

ORIGINAL

# MOTOR VEHICLE

## Specifications

METRIC (U.S. Customary)

Passenger Car

# 1985

|   |                                 |                                |
|---|---------------------------------|--------------------------------|
| <b>Manufacturer</b><br>Chevrolet Motor Division<br>General Motors Corporation                     | <b>Car Line</b><br><br>Cavalier |                                |
| <b>Mailing Address</b><br>Chevrolet Engineering Center<br>30003 Van Dyke<br>Warren, MI 48090-9060 | <b>Issued</b><br>July, 1984     | <b>Revised</b><br>October 1984 |

Questions concerning these specifications should be directed to the manufacturer whose address is shown above.

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The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.

# **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 available from the manufacturer.

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Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

## Car Models

| Model Description<br>FWD/RWD                           | Introduction Date | Make, Car Line,<br>Series, Body Type<br>(Mfr's Model Code) | No. of Designated<br>Seating Positions<br>(Front/Rear) | Max. Trunk/Cargo<br>Load—Kilograms<br>(Pounds) |
|--|-------------------|--|--|--|
| FRONT WHEEL<br>DRIVE                                   |                   | MODEL<br>NUMBER  | FRONT/REAR   |  |
| <u>CAVALIER</u><br>4-Door<br>Notchback Sedan           |                   | 1JC69  | 2 3  | 61.8 (136.2)                                   |
| 4-Door<br>Liftback Wagon                               |                   | 1JC35  | 2 3  | 92.7 (204.4)                                   |
| <u>CAVALIER 'CS'</u><br>4-Door<br>Notchback Sedan      |                   | 1JD69  | 2 3  | 61.8 (136.2)                                   |
| 4-Door<br>Liftback Wagon                               |                   | 1JD35  | 2 3  | 92.7 (204.4)                                   |
| <u>CAVALIER 'TYPE 10'</u><br>2-Door<br>Notchback Coupe |                   | 1JE27  | 2 3  | 60.0 (132.3)                                   |
| 2-Door<br>Hatchback Coupe                              |                   | 1JE77  | 2 3  | 72.0 (158.7)                                   |
| 2-Door<br>Convertible*                                 |                   | 1JE67  | 2 2  | 48.2 (106.3)                                   |

\* No 'Type 10' identification.

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

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

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

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

| SERIES AVAILABILITY   | ENGINE                                 |                                 |                 |                  |                            | E<br>x<br>h<br>a<br>u<br>s<br>t<br>S/D | TRANSMISSION<br>TRANSAXLE                          | Drive Ratios (:1) |      |                                  |                                 |
|---|--|---------------------------------|-----------------|------------------|----------------------------|--|--|-------------------|------|----------------------------------|---------------------------------|
|   | Displ.<br>Liters<br>(in <sup>3</sup> ) | Carb.<br>(Barrels,<br>FI, etc.) | Compr.<br>Ratio | SAE Net at RPM   |                            |  |  | Axle Ratio        |      | Overall<br>Vehicle<br>Base Drive | Overall<br>Vehicle<br>Opt Drive |
|   |  |                                 |                 | kW<br>(bhp)      | Torque<br>N-m<br>(lb. ft.) |  |  |                   |      |                                  |                                 |
| Base - All<br>States  | L-4<br>2.0 Liter<br>(121 CID)<br>LQ5   | EFI<br>*                        | 9.0:1           | 85<br>@<br>4800  | 110<br>@<br>2400           | S                                      | Man 4-Speed<br>3.53 Low<br>Base @<br>27,69 Models  | 3.32#             | 2.69 | 3.65\$                           | 2.96                            |
|   |  |                                 |                 |                  |                            |  | Man 4-Speed<br>3.53 Low<br>Base<br>35,67,77 Models | 3.65              | 2.96 | --                               | --                              |
|   |  |                                 |                 |                  |                            |  | Man 5-Speed<br>3.91 Low<br>Avail                   | 3.83              | 2.83 | --                               | --                              |
|   |  |                                 |                 |                  |                            |  | Auto '125c'<br>Avail                               | 3.18              | 3.18 | 3.43\$                           | 3.43                            |
| Base - All<br>States  | V6<br>2.8 Liter<br>(173 CID)<br>LB6    | MPI<br>%                        | 8.9:1<br>@      | 125<br>@<br>4800 | 155<br>3600                |  | Man 4-Speed<br>3.31 Low<br>Base                    | 3.65              | 3.28 | --                               | --                              |
|   |  |                                 |                 |                  |                            |  | Auto '125c'<br>Avail.                              | 3.18              | 3.18 | --                               | --                              |
| * - Electronic Fuel Injection<br>@ - ME model only (RPO ZJ6)<br>% - (2.8 Multi-Port FI)<br># - Federal only without A/C - Z49<br>\$ - Optional axle ratio |  |                                 |                 |                  |                            |  |  |                   |      |                                  |                                 |

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Car Line CAVALIER  
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METRIC (U.S. Customary)

|                                      |   |  |
|--------------------------------------|---|--|
| Engine Description/Carb. Engine Code | 2.0 Liter L-4 (121 CID)<br>Electronic Fuel Injection<br>RPO LQ5 | 2.8 Liter V6 (173 CID)<br>(2.8 Multi-Port FI)<br>RPO LB6 |
|--------------------------------------|---|--|

## ENGINE - GENERAL

|   |   |               |       |
|---|---|---------------|-------|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.) | In line<br>Front<br>Transverse, front of engine faces right side of vehicle |               |       |
| No. of cylinders  | 4   | 6             |       |
| Bore  | 89 (3.50)   | 89 (3.50)     |       |
| Stroke  | 80 (3.15)   | 76 (2.99)     |       |
| Bore spacing (c / l to c / l)   | 99 (3.90)   | 111.8 (4.40)  |       |
| Cylinder block material   | Cast Iron   |               |       |
| Cylinder block deck height  | 215.55 (8.49)   |               |       |
| Deck clearance (minimum) (above or below block)   | 0.15 (.006) below   |               |       |
| Cylinder head material  | Cast Iron   |               |       |
| Cylinder head volume (cm <sup>3</sup> )   | Not Applicable  |               |       |
| Head gasket thickness (compressed)  | 1.1 (.043)  |               |       |
| Minimum combustion chamber total volume (cm <sup>3</sup> )  | 59.988 (3.66)@  |               |       |
| Cyl. no. system (front to rear)*  | L. Bank   | 1-2-3-4       | 2-4-6 |
|   | R. Bank   | --            | 1-3-5 |
| Firing order  | 1-3-4-2   | 1-2-3-4-5-6   |       |
| Recommended fuel (leaded, unleaded, diesel)   | Unleaded  |               |       |
| Fuel antiknock index $\frac{(R + M)}{2}$  | 87  |               |       |
| Total dressed engine mass (wt) dry**  | 141.3(311.5)Auto, 149.9(330.5)Man   | 185.7 (409.4) |       |

## Engine - Pistons

|  |                             |                             |
|--|-----------------------------|-----------------------------|
| Material & mass, g (weight, oz.) - piston only | Aluminum Alloy, .467 (16.5) | Aluminum Alloy, .467 (16.5) |
|--|-----------------------------|-----------------------------|

## Engine - Camshaft

|                                   |                               |                           |
|-----------------------------------|-------------------------------|---------------------------|
| Location                          | In cylinder block, right side | In block above crankshaft |
| Material & mass kg (weight, lbs.) | Cast Iron 3.138 (6.92)        | Cast Iron/3.098 (6.83)    |
| Drive type                        | Chain / belt                  | Chain                     |
|                                   | Width / pitch                 | 19.3 (0.76)/9.53 (0.38)   |

\* 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.

@ - Piston at TDC, spark plug and valves in place, and cylinder head torqued to specifications.

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

Engine Description/Carb.  
Engine Code

|   |  |
|---|--|
| 2.0 Liter L-4 (121 CID)<br>Electronic Fuel Injection<br>RPO 105 | 2.8 Liter V6 (173 CID)<br>(2.8 Multi-Port FI)<br>RPO 1B6 |
|---|--|

## Engine - Valve System

|                                    |                            |                           |
|------------------------------------|----------------------------|---------------------------|
| Hydraulic lifters (std., opt., NA) | Standard                   |                           |
| Valves                             | Number intake / exhaust    | 4/4                       |
|                                    | Head O.D. intake / exhaust | 40.64 (1.60)/35.00 (1.38) |
|                                    |                            | 6/6                       |
|                                    |                            | 43.64 (1.72)/36.20 (1.43) |

## Engine - Connecting Rods

|                                       |                         |                          |
|---------------------------------------|-------------------------|--------------------------|
| Material & mass [kg., (weight, lbs.)] | Cast Steel, .675 (1.49) | Cast Steel, .399 (0.880) |
|---------------------------------------|-------------------------|--------------------------|

## Engine - Crankshaft

|                                       |                                 |                                |
|---------------------------------------|---------------------------------|--------------------------------|
| Material & mass [kg., (weight, lbs.)] | Nodular Cast Iron/12.746(28.10) | Nodular Cast Iron/14.170(31.2) |
| End thrust taken by bearing (no.)     | 5                               | 3                              |
| Number of main bearings               |                                 | 4                              |

## Engine - Lubrication System

|  |                        |                        |
|--|------------------------|------------------------|
| Normal oil pressure [kPa (psi) at engine rpm]  | 435-530 (63-77) @ 1200 | 345-450 (50-65) @ 1200 |
| Type of 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)              | 3.8 (4.0)              |

## Engine - Diesel Information

|   |                              |
|---|------------------------------|
| Diesel engine manufacturer                                  |                              |
| Glow plug, current drain at 0°F                             | Not                          |
| Injector nozzle   | Type                         |
|   | Opening pressure [kPa (psi)] |
| Pre-chamber design  | Applicable                   |
| Fuel injection pump   | Manufacturer                 |
|   | Type                         |
| Fuel injection pump drive (belt, chain, gear)               |                              |
| Supplementary vacuum source (type)                          |                              |
| Fuel heater (yes/no)  |                              |
| Water separator, description (std., opt.)                   |                              |
| Turbo manufacturer  |                              |
| Oil cooler-type (oil to engine coolant; oil to ambient air) |                              |
| Oil filter  |                              |

## Engine - Intake System

|                              |            |
|------------------------------|------------|
| Turbo charger - manufacturer | Not        |
| Super charger - manufacturer | Applicable |
| Charge cooler                |            |

