 (9.025) | 242.8 (9.56) |
| Deck clearance (minimum) (above or below block) | | .635 (.025) below | 1.91 below |
| Cylinder head material | | Cast alloy iron | |
| Cylinder head volume ($cm^3$) | | | |
| Head gasket thickness (compressed) | | .533 (.021) | |
| Minimum combustion chamber volume ($cm^3$) | | 58.9 (3.59) | 87.65 |
| Cyl. no. system (front to rear)* | L. Bank | 1-3-5 | |
| | R. Bank | 2-4-6 | |
| Firing order | | 1-6-5-4-3-2 | |
| Recommended fuel (leaded, unleaded, diesel) | | Unleaded | |
| Fuel antiknock index $\frac{(R+M)}{2}$ | | 87 | |
| Total dressed engine mass (wt) dry** | | 205.6 (453.2) | 207.3 (457.0) |

## Engine — Pistons

| | | |
|---|---|---|
| Material | Cast aluminum alloy | |
| Mass, g (weight, oz.) — Piston Only | 502 (17.71) | 508 (17.92) |

## Engine — Camshaft

| | | | |
|---|---|---|---|
| Location | | In block above crankshaft | |
| Material (kg., weight, lbs.) | | Cast alloy iron | |
| Mass (kg., weight, lbs.) | | 3.171 (6.99) | 3.097 (6.83) |
| Type of drive (chain or belt) | Width | 15.87 (.625), Chain | 22.23 (.875) |
| | Pitch | 12.7 (.500) | 9.53 (.375) |

* Rear of engine — drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Dressed engine mass (weight) includes the following:

All those items necessary to make the engine a complete ready-to-run unit.

**METRIC (U.S. Customary)**

| Engine Description/Carb. Engine Code | 5.0 LITER V8 (305 CID) 4-BBL. CARUBURETOR RPO LG4 | 5.7 LITER V8 (350 CID) DIESEL FUEL INJECTION RPO LF9 |
|---|---|---|

## ENGINE — GENERAL

| | | | |
|---|---|---|---|
| Type & description (inline, V, angle, fist. location, front, mid, rear, transverse, longitudinal, etc.) | | 90° "V" - Front - Longitudinal Number of mounting points. Two - front One - rear | |
| No. of cylinders | | 8 | |
| Bore | | 94.92 (3.736) | 103.05 (4.057) |
| Stroke | | 88.39 (3.48) | 85.98 (3.385) |
| Bore spacing (c/l to c/l) | | 111.8 (4.40) | 117.5 (4.625) |
| Cylinder block material | | Cast alloy iron | |
| Cylinder block deck height | | 229.4 (9.025) | |
| Deck clearance (minimum) (above or below block) | | .635 (.025) below | |
| Cylinder head material | | Cast alloy iron | |
| Cylinder head volume ($cm^3$) | | | |
| Head gasket thickness (compressed) | | .533 (.021) | |
| Minimum combustion chamber volume ($cm^3$) | | 58.9 (3.59) | |
| Cyl. no. system (front to rear)* | L. Bank | 1-3-5-7 | |
| | R. Bank | 2-4-6-8 | |
| Firing order | | 1-8-4-3-6-5-7-2 | |
| Recommended fuel (leaded, unleaded, diesel) | | Unleaded | Diesel #2 summer, #1 winter |
| Fuel antiknock index $\frac{(R+M)}{2}$ | | 87 | |
| Total dressed engine mass (wt) dry** | | 274.3 (605.0) | 315.3 (695.0) |

## Engine — Pistons

| | |
|---|---|
| Material | Cast aluminum alloy |
| Mass, g (weight, oz.) — Piston Only | 502 (17.7) |

## Engine — Camshaft

| | | | |
|---|---|---|---|
| Location | | In block above crankshaft | |
| Material (kg., weight, lbs.) | | Cast alloy iron | Cast iron conkorall |
| Mass (kg., weight, lbs.) | | 3.969 (8.75) | 4.950 (10.91) |
| Type of drive (chain or belt) | Width | 15.87 (.625) Chain | 14.48 (.570) |
| | Pitch | 12.7 (.500) | 12.7 (.500) |

* Rear of engine — drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Dressed engine mass (weight) includes the following:

| Engine Description/Carb. Engine Code | 3.8 LITER V6 (229 CID) 2-BBL. CARBURETOR RPO LC3 | 3.8 LITER V6 (231 CID) 2-BBL. CARBURETOR RPO LD5 |
|---|---|---|

**Engine — Valve System**

| | | |
|---|---|---|
| Lifters (std., opt., n.a.) | Hydraulic | Standard |
| | Solid | Not available |

**Engine — Connecting Rods**

| | | |
|---|---|---|
| Material & mass (kg., weight, lbs.) | 1037 or 1038 steel .600 (1.323) | Cast arma steel .680 (1.500) |

**Engine — Crankshaft**

| | | |
|---|---|---|
| Material (kg., weight, lbs.) | Nodular cast iron | |
| Mass (kg., weight, lbs.) | 17.576 (38.75) | 15.980 (35.23) |
| End thrust taken by bearing (no.) | 4 | 2 |

**Engine — Lubrication System**

| | | |
|---|---|---|
| Normal oil pressure [kPa (psi) at engine rpm] | 345-488 (50-65) @ 2000 | 310 (45) |
| Type oil intake (floating, stationary) | Stationary | |
| Oil filter system (full flow, part, other) | Full flow | |
| Capacity of c/case, less filter-refill-L (qt.) | 3.8 (4.0) | |

**Engine — Diesel Information**

| | | |
|---|---|---|
| Glow plug, current drain at 0°F | | |
| Injector nozzle | Type | |
| | Opening pressure [kPa (psi)] | |
| Pre-chamber design | | |
| Fuel injection pump | Manufacturer | |
| | Type | |
| Supplementary vacuum source (type) | | |

METRIC (U.S. Customary)

| [redacted] | 5.0 LITER V8 (305 CID)<br>4-BBL. CARBURETOR<br>RPO LG4 | 5.7 LITER V8 (350 CID)<br>DIESEL FUEL INJECTION<br>RPO LF9 |
|---|---|---|

**Engine — Valve System**

| | | |
|---|---|---|
| Lifters (mfd., opt., n.a.) | Hydraulic | Standard |
| | Solid | Not available |

**Engine — Connecting Rods**

| | | |
|---|---|---|
| Material & mass (kg., weight, lbs.) | 1037 or 1038 steel<br>.662 (1.460) | SAE 1140 steel<br>.880 (1.940) |

**Engine — Crankshaft**

| | | |
|---|---|---|
| Material (kg., weight lbs.) | Nodular cast iron | |
| Mass (kg., weight, lbs.) | 23.360 (51.50) | 26.333 (58.05) |
| End thrust taken by bearing (no.) | 5 | 3 |

**Engine — Lubrication System**

| | | |
|---|---|---|
| Normal oil pressure (kPa (psi) at engine rpm) | 345-448 (50-65) @ 2000 | 207-310 (30-45) @ 1500 |
| Type oil intake (floating, stationary) | Stationary | |
| Oil filter system (full flow, part, other) | Full flow | |
| Capacity of c/case, less liter-refill-L (qt.) | 4.5 (5.0) | 7.1 (7.5) |

**Engine — Diesel Information**

| | | |
|---|---|---|
| Glow plug, current drain at 0°F | | 18 amps |
| Injector nozzle | Type | Poppet |
| | Opening pressure (kPa (psi)) | 8450+/-690 (1225+/-100 PSI) |
| Pre-chamber design | | Side exit |
| Fuel injection pump | Manufacturer | Stanadyne/cav |
| | Type | High pressure rotary |
| Supplementary vacuum source (type) | | V-Belt driven pump |

| Engine Description/Code. Engine Code | 3.8 LITER V6 (229 CID) 2-BBL. CARBURETOR RPO LC3 | 3.8 LITER V6 (231 CID) 2-BBL CARBURETOR RPO LD5 |
|---|---|---|

**Engine — Fuel System** (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

| | | | | |
|---|---|---|---|---|
| Induction type: carburetor, fuel injection system, etc. | | | Carburetor | |
| Carburetor | Mfgr. | | Rochester | |
| | Choke (type) | | Electric | |
| | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual | Not Available | |
| | | | -- | |
| | | Automatic | 2200 RPM (Park or Neutral) | |
| | | | (Fast idle speed) | |
| Idle A/F mix. | | | Preset-no adjustment provided | |
| Fuel injection | Point of injection (no.) | | -- | |
| | Constant, pulse, flow | | -- | |
| | Control (electronic, mech.) | | -- | |
| | System pressure (kPa (psi)) | | -- | |
| Intake manifold heat control (exhaust or water) thermostatic or fixed | | | Exhaust | |
| Air cleaner type | Standard | | Replaceable paper element, single snorkel | |
| | Optional | | -- | |
| Fuel pump | Type (elec or mech.) | | Mechanical | Electric |
| | Location (eng., tank) | | Lower right front | Lower left front |
| | Pressure range (kPa (psi)) | | 31-41 (4.5-6.0) | 29-40 (4.25-5.75) |

**Fuel Tank**

| | | |
|---|---|---|
| Capacity (refill L (gallons)) | | 95 (25.0) sed (A); 83.3 (22.0) - s.w. (approximately) |
| Location (describe) | | Underbody behind rear axle |
| Attachment | | Two straps to underbody |
| Material | | Steel |
| Filler pipe | Location & material | Rear - sedans; L.R. quarter panel - station wagon |
| | Connection to tank | Solder |
| Fuel line (material) | | Steel |
| Fuel hose (material) | | |
| Return line (material) | | |
| Vapor line (material) | | Steel |
| Extended range tank | Opt., n.a | |
| | Capacity (L (gallons)) | |
| | Location & material | |
| | Attachment | |
| Auxiliary tank | Opt., n.a. | |
| | Capacity (L (gallons)) | |
| | Location & material | |
| | Attachment | |
| | Selector switch or valve | |
| | Separate fill | |

(A) - Diesel sedan - 98.4 (26.0)

**Passenger Car**
**METRIC (U.S. Customary)**

Model Year 1980

| Engine Description/Code. Engine Code | 5.0 Liter V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.7 LITER V8 (350 CID) DIESEL FUEL INJECTION RPO LF9 |
|---|---|---|

**Engine — Fuel System** (See supplemental page for details of Fuel injection, Supercharger, Turbocharger, etc. if used)

| | | | | |
|---|---|---|---|---|
| Induction type: carburetor, fuel injection system, etc. | | | Carburetor | Fuel Injection |
| Carburetor | Mfgr. | | Rochester | |
| | Choke (type) | | Electric | |
| | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual | Not available | |
| | | | -- | |
| | | Automatic | 500 RPM (Drive) | |
| | | | -- | |
| Idle A/F mix. | | | Preset-no adjustment provided | |
| Fuel injection | Point of injection (no.) | | -- | Cylinder head, pre-chamber |
| | Constant, pulse, flow | | -- | Pulse |
| | Control (electronic, mech.) | | -- | Mechanical |
| | System pressure [kPa (psi)] | | -- | 6900 kPa+/-690 (100+/-100) |
| Intake manifold heat control (exhaust or water) thermostatic or fixed | | | Exhaust | |
| Air cleaner type | Standard | | Replaceable paper element, single snorkel | |
| | Optional | | -- | |
| Fuel pump | Type (elec or mech.) | | Mechanical | |
| | Location (eng., tank) | | Lower right front | |
| | Pressure range [kPa (psi)] | | 38.0-48.5 (5.5-7.0) | 38-45 (5.5-6.5) |

**Fuel Tank**

| | | |
|---|---|---|
| Capacity [refill L (gallons)] | | 95 (25.0) sed. (A); 83.3 (22.0)-s.w. (approximately) |
| Location (describe) | | Underbody behind rear axle |
| Attachment | | Two straps to underbody |
| Material | | Steel |
| Filler pipe | Location & material | Rear - sedans; L.R. quarter panel - station wagon |
| | Connection to tank | Solder |
| Fuel line (material) | | Steel |
| Fuel hose (material) | | |
| Return line (material) | | |
| Vapor line (material) | | Steel |
| Extended range tank | Opt., n.a | |
| | Capacity [L (gallons)] | |
| | Location & material | |
| | Attachment | |
| Auxiliary tank | Opt., n.a | |
| | Capacity [L (gallons)] | |
| | Location & material | |
| | Attachment | |
| | Selector switch or valve | |
| | Separate fill | |

(A) - Diesel sedan - 98.4 (26.0)

| Engine Description/Carb. Engine Code | 3.8 LITER V6 (229 CID) 2-BBL. CARBURETOR RPO LC3 | 3.8 LITER V6 (231 CID) 2-BBL. CARBURETOR RPO LD5 |
|---|---|---|

## Engine – Cooling System

| | | | | |
|---|---|---|---|---|
| Coolant recovery system (std., opt., n.a.) | | | Standard | |
| Coolant fill location (rad., bottle) | | | Bottle | |
| Radiator cap relief valve pressure [kPa (psi)] | | | 103.4 (15.0) | |
| Circulation thermostat | Type (choke, bypass) | | Choke | |
| | Starts to open at °C (°F) | | 91 (195) | |
| Water pump | Type (centrifugal, other) | | Centrifugal | |
| | GPM 1000 pump rpm | | 14 | |
| | Number of pumps | | One | |
| | Drive (V-belt, other) | | V-belt | |
| | Bearing (type) | | Sealed double row ball | |
| By-pass recirculation [type (inter., ext.)] | | | Internal | External |
| Radiator core [type (cross-flow vertical cellular tube and fin, other) and material] | | | Cross flow | |
| Cooling system capacity | With heater—L(qt.) | | 13.46 (14.23) | 11.16 (11.80) |
| | With air cond.—L(qt.) | | 13.40 (14.16) | 11.08 (11.71) |
| | Opt equipment (specify—L(qt.)) | | 13.46 (14.23) H.D. Radiator | 11.14 (11.77) H.D. Radiator |
| Water jackets full length of cyl. (yes, no) | | | Yes | |
| Water all around cylinder (yes, no) | | | Yes | |
| Radiator core | Standard | Width | 528.3 (20.8) | |
| | | Height | 431.0 (17.0) | |
| | | Thickness | 31.5 (1.24) | |
| | | Fins per inch | 4.65 | |
| | A/C | Width | 528.3 (20.8) | |
| | | Height | 431.0 (17.0) | 429.7 (16.9) |
| | | Thickness | 31.5 (1.24) | 25.0 ( .98) |
| | | Fins per inch | 4.55 | 6.35 |
| | Heavy duty | Width | 528.3 (20.8) | |
| | | Height | 431.0 (17.0) | |
| | | Thickness | 31.5 (1.24) | |
| | | Fins per inch | 6.2 | |
| Fan (standard) | Number of blades & type (flex, solid, material) | | Four (4), staggered | Five (5) staggered |
| | Diameter & projected width | | 483 (19.0) | 508 (20.0) |
| | Ratio (fan to crankshaft rev.) | | 1.09 (1.43 H/D Alternator | 1.14 |
| | Fan cutout type | | None | |
| | Drive [type (direct, remote)] | | V-belt - one | |
| | Fan shroud (material) | | | |
| Fan (electric) | Diameter & projected width | | | |
| | RPM at idle | | | |
| | Motor rating (wattage) | | | |
| | Motor switch (type & location) | | | |
| | Switch point (temp., pressure) | | | |
| | Fan shroud (material) | | | |
| Fan (optional) | No of blades and spacing | | Five (5) staggered | |
| | Diameter & projected width | | 508 (20.0) | |
| | Ratio (fan to crankshaft rev.) | | 1.09 (1.43 H/D alternator) | 1.14 |

| Engine Description/Carb. Engine Code | 5.0 LITER V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.7 LITER V8 (350 CID) DIESEL FUEL INJECTION RPO LF9 |
|---|---|---|

## Engine – Cooling System

| | | | | |
|---|---|---|---|---|
| Coolant recovery system (std., opt., n.a.) | | | Standard | |
| Coolant fill location (rad., bottle) | | | Bottle | |
| Radiator cap relief valve pressure [kPa (psi)] | | | 103.4 (15.0) | |
| Circulation thermostat | Type (choke, bypass) | | Choke | Bypass |
| | Starts to open at °C (°F) | | 91 (195) | |
| Water pump | Type (centrifugal, other) | | Centrifugal | |
| | GPM 1000 pump rpm | | 14 | |
| | Number of pumps | | One | |
| | Drive (V-belt, other) | | V-belt | |
| | Bearing (type) | | Sealed double row ball | |
| By-pass recirculation (type (inter., ext.)) | | | Internal | External |
| Radiator core (type (cross-flow vertical cellular tube and fin, other) and material) | | | Cross flow | |
| Cooling system capacity | With heater—L(qt.) | | 14.64 (15.47) | 17.13 (18.11) |
| | With air cond.—L(qt.) | | 14.57 (15.4) | 17.26 (18.24) |
| | Opt equipment (specify—L(qt.)) | | 15.33 (16.2) | 17.32 (18.31) |
| Water jackets full length of cyl. (yes, no) | | | Yes | |
| Water all around cylinder (yes, no) | | | Yes | |
| Radiator core | Standard | Width | 668.0 (26.3) | 718.8 (28.3) |
| | | Height | 429.7 (16.9) | 429.7 (16.9) |
| | | Thickness | 25.0 (0.98) | 40.2 (1.58) |
| | | Fins per inch | 6.35 | 8.47 |
| | A/C | Width | -- | -- |
| | | Height | -- | -- |
| | | Thickness | -- | -- |
| | | Fins per inch | -- | -- |
| | Heavy duty | Width | 668.0 (26.3) | |
| | | Height | 429.7 (16.9) | |
| | | Thickness | 40.2 (1.58) | |
| | | Fins per inch | 6.35 | |
| Fan (standard) | Number of blades & type (flex, solid, material) | | Four (4), staggered | |
| | Diameter & projected width | | 483 (19.0) | |
| | Ratio (fan to crankshaft rev.) | | 1.09 (1.43 with H/D alternator) | -- |
| | Fan cutout type | | None | |
| | Drive [type (direct, remote)] | | V-belt - one | |
| | Fan shroud (material) | | | |
| Fan (electric) | Diameter & projected width | | | |
| | RPM at idle | | | |
| | Motor rating (wattage) | | | |
| | Motor switch (type & location) | | | |
| | Switch point (temp., pressure) | | | |
| | Fan shroud (material) | | | |
| | No of blades and spacing | | Five (5), staggered | Five (5), staggered |
| | Diameter & projected width | | 508 (20.0) | 483 (19.0) |

| Engine Description/Carb. / Engine Code | 3.8L V6<br>229 CID<br>RPO LC3 | 3.8L V6<br>231 CID<br>RPO LD5 | 5.0L V8<br>305 CID<br>RPO LG4 | 5.7L V8<br>350 CID<br>RPO LF9 |
|---|---|---|---|---|

## Vehicle Emission Control

| | | | | | |
|---|---|---|---|---|---|
| Exhaust Emission Control | Type (air injection, engine modifications, other) | | Air injection w/computer command control | | |
| | Air Injection | Pump (type) | vane | | |
| | | Driven by | V-belt | | |
| | | Air distribution (head, manifold, etc.) | Manifold Converter | Cyl. Heads & Cat. Converter | Manifold Converter |
| | | Point of entry | Exh. Manifold | Intake Manif. | Exh. Manifold |
| | Exhaust Gas Recirculation | Type (controlled flow, open orifice, other) | Pulse width modulated (#) | | |
| | | Exhaust source | Manifold exhaust crossover | | |
| | | Point of exhaust injection (spacer, carburetor, manifold, other) | Inlet manifold | | |
| | Catalytic Converter | Type | Dual Bed (b) | Single Bed (b) | Dual Bed (b)(c) |
| | | Number of | One | | |
| | | Location(s) | Beneath underbody | | |
| | | Volume [L ($in^3$)] | 2.78 (169.8) | 4.13 (252) | 2.78 (169.8) |
| | | Substrate type | Monolith | Pellets | Monolith (c) |
| Crankcase Emission Control | Type (ventilates to atmosphere, induction system, other) | | Induction system | | |
| | Energy source (manifold vacuum, carburetor, other) | | Manifold vacuum | | |
| | Discharges (to intake manifold, other) | | Inlet manifold | | |
| | Air inlet (breather cap, other) | | Carburetor air cleaner | | |
| Evaporative Emission Control | Vapor vented to (crankcase, canister, other) | Fuel tank | Canister | | |
| | | Carburetor | Canister | | |
| | Vapor Storage provision (crankcase, canister, other) | | Canister | | |

## Engine — Exhaust System

| | | LC3 Engine | LD5 Engine |
|---|---|---|---|
| Type (single, single with cross-over, dual, other) | | Single w/crossover | |
| Muffler no. & type (reverse flow, straight thru, separate resonator) | | One, reverse flow | |
| Resonator no. & type | | None | |
| Exhaust pipe | Branch o.d., wall thickness | 50.8 x 1.14 (2.0 x .045) | |
| | Main o.d., wall thickness | 57.15 x 1.8 (2.25 x .071) | |
| | Material | (a) | |
| Intermediate pipe | o.d. & wall thickness | 57.15 x 1.4 (2.25 x .055) | |
| | Material | Aluminum coated steel tubing | |
| Tail pipe | o.d. & wall thickness | 50.8 x 1.1 (2.0 x .043 | |
| | Material | Aluminum coated tubing | |

(#) - LD5 Engine, controlled flow
(a) - Laminated tubing - steel inner,
(b) - Oxidizing and reducing
(c) - Single bed pellets for California

| Engine Description/Code. Engine Code | 3.8L V6 229 CID RPO LC3 | 3.8L V6 231 CID RPO LD5 | 5.0L V8 305 CID RPO LG4 | 5.7L V8 350 CID RPO LF9 |
|---|---|---|---|---|