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

Engine Description/Carb.  
 Engine Code

2.0 Liter L4 (121 CID)  
 Electronic Fuel Injection  
 RPO 1Q5

## Engine - Cooling System

|  |   |  |          |         |            |         |         |        |           |
|--|---|--|----------|---------|------------|---------|---------|--------|-----------|
| Coolant recovery system (std., opt., n.e.)     |   | Standard   |          |         |            |         |         |        |           |
| Coolant fill location (rad., bottle)           |   | Bottle, coolant recovery                           |          |         |            |         |         |        |           |
| Radiator cap relief valve pressure [kPa (psi)] |   | 103.4 (15)   |          |         |            |         |         |        |           |
| Circulation thermostat                         | Type (choke, bypass)                            | Choke  |          |         |            |         |         |        |           |
|  | Starts to open at °C (°F)                       | 91 (195°)  |          |         |            |         |         |        |           |
| Water pump                                     | Type (centrifugal, other)                       | Centrifugal, with aluminum die cast body           |          |         |            |         |         |        |           |
|  | GPM 1000 pump rpm                               | 7.3 @ 1000 pump RPM                                |          |         |            |         |         |        |           |
|  | Number of pumps                                 | One  |          |         |            |         |         |        |           |
|  | Drive (V-belt, other)                           | V-belt   |          |         |            |         |         |        |           |
| Bearing type                                   |   | Sealed, ball-roller                                |          |         |            |         |         |        |           |
| By-pass recirculation [type (inter., ext.)]    |   | Internal   |          |         |            |         |         |        |           |
| Cooling system capacity                        | With heater-L(qt.)                              | 9.0 (9.5) Auto., 9.1 (9.6) Man.                    |          |         |            |         |         |        |           |
|  | With air cond.-L(qt.)                           | 9.04 (9.56) Auto., 9.14 (9.7) Man.                 |          |         |            |         |         |        |           |
|  | Opt. equipment [specify-L(qt.)]                 | 9.18 (9.7) H.D. radiator, Auto. & Man.             |          |         |            |         |         |        |           |
| Water jackets full length of cyl. (yes, no)    |   | Yes  |          |         |            |         |         |        |           |
| Water all around cylinder (yes, no)            |   | Yes  |          |         |            |         |         |        |           |
| Radiator core                                  | Describe (type, material, no. of rows)          | Cross-flow, copper-brass, high efficiency radiator |          |         |            |         |         |        |           |
|  | Std., A/C, HD                                   | Auto Std.  | Auto A/C | Auto HD | Auto AC&HD | Man Std | Man A/C | Man HD | Man AC&HD |
|  | Width   | 430.0  | 500.0    | 430.0   | 500.0      | 430.0   | 500.0   | 430.0  | 500.0     |
|  | Height  | 387.5  | 387.5    | 387.5   | 387.5      | 303.2   | 303.2   | 387.5  | 387.5     |
|  | Thickness                                       | 25.0   | 25.0     | 40.2    | 40.2       | 25.0    | 25.0    | 40.2   | 40.2      |
|  | Fins per inch                                   | 3.5*   | 3.5*     | 3.5*    | 3.5*       | 4.5*    | 3.5*    | 3.5*   | 3.5*      |
| Fan  | Std., elec., opt.                               | Electric   |          |         |            |         |         |        |           |
|  | Number of blades & type (flex. solid, material) | Std. - 4, flex. plastic (opt. - 7, flex. plastic)  |          |         |            |         |         |        |           |
|  | Diameter & projected width                      | Std. - 291.0 (opt. - 355.6)                        |          |         |            |         |         |        |           |
|  | Ratio (fan to crankshaft rev.)                  | Not Applicable                                     |          |         |            |         |         |        |           |
|  | Fan cutout type                                 | ECM controlled                                     |          |         |            |         |         |        |           |
|  | Drive [type (direct, remote)]                   | Direct   |          |         |            |         |         |        |           |
|  | RPM at idle (elec.)                             | 2200-2400 (constant)                               |          |         |            |         |         |        |           |
|  | Motor rating (wattage) (elec.)                  | 96   |          |         |            |         |         |        |           |
|  | Motor switch (type & location) (elec.)          | Coolant switch, engine cylinder head               |          |         |            |         |         |        |           |
| Switch point (temp., pressure) (elec.)         | 110°F   |  |          |         |            |         |         |        |           |
| Fan shroud (material)                          | Plastic   |  |          |         |            |         |         |        |           |

\* - Distance between top of fins.

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Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (•) \_\_\_\_\_

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

Engine Description/Carb.  
 Engine Code

2.8 Liter L4 (173 CID)  
 (2.8 Multi-Port FI)  
 RPO LB6

## Engine - Cooling System

|  |   |  |          |           |          |
|--|---|--|----------|-----------|----------|
| Coolant recovery system (std., opt., n.a.)     |   | Standard   |          |           |          |
| Coolant fill location (rad., bottle)           |   | Bottle, coolant recovery                               |          |           |          |
| Radiator cap relief valve pressure [kPa (psi)] |   | 103.4 (15)   |          |           |          |
| Circulation thermostat                         | Type (choke, bypass)                            | Choke  |          |           |          |
|  | Starts to open at °C (°F)                       | 91 (195°)  |          |           |          |
| Water pump                                     | Type (centrifugal, other)                       | Centrifugal, with aluminum die cast body               |          |           |          |
|  | GPM 1000 pump rpm                               | --   |          |           |          |
|  | Number of pumps                                 | One  |          |           |          |
|  | Drive (V-belt, other)                           | V-belt   |          |           |          |
| Bearing type                                   |   | Sealed, ball-roller                                    |          |           |          |
| By-pass recirculation [type (inter., ext.)]    |   | Internal   |          |           |          |
| Cooling system capacity                        | With heater-L[qt.]                              | 10.04 (10.6) Auto., 10.14 (10.7) Man.                  |          |           |          |
|  | With air cond.-L[qt.]                           | 10.39 (11.0) Auto., 10.49 (11.1) Man.                  |          |           |          |
|  | Opt. equipment [specify-L[qt.]]                 | 10.55 (11.2) Auto. & Man.                              |          |           |          |
| Water jackets full length of cyl. (yes, no)    |   | Yes  |          |           |          |
| Water all around cylinder (yes, no)            |   | Yes  |          |           |          |
| Radiator core                                  | Describe (type, material, no. of rows)          | Cross-flow, copper-brass, high efficiency radiator     |          |           |          |
|  | Std., A/C, HD                                   | Auto Std.  | Auto A/C | Man. Std. | Man. A/C |
|  | Width   | 599.5  | 660.0    | 599.5     | 660.0    |
|  | Height  | 360.4  | 360.4    | 360.4     | 360.4    |
|  | Thickness                                       | 23.5   | 23.5     | 23.5      | 23.5     |
|  | Fins per inch                                   | 4.0*   | 3.5*     | 4.0*      | 4.0*     |
| Std., elec., opt.                              |   | Electric   |          |           |          |
| Fan  | Number of blades & type (flex, solid, material) | Std. - 4, flex, plastic (opt. same - 7, flex, plastic) |          |           |          |
|  | Diameter & projected width                      | Std. and opt. same - 352.0 (13.86)                     |          |           |          |
|  | Ratio (fan to crankshaft rev.)                  | Not Applicable   |          |           |          |
|  | Fan cutout type                                 | ECM controlled   |          |           |          |
|  | Drive (type (direct, remote))                   | Direct   |          |           |          |
|  | RPM at idle (elec.)                             | --   |          |           |          |
|  | Motor rating (wattage) (elec.)                  | --   |          |           |          |
|  | Motor switch (type & location) (elec.)          | --   |          |           |          |
|  | Switch point (temp., pressure) (elec.)          | --   |          |           |          |
| Fan shroud (material)                          |   | Plastic  |          |           |          |

\* - Distance between top of fins.



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Car Line CAVALIER  
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METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.0 Liter L-4 (121 CID)  
 Electronic Fuel Injection  
 RPO LQ5

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

|   |   |  |  |
|---|---|--|--|
| Induction type: carburetor, fuel injection system, etc.               |   | Fuel Injection CCC controlled            |  |
| Carburetor  | Migr.   | Rochester                                |  |
|   | Choke (type)  | None                                     |  |
|   | Idle spd. -rpm (spec. neutral or drive and propane if used) | Manual                                   | Automatically ECM controlled - no adjustment |
|   |   | Automatic                                | Same as manual                               |
| Idle A/F mix.   |   | Preset - no adjustment provided          |  |
| Fuel injection  | Point of injection (no.)                                    | Throttle body                            |  |
|   | Constant, pulse, flow                                       | Pulse                                    |  |
|   | Control (electronic, mech.)                                 | Electronic                               |  |
|   | System pressure (kPa (psi))                                 | 68.95-82.74 (10-12)                      |  |
| Intake manifold heat control (exhaust or water thermostatic or fixed) |   | Water                                    |  |
| Air cleaner type  | Standard  | Replaceable paper element single snorkel |  |
|   | Optional  | None                                     |  |
| Fuel pump   | Type (elec. or mech.)                                       | Electric                                 |  |
|   | Location (eng., tank)                                       | Tank                                     |  |
|   | Pressure range (kPa (psi))                                  | Not Applicable                           |  |

**Fuel Tank**

|                               |                          |                         |
|-------------------------------|--------------------------|-------------------------|
| Capacity (refill L (gallons)) |                          | 57.5 (13.6)             |
| Location (describe)           |                          | Underside - rear center |
| Attachment                    |                          | Underbody strap         |
| Material                      |                          | Steel                   |
| Filter pipe                   | Location & material      | R.H. rear quarter       |
|                               | Connection to tank       | Solid solder            |
| Fuel line (material)          |                          | Steel                   |
| Fuel hose (material)          |                          | Rubber                  |
| Return line (material)        |                          | Steel                   |
| Vapor line (material)         |                          | Steel                   |
| Extended range tank           | Opt., n.a.               | Not Available           |
|                               | Capacity [L (gallons)]   | "                       |
|                               | Location & material      | "                       |
|                               | Attachment               | "                       |
| Auxiliary tank                | Opt., n.a.               | "                       |
|                               | Capacity [L (gallons)]   | "                       |
|                               | Location & material      | "                       |
|                               | Attachment               | "                       |
|                               | Selector switch or valve | "                       |
| Separate fill                 |                          | "                       |

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

Engine Description/Carb.  
Engine Code

2.8 Liter V6 (173 CID)  
(2.8 Multi-Port FI)  
RPO LB6

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

|   |  |  |  |
|---|--|--|--|
| Induction type: carburetor, fuel injection system, etc.               |  | Port Fuel Injection (2.8 Multi-Port FI)  |  |
| Carburetor  | Mtgr.  | Rochester                                |  |
|   | Choke (type)   | None                                     |  |
|   | Idle spd.-rpm (spec. neutral or drive and propane if used) | Manual                                   | Automatically ECM controlled - no adjustment |
|   |  | Automatic                                | Same as manual                               |
| Idle A/F mix.   |  | Preset - no adjustment provided          |  |
| Fuel injection  | Point of injection (no.)                                   | Fuel injectors at inlet ports            |  |
|   | Constant, pulse, flow                                      | Pulse                                    |  |
|   | Control (electronic, mech.)                                | Electronic                               |  |
|   | System pressure [kPa (psi)]                                | Not Available                            |  |
| Intake manifold heat control (exhaust or water thermostatic or fixed) |  | Water                                    |  |
| Air cleaner type  | Standard   | Replaceable paper element single snorkel |  |
|   | Optional   | None                                     |  |
| Fuel pump   | Type (elec. or mech.)                                      | Electric                                 |  |
|   | Location (eng., tank)                                      | Tank                                     |  |
|   | Pressure range [kPa (psi)]                                 | Not Applicable                           |  |

## Fuel Tank

|                               |                          |                         |
|-------------------------------|--------------------------|-------------------------|
| Capacity (refill L (gallons)) |                          | 51.5 (13.6)             |
| Location (describe)           |                          | Underside - rear center |
| Attachment                    |                          | Underbody strap         |
| Material                      |                          | Steel                   |
| Filter pipe                   | Location & material      | R.H. rear quarter       |
|                               | Construction to tank     | Solid solder            |
| Fuel line (material)          |                          | Steel                   |
| Fuel hose (material)          |                          | Rubber                  |
| Return line (material)        |                          | Steel                   |
| Vapor line (material)         |                          | Steel                   |
| Extended range tank           | Opt., n.a.               | Not Available           |
|                               | Capacity [L (gallons)]   | "                       |
|                               | Location & material      | "                       |
|                               | Attachment               | "                       |
| Auxiliary tank                | Opt., n.a.               | "                       |
|                               | Capacity [L (gallons)]   | "                       |
|                               | Location & material      | "                       |
|                               | Attachment               | "                       |
|                               | Selector switch or valve | "                       |
| Separate fill                 |                          | "                       |

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

|   |  |
|---|--|
| 2.0 Liter L-4 (121 CID)<br>Electronic Fuel Injection<br>RPO LQ5 | 2.8 Liter V6 (173 CID)<br>2.8 Multi-Port FI<br>RPO LB6 |
|---|--|