**Vehicle Emission Control**

| | | | |
|---|---|---|---|
| Exhaust Emission Control | Type (air injection, engine modifications, other) | | SEE PAGE 7. |
| | Air injection | Pump (type) | |
| | | Driven by | |
| | | Air distribution (head, manifold, etc.) | |
| | | Point of entry | |
| | Exhaust Gas Recirculation | Type (controlled flow, open orifice, other) | |
| | | Exhaust source | |
| | | Point of exhaust injection (spacer, carburetor, manifold, other) | |
| | Catalytic Converter | Type | |
| | | Number of | |
| | | Location(s) | |
| | | Volume (L (in$^3$)) | |
| | | Substrate type | |
| Crankcase Emission Control | Type (ventilates to atmosphere, induction system, other) | | |
| | Energy source (manifold vacuum, carburetor, other) | | |
| | Discharges (to intake manifold, other) | | |
| | Air inlet (breather cap, other) | | |
| Evaporative Emission Control | Vapor vented to (crankcase, canister, other) | Fuel tank | |
| | | Carburetor | |
| | Vapor Storage provision (crankcase, canister, other) | | |

| Engine — Exhaust System | | LG4 Engine | LF9 Engine |
|---|---|---|---|
| Type (single, single with cross-over, dual, other) | | Single w/crossover | |
| Muffler no & type (reverse flow, straight thru, separate resonator) | | One, reverse flow | |
| Resonator no & type | | None | |
| Exhaust pipe | Branch o.d. wall thickness | 50.8 x .86 (2.0 x .034) (a) | 50.8 x 1.07 (2.0 x .042) |
| | Main o.d. wall thickness | 57.15 x 1.8 (2.25 x .071) (b) | 63.5 x 1.09 (2.5 x .043) |
| | Material | (a) (b) | Laminated steel tubing |
| Intermediate pipe | o.d. & wall thickness | 57.15 x 1.4 (2.25 x .055) | |
| | Material | Aluminum coated steel tubing | |
| Tail pipe | o.d. & wall thickness | (c) | 57.15 x 1.09 (2.25 x .043) |
| | Material | Aluminum coated steel tubing | |

(a) - Laminated tubing - steel inner, stainless steel outer.
(b) - Stainless steel tubing
(c) - 57.15 x 1.4 (2.25 x .055) for sedan with 3.08 axle and for wagons;
50.8 x 1.1 (2.0 x .043) for sedan with 2.73 axles.

| Engine Description/Carb. Engine Code | 3.8L V6 229 CID RPO LC3 | 3.8L V6 231 CID RPO LD5 | 5.0L V8 305 CID RPO LG4 | 5.7L V8 350 CID RPO LF9 |
|---|---|---|---|---|

**Electrical — Supply System**

| | | | | | |
|---|---|---|---|---|---|
| Battery | Voltage rtg (V & total plates) | 12 V | | | |
| | Minimum reserve cranking | 70 minutes (base), 90 minutes (optional) | | | 90 Minutes (A) |
| | SAE capacity (amps) | 355 (base), 500 (optional) | | | 500 (base)<br>550 (optional |
| | Location | Engine compartment<br>Right front | | | Engine Comp.<br>one on each side |
| Generator or alternator | Type and rating | 37 | 42 | 55 | 63 |
| | Ratio (alt crank/rev.) | 2.73:1 | 2.36:1 | 2.73:1 | 2.73:1 |
| | Optional (type & rating) | | | | |
| Regulator | Type | Integral with distributor | | | |

(A) - Two (2) batteries required; connected in parallel, 115 minutes (optional)

**Electrical — Starting System**

| | | | | | |
|---|---|---|---|---|---|
| Start motor | Current drain at 0°F | | | | |
| Motor drive | Engagement type | Positive shift solenoid | | | |
| | Pinion engages from (front, rear) | Rear | Front | Rear | Rear |

| Engine Description/Carb. Engine Code | 3.8L V6 229 CID RPO LC3 | 3.8L V6 231 CID RPO LD5 | 5.0L V8 305 CID RPO LG4 | 5.7L V8 350 CID RPO LF9 |
|---|---|---|---|---|

## Electrical — Ignition System

| | | | | | | |
|---|---|---|---|---|---|---|
| Type | Conventional (std., opt., n.a.) | -- | | | | |
| | Transistorized (std., opt., n.a.) | -- | | | | |
| | Other (specify) | High Energy Ignition. (H.E.I.) | | | | |
| Coil | Make | Delco Remy | | | | |
| | Model | Integral with Distributor | | | | |
| | Current — Engine stopped — A | -- | | | | |
| | Current — Engine idling — A | -- | | | | |
| Spark plug | Make | AC | | | | |
| | Model | R45TS | R45TS8 | R45TS | Glow plug | |
| | Thread (mm) | 14 x 1.25 | | | | |
| | Tightening torque (N-m (lb., ft.)) | -- | | | | |
| | Gap | 1.143(.045) | 2.032(.080) | 1.143(.045) | | |
| Distributor | Make | Delco Remy | | | | |
| | Model | 1110584 | | | | |

## Electrical — Suppression

| | |
|---|---|
| Locations & type | Internal alternator capacitor, non-metallic high-tension cables, resistor spark plugs, ignition coil by-pass capacitor, internal AC blower motor by-pass capacitor & A/C compression diode, with radio provisions; hood grounding clip engine to dash panel ground strap, fuse block capacitor and on "heater only" blower motors and coax capacitor. |

## Electrical — Instruments and Equipment

| | | |
|---|---|---|
| Speed-ometer | Type | Rectangular dial with pointer |
| | Trip odometer (std., opt., n.a.) | Optional |
| EGR maintenance indicator | | Not available |
| Charge indicator | Type | Tell-Tale (gauge optional) |
| | Warning device | Not available |
| Temperature indicator | Type | Tell-Tale (gauge optional) |
| | Warning device | Not available |
| Oil pressure indicator | Type | Tell-Tale (gauge optional) |
| | Warning device | Not available |
| Fuel indicator | Type | Electric Gauge |
| | Warning device | Not available |
| Wind-shield wiper | Type (standard) | Electric, Two-Speed |
| | Type (optional) | Intermittent control type |
| | Blade length | 457.2 (18.0 in) |
| | Swept area ($cm^2$ ($in.^2$)) | Sedans & Wagons 6107 (946.8 $in^2$) |
| Wind-shield washer | Type (standard) | Push button* |
| | Type (optional) | Not available |
| | Fluid level indicator | Not available |
| Horn | Type | Vibrator |
| | Number used | Dual-1BN00 models; one (low note) on 1BL00 models |
| Other | | Restraint system warning light and buzzer. Parking brake and brake failure warning light. Fuel economy (vacuum) ar: |

| Engine Description/Carb. Engine Code | 3.8L V6 229 CID RPO LC3 | 3.8L V6 231 CID RPO LD5 | 5.0L V8 305 CID RPO LG4 | 5.7L V8 350 CID RPO LF9 |
|---|---|---|---|---|

## Transmissions

| | | | | |
|---|---|---|---|---|
| Manual 3-speed (std., opt., n.a.) | Not available | | | |
| Manual 4-speed (std., opt., n.a.) | Not available | | | |
| Manual 5-speed (std., opt., n.a.) | Not available | | | |
| Manual overdrive (std., opt., n.a.) | Not available | | | |
| Automatic (std., opt., n.a.) | Standard | | | |
| Automatic overdrive (std., opt., n.a.) | Not available | Not available | Standard | Optional |

## Manual Transmission

| | | | |
|---|---|---|---|
| Number of forward speeds | | | Not |
| Transmission ratios | In first | | Available |
| | In second | | -- |
| | In third | | -- |
| | In fourth | | -- |
| | In fifth | | -- |
| | In overdrive | | -- |
| | In reverse | | -- |
| Synchronous meshing (specify gears) | | | -- |
| Shift lever location | | | -- |
| Lubricant | Capacity (L (pt)) | | -- |
| | Type recommended | | -- |
| | SAE viscosity number | Summer | -- |
| | | Winter | -- |
| | | Extreme cold | -- |

## Clutch (Manual Transmission)

| | | | |
|---|---|---|---|
| Make & type | | | Not |
| Type pressure plate springs | | | Available |
| Total spring load N (lb f) | | | -- |
| No. of clutch driven discs | | | -- |
| Clutch facing | Material | | -- |
| | Manufacturer | | -- |
| | Part number | | -- |
| | Rivets/plate | | -- |
| | Rivet size | | -- |
| | Outside & inside dia. | | -- |
| | Total eff. area ($cm^2$ ($in^2$)) | | -- |
| | Thickness | | -- |
| | Engagement cushion method | | -- |
| Release bearing | Type & method of lubrication | | -- |
| Torsional damping | Method springs, friction material | | -- |

**Passenger Car**
**METRIC (U.S. Customary)**

Model Year 1983 Issued 7-23-82 Revised (*) 2-83

| Engine Description/Carb. / Engine Code | 3.8L V6 (229 CID) 2-BBL. CARBURETOR RPO LC3 | 3.8L V6 (231 CID) 2-BBL. CARBURETOR RPO LD5 |
|---|---|---|

**Automatic Transmission** (See Power Teams for transmission usage)

| | | | |
|---|---|---|---|
| Trade name | | 3-Speed Automatic | |
| Type (describe) | | Torque converter with planetary gears '250c'/'350c' | |
| Selector | Location | Steering column | |
| | Ltr /No designation | P-R-N-D-2-1 | |
| Gear ratios | R | 1.93 | |
| | D | 1.00 | |
| | 2 | 1.52 | |
| | 1 | 2.52 | |
| | Overdrive | Not available | |
| Max upshift speed - drive range [km/h (mph)] | | 125.5 (78.0), 117.5 (73.0) | 96.6 (60.0) |
| Max kickdown speed - drive range [km/h (mph)] | | 119.1 (74.0), 111.0 (69.0) | 91.8 (57.0) |
| Min overdrive speed [km/h (mph)] | | Not available | |
| Torque converter | Number of elements | 3 | |
| | Max ratio at stall | 2.2 | |
| | Type of cooling (air, liquid) | Liquid | |
| | Nominal diameter | 298 (11.75) | |
| Lubricant | Capacity [refill L (pt)] | 2.8 (6.0) | 3.0 (6.3) |
| | Type recommended | Dexron II | |
| Special transmission features | | Torque Converter Clutch 3rd gear | |

**Axle or Front Wheel Drive Unit**

| | | | |
|---|---|---|---|
| Type (front, rear) | | Rear | |
| Description | | Semi-floating axle, overhung hypoid drive pinion & ring gear | |
| Limited slip differential (type) | | Disc clutch | |
| Drive pinion offset | | 7.50" R.G.-38.1 (1.50); 8.75" R.G., - 44 (1.75) | |
| Drive pinion (type) | | Hypoid gear | |
| No of differential pinions | | Two | |
| Pinion adjustment (shim, other) | | Shim | |
| Pinion bearing adj (shim, other) | | Collapsible sleeve | |
| Driving wheel bearing (type) | | Direct or single row cylindrical | |
| Lubricant | Capacity (L (pt)) | 7.50" R.G.-1.6 (3.5); 8.75" R.G. 2.6 (5.4) | |
| | Type recommended | GL-5 gear lubricant | |
| | SAE viscosity number — Summer | 80W or 80W-90 | |
| | SAE viscosity number — Winter | 80W or 80W-90 | |
| | SAE viscosity number — Extreme cold | 80W or 80W-90 | |

**Axle or Transaxle Ratio and Tooth Combinations** (See "Power Teams" for axle ratio usage)

| | | | | |
|---|---|---|---|---|
| Axle ratio or overall ratio (:1) | | 2.56 | 2.73 | 3.23 |
| No of teeth | Pinion | 17 | 15 | 15 |
| | Ring gear or gear | 41 | 41 | 41 |
| Ring gear o d mm (in) | | 191 (7.50) (a) | | 222 (8.75) |
| Transaxle | Transfer gear ratio | -- | | |
| | Final drive ratio | -- | | |

| Engine Description/Code. Engine Code | 5.0 LITER V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.7 LITER V8 (350 CID) FUEL INJECTION DIESEL RPO LF9 |
|---|---|---|

**Automatic Transmission** (See Power Teams for Transmission Usage)

| | | | | |
|---|---|---|---|---|
| Trade name | | 3-Speed Automatic | | |
| Type (describe) | | Torque converter with planetary gears '350c' | '200-4R' | '700-R4' |
| Selector | Location | Steering column | | |
| | Ltr./No designation | P-R-N-D-2-1 | P-R-N-D-3-2-1 | |
| Gear ratios | R | 1.93 | 2.07 | 2.29 |
| | D | 1.00 | 1.00 | 1.00 |
| | 2 | 1.52 | 1.57 | 1.63 |
| | 1 | 2.52 | 2.74 | 3.06 |
| | Overdrive | Not available | .67 | 0.70 |
| Max upshift speed - drive range (km/h (mph)) | | 132.0 (82.0) | 72.4(45.0),128.8(80.0) | 104.6 (65.0) |
| Max kickdown speed - drive range (km/h (mph)) | | 125.5 (78.0) | 56.3(35.0),125.5(78.0),136.8(85.0) | 98.2 (61.0) |
| Min overdrive speed (km/h (mph)) | | Not available | 61 (38) | 64.4 (40.0) |
| Torque converter | Number of elements | 3 | | |
| | Max ratio at stall | 1.9 | 1.9 - 2.2 Diesel | 1.9 |
| | Type of cooling (air, liquid) | Liquid | | |
| | Nominal diameter | 298 (11.75) | | |
| Lubricant | Capacity (refill L (pt)) | 3.0 (6.0) | | |
| | Type recommended | Dexron II | | |
| Special transmission features | Torque Converter Clutch Lock-Up | 3rd gear | 3rd & 4th gear | |

**Axle or Front Wheel Drive Unit**

| | | | |
|---|---|---|---|
| Type (front, rear) | | | Rear |
| Description | | | Semi-floating axle, overhung hypoid drive pinion and ring gear |
| Limited slip differential (type) | | | Disc clutch |
| Drive pinion offset | | | 7.50" R.G. - 38.1 (1.50); 8.75" R.G. - 44 (1.75) |
| Drive pinion (type) | | | Hypoid gear |
| No of differential pinions | | | Two |
| Pinion adjustment (shim, other) | | | Shim |
| Pinion bearing adj (shim other) | | | Collapsible sleeve |
| Driving wheel bearing (type) | | | Direct or single row cylindrical |
| Lubricant | Capacity (L (pt)) | | 7.5" R.G. 1.5 (3.5); 8.75" R.G. - 2.4 (5.4) |
| | Type recommended | | GL-5 Gear lubricant |
| | SAE viscosity number | Summer | 80W or 80W-90 |
| | | Winter | 80W or 80W-90 |
| | | Extreme cold | 80W or 80W-90 |

**Axle or Transaxle Ratio and Tooth Combinations** (See "Power Teams" for axle ratio usage)

| | | | | | | |
|---|---|---|---|---|---|---|
| Axle ratio or overall ratio | | 2.41 | 2.56 | 2.73 | 3.08 | 2.93 |
| No of teeth | Pinion | 17 | | 15 | 13 | |
| | Ring gear or gear | 41 | | 41 | 40 | |
| Ring gear o d | | 91(7.50)(a) | 222(8.75) | 191(7.50)(b) | | |
| Transaxle | Transfer gear ratio | | | | | |
| | Final drive ratio | | | | | |

(a) - Limited slip differential - 222 (8.75)
(b) - Limited slip and wagon - 222 (8.75)

| Engine Description/Carb. Engine Code | 3.8 LITER V6 (229 CID) 2-BBL. CARBURETOR RPO LC3 | 3.8 LITER V6 (231 CID) 2-BBL. CARBURETOR RPO LD5 |
|---|---|---|

**Propeller Shaft — Conventional Drive**

| | | | | |
|---|---|---|---|---|
| Type (straight tube, tube-in-tube, internal-external damper, etc.) | | | Straight tube | |
| Outer diam. x length* x wall thickness | Manual 3-speed trans | | Not available | |
| | Manual 4-speed trans. | | Not available | |
| | Manual 5-speed trans. | | Not available | |
| | Overdrive | | Not available | |
| | Automatic transmission | | (1) | (2) |
| Intermediate bearing | Type (plain, anti-friction) | | None | |
| | Lubrication (fitting, prepack) | | -- | |
| Slip yoke | Type | | Yoke | |
| | Number of teeth | | 27 | |
| | Spline o.d. | | 29.858-29.883 (1.1755-1.1765) | |
| Universal joints | Make and mfg no | Front | Saginaw 44 | |
| | | Rear | -- | |
| | Number used | | Two | |
| | Type (ball and trunnion, cross) | | Cross | |
| | Rear attach (u-bolt, clamp, etc.) | | Strap and Bolt | |
| | Bearing | Type (plain, anti-friction) | Anti-friction | |
| | | Lubric. (fitting, prepack) | Prepack | |
| Drive taken through (torque tube, arms or springs) | | | Control arm | |
| Torque taken through (torque tube, arms or springs) | | | Control arm | |

* Centerline to centerline of universal joints, or to centerline of rear attachment.

(1) 69.9x1484.9x1.65mm (2.75x58.46x.065 in) without Limited Slip Differential.
76.2x1464.3x1.65mm (3.0x57.65x.065 in) with Limited Slip Differential.

(2) 82.6x1464.3x1.65mm (3.25x57.65x.065 in) 2.73 axle with Limited Slip Differential.
3.23 axle with and w/o Limited Slip Differential.

82.6x1484.9x1.65mm (3.25x58.46x.065 in) 2.73 axle without Limited Slip Differential.

| Engine Description/Carb. Engine Code | 5.0 LITER V8 (305 CID) 4-BBL. CARBURETOR RPO LG4 | 5.7 LITER V8 (350 CID) DIESEL FUEL INJECTION RPO LF9 |
|---|---|---|

**Propeller Shaft — Conventional Drive**

| | | | | |
|---|---|---|---|---|
| Type (straight tube, tube-in-tube, internal-external damper, etc.) | | | Straight tube | |
| Outer diam x length* x wall thickness | Manual 3-speed trans | | Not available | |
| | Manual 4-speed trans. | | Not available | |
| | Manual 5-speed trans. | | Not available | |
| | Overdrive | | Not available | |
| | Automatic transmission | | (3) | (4) |
| Intermediate bearing | Type (plain, anti-friction) | | None | |
| | Lubrication (fitting, prepack) | | -- | |
| Slip yoke | Type | | Yoke | |
| | Number of teeth | | 27 | |
| | Spline o.d | | 29.858-29.883 (1.1755-1.1765) | |
| Universal joints | Make and mfg no | Front | Saginaw 44 | |
| | | Rear | -- | |
| | Number used | | Two | |
| | Type (ball and trunnion, cross) | | Cross | |
| | Rear attach (u-bolt, clamp, etc.) | | Strap and bolt | |
| | Bearing — Type (plain, anti-friction) | | Anti-friction | |
| | Bearing — Lubric. (fitting, prepack) | | Prepack | |
| Drive taken through (torque tube, arms or springs) | | | Control arm | |
| Torque taken through (torque tube, arms or springs) | | | Control arm | |

* Centerline to centerline of universal joints, or to centerline of rear attachment

(3) 76.2x1410.7x1.65mm (3.0x55.54x.065 in) 2.73 axle without Limited Slip Differential.
76.2x1384.0x1.65mm (3.0x54.49x.065 in) 2.73 axle with Limited Slip Differential.
3.08 axle with and w/o Limited Slip Differential.
76.2x1464.3x1.65mm (3.0x57.65x.065 in) All Canadian usage.

(4) Prints are not available.

| Engine Description/Carb. Engine Code | SEDAN | STATION WAGON: |
|---|---|---|
| | | |

**Tires And Wheels (Standard)**

| | | | | |
|---|---|---|---|---|
| Tires | Size (load range, ply) | | P205/75R15 (B/W, W/W*) | P225/75R15 (B/W, W/W*) |
| | Type (bias, radial, etc.) | | Steel belted radial | |
| | Inflation pressure (cold) for *recommended* max. vehicle load | Front [kPa (psi)] | 240 (35) | 165 (24) |
| | | Rear [kPa (psi)] | 240 (35) | 222 (32) |
| | Rev./mile—at 70 km/h (45 mph) | | 478 (769) | 458 (738) |
| Wheels | Type & material | | Short spoke disc, steel | |
| | Rim (size & flange type) | | 15x6 | 15x7 |
| | Wheel offset | | 12.7 (0.50) | 7.5 (0.30) |
| | Attachment | Type (bolt or stud) | Stud | |
| | | Circle diameter | 120.6 (4.75) | 127.0 (5.00) |
| | | Number & size | 5-7/16-20 UNF-2B hex nuts | 5-1/2-20 UNF-2B hex nuts |
| Spare | Tire and wheel (same, if other describe) | | 16x4 compact spare, T125/80D16 (without positraction)<br>16x4 compact spare, T145/80D16 (with Positraction and wagons) | |
| | Storage position & location (describe) | | Sedans-horizontal front center of trunk compartment.<br>Station wagon, vertical right rear quarter panel. | |

*Sealant tire option available with w/w tire.

**Tires And Wheels (Optional)**

| | | |
|---|---|---|
| Size (load range, ply) | | |
| Type (bias, radial, etc.) | | |
| Wheel (type & material) | | |
| Rim (size, flange type and offset) | | |
| Size (load range, ply) | | |
| Type (bias, radial, etc.) | | |
| Wheel (type & material) | | |
| Rim (size, flange type and offset) | | |
| Size (load range, ply) | P225/70R15 (w/w) (+) | |
| Type (bias, radial, etc.) | Steel belted radial | |
| Wheel (type & material) | Short spoke disc. steel | |
| Rim (size, flange type and offset) | 15x7; 7.5 (0.30) | |
| Size (load range, ply) | | |
| Type (bias, radial, etc.) | | |
| Wheel (type & material) | | |
| Rim (size, flange type and offset) | | |
| Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position) | | |