## Vehicle Emission Control

|                               |  |  |                                  |               |
|-------------------------------|--|--|----------------------------------|---------------|
| Exhaust Emission Control      | Type (air injection, engine modifications, other)        |  | CCC control with pulse air       |               |
|                               | Air Injection  | Pump or pulse  | None                             | None          |
|                               |  | Driven by  | Exhaust pulses                   | None          |
|                               |  | Air distribution (head, manifold, etc.)                          | Separate manifold                | None          |
|                               |  | Point of entry   | Exhaust manifold                 | None          |
|                               | Exhaust Gas Recirculation                                | Type (controlled flow, open orifice, other)                      | Controlled flow                  | Not available |
|                               |  | Exhaust source   | Exhaust manifold                 | Not available |
|                               |  | Point of exhaust injection (spacer, carburetor, manifold, other) | Inlet manifold                   | Not available |
|                               | Catalytic Converter                                      | Type   | Single bed, oxidizing & reducing |               |
|                               |  | Number of  | One                              |               |
| Location(s)                   |  | Mounted to center underbody                                      |                                  |               |
| Volume [L (in <sup>3</sup> )] |  | 2.78 (170)   |                                  |               |
| Substrate type                |  | Monolith   |                                  |               |
| 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)                   |  | Intake manifold                  |               |
|                               | Air inlet (breather cap, other)                          |  | Carburetor air cleaner           |               |
| Evaporative Emission Control  | Vapor vented to (crankcase, canister, other)             | Fuel tank  | Canister                         |               |
|                               |  | Carburetor   | --                               |               |
|                               | Vapor storage provision                                  |  | Canister                         |               |
| Electronic system             | Closed loop (yes/no)                                     |  | Yes                              |               |
|                               | Open loop (yes/no)                                       |  | No                               |               |

## Engine - Exhaust System

|  |                             |  |                          |
|--|-----------------------------|--|--------------------------|
| Type (single, single with cross-over, dual, other)                   |                             | Single (with dual tailpipes 2-door cpe only) |                          |
| Muffler no. & type (reverse flow, straight thru, separate resonator) |                             | One, reverse flow                            |                          |
| Resonator no. & type   |                             | None   |                          |
| Exhaust pipe   | Branch o.d., wall thickness | --   |                          |
|  | Main o.d., wall thickness   | 44.5 x 0.94 (1.75 x .037)*                   | 50.8 x 0.94 (2.0 x .037) |
|  | Material                    | *  |                          |
| Intermediate pipe  | o.d. & wall thickness       | 50.8 x 1.09 (2.0 x .043)                     |                          |
|  | Material                    | Aluminum coated steel                        |                          |
| Tail pipe  | o.d. & wall thickness       | 57.15 x 1.09 (2.25 x .043)@                  | 50.8 x 1.09 (2.0 x .043) |
|  | Material                    | Aluminum coated steel                        |                          |

\* - Laminated tubing - steel inner, stainless steel outer.  
 @ - 50.8 x 1.09 (2.0 x .043) for wagon.

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
Model Year 1985 Issued 7-84 Revised (e)

## METRIC (U.S. Customary)

Engine Description/Carb.  
Engine Code

2.0 Liter L4 (121 CID)  
Electronic Fuel Injection  
RPO LQ5

### Transmissions/Transaxle

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

### Manual Transmission/Transaxle

|                                     |                      |   |   |  |
|-------------------------------------|----------------------|---|---|--|
| Number of forward speeds            | 4                    | 5   |   |  |
| Transmission ratios                 | In first             | 3.53  | 3.73  |  |
|                                     | In second            | 1.95  | 2.15  |  |
|                                     | In third             | 1.24  | 1.33  |  |
|                                     | In fourth            | .81   | .92   |  |
|                                     | In fifth             | --  | .74   |  |
|                                     | In overdrive         | --  | --  |  |
|                                     | In reverse           | 3.42  | 3.50  |  |
| Synchronous meshing (specify gears) | All forward gears    |   |   |  |
| Shift lever location                | Floor                |   |   |  |
| Lubricant                           | Capacity [L (pt.)]   | 4-Speed 2.8L (5.9 pts.), 5-Speed 2.55L (5.36 pts.)        |   |  |
|                                     | Type recommended     | 4-Speed & 5-Speed SAE 5W-30 Engine Oil SF, SF/CC or SF/CD |   |  |
|                                     | SAE viscosity number | Summer  | 4-Speed & 5-Speed SAE 5W-30 Engine Oil SF, SF/CC or SF/CD |  |
|                                     |                      | Winter  | 4-Speed & 5-Speed SAE 5W-30 Engine Oil SF, SF/CC or SF/CD |  |
|                                     | Extreme cold         | 4-Speed & 5-Speed SAE 5W-30 Engine Oil SF, SF/CC or SF/CD |   |  |

### Clutch (Manual Transmission)

| Make, type, engagement (describe) | Manual 4-Speed<br>Borg & Beck, dry disc               | Manual 5-Speed<br>Isuzu, dry disc |                             |
|-----------------------------------|---|-----------------------------------|-----------------------------|
| Type pressure plate springs       | Diaphragm   | Diaphragm                         |                             |
| Total spring load [N (lb.)]       | 5516 (1240)   | 4609 (1036)                       |                             |
| No. of clutch driven discs        | One   | One                               |                             |
| Clutch facing                     | Material  | Molded type asbestos              | Not Available               |
|                                   | Manufacturer  | Borg & Beck                       | Isuzu                       |
|                                   | Part number   | 14079600                          | 94253238                    |
|                                   | Rivets/plate  | 36                                | 16                          |
|                                   | Rivet size  | .143 x .213                       | Not Available               |
|                                   | Outside & inside dia.                                 | 203.2 x 152.4 (8.0 x 6.0)         | 215.0 x 154.0 (8.46 x 6.06) |
|                                   | Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )] | 142 (22.0)                        | 176.6 (27.37)               |
|                                   | Thickness   | 6.86-7.37 (.270-.290)             | 7.8 (.307)                  |
| Engagement cushion method         | Driven plate wave<br>spoke springs                    | Not Available                     |                             |
| Release bearing                   | Ball thrust -<br>prepacked and sealed                 | Not Available                     |                             |
| Torsional damping                 | Coil springs and<br>metal-to-metal friction           | Not Available                     |                             |

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (e)

METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

2.8 Liter V6 (173 CID)  
 (2.8 Multi-Port FI)  
 RPO LB6

## Transmissions/Transaxle

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

## Manual Transmission/Transaxle

|                                     |                      |   |   |
|-------------------------------------|----------------------|---|---|
| Number of forward speeds            |                      | 4                                       |   |
| Transmission ratios                 | In first             | 3.31                                    |   |
|                                     | In second            | 1.95                                    |   |
|                                     | In third             | 1.24                                    |   |
|                                     | In fourth            | 0.90                                    |   |
|                                     | In fifth             | --                                      |   |
|                                     | In overdrive         | --                                      |   |
|                                     | In reverse           | 3.42                                    |   |
| Synchronous meshing (specify gears) |                      | All forward gears                       |   |
| Shift lever location                |                      | Floor                                   |   |
| Lubricant                           | Capacity (L (pt.))   | 2.8L (5.9 pts.)                         |   |
|                                     | Type recommended     | SAE 5W-30 Engine Oil SE, SE/CC or SE/CD |   |
|                                     | SAE viscosity number | Summer                                  | SAE 5W-30 Engine Oil SE, SE/CC or SE/CD |
|                                     |                      | Winter                                  | "                                       |
|                                     | Extreme cold         | "                                       |   |

## Clutch (Manual Transmission)

|                                   |   |  |
|-----------------------------------|---|--|
| Make, type, engagement (describe) |   | Borg & Beck, dry single plate          |
| Type pressure plate springs       |   | Diaphragm                              |
| Total spring load [N (lb.)]       |   | 6227 (1400)                            |
| No. of clutch driven discs        |   | One                                    |
| Clutch facing                     | Material  | Woven molded asbestos                  |
|                                   | Manufacturer  | Borg & Beck                            |
|                                   | Part number   | 14085576                               |
|                                   | Rivets plate  | 32                                     |
|                                   | Rivet size  | 3.6 x 5.4 (.143 x .213)                |
|                                   | Outside & inside dia.                                 | 232 x 155 (9.12 x 6.12)                |
|                                   | Total eff. area [cm <sup>2</sup> (in. <sup>2</sup> )] | 232 (35.9)                             |
|                                   | Thickness   | 7.49-8.00 (.295-.315)                  |
| Engagement cushion method         |   | Driven plate wave spoke springs        |
| Release bearing                   | Type & method of lubrication                          | Ball thrust - prepacked and sealed     |
| Torsional damping                 | Method: springs, friction material                    | Coil springs & metal-to-metal friction |

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

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

|   |   |  |
|---|---|--|
| <b>Engine Description/Carb. Engine Code</b> | 2.0 Liter L-4 (121 CID)<br>Electronic Fuel Injection<br>RPO LQ5 | 2.8 Liter V6 (173 CID)<br>2.8 Multi-Port FI<br>RPO LB6 |
|---|---|--|

## Automatic Transmission/Transaxle

|   |                                      |                                      |
|---|--------------------------------------|--------------------------------------|
| <b>Trade name</b>   |                                      | 3-Speed Automatic                    |
| <b>Type and special features (describe)</b>                         |                                      | 3-Speed with Torque Converter Clutch |
| <b>Selector</b>   | <b>Location</b>                      | Floor                                |
|   | <b>Ltr./No. designation</b>          | P-R-N-D-2-1                          |
| <b>Gear ratios</b>  | <b>R</b>                             | 2.07                                 |
|   | <b>D</b>                             | 2.84-1.60-1.00                       |
|   | <b>L<sub>3</sub></b>                 | --                                   |
|   | <b>L<sub>2</sub></b>                 | 2.84-1.60                            |
|   | <b>L<sub>1</sub></b>                 | 2.84                                 |
| <b>Max. upshift speed - drive range [km/h (mph)]</b>                |                                      | Not Available                        |
| <b>Max. kickdown speed - drive range [km/h (mph)]</b>               |                                      | Not Available                        |
| <b>Min. overdrive speed [km/h (mph)]</b>                            |                                      | Not Available                        |
| <b>Torque converter</b>   | <b>Number of elements</b>            | 3                                    |
|   | <b>Max. ratio at stall</b>           | Not Available                        |
|   | <b>Type of cooling (air, liquid)</b> | Liquid                               |
|   | <b>Nominal diameter</b>              | 245 (9.65)                           |
| <b>Lubricant</b>  | <b>Capacity (refill L (pt.))</b>     | 5.5l                                 |
|   | <b>Type Recommended</b>              | Dexron II                            |
| <b>Oil cooler (std., opt., NA, internal, external, air, liquid)</b> |                                      | Standard, integral part of radiator  |

## Axle or Front Wheel Drive Unit

|   |                             |   |                   |
|---|-----------------------------|---|-------------------|
| <b>Type (front, rear)</b>                                     |                             | Front   |                   |
| <b>Description</b>  |                             | Front differential with helical gears and tapered roller bearings |                   |
| <b>Limited slip differential (type)</b>                       |                             | Not Available   |                   |
| <b>Drive pinion offset</b>                                    |                             | Not Available   |                   |
| <b>Drive pinion (type)</b>                                    |                             | Not Available   |                   |
| <b>No. of differential pinions</b>                            |                             | 2   |                   |
| <b>Pinion / differential adjustment (shim, other)</b>         |                             | None  |                   |
| <b>Pinion / differential bearing adjustment (shim, other)</b> |                             | Shim  |                   |
| <b>Driving wheel bearing (type)</b>                           |                             | Sealed ball bearings  |                   |
| <b>Lubricant</b>  | <b>Capacity [L (pt.)]</b>   | Part of auto. trans. lub.   |                   |
|   | <b>Type recommended</b>     | Transmission lub.   |                   |
|   | <b>SAE viscosity number</b> | <b>Summer</b>   | Transmission lub. |
|   |                             | <b>Winter</b>   | Transmission lub. |
|   |                             | <b>Extreme cold</b>   | Transmission lub. |

## Axle or Transaxle Ratio and Tool Combinations (See 'Power Teams' for axle ratio usage.)

|   |                                     |       |      |      |      |      |
|---|-------------------------------------|-------|------|------|------|------|
| <b>Axle ratio (or overall top gear ratio)</b> |                                     | 3.18  | 3.32 | 3.43 | 3.65 | 3.83 |
| <b>No. of teeth</b>                           | <b>Pinion or drive gr.</b>          | 33    | --   | 33   | --   | --   |
|   | <b>Ring gear or gear driven gr.</b> | 37    | --   | 37   | --   | --   |
| <b>Ring gear o.d. or driven gr. o.d.</b>      |                                     | 195.2 |      |      |      |      |
| <b>Transaxle</b>                              | <b>Transfer gear ratio</b>          |       | 0.81 |      |      | 0.74 |
|   | <b>Final drive ratio</b>            |       | 2.69 |      |      | 2.83 |

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Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description/Carb.  
 Engine Code

|   |  |
|---|--|
| 2.0 Liter L-4 (121 CID)<br>Electronic Fuel Injection<br>RPO LQ5 | 2.8 Liter V6 (173 CID)<br>2.8 Multi-Port FI<br>RPO LB6 |
|---|--|

## Axle Shafts - Front Wheel Drive

|   |                              |  |  |
|---|------------------------------|--|--|
| Number used   |                              | Two  |  |
| Type (straight, solid bar, tubular, etc.)           |                              | Left   | Straight solid bar                                     |
|   |                              | Right  | Straight solid bar (a)                                 |
| Outer diam. x length* x wall thickness              | Manual transmission          | Left   | 23.91 x 355.40 (Base), 27.05 x 359.70 (Heavy Duty) (b) |
|   |                              | Right  | 23.91 x 698.40 (Base), 27.05 x 714.70 (Heavy Duty) (b) |
|   | Automatic transmission       | Left   | 23.91 x 346.40   |
|   |                              | Right  | 23.91 x 398.40   |
|   | Optional transmission        | Left   | None   |
|   |                              | Right  | None   |
| Slip yoke   | Type                         |  | None   |
|   | Number of teeth              |  | None   |
|   | Spine o.d.                   |  | None   |
| Universal joints                                    | Make and mfg. no.            | Inner  | Saginaw  |
|   |                              | Outer  | Saginaw  |
|   | Number used                  |  | Two on each drive shaft                                |
|   | Type, size, plunge           | Inner  | TRI-POT (c)  |
|   |                              | Outer  | Rzeppa - fixed   |
|   | Attach (u-bolt, clamp, etc.) |  | Splined  |
|   | Bearing                      | Type (plain, anti-friction)                        | Anti-friction  |
| Lubrication (fitting, prepack)                      |                              | Prepacked  |  |
| Drive taken through (torque tube, arms or springs)  |                              | Wishbone lower control arm; upper MacPherson strut |  |
| Torque taken through (torque tube, arms or springs) |                              | Engine mounting system                             |  |

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

- (a) - Tubular R.H. shaft with manual transmission (46.5 mm x 698.40 mm)
- (b) - Shaft Capacity = Base - 2300 N.m.  
                                   Heavy Duty - 2700 N.m.
- (c) - Plunge = Manual, Left (Base) - 24.84  
                                   Manual, Right (Base) - 33.29  
                                   Manual, Left (Heavy Duty) - 28.78  
                                   Manual, Right (Heavy Duty) - 25.23  
                                   Auto, Left - 24.51  
                                   Auto, Right - 23.36

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

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

Body Type And/Or  
Engine Displacement

|                             |                             |                               |                                    |                                   |
|-----------------------------|-----------------------------|-------------------------------|------------------------------------|-----------------------------------|
| NOTCHBACK<br>COUPE<br>1JE27 | HATCHBACK<br>COUPE<br>1JE77 | CONVERTIBLE<br>COUPE<br>1JE67 | NOTCHBACK<br>SEDANS<br>1JC & 1JD69 | LIFTGATE<br>WAGONS<br>1JC & 1JD35 |
|-----------------------------|-----------------------------|-------------------------------|------------------------------------|-----------------------------------|

## Suspension - General

|                                    |                         |  |
|------------------------------------|-------------------------|--|
| Car leveling                       | Std./opt. n.s.          | Not Available  |
|                                    | Type (air, hyd., etc.)  | "  |
|                                    | Manual/auto. controlled | "  |
| Provision for brake dip control    |                         | Front suspension geometry                                |
| Provision for accel. squat control |                         | Rear suspension geometry                                 |
| Provisions for car jacking         |                         | Body pickup at rocker panels                             |
| Shock absorber (front & rear)      | Type                    | MacPherson strut - front; double acting hydraulic - rear |
|                                    | Make                    | Delco  |
|                                    | Piston diameter         | 32.0 (1.26) Front, 25.0 (.98) Rear                       |
|                                    | Rod diameter            | 25.0 (.98) Front, 13.5 (.53) Rear                        |

## Suspension - Front

|                                |   |  |
|--------------------------------|---|--|
| Type and description           |   | MacPherson with coil springs, stamped lower control arms and nodular iron steering knuckles. |
| Drive and torque taken through |   |  |
| Travel                         | Full jounce   | 89.0 mm (3.5 in)   |
|                                | Full rebound  | 84.0 mm (3.3 in)   |
| Spring                         | Type (coil, leaf, other) & material                 | Coil, steel  |
|                                | Insulators (type & material)                        | --   |
|                                | Size (coil design height & i.d., bar length x dia.) | 406.6 (16.0) x 139.0 (5.47) x 2932 (115.4) x 12.9 (.5)                                       |
|                                | Spring rate [N/mm (lb./in.)]                        | 16.0 (91.0) Base, 24.0 (137.0) F40 & F41, 20.0 (114.3) LB6                                   |
|                                | Rate at wheel [N/mm (lb./in.)]                      | 17.2 (98.0) Base, 19.9 (114.0) F40 & F41, 16.6 (94.9) LB6                                    |
| Stabilizer                     | Type (link, linkless, frameless)                    | Link   |
|                                | Material & bar diameter                             | Steel, 24.0 (.94), 30.0 (1.18) w/215 Tires   28.0 (1.1)                                      |

## Suspension - Rear

|                                |   |  |                |
|--------------------------------|---|--|----------------|
| Type and description           |   | Trailing arm with stamped control arms and open section transverse beam. |                |
| Drive and torque taken through |   | Section transverse beam  |                |
| Travel                         | Full jounce   | 111.0 (4.37)   |                |
|                                | Full rebound  | 91.0 (3.58)  |                |
| Spring                         | Type (coil, leaf, other) & material                                 | Progressive rate coil, HR steel  |                |
|                                | Size (length x width, coil design height & i.d., bar length & dia.) | 290 (11.42) x 105 (4.13) x 2626 (103.4) x 13.6 (.54)                     |                |
|                                | Spring rate [N/mm (lb./in.)]  | 23(131)Base, F40&F41-28(160)Sedans&Coupes 31.0(177)Base Wag              |                |
|                                | Rate at wheel [N/mm (lb./in.)]                                      | 14.6(83)Base, F40&F41-16.7(95)Sedans&Cpes 17.9(102)Base Wag              |                |
|                                | Insulators (type & material)  | Rubber - top & bottom  |                |
|                                | # leaf  | No. of leaves  | Not Applicable |
|                                |   | Shackle (comp. or tens.)   | "              |
| Stabilizer                     | Type (link, linkless, frameless)                                    | Linkless function performance by axle beam                               |                |
|                                | Material & bar diameter   | Steel, 13mm (.51) w/V6, 15mm (.59) w/F41-w/o PC1.*                       |                |
| Track bar (type)               |   | Transverse beam design; 30 (1.18)  |                |

\* 21mm (.82) w/F41 & PC1.



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METRIC (U.S. Customary)

Car Line CAVALIER  
Model Year 1985 Issued 7-84 Revised (e)

Body Type And/Or  
Engine Displacement

| NOTCHBACK<br>COUPE<br>1JE27 | HATCHBACK<br>COUPE<br>1JE77 | NOTCHBACK<br>SEDANS<br>1JC & 1JD69 | CONVERTIBLE<br>COUPE<br>1JE67 | LIFTGATE<br>WAGONS<br>1JC & 1JD35 |
|-----------------------------|-----------------------------|------------------------------------|-------------------------------|-----------------------------------|
|-----------------------------|-----------------------------|------------------------------------|-------------------------------|-----------------------------------|

## Brakes - Service

|  |   |   |                                      |   |  |
|--|---|---|--------------------------------------|---|--|
| Description  |   | Single caliper disc front, duo-servo drum rear        |                                      |   |  |
| Brake type<br>(std., opt., n.a.)                                     | Front (disc or drum)                      | Disc  |                                      |   |  |
|  | Rear (disc or drum)                       | Drum  |                                      |   |  |
| Self-adjusting (std., opt., n.a.)                                    |   | Standard  |                                      |   |  |
| Special<br>valving   | Type (proportion, delay, metering, other) | Proportioning. Diagonal split circuit.                |                                      |   |  |
|  |   | Standard  |                                      |   |  |
| Power brake (std., opt., n.a.)                                       |   | Single or tandem vacuum depending on mass             |                                      |   |  |
| Booster type (remots, integral, vac., hyd., etc.)                    |   | Inline (intake manifold)                              |                                      |   |  |
| Vacuum source (inline, pump, etc.)                                   |   | None  |                                      |   |  |
| Vacuum reservoir (volume in. <sup>3</sup> )                          |   | None  |                                      |   |  |
| Vacuum pump-type (elec. gear driven, belt driven, if other so state) |   | "   |                                      |   |  |
| Anti-skid device type (std., opt., n.a.) (F/R)                       |   | Not Available   |                                      |   |  |
| Effective area [cm <sup>2</sup> (in. <sup>2</sup> )]*                |   | 309 (47.9)  |                                      |   |  |
| Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]**(F/R)       |   | 381 (59.1)  |                                      |   |  |
| Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]**(F/R)              |   | 1624 (251.8)  |                                      |   |  |
| Rotor  | Outerworking diameter                     | F/R   | 247 (9.72) / --                      |   |  |
|  | Inner working diameter                    | F/R   | -- / --                              |   |  |
|  | Thickness                                 | F/R   | 22.4 (0.88) / --                     |   |  |
|  | Material & type (vented/solid)            | F/R   | Cast iron, vented / --               |   |  |
| Drum   | Diameter & width                          | F/R   | -- / 200 x 45 (7.87 x 1.77)          |   |  |
|  | Type and material                         | F/R   | -- / Cast iron, non-finned           |   |  |
| Wheel cylinder bore  |   | 57 (2.24) / 16 (.63) All exc. wagon, 17.5 (.69) wagon |                                      |   |  |
| Master cylinder  | Bore/stroke                               | F/R   | 22 (.866) / 31.8 (1.25)              |   |  |
| Pedal arc ratio  |   | 3.9:1   |                                      |   |  |
| Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]               |   | Not Available   |                                      |   |  |
| Lining clearance   |   | (F/R)   | Self adjusting                       |   |  |
| Brake<br>lining  | Front<br>wheel                            | Bonded or riveted (rivets/seg.)                       |                                      | Riveted (6). In-board, outboard-integrally molded |  |
|  |   | Rivet size  |                                      | 7.92 x 5.33 (0.312 x 0.21)                        |  |
|  |   | Manufacturer  |                                      | Delco Moraine                                     |  |
|  |   | Lining code   |                                      | 122FE   |  |
|  |   | Material  |                                      | Semi-metallic                                     |  |
|  |   | ****  | Primary or out-board                 | 116.7 x 54.7 x 10.92 (4.594 x 2.157 x .430)       |  |
|  | Size                                      | Secondary or in-board                                 | 125 x 59 x 10.2 (4.92 x 2.32 x 0.4)  |   |  |
|  | Shoe thickness (no lining)                |   | 4.72 IB, 3.14 OB (.186 IB, 0.123 OB) |   |  |
|  | Rear<br>wheel                             | Bonded or riveted (rivets/seg.)                       |                                      | Riveted. (8)                                      |  |
|  |   | Manufacturer  |                                      | Inland Division                                   |  |
|  |   | Lining code   |                                      | 235 FE  |  |
|  |   | Material  |                                      | Organic   |  |
|  |   | ****  | Primary or out-board                 | 167.7 x 43.9 x 3.8 (6.60 x 1.73 x .15)            |  |
|  |   | Size  | Secondary or in-board                | 167.7 x 43.9 x 4.8 (6.60 x 1.73 x .19)            |  |
| Shoe thickness (no lining)   |   | 2.75 (.11)  |                                      |   |  |

\*Excludes rivet holes, grooves, chamfers, etc.

\*\*Includes rivet holes, grooves, chamfers, etc.