**Brakes — Parking**

| | | |
|---|---|---|
| Type of control | | Foot pedal application; "T" handle release |
| Location of control | | Under instrument panel; left of steering column |
| Operates on | | Rear service brake |
| If separate *from* service brakes | Type (internal or external) | -- |
| | Drum diameter | -- |
| | Lining size (length x width x thickness) | -- |

| Body Type And/Or *Engine Displacement* | SEDAN | STATION WAGON |
|---|---|---|

## Brakes — Service

| | | | | | |
|---|---|---|---|---|---|
| Description | | | | | |
| Brake type (std., opt., n.a.) | Front (disc or drum) | | | Disc | |
| | Rear (disc or drum) | | | Drum | |
| Self-adjusting (std., opt., n.a.) | | | | Standard | |
| Special valving | Type (proportion, delay, metering, other) | | | Metering and Proportioning | |
| Power brake (std., opt., n.a.) | | | | Standard | |
| Booster type (remote, integral, vac., hyd., etc.) | | | | Integral low - vacuum warning switch (a) | |
| Anti-skid device type (std., opt., n.a.) | | | | Not available | |
| *Effective area* [$cm^2$ ($in.^2$)]* | | | | 648 (100.5) | 717 (111.1) |
| Gross lining area [$cm^2$ ($in.^2$)]** | | | | 717 (111.1) | 792 (122.9) |
| Swept area [$cm^2$ ($in^2$)]*** | | | | 2127 (329.8) | 2420 (375.1) |
| Rotor | Outer working diameter | | F | 279.1 (11.0) | 301.2 (11.86) |
| | | | R | -- | -- |
| | Inner working diameter | | F | 177.8 (7.0) | 197.4 (7.77) |
| | | | R | -- | -- |
| | Thickness | | F | 26.2 (1.03) | |
| | | | R | -- | -- |
| | Material & type (vented/solid) | | F | Cast iron, vented | |
| | | | R | -- | |
| Drum | *Diameter* (nominal) | | F | -- | |
| | | | R | 241.3 (9.5) | 279.4 (11.0) |
| | Type and material | | | Cast iron finned | |
| Wheel cyl-*inder bore* | Front | | | 74.7 (2.94) | |
| | Rear | | | 22.22 (.875) | 23.81 (.9374) |
| Master cylinder | Bore | | | 28.6 (1.13) | |
| | Stroke | | | 39.6 (1.56) | |
| Pedal arc ratio | | | | 3.5:1 | |
| Line pressure at 445 N (100 lb.) pedal load [kPa (psi)] | | | | | |
| *Lining* clearance per shoe | Front | | | Self-adjusting | |
| | Rear | | | Self-adjusting | |
| Brake lining | Front wheel | Bonded or riveted (rivets/seg.) | | Riveted; 8 | |
| | | Rivet size | | 5.33 x 9.12 (.210 x .359) | |
| | | Manufacturer | | Delco Moraine | |
| | | Lining code | | | |
| | | Material | | Molded asbestos | |
| | | **** Size | Primary or out-board | 137 x 48.8 x 11.81 (5.40 x 1.92 x 0.465) | |
| | | | Secondary or in-board | 137 x 48.8 x 11.81 (5.40 x 1.92 x 0.465) | |
| | | Shoe thickness (no lining) | | Inboard 15.75 (.620); outboard 14.0 (.550) | |
| | Rear wheel | Bonded or riveted (rivets/seg.) | | Riveted: 10-primary, 12-secondary | |
| | | *Manufacturer* | | Inlite | |
| | | Lining code | | | |
| | | Material | | Molded asbestos | |
| | | **** Size | Primary or out-board | 192.5x50.8x4.98(7.58x2.0x196) | 225x50.8x5.6(8.86x2.0x0.22) |
| | | | Secondary or in-board | 249.7x50.8x6.73(9.83x2.0x.265) | 291x50.8x6.6(11.5x2.0x0.2 |
| | | Shoe thickness (no lining) | | Pri-7.6(.30);sec-9.4(.370) | Pri-8.3(.330);sec.-9.1(.370 |

(a)-Hydraulic booster on station wgn. with RPO LF9 diesel engine.

| Body Type And/Or Engine Displacement | SEDAN | STATION WAGON |
|---|---|---|

## Steering

| | | | | | | |
|---|---|---|---|---|---|---|
| Manual (std., opt., n.a.) | | | | | Not available | |
| Power (std., opt., n.a.) | | | | | Standard and includes quick prime feature | |
| Adjustable steering wheel (tilt, swing, other) | | Type and description | | | Tilt - universal jointed steering shaft at base of steering wheel - 6 position | |
| | | (Std., opt., n.a.) | | | Optional | |
| Wheel diameter | | Manual | | | -- | |
| | | Power | | | 387 (15.25) | |
| Turning diameter m (ft.) | Outside front | Wall to wall (l. & r.) | | | 13.6 (44.6) | 13.8 (45.3) |
| | | Curb to curb (l. & r.) | | | 11.8 (38.7) | 12.1 (39.7) |
| | Inside rear | Wall to wall (l. & r.) | | | -- | |
| | | Curb to curb (l. & r.) | | | -- | |
| Manual | Gear | Type | | | Not available | |
| | | Make | | | -- | |
| | | Ratios | Gear | | -- | |
| | | | Overall | | -- | |
| | No. wheel turns (stop to stop) | | | | -- | |
| Power | Type (coaxial, linkage, etc.) | | | | Integral gear with power piston & vane type pump | |
| | Make | | | | Saginaw Steering Gear | |
| | Gear | Type | | | Semi-reversible recirculating ball nut | |
| | | Ratios | Gear | | 14:1 (a) | 13/16:1 (b) |
| | | | Overall | | 18:1 | 18.8:1 on center |
| | Pump (drive) | | | | 'V' belt | |
| | No. wheel turns (stop to stop) | | | | 3.16 | 3.3 |
| Linkage | Type | | | | Parallelogram | |
| | Location (front or rear of wheels, other) | | | | Front | |
| | Drag links (trans. or longit.) | | | | None | |
| | Tie rods (one or two) | | | | Two | |
| Steering axis | Inclination at camber (deg.) | | | | 9.785 @1 | |
| | Bearings (type) | Upper | | | Ball stud with non-metallic surfaces | |
| | | Lower | | | Ball stud with non-metallic surfaces | |
| | | Thrust | | | None | |
| Steering spindle & joint type | | | | | -- | |
| Wheel spindle | Diameter | Inner bearing | | | 31.7 (1.25) | |
| | | Outer bearing | | | 19.0 (0.75) | |
| | Thread (size) | | | | 3/4-20 | |
| | Bearing (type) | | | | Tapered roller | |

(a) V8 sedans
(b) V6 sedans, V8 wagons

| Body Type And/Or Engine Displacement | SEDAN | STATION WAGON |
|---|---|---|

## Wheel Alignment

| | | | |
|---|---|---|---|
| Front wheel at curb mass (wt.) | Service checking | Caster (deg.) | +2° to +4° |
| | | Camber (deg.) | 0° to +1.6° |
| | | Toe-in [outside track-mm (in.)] | +0.5° to +0.25° (1/16" to +1/4") |
| | Service reset* | Caster | +3° +/- 0.5° |
| | | Camber | +0.8° +/- 0.5° |
| | | Toe-in | +.15 +/- .05° (+1/8" +/- 1/16") |
| | Periodic M.V. inspection | Caster | +1° to +5° |
| | | Camber | -0.7° to +2.3° |
| | | Toe-in | -0.15° to +0.55° (-3/16" to +9/16") |
| Rear wheel at curb mass (wt.) | Service checking | Camber (deg.) | |
| | | Toe-in [outside track-mm (in.)] | |
| | Service reset* | Camber | |
| | | Toe-in | |
| | Periodic M.V. inspection | Camber | |
| | | Toe-in | |

* Indicates pre-set, adjustable, trend set or other.

| Body Type And/Or Engine Displacement | SEDAN | STATION WAGON |
|---|---|---|

## Suspension — General

| | | |
|---|---|---|
| Car leveling | Std /opt /n.a | Optional, for station wagons only (rear only) |
| | Type (air, hyd., etc.) | Air |
| | Manual/auto controlled | Manual |
| Provision for brake dip control | | Front suspension geometry |
| Provision for accl squat control | | Rear suspension geometry |
| Special provisions for car jacking | | Side lift frame jack body bolt access holes on each side of frame about 2 feet from each wheel centerline |
| Shock absorber (front & rear) | Type | Direct, double acting, hydraulic |
| | Make | Delco |
| | Piston diameter | 25 (1.0) |
| Other special features | | None |

## Suspension — Front

| | | | |
|---|---|---|---|
| Type and description | | Independent - SLA | |
| Travel | Full jounce | 90.3mm (3.56 in) | |
| | Full rebound | 107.7mm (4.24 in) | |
| Spring | Type (coil, leaf, other) | Coil | |
| | Material | Steel alloy | |
| | Size (coil design height & i.d., bar length x dia.) | 241.3x102.9x3347x15.8 (9.5x4.05x131.7x0.622) | 241.3x114.3x2743.2x26.8 (9.5x4.50x108.0x0.660) |
| | Spring rate (N/mm (lb /in)) | V6-47.0(268.0)V8-52.5(300.0) | All exc. LF9-64.0(366.0)w/LF9-70.0(400.0 |
| | Rate at wheel (N/mm (lb /in)) | V6-13.8( 79.0)V8-15.5( 88.0) | All exc. LF9-18.7(107.0)w/LF9-20.0(114.0 |
| Stabilizer | Type (link, linkless, frameless) | Link | |
| | Material & bar diameter | Steel-26(1.0); 29(1.14)(a) | Steel-28 (1.1) |

## Suspension — Rear

| | | | | |
|---|---|---|---|---|
| Type and description | | Salisbury 4-link | | |
| Drive and torque taken through | | Control arms | | |
| Travel | Full jounce | 123.0mm (4.8 in) | 105.0mm (4.1 in) | |
| | Full rebound | 114.0mm (4.5 in) | 108.0mm (4.2 in) | |
| Spring | Type (coil leaf, other) | Coil | | |
| | Material | Steel alloy | | |
| | Size (length x width, coil design height & i.d., bar length & dia.) | 254x139.7x2961.3x13.44 (10.0x5.5x116.6x0.529) | 254x139.7x2585.7x15.5 (10.0x5.5x101.8x0.069) | |
| | Spring rate (N/mm (lb /in)) | 17.5(100.0),w/F40&41-27.1(155.0) | 28.9(165.0),w/F40-36.8(210.0) | |
| | Rate at wheel (N/mm (lb /in)) | 19.4(110.0),w/F40&41-27.2(155.0) | 29.9(171.0),w/F40-35.3(202.0) | |
| | Mounting insulation (type) | -- | | |
| | If leaf: No of leaves | -- | | |
| | If leaf: Shackle (comp or tens) | -- | | |
| Stabilizer | Type (link, linkless, frameless) | Link | None | |
| | Material & bar diameter | Steel - 21.8 (0.86)(b) | -- | |
| Track bar (type) | | None | | |

(a) Available only on station wagons
(b) Used with RPO F41 sport suspension

**METRIC (U.S. Customary)**

| Body Type | SEDAN | STATION WAGON |
|---|---|---|

## Body — Miscellaneous Information

| | | | |
|---|---|---|---|
| Type of finish (lacquer, enamel, other) | | | Lacquer |
| Hood | Hinge location (front, rear) | | Rear |
| | Type (counterbalance, prop) | | 4-link type with spiral spring |
| | Release control (internal, external) | | Internal |
| Trunk lid | Type (counterbalance, other) | | Counterbalance |
| | Internal release control (elec., mech., n.a.) | | Electric |
| Bumper front | Bar material & mass (wt.) | | Steel 13.622 (30.0) |
| | Reinforcement material & mass (wt.) | | Aluminum 5.244 (11.6) |
| Bumper rear | Bar material & mass (wt.) | | Steel sedan 12.333 (27.2), Station wagon 11.850 (26.1) |
| | Reinforcement material & mass (wt.) | | Aluminum sedan 4.950 (10.9), steel wagon 16.158 (35.6) |
| Vent window control (crank, friction, pivot, power) | | Front | None |
| | | Rear | None |
| Seat cushion type | | Front | Formed full foam pad |
| | | Rear | Formed full foam pad |
| | | 3rd seat | Formed full foam pad |
| Seat back type | | Front | Formed full foam pad |
| | | Rear | Formed full foam pad |
| | | 3rd seat | Formed full foam pad |
| Vehicle ident. no. location | | | Top left hand instrument panel pad |