\*\*\*Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)  
(Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

\*\*\*\*Size for drum brakes includes length x width x thickness.

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (●) \_\_\_\_\_

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

|   |                          |                          |                            |                                 |                                |
|---|--------------------------|--------------------------|----------------------------|---------------------------------|--------------------------------|
| Body Type And/Or<br>Engine Displacement | Notchback Coupe<br>1JE27 | Hatchback Coupe<br>1JE77 | Convertible Coupe<br>1JE67 | Notchback Sedans<br>1JC & 1JD69 | Liftback Wagons<br>1JC 7 1JD35 |
|---|--------------------------|--------------------------|----------------------------|---------------------------------|--------------------------------|

| Tires And Wheels (Standard)  |   | Base   | Type 10 & Z24       |  |
|------------------------------|---|--|---------------------|--|
| Tires                        | Size (load range, ply)                                      | P175/80R-13 BW   | P215/60R14 BW       |  |
|                              | Type (bias, radial, etc.)                                   | Glass Belted Radial                                      | Steel Belted Radial |  |
|                              | Inflation pressure (cold) for recommended max. vehicle load | Front [kPa (psi)]  | 240 (35)            |  |
|                              |   | Rear [kPa (psi)]   | 240 (35)            |  |
| Re. rate—at 70 km/h (45 mph) |   | 540  |                     |  |
| Wheels                       | Type & material   | Steel  |                     |  |
|                              | Rim (size & flange type)                                    | 13x5.5   | 14 x 6.5            |  |
|                              | Wheel offset  | 49.0 (1.93)  |                     |  |
|                              | Attachment  | Type (bolt or stud)                                      | Stud                |  |
|                              |   | Circle diameter  | 100.0 (3.94)        |  |
| Number & size                |   | 5-M12 x 1.5 - 6H, THD. (metric)                          |                     |  |
| Spare                        | Tire and wheel (same, if other describe)                    | T115/70D-14, wheel dia. 14-width x 4. Inflation 415 (60) |                     |  |
|                              | Storage position & location (describe)                      | Flat under rear load floor                               |                     |  |

| Tires And Wheels (Optional)  |     |  |                     |
|--|-----|--|---------------------|
| Size (load range, ply)   |     | P175/80R-13 W.S.   | P215/60R14 WL       |
| Type (bias, radial, etc.)  |     | Glass Belted Radial  | Steel Belted Radial |
| Wheel (type & material)  |     | Steel  |                     |
| Rim (size, flange type and offset)   |     | 13 x 5.5   | 14 x 6.5            |
| Size (load range, ply)   | (+) | P195/70R-13 BW, WS, WL   |                     |
| Type (bias, radial, etc.)  |     | Steel Belted Radial  |                     |
| Wheel (type & material)  |     | Steel  |                     |
| Rim (size, flange type and offset)   |     | 13 x 5.5   |                     |
| Size (load range, ply)   |     | --   |                     |
| Type (bias, radial, etc.)  |     | --   |                     |
| Wheel (type & material)  |     | Aluminum   |                     |
| Rim (size, flange type and offset)   |     | 13 x 5.5   |                     |
| Size (load range, ply)   |     |  |                     |
| Type (bias, radial, etc.)  |     |  |                     |
| Wheel (type & material)  |     |  |                     |
| Rim (size, flange type and offset)   |     |  |                     |
| Spare tire and wheel<br>(if configuration is different than road tire or wheel, describe optional spare tire and or wheel location & storage position) |     | T125/70D-14, wheel dia. 14-width x 4. inflates 415 (60)<br>Flat under rear load floor. |                     |

(+) Required with sport suspension, RPO F41.

| Brakes - Parking                |  |                                |
|---------------------------------|--|--------------------------------|
| Type of control                 |  | Grip handle                    |
| Location of control             |  | In console between front seats |
| Operates on                     |  | Rear service brakes            |
| If separate from service brakes | Type (internal or external)              | --                             |
|                                 | Drum diameter                            | --                             |
|                                 | Lining size (length x width x thickness) | --                             |

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Car Line CAVALIER  
Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

METRIC (U.S. Customary)

Body Type And/Or  
Engine Displacement

|                             |                             |                               |                                    |                                   |
|-----------------------------|-----------------------------|-------------------------------|------------------------------------|-----------------------------------|
| NOTCHBACK<br>COUPE<br>1JE27 | HATCHBACK<br>COUPE<br>1JE77 | CONVERTIBLE<br>COUPE<br>1JE67 | NOTCHBACK<br>SEDANS<br>1JC & 1JD69 | LIFTGATE<br>WAGONS<br>1JC & 1JD35 |
|-----------------------------|-----------------------------|-------------------------------|------------------------------------|-----------------------------------|

## Steering

|  |   |  |  |
|--|---|--|--|
| Manual (std., opt., n.a.)                      |   | Standard                                       |  |
| Power (std., opt., n.a.)                       |   | Optional on L4 engine, required with V6 engine |  |
| Adjustable steering wheel (tilt, swing, other) | Type and description                      | Tilt   |  |
|  | (Std., opt., n.a.)                        | Optional                                       |  |
| Wheel diameter                                 | Manual                                    | 368 mm (14.5 in.)                              | @  |
|  | Power                                     | 368 mm (14.5 in.)                              | @  |
| Turning diameter m (ft.)                       | Outside front                             | Wall to wall (l. & r.)                         | --   |
|  |   | Curb to curb (l. & r.)                         | 10.59 m (34.74 ft.)                                |
|  | Inside rear                               | Wall to wall (l. & r.)                         | Not Available                                      |
|  |   | Curb to curb (l. & r.)                         | "  |
| Scrub Radius                                   |   |  |  |
| Manual   | Gear                                      | Type   | Rack and pinion                                    |
|  |   | Make   | Saginaw Steering Gear                              |
|  | Ratios                                    | Gear   | Not Available                                      |
|  |   | Overall  | 22.0:1   |
| No. wheel turns (stop to stop)                 |   | 4.04   |  |
| Power  | Type (coaxial, linkage, etc.)             |  | Rack and pinion w/end take-off tie rods - integral |
|  | Make                                      |  | Saginaw Steering Gear                              |
|  | Gear                                      | Type   | Rack and pinion w/end take-off tie rods - integral |
|  |   | Ratios   | Gear   |
|  | Overall                                   |  | 16.0:1   |
| Pump (drive)                                   |   | Belt off crankshaft pulley                     |  |
| No. wheel turns (stop to stop)                 |   | 2.88   |  |
| Linkage  | Type                                      |  | Center take-off tie rods, rack and pinion          |
|  | Location (front or rear of wheels, other) |  | Rear   |
|  | Drag links (trans. or longit.)            |  | None   |
|  | Tie rods (one or two)                     |  | Two  |
| Steering axis                                  | Inclination at camber (deg.)              |  | 13.5°  |
|  | Bearings (type)                           | Upper  | Ball bearing                                       |
|  |   | Lower  | Ball joint   |
|  |   | Thrust   | Not Available                                      |
| Steering spindle & joint type                  |   | "  |  |
| Wheel spindle                                  | Diameter                                  | Inner bearing                                  | "  |
|  |   | Outer bearing                                  | "  |
|  | Thread (size)                             |  | M20 x 1.5  |
|  | Bearing (type)                            |  | Integral double row ball, permanently lubricated   |

@- 1JC00 models, oval wheel  
Vert. 362mm (14.25 in)  
Horiz. 374mm (14.7 in)  
1JD00 models, 363.5mm (14.3 in)

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METRIC (U.S. Customary)

Body Type And/Or  
Engine Displacement

|                             |                             |                               |                                    |                                   |
|-----------------------------|-----------------------------|-------------------------------|------------------------------------|-----------------------------------|
| NOTCHBACK<br>COUPE<br>1JE27 | HATCHBACK<br>COUPE<br>1JE77 | CONVERTIBLE<br>COUPE<br>1JE67 | NOTCHBACK<br>SEDANS<br>1JC & 1JD69 | LIFTGATE<br>WAGONS<br>1JC & 1JD35 |
|-----------------------------|-----------------------------|-------------------------------|------------------------------------|-----------------------------------|

## Wheel Alignment

|   |                                  |                                 |                       |
|---|----------------------------------|---------------------------------|-----------------------|
| Front<br>wheel at<br>curb mass<br>(wt.) | Service<br>checking              | Caster (deg.)                   | Not adjustable        |
|   |                                  | Camber (deg.)                   | + .85° +/- .65°       |
|   |                                  | Toe-in (outside track-mm (in.)) | .13° toe-out +/- .10° |
|   | Service<br>reset*                | Caster                          | Not adjustable        |
|   |                                  | Camber                          | + .85° +/- .65°       |
|   |                                  | Toe-in                          | .13° toe-out +/- .10° |
|   | Periodic<br>M.V. in-<br>spection | Caster                          | Not adjustable        |
|   |                                  | Camber                          | --                    |
|   |                                  | Toe-in                          | --                    |
| Rear<br>wheel at<br>curb mass<br>(wt.)  | Service<br>checking              | Camber (deg.)                   | Not Applicable        |
|   |                                  | Toe-in (outside track-mm (in.)) | "                     |
|   | Service<br>reset*                | Camber                          | "                     |
|   |                                  | Toe-in                          | "                     |
|   | Periodic<br>M.V. in-<br>spection | Camber                          | "                     |
|   |                                  | Toe-in                          | "                     |

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

## Electrical - Instruments and Equipment

|  |                                  |   |
|--|----------------------------------|---|
| Speed-<br>ometer                                 | Type                             | Circular dial with pointer  |
|  | Trip odometer (std., opt., n.a.) | Optional  |
| EGR maintenance indicator                        |                                  | Not Available   |
| Charge<br>indicator                              | Type                             | Tell-Tale Warning Light   |
|  | Warning device                   | Not Available   |
| Temperature<br>indicator                         | Type                             | Tell-Tale Warning Light   |
|  | Warning device                   | Not Available   |
| Oil pressure<br>indicator                        | Type                             | Tell-Tale Warning Light   |
|  | Warning device                   | Not Available   |
| Fuel<br>indicator                                | Type                             | Electric gauge with pointer   |
|  | Warning device                   | Not Available   |
| Wind-<br>shield<br>wiper                         | Type (standard)                  | Electric 2-speed  |
|  | Type (optional)                  | Intermittent windshield wiper system  |
|  | Blade length                     | 430 (16.0)  |
| Swept area (cm <sup>2</sup> (in. <sup>2</sup> )) |                                  | Coupes 4900 (759.7), sedan & wagon 4937 (765.4)   |
| Wind-<br>shield<br>washer                        | Type (standard)                  | 'Paddle' on top of turn signal lever  |
|  | Type (optional)                  | Not Available   |
|  | Fluid level indicator            | "   |
| Horn   | Type                             | Vibrator  |
|  | Number used                      | One   |
| Other  |                                  | Parking brake warning light & brake failure warning light restraint system warning light and buzzer, Odometer flag for converter service, "choke" malfunction tell-tale warning light - (California only) |

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line CAVALIER  
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Engine Description/Carb.  
Engine Code

|  |   |
|--|---|
| 2.0 Liter L4 (121 CID)<br>Electronic Fuel Injection<br>RPO LQ5 | 2.8 Liter V 6 (173 CID)<br>(2.8 Multi-Port FI)<br>RPO LB6 |
|--|---|

## Electrical - Supply System

|                         |                          |                                  |
|-------------------------|--------------------------|----------------------------------|
| Battery                 | Make                     | Delco Remy                       |
|                         | Model, std., (opt.)      | 70-405, 75-500 H.D.              |
|                         | Voltage                  | 12 Volt                          |
|                         | Amps at 0°F cold crank   | 405, 500 H.D.                    |
|                         | Minutes-reserve capacity | 75 minutes base, 90 minutes H.D. |
|                         | Amp/hrs. - 20 hr. rate   | --                               |
| Location                |                          | Engine compartment               |
| Generator or alternator | Type and rating          | Diode rectified, 42 amps         |
|                         | Ratio (alt. crank/rev.)  | 2.3:1                            |
|                         | Optional (type & rating) | None                             |
| Regulator               | Type                     | Integral with alternator         |

## Electrical - Starting System

|              |                                   |             |
|--------------|-----------------------------------|-------------|
| Start. motor | Current drain at 0°F -20°F        | 305 @ -20°F |
|              | Engagement type                   | Solenoid    |
| Motor drive  | Pinion engages from (front, rear) | Front       |

## Electrical - Ignition System

|             |                                    |                                      |         |
|-------------|------------------------------------|--------------------------------------|---------|
| Type        | Conventional (std., opt., n.a.)    | Not Available                        |         |
|             | Electronic (std., opt., n.a.)      | "                                    |         |
|             | Other (specify)                    | High energy ignition system (H.E.I.) |         |
| Coil        | Make                               | Delco Remy                           |         |
|             | Model                              | 1115461                              |         |
|             | Current                            | Engine stopped - A                   | 0       |
|             |                                    | Engine idling - A                    | 5.5 Max |
| Spark plug  | Make                               | AC spark plug                        |         |
|             | Model                              | R42CTS                               |         |
|             | Tthread (mm)                       | M14x1.25                             |         |
|             | Tightening torque [N-m (lb., ft.)] | 9-20 (7-15)                          |         |
|             | Gap                                | .9 (.035)   1.14 (.045)              |         |
|             | Number per cylinder                | One                                  |         |
| Distributor | Make                               | Delco Remy                           |         |
|             | Model                              | 1103579                              |         |

## Electrical - Suppression

Locations & type Internal alternator capacitor, non-metallic high-tension ignition 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.