## Passive Restraint System

| | | |
|---|---|---|
| Inflatable restraint system | Standard/ optional | Not Available |
| | Type of charging system | -- |
| | Location (stg. whl., instru. panel, other) | -- |
| Passive seat belts | Standard/ optional | Not Available |
| | Power/ manual | -- |
| | 2 or 3 point | -- |
| | Knee bar/ lap belt | -- |

## Frame

| | |
|---|---|
| Type and description (separate frame, unitized frame, partially-unitized frame) | Perimeter type, two crossmembers |

| Body Type | 4-DOOR SEDAN | 4-DOOR STATION WAGON |
|---|---|---|

## Convenience Equipment

| | | | |
|---|---|---|---|
| Power windows | Side windows | Optional (door windows only) | |
| | Vent windows | Not available | |
| | Backlight or tailgate | Not available | standard |
| Power seats (specify type as well as availability) | | Optional - 6 way 50/50 power bench (left only), All models<br>- 6 way power bench, All models | |
| Reclining front seat back (r-l or both) | | 50/50 seat, passenger seat only | |
| Radio (specify type as well as availability) | | AM, AM-FM, AM-FM Stereo, AM-FM Stereo Cassette. All optional. | |
| Premium sound system (specify) | | Not available | |
| Rear seat speaker | | Dual rear speakers optional with manual, included with stereo | |
| Power antenna | | Optional | |
| Clock - quartz analog* | | Standard 1BN00 models, Optional 1BL00 model | |
| Air conditioner (specify type) | | Optional - Four season manual control | |
| Speed warning device | | Not available | |
| Speed control device | | Optional | |
| Ignition lock lamp | | Not available | |
| Dome lamp | | Standard | |
| Glove compartment lamp | | Standard | |
| Luggage compartment lamp | | Standard | Rear dome standard |
| Underhood lamp | | Optional | |
| Courtesy lamp | | Standard 1BN00 models, Optional 1BL00 model | |
| Map lamp | | Optional (2) in dome - lamp | |
| Cornering lamp | | Optional | |
| Rear window defroster electrically heated | | Optional | |
| Rear window defogger | | Not available | |
| T-bar roof (describe) | | Not available | |
| Sun roof (describe) | | Not available | |
| Theft protection—type | | Lock mounted on steering column; locks steering wheel, transmission shift levers and ignition. | |

* Digital clock optional for all models

## FEATURE HIGHLIGHTS

(Manufacturers selected list of special vehicle features, indicate if new or model year introduced)

**BODY:**

**CHASSIS:**

**ENGINE:**

**ELECTRICAL:**

**OTHER:**

## Vehicle Mass (weight)

| Model | CURB MASS, kg (weight, lb)* | | | % PASS MASS DISTRIBUTION | | | | SHIPPING MASS, kg (weight, lb)** |
|---|---|---|---|---|---|---|---|---|
| | | | | Pass in Front | | Pass in Rear | | |
| | Front | Rear | Total | Front | Rear | Front | Rear | |
| Impala | | | | | | | | |
| 4-Door Sedan 1BL69 (a) | 851.6 (1877) | 732.5 (1615) | 1584.1 (3492) | | | | | 1522.9 (3357) |
| Caprice Classic | | | | | | | | |
| 4-Door Sedan 1BN69 (a) | 862.3 (1901) | 743.5 (1639) | 1605.8 (3540) | | | | | 1544.6 (3405) |
| 4-Door, 3-Seat (b) Station Wagon 1BN35 | 879.5 (1938) | 971.0 (214) | 1850.5 (4079) | | | | | 1797.7 (3963) |

(a) With V6 - 229 CID 3.8 Liter Engine

(b) With V8 - 305 CID 5.0 Liter Engine

Curb Weight - The calculated weight of a vehicle with standard equipment only as designed with the additional load of oil, lubes, coolants, and fuel all filled to capacity.

Shipping Weight - Same as base curb weight, except 3 gallons of gasoline.

* Reference — SAE J1100a, Motor vehicle dimensions, curb weight definition.

** Shipping mass (weight) definition —

**METRIC (U.S. Customary)**

## Optional Equipment Differential Mass (weight)*

| Equipment | MASS, kg (weight, lb.) Front | Rear | Total | Remarks |
|---|---|---|---|---|
| Air Conditioning 4-Season | 34.2 (+75.4) | 1.6 (+3.5) | 35.8 (+78.9) | 1BL69 & LC3, V6 |
| | 33.2 (+73.2) | 1.6 (+3.5) | 34.8 (+76.7) | 1BN69 & LC3, V6 |
| | 27.0 (+59.5) | 1.6 (+3.5) | 28.6 (+63.0) | 1BL00 & LD5, V6 |
| | 26.0 (+57.3) | 1.6 (+3.5) | 27.6 (+60.8) | 1BN00 & LD5, V6 |
| | 27.0 (+59.5) | 1.6 (+3.5) | 28.6 (+63.0) | 1BL00 & LG4, LF9, V8 |
| | 26.0 (+57.3) | 1.6 (+3.5) | 27.6 (+60.8) | 1BN00 & LG4, LF9, V8 |
| Electric Door Locks | 1.8 (+4.0) | 1.4 (+3.1) | 3.2 (+7.1) | 4-Door Models |
| Power Front Seat 6-Way | 2.6 (+5.7) | 3.2 (+7.1) | 5.8 (+12.8) | Used with AG1 or A42 |
| Floor Mats Front & Rear | 2.0 (+4.4) | 1.2 (+2.7) | 3.2 (+7.1) | |
| Carpet - Load Floor | -0.4 (-0.9) | 2.6 (+5.7) | 2.2 (+4.8) | 1BN35 |
| Vinyl Roof Cover | 1.2 (+2.7) | 2.2 (+4.8) | 3.4 (+7.5) | |
| Power Windows | 2.4 (+5.3) | 2.6 (+5.7) | 5.0 (+11.0) | 4-Door Models |
| Wheel Trim Covers | 0.6 (+1.3) | 0.8 (+1.8) | 1.4 (+3.1) | 1BL00 Model |

* Also see Engine — General Section for dressed engine mass (weight).

## Optional Equipment Differential Mass (weight)*

| Equipment | MASS kg (weight, lb) | | | Remarks |
|---|---|---|---|---|
| | Front | Rear | Total | |
| Covers - Simulated Wire Wheel | 3.6 (+7.9) | 3.6 (+7.9) | 7.2 (+15.8) | |
| Covers - Deluxe Wheel Trim | 4.2 (+7.3) | 4.0 (+8.8) | 8.2 (+18.1) | 1BL69 |
| | 3.4 (+7.5) | 3.4 (+7.5) | 6.8 (+15.0) | 1BN69 |
| | 1.0 (+2.2) | 1.0 (+2.2) | 2.0 (+4.4) | 1BN35 |
| Bumper Impact Strips | 0.8 (+1.8) | 0.8 (+1.8) | 1.6 (+3.5) | |
| Bumper Guards | 1.2 (+2.7) | 1.2 (+2.7) | 2.4 (+5.4) | 1BL69, 1BN69 |
| | 1.2 (+2.7) | 1.0 (+2.2) | 2.2 (+4.9) | 1BN35 |
| Radio AM Push buttom | 3.2 (+7.1) | 0.6 (+1.3) | 3.8 (+8.4) | |
| Radio AM/FM Pushbuttom | 3.8 (+8.4) | 0.6 (+1.3) | 4.4 (+9.7) | |
| Radio AM/FM Stereo | 5.0 (+11.0) | 2.2 (+4.8) | 7.2 (+15.8) | |
| Radio AM/FM Stereo & 8-Track Tape | 5.6 (+12.4) | 2.2 (+4.8) | 7.8 (+17.2) | |
| Radio AM/FM Stereo with Cassette Tape | 5.2 (+11.5) | 2.2 (+4.8) | 7.4 (+16.3) | |

* Also see Engine — General Section for dressed engine mass (weight).

## Optional Equipment Differential Mass (weight)*

| Equipment | MASS, kg (weight, lb.) | | | Remarks |
|---|---|---|---|---|
| | Front | Rear | Total | |
| Auxiliary Speaker | 0 | 1.0 | 1.0 | |
| | (0) | (+2.2) | (+2.2) | |
| Speakers Rear Dual | 0 | 0.8 | 0.8 | |
| | (0) | (+1.8) | (+1.8) | |
| Roof Luggage Carrier | 0 | 8.8 | 8.8 | 1BN35 |
| | (0) | (+19.4) | (+19.4) | |
| Sport Suspension Equipment | 3.0 | 11.4 | 14.4 | |
| | (+6.6) | (+25.1) | (+31.7) | |
| Engine V8 305 CID RPO-LG4 | 43.6 | 3.4 | 47.0 | 1BL69, 1BN69 |
| | (+96.1) | (+7.5) | (+103.6) | |
| | -8.0 | -0.8 | -8.8 | 1BN35 |
| | (-17.6) | (-1.8) | (-19.4) | |
| Engine Diesel V8 350 CID RPO LF9 | 149.4 | 22.6 | 172.0 | 1BL69 |
| | (+329.4) | (+49.8) | (+379.2) | |
| | 149.2 | 22.6 | 171.8 | 1BN69 |
| | (+328.9) | (+49.8) | (+378.7) | |
| | 97.0 | 11.6 | 108.6 | 1BN35 |
| | (+213.8) | (+25.6) | (+239.4) | |

* Also see Engine — General Section for dressed engine mass (weight)

## Car and Body Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice.
J1100a "Motor Vehicle Dimensions," unless otherwise specified.

| Body Type | SAE Ref. No. | 4-Door Sedans 1BL69 1BN69 | 4-Door Station Wagon 1BN35 |
|---|---|---|---|
| **Width** | | | |
| Tread (front) | W101 | 1568 ( 61.8) | 1578 ( 62.2) |
| Tread (rear) | W102 | 1542 ( 60.8) | 1628 ( 64.1) |
| Vehicle width | W103 | 1914 ( 75.3) | 2014 ( 79.3) |
| Body width at Sg RP (front) | W117 | 1910 ( 75.2) | |
| Vehicle width (front doors open) | W120 | 3291 (129.6) | 3291 (129.6) |
| Vehicle width (rear doors open) | W121 | 3470 (136.6) | 3426 (134.9) |
| **Length** | | | |
| Wheelbase | L101 | 2945 (116.0) | |
| Vehicle length | L103 | 5386 (212.2) | 5464 (215.1) |
| Overhang (front) | L104 | 1030 ( 40.6) | |
| Overhang (rear) | L105 | 1411 ( 55.6) | 1489 ( 58.6) |
| Upper structure length | L123 | 2366 ( 91.3) | 3506 (138.0) |
| Rear wheel C/L "X" coordinate | L127 | 2475 ( 97.5) | |
| Cowl point "X" coordinate | L125 | 236 ( 9.3) | 235 ( 9.2) |
| **Height** ** | | | |
| Passenger distribution (frt/rear) | PD1,2,3 | ** | |
| Trunk/cargo load | | ** | |
| Vehicle height | H101 | 1433 ( 56.4) | 1475 (58.1) |
| Cowl point to ground | H114 | 1000 ( 39.4) | 1007 (39.6) |
| Deck point to ground | H138 | | |
| Rocker panel-front to ground | H112 | 233 ( 9.2) | 240 ( 9.4) |
| Bottom of door closed-front to grd | H133 | 295 ( 11.6) | |
| Rocker panel-rear to ground | H111 | 242 ( 9.5) | 250 ( 9.9) |
| Bottom of door closed-rear to grd | H135 | 297 ( 11.7) | 304 ( 12.0) |
| **Ground Clearance** ** | | | |
| Front bumper to ground | H102 | 307 ( 12.1) | 312 ( 12.3) |
| Rear bumper to ground | H104 | 364 ( 14.3) | 300 ( 11.8) |
| Bumper to ground (front at curb mass (wt)) | H103 | 333 ( 13.1) | |
| Bumper to ground (rear at curb mass (wt)) | H105 | 382 ( 15.0) | 311 ( 12.2) |
| Angle of approach | H106 | 16.7° | 17.0° |
| Angle of departure | H107 | 16.5° | 18.0° |
| Ramp breakover angle | H147 | 16.3° | 14.3° |
| Rear axle differential to ground | H153 | 192 ( 7.5) | 194 ( 7.6) |
| Min running ground clearance | H156 | 162 ( 6.4) | 170 ( 6.7) |
| Location of min run grd clear | | Rear shock absorber bracket | |