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METRIC (U.S. Customary)

Car Line CAVALIER  
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|           |           |             |           |
|-----------|-----------|-------------|-----------|
| Body Type | NOTCHBACK | CONVERTIBLE | HATCHBACK |
|           | COUPE     | COUPE       | COUPE     |
|           | 1JE27     | 1JE67       | 1JE77     |

## Body - Miscellaneous Information

|   |   |  |                 |
|---|---|--|-----------------|
| Type of finish (lacquer, enamel, other)                         |   | Acrylic lacquer or water base acrylic enamel   |                 |
| Hood  | Hinge location (front, rear)                  | Rear   |                 |
|   | Type (counterbalance, prop)                   | Prop rod   |                 |
|   | Release control (internal, external)          | Internal   |                 |
| Trunk lid   | Type (counterbalance, other)                  | Torsion rods   | --              |
|   | Internal release control (elec., mech., n.a.) | Electrical-Optional --   |                 |
| Hatch-back lid  | Type (counterbalance, other)                  | --   | (A)             |
|   | Internal release control (elec., mech., n.a.) | --   | Electrical-Opt. |
| Bumper front  | Bar material & mass, kg (weight, lbs.)        | 2.40 mm (0.09 in) HSLA steel/7.9 kg (17.4 lbs.)  |                 |
|   | Reinforcement material & mass, kg (lbs.)      | 4.8 kg (10.6 lbs.)#  |                 |
| Bumper rear   | Bar material & mass, kg (weight, lbs.)        | 2.40 mm (0.09 in) HSLA steel/10.4 kg (22.9 lbs.)   |                 |
|   | Reinforcement material & mass, kg. (lbs.)     | 5.0 kg (11.0 lbs.)#  |                 |
| Vent window control (crank, friction, pivot, power)             | Front   | None   |                 |
|   | Rear  | "  |                 |
| Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.) | Front   | High contour bucket, @ polyurethane padding  |                 |
|   | Rear  | Bench, @ polyurethane padding  |                 |
|   | 3rd seat                                      | --   |                 |
| Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)    | Front   | Reclining bucket, @ polyurethane padding   |                 |
|   | Rear  | Bench@, (full folding on 1JE77-split opt.)poly. padding  |                 |
|   | 3rd seat                                      | --   |                 |
| Vehicle identification no. location                             |   | Top left side of instrument panel pad<br>(A)-Two-telescoping gas struts. @-Up level design on 1JE67.<br># -Balance of system, less facia material. |                 |

## Frame

|   |   |
|---|---|
| Type and description (separate frame, unitized frame, partially-unitized frame) | Body-Frame integral with bolt-on power train cradle |
|---|---|

## Glass

|   |      |                          |                |                |
|---|------|--------------------------|----------------|----------------|
| Backlight slope angle (deg.)  | H121 | 51.5°                    | 54.5°          | 69.0°          |
| Windshield slope angle (deg.)   | H122 | 58.7°                    | 58.8°          | 58.7°          |
| Tumble-Home (deg.)  | W122 | 21.5°                    |                |                |
| Windshield glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]           | S1   | 7487 (1160.5)            |                |                |
| Side glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )] - total 2-sides | S2   | 10910 (1691.0)           |                | 11478 (1779.1) |
| Backlight glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]            | S3   | 5154 (798.9)             | 3393 (525.9)   | 8685 (1346.2)  |
| Total glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]                | S4   | 23551 (3650.4)           | 21790 (3377.4) | 27650 (4285.7) |
| Windshield glass (type)   |      | Curved - Laminated Plate |                |                |
| Side glass (type)   |      | Curved - Tempered Plate  |                |                |
| Backlight glass (type)  |      | Curved - Tempered Plate  |                |                |

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

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

Body Type

|                             |                             |                               |                                    |  |
|-----------------------------|-----------------------------|-------------------------------|------------------------------------|--|
| NOTCHBACK<br>COUPE<br>1JE27 | HATCHBACK<br>COUPE<br>1JE77 | CONVERTIBLE<br>COUPE<br>1JE67 | NOTCHBACK<br>SEDANS<br>1JC & 1JD69 | LIFTBACK<br>STATION WGNs.<br>1JC & 1JD35 |
|-----------------------------|-----------------------------|-------------------------------|------------------------------------|--|

**Restraint System**

|                               |                      |   |
|-------------------------------|----------------------|---|
| Active<br>restraint<br>system | Standard/optional    | Standard  |
|                               | Type and description | Front-Seat belt and shoulder belt system with Retractor<br>Rear-Seat belt system  |
|                               | Location             | Front-Belt and shoulder belt attached to lock pillar with inertia<br>in lower lock pillar. Frt buckle attached to underbody. Rr belts<br>attached to underbody. |
| Passive<br>seat<br>belts      | Standard/optional    | Not Available.  |
|                               | Power/manual         | "   |
|                               | 2 or 3 point         | "   |
|                               | Knee bar/lap belt    | "   |

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Car Line CAVALIER  
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METRIC (U.S. Customary)

|           |                                   |  |
|-----------|-----------------------------------|--|
| Body Type | NOTCHBACK<br>SEDAN<br>1JC & 1JD69 | LIFTGATE<br>STATION WAGON<br>1JC & 1JD35 |
|-----------|-----------------------------------|--|

## Body - Miscellaneous Information

|   |   |  |     |
|---|---|--|-----|
| Type of finish (lacquer, enamel, other)                         |   | Acrylic lacquer or water base acrylic enamel   |     |
| Hood  | Hinge location (front, rear)                  | Rear   |     |
|   | Type (counterbalance, prop)                   | Prop rod   |     |
|   | Release control (internal, external)          | Internal   |     |
| Trunk lid   | Type (counterbalance, other)                  | Torsion rods   | (A) |
|   | Internal release control (elec., mech., n.a.) | Electrical-Optional  |     |
| Hatch-back lid  | Type (counterbalance, other)                  | --   |     |
|   | Internal release control (elec., mech., n.a.) | --   |     |
| Bumper front  | Bar material & mass, kg (weight, lbs.)        | 2.40mm (0.09 in) HSLA steel/7.9 kg (17.4 lbs.)   |     |
|   | Reinforcement material & mass, kg (lbs.)      | 4.8 kg (10.6 lbs.)#  |     |
| Bumper rear   | Bar material & mass, kg (weight, lbs.)        | 2.40mm(0.09 in)/1JC&1JD69-10.4 kg(22.9 lbs), 1JC& 1JD35-8.5 kg (18.7 lbs.)   |     |
|   | Reinforcement material & mass, kg. (lbs.)     | 5.0 kg (11.0 lbs.)#  |     |
| Vent window control (crank, friction, pivot, power)             | Front   | None   |     |
|   | Rear  | None   |     |
| Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.) | Front   | Bucket polyurethane padding  |     |
|   | Rear  | Bench polyurethane padding   |     |
|   | 3rd seat                                      | None   |     |
| Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)    | Front   | Reclining bucket, polyurethane padding   |     |
|   | Rear  | Bench (full folding on 1JC&1JD35-split opt.) poly. padding   |     |
|   | 3rd seat                                      | None   |     |
| Vehicle identification no. location                             |   | Top left side of instrument panel pad<br>(A)-Lift gate, two-telescoping gas struts.<br># -Balance of system less facia material. |     |

## Frame

|   |   |
|---|---|
| Type and description (separate frame, unitized frame, partially-unitized frame) | Body-Frame integral with bolt-on power train cradle |
|---|---|

## Glass

|   |      |                          |                |
|---|------|--------------------------|----------------|
| Backlight slope angle (deg.)  | H121 | 49.0°                    | 35.5°          |
| Windshield slope angle (deg.)   | H122 | 55.0°                    |                |
| Tumble-Home (deg.)  | W122 | 21.5°                    | 22.0°          |
| Windshield glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]           | S1   | 7487 (1160.5)            |                |
| Side glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )] - total 2-sides | S2   | 11532 (1787.5)           | 16955 (2628.0) |
| Backlight glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]            | S3   | 5691 (882.1)             | 4892 (758.3)   |
| Total glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]                | S4   | 24710 (3830.0)           | 29334 (4546.8) |
| Windshield glass (type)   |      | Curved - Laminated Plate |                |
| Side glass (type)   |      | Curved - Tempered Plate  |                |
| Backlight glass (type)  |      | Curved - Tempered Plate  |                |



**MYMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**  
**Car and Body Dimensions** See Key Sheets for definitions

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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. | NOTCHBACK COUPE<br>1JE27 | CONVERTIBLE COUPE<br>1JE67 | HATCHBACK COUPE<br>1JE77 |
|-----------|--------------|--------------------------|----------------------------|--------------------------|
|-----------|--------------|--------------------------|----------------------------|--------------------------|

**Width**

|                                  |      |              |  |  |
|----------------------------------|------|--------------|--|--|
| Tread (front)                    | W101 | 1406 (55.4)  |  |  |
| Tread (rear)                     | W102 | 1401 (55.2)  |  |  |
| Vehicle width                    | W103 | 1677 (66.0)  |  |  |
| Body width at Sg RP (front)      | W117 | 1652 (65.0)  |  |  |
| Vehicle width (front doors open) | W120 | 3684 (145.0) |  |  |
| Vehicle width (rear doors open)  | W121 | --           |  |  |

**Length**

|                               |      |                |             |              |
|-------------------------------|------|----------------|-------------|--------------|
| Wheelbase                     | L101 | 2571 (101.2)   |             |              |
| Vehicle length                | L103 | 4378.5 (172.4) |             |              |
| Overhang (front)              | L104 | 896.5 (35.3)   |             |              |
| Overhang (rear)               | L105 | 911.0 (35.9)   |             |              |
| Upper structure length        | L123 | 2335 (91.9)    | 2340 (92.1) | 2800 (110.2) |
| Rear wheel C/L "X" coordinate | L127 | 2354 (92.7)    |             |              |
| Cowl point "X" coordinate     | L125 | 247 (9.7)      |             |              |

**Height \*\***

|                                     |         |             |             |             |
|-------------------------------------|---------|-------------|-------------|-------------|
| Passenger distribution (fr./rear)   | PD1,2,3 |             | **          |             |
| Trunk/cargo load                    |         |             | **          |             |
| Vehicle height                      | H101    | 1275 (50.2) | 1339 (52.7) | 1274 (50.2) |
| Cowl point to ground                | H114    | 898 (35.4)  |             |             |
| Deck point to ground                | H138    |             |             |             |
| Rocker panel-front to ground        | H112    | 196 (7.7)   |             |             |
| Bottom of door closed-front to grd. | H133    | 247 (9.7)   |             |             |
| Rocker panel-rear to ground         | H111    | 161 (6.3)   |             |             |
| Bottom of door closed-rear to grd.  | H135    | --          |             |             |

**Ground Clearance \*\***

|   |      |            |                         |            |
|---|------|------------|-------------------------|------------|
| Front bumper to ground                      | H102 | 370 (14.6) |                         | 365 (14.4) |
| Rear bumper to ground                       | H104 | 266 (10.5) |                         |            |
| Bumper to ground (front at curb mass (wt.)) | H103 | 381 (15.0) |                         | 376 (14.8) |
| Bumper to ground (rear at curb mass (wt.))  | H105 | 369 (14.5) |                         | 368 (14.5) |
| Angle of approach (degrees)                 | H106 | 26.5°      |                         |            |
| Angle of departure (degrees)                | H107 | 13.1°      |                         |            |
| Ramp breakover angle (degrees)              | H147 | 12.9°      |                         |            |
| Rear axle differential to ground            | H153 | --         |                         |            |
| Min. running ground clearance               | H156 | 115 (4.5)  |                         |            |
| Location of min. run. grd. clear.           |      |            | Rear stabilizer bracket |            |

\* All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified.

\*\* 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.

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

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

|           |                |                |                |                     |                              |
|-----------|----------------|----------------|----------------|---------------------|------------------------------|
| Body Type | NOTCHBACK      | HATCHBACK      | CONVERTIBLE    | NOTCHBACK           | LIFTBACK                     |
|           | COUPE<br>1JE27 | COUPE<br>1JE77 | COUPE<br>1JE67 | SEDANS<br>1JC&1JD69 | STATION WGNs.<br>1JC & 1JD35 |

**Convenience Equipment (standard, optional, n.a.)**

|   |  |  |
|---|--|--|
| Air conditioning (manual, auto. temp control) | Optional (manual control)  |  |
| Clock (digital, analog)                       | Digital (integ.w/stereo radios & monaural radios on cpes.)   |  |
| Compass, thermometer                          | Not Available  |  |
| Console (floor, overhead)                     | Standard, floor (mini, full and cockpit)   |  |
| Defroster, elec. backlight                    | Optional   |  |
| Electronic                                    | Diagnostic warning (integrated, individual)  | Not Available  |
|   | Instrument cluster (list instruments)  | Fuel, temp., oil pres., battery charge, digital speedo. (**) |
|   | Keyless entry  | Not Available  |
|   | Tripmeter (avg. sp., fuel)   | "  |
|   | Voice alert (list items)   | "  |
|   | Other  | "  |
|   | (**) Bar graph tachometer  |  |
| Fuel door lock (remote, key, electric)        | Not Available  |  |
| Lamps   | Auto head on / off delay, dimming  | "  |
|   | Cornering  | "  |
|   | Courtesy (map, reading)  | *  |
|   | Door lock, ignition  | Not Available  |
|   | Engine compartment   | *  |
|   | Fog  | Not Available  |
|   | Glove compartment  | *  |
|   | Trunk  | *  |
| Other   | --   |  |
| Mirrors                                       | Day night (auto, man)  | Standard (manual)  |
|   | L.H. (remote, power, heated)   | Optional (remote)  |
|   | R. H. (convex, remote, power, heated)  | Optional, manual (convex)                                    |
|   | Visor vanity (RH, LH, illuminated)   | Optional R.H.  |
| Parking brake-auto release (warning light)    | Standard (manual release) lower area of speedometer  |  |
| Power equipment                               | Door locks, deck lid - specify   | Optional - both  |
|   | Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)   | Optional, 6-way power seat                                   |
|   | Side windows   | Optional   |
|   | Vent windows   | Not Available  |
| Radio systems                                 | Rear window  | "  |
|   | Antenna (location, whip, w shield, power)  | Front fender-R.H., whip (optional on 1JC00)                  |
|   | AM, FM, stereo, tape, CB   | Optional   |
| Speaker (number, location) Premium sound      | 2-Standard, 1.P.(exc. 1JC00), dual rear available, premium dual rear available on 4-doors, coaxial front & prem. dual rear avail. on 2-doors.  |  |
| Roof open air (fixed (flip-up, sliding, "T")  | Optional (removable)   |  |
| Speed control device                          | Optional   |  |
| Speed warning device (light, buzzer, etc.)    | Not Available  |  |
| Tachometer (rpm)                              | Optional   |  |
| Theft protection-type                         | Auto. Trans.-Lock mounted on steering column; locks steering wheel, Auto. Trans. shift lever and ignition. Manual Trans.-Lock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons. |  |

\*-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on 1JC00, luggage compartment lamp (exc. 35 models), engine comp. lamp, glove comp. lamp, courtesy lamp, dome reading lamp, rear courtesy lamp on 35, 77 models.

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
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**METRIC (U.S. Customary)**  
Car and Body Dimensions See Key Sheets for definitions

| Body Type | SAE Ref. No. | NOTCHBACK COUPE | CONVERTIBLE COUPE | HATCHBACK COUPE |
|-----------|--------------|-----------------|-------------------|-----------------|
|           |              | 1JE27           | 1JE67             | 1JE77           |

## Front Compartment

|                                  |     |             |             |             |
|----------------------------------|-----|-------------|-------------|-------------|
| Sg RP front, "X" coordinate      | L31 | 1113 (43.8) |             |             |
| Effective head room              | H61 | 958 (37.7)  | 978 (38.5)  | 955 (37.6)  |
| Max. eff. leg room (accelerator) | L34 | 1071 (42.2) |             |             |
| Sg RP (front to heel)            | H30 | 233 (9.2)   |             |             |
| Design H-point front travel      | L17 | 192 (7.6)   |             |             |
| Shoulder room                    | W3  | 1364 (53.7) |             |             |
| Hip room                         | W5  | 1248 (49.1) | 1230 (48.4) | 1248 (49.1) |
| Upper body opening to ground     | H50 | 1202 (47.3) |             |             |
| Steering wheel angle             | H18 | 20.0°       |             |             |
| Back angle                       | L40 | 25.0°       |             |             |

## Rear Compartment

|                              |     |             |            |             |
|------------------------------|-----|-------------|------------|-------------|
| Sg RP Rear couple distance   | L50 | 720 (28.3)  |            | 715 (28.1)  |
| Effective head room          | H63 | 931 (36.7)  | 949 (37.4) | 925 (36.4)  |
| Min. effective leg room      | L51 | 807 (31.8)  | 791 (31.1) | 807 (31.8)  |
| Sg RP (second to heel)       | H31 | 259 (10.2)  |            | 252 (9.9)   |
| Knee clearance               | L48 | -21 (-0.8)  | -18 (-0.7) | -24 (-0.9)  |
| Compartment room             | L3  | 635 (25.0)  | 640 (25.2) | 652 (25.7)  |
| Shoulder room                | W4  | 1335 (52.6) | 964 (38.0) | 1322 (52.0) |
| Hip room                     | W6  | 1265 (49.8) | 964 (38.0) | 1234 (48.6) |
| Upper body opening to ground | H51 | --          |            |             |
| Back angle                   | L41 | 25.0°       | 19.0°      | 25.0°       |

## Luggage Compartment

|                                       |      |            |            |            |
|---------------------------------------|------|------------|------------|------------|
| Usable luggage capacity [L (cu. ft.)] | V1   | 374 (13.2) | 294 (10.4) | --         |
| Liftover height                       | H195 | 750 (29.5) |            | 755 (29.7) |

## Interior Volumes (EPA Classification)

|                                 |  |         |      |      |
|---------------------------------|--|---------|------|------|
| Vehicle class                   |  | Compact |      |      |
| Interior volume index (cu. ft.) |  | 85.0    | 75.9 | 84.1 |
| Trunk cargo index (cu. ft.)     |  | 13.2    | 10.4 | 14.8 |

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.

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
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## METRIC (U.S. Customary) 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. | NOTCHBACK<br>SEDANS<br>1JC & 1JD69 | LIFTGATE<br>STATION WAGONS<br>1JC & 1JD35 |
|-----------|--------------|------------------------------------|---|

### Width

|                                  |      |              |  |
|----------------------------------|------|--------------|--|
| Tread (front)                    | W101 | 1406 (55.4)  |  |
| Tread (rear)                     | W102 | 1401 (55.2)  |  |
| Vehicle width                    | W103 | 1685 (66.3)  |  |
| Body width at Sg RP (front)      | W117 | 1652 (65.0)  |  |
| Vehicle width (front doors open) | W120 | 3218 (126.7) |  |
| Vehicle width (rear doors open)  | W121 | 2832 (111.5) |  |

### Length

|                               |      |                |                |
|-------------------------------|------|----------------|----------------|
| Wheelbase                     | L101 | 2571 (101.2)   |                |
| Vehicle length                | L103 | 4428.0 (174.3) | 4433.5 (174.5) |
| Overhang (front)              | L104 | 896.5 (35.3)   |                |
| Overhang (rear)               | L105 | 960.5 (37.8)   | 966.0 (38.0)   |
| Upper structure length        | L123 | 2363 (93.0)    | 2924 (115.1)   |
| Rear wheel C/L "X" coordinate | L127 | 2354 (92.7)    |                |
| Cowl point "X" coordinate     | L125 | 245 (9.6)      | 246 (9.7)      |

### Height \*\*

|                                     |         |             |             |
|-------------------------------------|---------|-------------|-------------|
| Passenger distribution (fr. rear)   | PD1.2.3 |             | **          |
| Trunk cargo load                    |         |             | **          |
| Vehicle height                      | H101    | 1323 (52.1) | 1342 (52.8) |
| Cowl point to ground                | H114    | 898 (35.4)  | 905 (35.6)  |
| Deck point to ground                | H138    |             |             |
| Rocker panel-front to ground        | H112    | 196 (7.7)   | 205 (8.1)   |
| Bottom of door closed-front to grd. | H133    | 247 (9.7)   | 265 (10.4)  |
| Rocker panel-rear to ground         | H111    | 261 (10.3)  | 184 (7.2)   |
| Bottom of door closed-rear to grd.  | H135    | 283 (11.1)  | 259 (10.2)  |

### Ground Clearance \*\*

|   |      |                         |            |
|---|------|-------------------------|------------|
| Front bumper to ground                      | H102 | 370 (14.6)              | 367 (14.4) |
| Rear bumper to ground                       | H104 | 265 (10.4)              | 273 (10.7) |
| Bumper to ground (front at curb mass (wt.)) | H103 | 381 (15.0)              | 382 (15.0) |
| Bumper to ground (rear at curb mass (wt.))  | H105 | 368 (14.5)              | 359 (14.1) |
| Angle of approach (degrees)                 | H106 | 26.5°                   | 26.3°      |
| Angle of departure (degrees)                | H107 | 13.9°                   | 14.4°      |
| Ramp breakover angle (degrees)              | H147 | 12.9°                   | 14.3°      |
| Rear axle differential to ground            | H153 | --                      |            |
| Min. running ground clearance               | H156 | 115 (4.5)               | 132 (5.2)  |
| Location of min. run. grd. clear.           |      | Rear stabilizer bracket |            |

\* All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified.

\*\* 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.