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds)

** *All Vehicle Height And Ground Clearances Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.*

EPA LOADED VEHICLE WEIGHT Is The Base Vehicle Weight Plus All Coolant And Fluids Necessary For Operation Plus 100% Of The Fuel Capacity, Plus The Weight Of All Options And Accessories Which Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

**METRIC (U.S. Customary)**

**Car and Body Dimensions** See Key Sheets for definitions

| | | | | |
|---|---|---|---|---|
| **Body Type** | **SAE Ref. No.** | 4-Door Sedans | | 4-Door Station Wagon |
| | | 1BL69 | 1BN69 | 1BN35 |
| **Front Compartment** | | | | |
| Sg RP front, "X" coordinate | L31 | 1078 (42.4) | | |
| Effective head room | H61 | 1003 (39.5) | 997 (39.2) | 1005 (39.6) |
| Max. eff leg room (accelerator) | L34 | 1072 (42.2) | | |
| Sg RP (front to heel) | H30 | 220 ( 8.7) | | |
| Design H-point front travel | L17 | 163 ( 6.4) | | |
| Shoulder room | W3 | 1536 (60.5) | 1546 (60.9) | 1546 (60.9) |
| Hip room | W5 | 1398 (55.0) | | 1400 (55.1) |
| ** Upper body opening to ground | H50 | -- | | |
| Steering wheel angle | H18 | 19.0° | | |
| Back angle | L40 | 26.5° | | |
| **Rear Compartment** | | | | |
| Sg RP Point couple distance | L50 | 882 (34.7) | | 844 (33.2) |
| Effective head room | H63 | 971 (38.2) | 965 (38.0) | 999 (39.3) |
| Min. effective leg room | L51 | 992 (39.1) | | 959 (37.8) |
| Sg RP (second to heel) | H31 | 292 (11.5) | | 307 (12.1) |
| Knee clearance | L48 | 91 ( 3.6) | | 51 ( 2.0) |
| Compartment room | L3 | 734 (28.9) | | 720 (28.4) |
| Shoulder room | W4 | 1537 (60.5) | 1546 (60.9) | 1548 (60.9) |
| Hip room | W6 | 1405 (55.3) | | 1398 (55.0) |
| ** Upper body opening to ground | H51 | | | |
| **Luggage Compartment** | | | | |
| Usable luggage capacity [L (cu. ft.)] | V1 | 592L (20.9 cu. ft.) | | -- |
| ** Liftover height | H195 | 827 (32.6) | | -- |

All linear dimensions are in millimeters (inches)

*** EPA Loaded Vehicle Weight, Loading Conditions*

*All Interior Dimensions Are Measured With The Seating Reference Point (SgRP)____mm ( 1 Seat Adjuster Notch ) Forward Of Rearmost Seat Position.*

| Body Type | SAE Ref. No. | Station Wagon - 3 Seat<br>1BN35 |
|---|---|---|

## Station Wagon — Third Seat

| | | |
|---|---|---|
| Shoulder room | W85 | 1240 ( 48.8) |
| Hip room | W86 | 1109 ( 43.7) |
| Effective leg room | L86 | 782 ( 30.8) |
| Effective head room | H86 | 948 ( 37.3) |
| Effective T-point head room | H89 | 948 ( 37.3) |
| Seat facing direction | SD1 | Rearward |

## Station Wagon — Cargo Space

| | | |
|---|---|---|
| Cargo length (open front) | L200 | 2790 (109.8) |
| Cargo length (open second) | L201 | 1907 ( 75.1) |
| Cargo length (closed front) | L202 | 2290 ( 90.2) |
| Cargo length (closed second) | L203 | 1407 ( 55.4) |
| Cargo length at belt (front) | L204 | 2129 ( 83.8) |
| Cargo length at belt (second) | L205 | 1222 ( 48.1) |
| Cargo width (wheelhouse) | W201 | 1224 ( 48.2) |
| Rear opening width at floor | W203 | 1238 ( 48.7) |
| Opening width at belt | W204 | 1224 ( 48.2) |
| Max. rear opening width above belt | W205 | 988 ( 38.9) |
| Cargo height | H201 | 755 ( 29.7) |
| Rear opening height | H202 | 729 ( 28.7) |
| Tailgate to ground height | H250 | 767 ( 30.2) |
| Front seat back to load floor height | H197 | -- |
| Cargo volume index — L (cu.ft.) | V2 | 2488L (87.9 cu. ft.) * |
| Hidden cargo volume — L (cu. ft.) | V4 | |

## Hatchback — Cargo Space

| | | |
|---|---|---|
| Front seat back to load floor height | H197 | -- |
| Cargo length at front seat back height | L208 | Not applicable |
| Cargo length at floor (front) | L209 | -- |
| Cargo volume index — L (cu.ft.) | V3 | -- |
| Hidden cargo volume — L (cu. ft.) | V4 | -- |

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (inches).

* V10 - Station wagon cargo volume index - second seat-up
1BN35 - 1428 (50.4).

**Car and Body Dimensions** See Key Sheets for definitions

| Body Type | 4-Door Sedans | | 4-Door Station Wagon |
|---|---|---|---|
| | 1BL69 | 1BN69 | 1BN35 |

**Vehicle Fiducial Marks**

| Fiducial Mark Number* | | Define Coordinate Location | |
|---|---|---|---|
| Front | | X - Fiducial marks to vertical base grid line-front, measured horizontally from the base grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt.<br>Y - Fiducial mark to centerline of car-front, width measurement made from centerline of car to fiducial mark located on top of the front seat adjuster mounting bolt.<br>Z - Fiducial mark to horizontal base grid line-front, measured vertically from base grid line to front fiducial mark located on top of the front seat adjuster mounting bolt. | |
| Rear | | X - Fiducial mark to vertical base grid line-rear measured horizontally from base grid line to the rear fiducial mark located on rear underbody crossbar.<br>Y - Fiducial mark to centerline of car-rear, width measurement made from centerline of car to fiducial mark located on the rear underbody crossbar.<br>Z - Fiducial mark to horizontal base grid line-rear, measured vertically from base grid line to the rear fiducial mark located on rear underbody crossbar. | |
| Fiducial Mark Number | | | |
| Front | W21 | 564 (22.2) | |
| | L54 | 2754 (108.4) | |
| | H81 | 509 (20.0) | |
| | H161 | 348 (13.7) | 349 (13.7) |
| ** | H163 | 325 (12.8) | 332 (13.1) |
| Rear | W22 | 254 (10.0) | 302 (11.9) |
| | L55 | 5533 (217.8) | 5440 (214.2) |
| | H82 | 586 (23.1) | 466 (18.2) |
| | H162 | 449 (17.7) | 331 (13.0) |
| ** | H164 | 431 (17.0) | 319 (12.6) |

| Body Type | SAE Ref. No. | 4-Door Sedans | | 4-Door Station Wagon |
|---|---|---|---|---|
| | | 1BL69 | 1BN69 | 1BN35 |

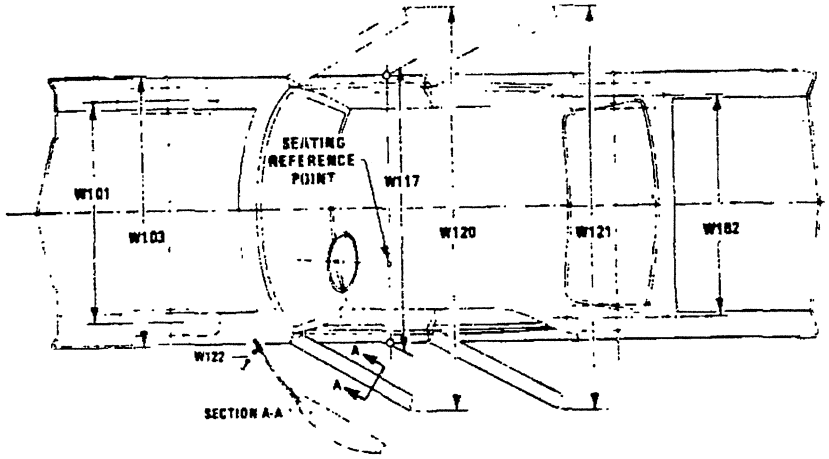
**Glass**

| | | | | |
|---|---|---|---|---|
| Backlight slope angle (deg.) | H121 | 41.5° | | 32.5° |
| Windshield slope angle (deg.) | H122 | 53.5° | | |
| Tumble-Home (deg.) | W122 | 23.0° | | 24.5° |
| Windshield glass exposed surface area [$cm^2$(in.$^2$)] | S1 | 8619 (1335.9) | | |
| Side glass exposed surface area [$cm^2$(in.$^2$)] | S2 | 12004 (1860.6) | | 19948 (3091.9) |
| Backlight glass exposed surface area [$cm^2$(in.$^2$)] | S3 | 5278 ( 818.1) | | 4661 ( 722.5) |
| Total glass exposed surface area [$cm^2$(in.$^2$)] | S4 | 25901 (4014.7) | | 33228 (5150.3) |
| Windshield glass (type) | | Curved - Laminated Plate | | |
| Side glass (type) | | Curved - Tempered Plate | | |
| Backlight glass (type) | | Curved - Tempered Plate | | |

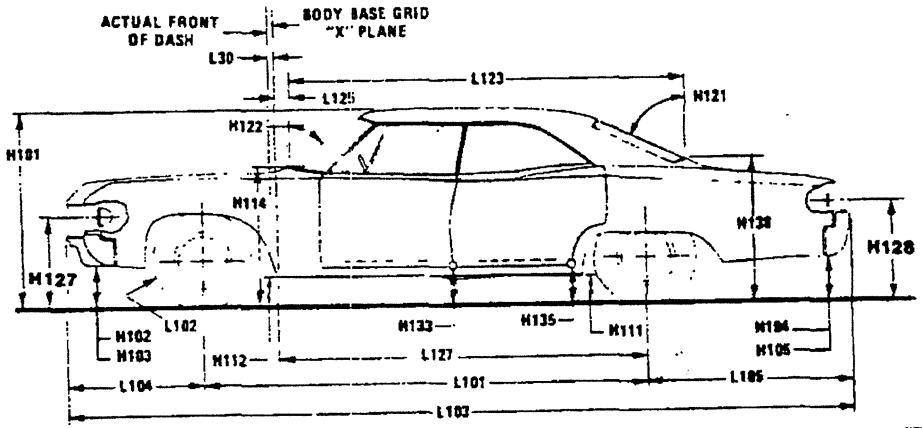
**Lamps and Headlamp Shape***

| | | | | | |
|---|---|---|---|---|---|
| Height above ground to center of bulb or marker | Headlamp (H127) | Highest** | 705.6 (27.8) | | 705.9 (27.8) |
| | | Lowest | 706.5 (27.8) | | 705.0 (27.7) |
| | Taillamp (H128) | Highest** | 707.1 (27.8) | | 727.5 (28.6) |
| | | Lowest | -- | | |
| | Sidemarker | Front | 665.0 (26.2) | | 664.4 (25.4) |
| | | Rear | 699.0 (27.5) | | 588.7 (23.2) |
| Distance from C/L of car to center of bulb | Headlamp | Inside | 562.0 (22.1) | 566.0 (22.3) | |
| | | Outside** | 737.2 (29.0) | 741.2 (29.2) | |
| | Taillamp | Inside | 419.0 (16.5) | 370.0 (14.6) | 906.6 (35.7) |
| | | Outside** | 775.0 (30.5) | 779.0 (30.7) | 916.0 (36.1) |
| | Directional | Front | 721.0 (28.4) | | |
| | | Rear | 775.0 (30.5) | 779.0 (30.7) | 916.0 (36.1) |
| Headlamp shape | | | Rectangular | | |

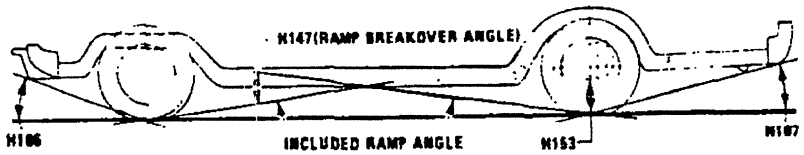
## Exterior Width



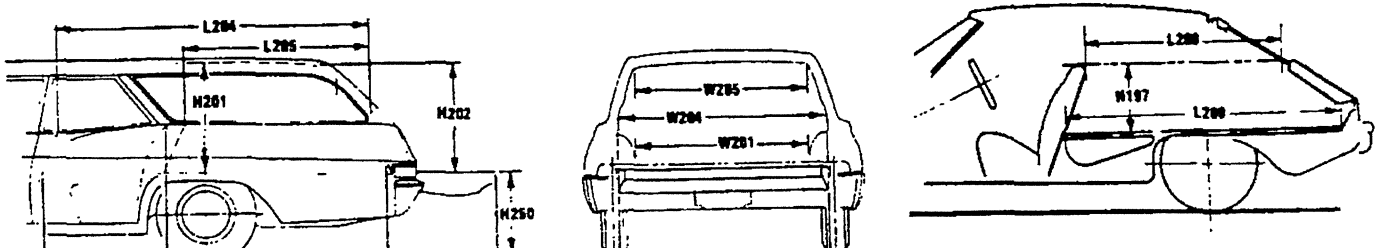

## Exterior Length & Height



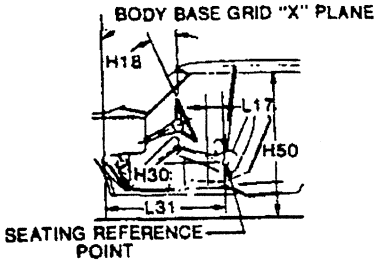

## Exterior Ground Clearance

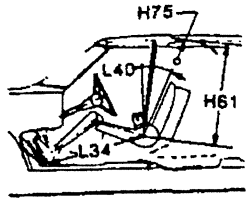



## Cargo Space

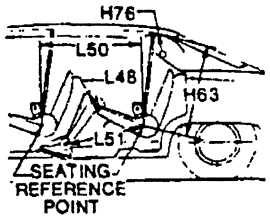


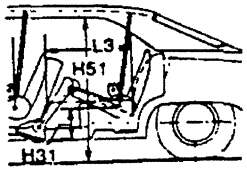
## Front Compartment



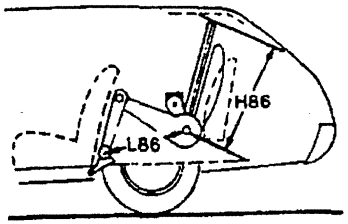



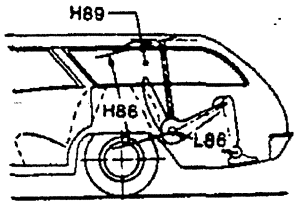

## Rear Compartment

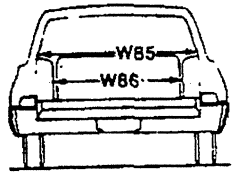


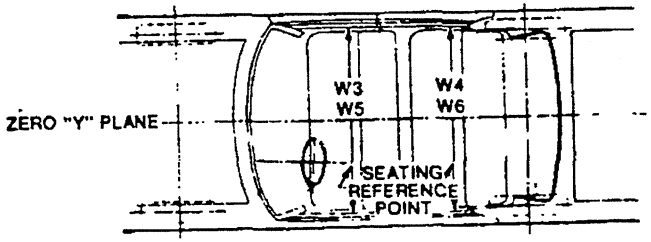

## Third Seat




## Interior Width



## Exterior Car And Body Dimensions — Key Sheet
## Dimensions Definitions

**Seating Reference Point**

SEATING REFERENCE POINT means the manufacturer's design reference point which —
(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
(b) Has coordinates established relative to the design vehicle structure;
(c) Simulates the position of the pivot center of the human torso and thigh; and
(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

**Width Dimensions**

W101 TREAD—FRONT. The dimension measured between the tire centerlines at the ground

W102 TREAD—REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

W117 BODY WIDTH AT SgRP—FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques

W120 VEHICLE WIDTH—FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.

W121 VEHICLE WIDTH—REAR DOORS OPEN The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.

W122 TUMBLE HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

**Length Dimensions**

L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero "X" plane.

L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

L102 TIRE SIZE. As specified by the manufacturer.

L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L104 OVERHANG—FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L105 OVERHANG—REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.

L125 COWL POINT "X" COORDINATE.

**Height Dimensions**

H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

H114 COWL POINT TO GROUND. Measured at zero "Y" plane.

H138 DECK POINT TO GROUND. Measured at zero "Y" plane.

H112 ROCKER PANEL—FRONT TO GROUND The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

H132 BOTTOM OF DOOR OPEN—FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground

H111 ROCKER PANEL—REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.

H134 BOTTOM OF DOOR OPEN—REAR TO GROUND The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground

H135 BOTTOM OF DOOR CLOSED—REAR TO GROUND The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.

H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield are running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield

H127 HEADLAMP TO GROUND—CURB MASS (WT.). The dimensional measured vertically from the centerline of the lowest headlamp lens to ground.

H128 TAILLAMP TO GROUND—CURB MASS (WT.) The dimension measured vertically from the centerline of the upper bulb to ground.

**Ground Clearance Dimensions**

H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards,

H103 FRONT BUMPER TO GROUND CURB MASS (WT.). Measured in the same manner as H104.

H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.

H105 REAR BUMPER TO GROUND—CURB MASS (WT.). Measured in the same manner as H104.

H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.

H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius are the initial point of structural interference rearward of the rear tire to ground: The limiting component shall be designated.

H147 REAR BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.

H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

**Front Compartment Dimensions**

PD1 PASSENGER DISTRIBUTION—FRONT.

L31 SgRP—FRONT "X" COORDINATED.

H61 EFFECTIVE HEAD ROOM—FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP—front to the headlining plus 102 mm (4.0 in.).

H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).

L34 MAXIMUM EFFECTIVE LEG ROOM—ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP—front plus 254 mm (10.0 In.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.

H30 SgRP—FRONT TO HEEL. The dimension measured vertically from the SgRP—front to the accelerator heel point.

L17 DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat trace positions.

W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within the belt line and 254 mm (10.0 in.) above the SgRP—front.

W5 HIP ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP—front and 76 mm (3.0 in.) fore and aft the SgRP—front.

H150 UPPER BODY OPENING TO GROUND—FRONT. The dimension measured vertically from the trimmed body

H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel

L40 BACK ANGLE—FRONT. The angle measured between a vertical line through the SgRP—front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

**Rear Compartment Dimensions**

PD2 PASSENGER DISTRIBUTION—SECOND

L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP—front to the SgRP—second.

H63 EFFECTIVE HEAD ROOM—SECOND The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.)

H76 EFFECTIVE T-POINT HEAD ROOM—SECOND Measured in the same manner as H75

L51 MINIMUM EFFECTIVE LEG ROOM—SECOND The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254 mm (10.0 in.)

H31 SgRP—SECOND TO HEEL The dimension measured vertically from the SgRP—second to the two dimensional device heel point on the depressed floor covering

L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).

L3 COMPARTMENT ROOM—SECOND The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP—second within 254-406 mm (10.0-16.0 in.) above the SgRP—second.

W6 HIP ROOM—SECOND. Measured in the same manner as W5.

H51 UPPER BODY OPENING TO GROUND—SECOND The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP—second.

**Luggage Compartment Dimensions**

V1 USABLE LUGGAGE CAPACITY—Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

**Station Wagon — Third Seat Dimensions**

PD3 PASSENGER DIRECTION—THIRD.

W85 SHOULDER ROOM—THIRD. Measured in the same manner as W5.

W86 HIP ROOM— THIRD. Measured in the same manner as W5.

L86 EFFECTIVE LEG ROOM—THIRD. The dimension measured along a line from the ankle pivot center to the SgRP—third plus 254 mm (10.0 in.)

H86 EFFECTIVE HEAD ROOM—THIRD. The dimension measured along a line 8 deg. from the SgRP—third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).

H89 EFFECTIVE T-POINT HEAD ROOM—THIRD

***Station Wagon — Cargo Space Dimensions***

L200 CARGO LENGTH—OPEN—FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L201 CARGO LENGTH—OPEN—SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L202 CARGO LENGTH—CLOSED—FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L203 CARGO LENGTH—CLOSED—SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L204 CARGO LENGTH AT BELT—FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab back panel at the height of the belt, on the zero "Y" plane

L205 CARGO LENGTH AT BELT—SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.

W201 CARGO WIDTH—WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure the sheet metal.

W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.

W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box

W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.

H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.

H202 REAR OPENING HEIGHT The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.

H250 TAILGATE TO GROUND (CURB MASS WT.) The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

V2 STATION WAGON
Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = ft.^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = m^3 \text{(cubic meter)}$$

V4 HIDDEN CARGO VOLUME As specified by the manufacturer.

**Hatchback — Cargo Space Dimensions**

All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position (For electrically adjusted seats, see the manufacturer's specifications for Design "H" Point).

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane

L209 CARGO LENGTH AT FLOOR—FRONT—HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane

V3 HATCHBACK.
Measured in inches.

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = ft.^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = m^3 \text{(cubic meter)}$$

# Index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