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

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|           |              |                             |                                   |
|-----------|--------------|-----------------------------|-----------------------------------|
| Body Type | SAE Ref. No. | HATCHBACK<br>COUPE<br>1JE77 | LIFTBACK<br>WAGONS<br>1JC & 1JD35 |
|           |              |                             |                                   |

**Station Wagon - Third Seat**

|                             |     |            |
|-----------------------------|-----|------------|
| Shoulder room               | W85 | Not        |
| Hip room                    | W86 | Applicable |
| Effective leg room          | L86 |            |
| Effective head room         | H86 |            |
| Effective T-point head room | H89 |            |
| Seat facing direction       | SD1 |            |
| Back angle                  | L88 |            |

**Station Wagon - Cargo Space**

|  |      |            |                      |
|--|------|------------|----------------------|
| Cargo length (open front)                                | L200 |            | --                   |
| Cargo length (open second)                               | L201 |            | --                   |
| Cargo length (closed front)                              | L202 |            | 1709 (67.3)          |
| Cargo length (closed second)                             | L203 | Not        | 980 (38.6)           |
| Cargo length at belt (front)                             | L204 | Applicable | 1581 (62.2)          |
| Cargo length at belt (second)                            | L205 |            | 837 (33.0)           |
| Cargo width (wheelhouse)                                 | W201 |            | 944 (37.2)           |
| Rear opening width at floor                              | W203 |            | 1226 (48.3)          |
| Opening width at belt                                    | W204 |            | 1206 (47.5)          |
| Max. rear opening width above belt                       | W205 |            | 970 (38.2)           |
| Cargo height   | H201 |            | 846 (33.3)           |
| Rear opening height                                      | H202 |            | 764 (30.1)           |
| Tailgate to ground height                                | H250 |            | 490 (19.3)           |
| Front seat back to load floor height                     | H197 |            | --                   |
| Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]  | V2   |            | 1824L (64.4 cu. ft.) |
| Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )] | V4   |            | --                   |
| Cargo volume, index-rear of 2-seat                       | V10  |            | 966 (34.1)           |

**Hatchback - Cargo Space**

|  |      |             |            |
|--|------|-------------|------------|
| Front seat back to load floor height                     | H197 | 602 (23.7)  |            |
| Cargo length at front seat back height                   | L208 | 1426 (56.1) | Not        |
| Cargo length at floor (front)                            | L209 | 1654 (65.1) | Applicable |
| Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]  | V3   | 1226 (43.3) |            |
| Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )] | V4   | --          |            |
| Cargo volume index-rear of 2-seat                        | V11  | 452 (16.0)  |            |

**Aerodynamics\***

|   |  |  |
|---|--|--|
| Wheel lip to ground, front                        |  |  |
| Wheel lip to ground, rear                         |  |  |
| Frontal area [m <sup>2</sup> (ft. <sup>2</sup> )] |  |  |
| Drag coefficient (Cd)                             |  |  |

\* Describe measurement method.

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## Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line CAVALIER

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Body Type

|              |                                    |   |
|--------------|------------------------------------|---|
| SAE Ref. No. | NOTCHBACK<br>SEDANS<br>1JC & 1JD69 | LIFTGATE<br>STATION WAGONS<br>1JC & 1JD35 |
|--------------|------------------------------------|---|

### Front Compartment

|                                  |     |             |             |
|----------------------------------|-----|-------------|-------------|
| Sg RP front, "X" coordinate      | L31 | 1113 (43.8) |             |
| Effective head room              | H61 | 980 (38.6)  | 973 (38.3)  |
| Max. eff. leg room (accelerator) | L34 | 1072 (42.2) |             |
| Sg RP (front to heel)            | H30 | 257 (10.1)  | 256 (10.1)  |
| Design H-point front travel      | L17 | 192 (7.6)   |             |
| Shoulder room                    | W3  | 1363 (53.7) |             |
| Hip room                         | W5  | 1240 (48.9) | 1241 (48.9) |
| ** Upper body opening to ground  | H50 | 1202 (47.3) | 1219 (48.0) |
| Steering wheel angle             | H18 | 20.0°       |             |
| Back angle                       | L40 | 25.0°       |             |

### Rear Compartment

|                                |     |             |                    |
|--------------------------------|-----|-------------|--------------------|
| Sg RP Point couple distance    | L50 | 758 (29.8)  | 741 (29.2)         |
| Effective head room            | H63 | 964 (38.0)  | 986 (38.8)         |
| Min. effective leg room        | L51 | 871 (34.3)  | 857 (33.7)         |
| Sg RP (second to heel)         | H31 | 272 (10.7)  | 259 (10.2)         |
| Knee clearance                 | L48 | 14 (0.6)    | 2 (0.1)            |
| Compartment room               | L3  | 657 (25.9)  | 660 (26.0)         |
| Shoulder room                  | W4  | 1364 (53.7) |                    |
| Hip room                       | W6  | 1241 (48.9) | 1244 (49.0)        |
| * Upper body opening to ground | H51 | 1254 (49.4) | 1254 (49.4)        |
| Back angle                     | L41 | 26.0°       | 25.0° <sup>c</sup> |

### Luggage Compartment

|                                       |      |            |            |
|---------------------------------------|------|------------|------------|
| Usable luggage capacity [L (cu. ft.)] | V1   | 386 (13.6) | --         |
| ** Litter height                      | H185 | 755 (29.7) | 490 (19.3) |

### Interior Volumes (EPA Classification)

|                                 |  |         |      |
|---------------------------------|--|---------|------|
| Vehicle class                   |  | Compact |      |
| Interior volume index (cu. ft.) |  | 91.1    | 90.9 |
| Trunk cargo index (cu. ft.)     |  | 13.6    | 34.1 |

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.

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Body Type

| SAE Ref. No. | NOTCHBACK COUPE<br>1JE27 | CONVERTIBLE COUPE<br>1JE67 | HATCHBACK COUPE<br>1JE77 | NOTCHBACK SEDANS<br>1JC&1JD69 | LIFTBACK STATION WAGONS<br>1JC & 1JD35 |
|--------------|--------------------------|----------------------------|--------------------------|-------------------------------|--|
|--------------|--------------------------|----------------------------|--------------------------|-------------------------------|--|

**Lamps and Headlamp Shape\***

|   |                  |             |             |             |             |             |
|---|------------------|-------------|-------------|-------------|-------------|-------------|
| Height above ground to center of bulb or marker | Headlamp (H127)  | Highest**   | 646(25.4)   |             |             | 647(25.5)   |
|   |                  | Lowest      | 646(25.4)   |             |             | 647(25.5)   |
|   | Tail lamp (H128) | Highest**   | 748(29.4)   | 676(26.6)   | 748(29.4)   | 589(23.2)   |
|   |                  | Lowest      | --          |             |             |             |
|   | Sidemarker       | Front       | 501(19.7)   |             |             | 503(19.8)   |
|   |                  | Rear        | 526(20.7)   |             |             | 757(29.8)   |
| Distance from C L of car to center of bulb      | Headlamp         | Inside      | 424.5(16.7) |             |             |             |
|   |                  | Outside**   | 600.0(23.6) |             |             |             |
|   | Tail lamp        | Inside      | --          |             |             |             |
|   |                  | Outside**   | 591.0(23.3) | 678.0(26.7) | 591.0(23.3) | 714.5(28.1) |
|   | Directional      | Front       | 569.0(22.4) |             |             |             |
|   |                  | Rear        | 591.0(23.3) | 678.0(26.7) | 591.0(23.3) | 714.5(28.1) |
| Headlamp shape                                  |                  | Rectangular |             |             |             |             |

\* Measured at curb mass (weight).  
 \*\* If single lamps are used enter here.

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

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

|           |           |             |           |             |               |
|-----------|-----------|-------------|-----------|-------------|---------------|
| Body Type | NOTCHBACK | CONVERTIBLE | HATCHBACK | NOTCHBACK   | LIFTBACK      |
|           | COUPE     | COUPE       | COUPE     | SEDANS      | STATION WGNs. |
|           | 1JE27     | 1JE67       | 1JE77     | 1JC & 1JD69 | 1JC & 1JD35   |

**Vehicle Fiducial Marks**

| Fiducial Mark Number* | Define Coordinate Location  |                 |            |                 |  |            |
|-----------------------|---|-----------------|------------|-----------------|--|------------|
| Front                 | X - Fiducial mark 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. |                 |            |                 |  |            |
|                       | Y - Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt.                    |                 |            |                 |  |            |
|                       | 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 the base grid line to rear fiducial mark located on the rail (compartment pan - longitudinal).          |                 |            |                 |  |            |
|                       | Y - Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal).                     |                 |            |                 |  |            |
|                       | Z - Fiducial mark to horizontal base grid line - rear, measured vertically from the base grid line to rear fiducial mark located on the rail (compartment pan - longitudinal).          |                 |            |                 |  |            |
| Front                 | W21   | 504 ( 19.8)     |            |                 |  |            |
|                       | L54   | (*) 746 ( 29.4) |            |                 |  |            |
|                       | H81   | (#) -54 (-2.1)  | -36 (-1.4) | -54 (-2.1)      |  |            |
|                       | H161  | Curb 293 (11.5) |            |                 |  | 300 (11.8) |
|                       | ** H163   | 269 (10.6)      |            |                 |  | 278 (10.9) |
| Rear                  | W22   | 440 ( 17.3)     |            |                 |  |            |
|                       | L55   | (*)2900 (114.2) |            | (*)2951 (116.2) |  |            |
|                       | H82   | (#) 62 ( 2.4)   |            |                 |  |            |
|                       | H162  | Curb 413 (16.3) |            |                 |  | 429 (16.9) |
|                       | ** H164   | 381 (15.0)      |            |                 |  | 401 (15.8) |
|                       | (*) Base Grid is 2000mm Line<br>(#) Base Grid is 300mm Line   |                 |            |                 |  |            |

\* Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks - September, 1973.  
 All linear dimensions are in millimeters (inches).

\*\* EPA Loaded Vehicle Weight, Loading Conditions



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

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (e) \_\_\_\_\_

| Equipment                 | Optional Equipment Differential Mass (weight)* |       |        | Remarks                            |
|---------------------------|--|-------|--------|------------------------------------|
|                           | MASS, kg. (weight, lb.)                        |       |        |                                    |
|                           | Front  | Rear  | Total  |                                    |
| Removable Sun Roof        | 3.4  | 3.8   | 7.2    | All except wagons and convertible  |
| RPO AD3                   | (7.5)  | (8.4) | (15.9) |                                    |
| Six Way Power Seat-Driver |  |       |        | All models                         |
| RPO AG9                   |  |       |        |                                    |
| Split Folding RR Seatback | .2   | 1.0   | 1.2    | 35 and 77 models                   |
| RPO AM9                   | (0.4)  | (2.2) | (2.6)  |                                    |
| Power Door Lock System    | .6   | 1.0   | 1.6    | 2-Door models                      |
| RPO AU3                   | (1.3)  | (2.2) | (3.5)  |                                    |
|                           | 1.0  | 1.6   | 2.6    | 4-Door models                      |
|                           | (2.2)  | (3.5) | (5.7)  |                                    |
| Power Liftgate Release    | -.4  | 1.6   | 1.2    | Station Wagon                      |
| RPO AU6                   | (-0.9)   | (3.5) | (2.6)  |                                    |
| Power Windows RPO A31     | 1.0  | 1.8   | 2.8    | 2-Door models, std. on convertible |
|                           | (2.2)  | (4.0) | (6.2)  |                                    |
|                           | 1.8  | 3.2   | 5.0    | 4-Door models                      |
|                           | (4.0)  | (7.0) | (11.0) |                                    |
| Power Trunk Opener        | -.2  | .8    | .6     | All models except convertible      |
| RPO A90                   | (-0.4)   | (1.8) | (1.4)  |                                    |
| Floor Mats-Front Only     | 1.2  | 0     | 1.2    | All models                         |
| Color keyed carpet        | (2.6)  | (0)   | (2.6)  |                                    |
| RPO B34                   |  |       |        |                                    |
| Floor Mats-Rear Only      | 0  | .8    | .8     | All models                         |
| Color keyed carpet        | (0)  | (1.8) | (1.8)  |                                    |
| RPO B35                   |  |       |        |                                    |
| Body Side Moldings        | .8   | 1.0   | 1.8    | 1JCO0 models, std. 1JDO0 models    |
| RPO B84                   | (1.8)  | (2.2) | (4.0)  |                                    |
|                           |  |       |        |                                    |
|                           |  |       |        |                                    |
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|                           |  |       |        |                                    |
|                           |  |       |        |                                    |

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

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (\*) 9-84

METRIC (U.S. Customary)

| Model  | Vehicle Mass (weight)         |                |                  |                           |      |              |      | SHIPPING MASS kg (weight, lb.)** |
|--|-------------------------------|----------------|------------------|---------------------------|------|--------------|------|----------------------------------|
|  | CURB MASS, kg. (weight, lb.)* |                |                  | % PASS. MASS DISTRIBUTION |      |              |      |                                  |
|  | Front                         | Rear           | Total            | Pass In Front             |      | Pass In Rear |      |                                  |
|  |                               |                |                  | Front                     | Rear | Front        | Rear |                                  |
| <b>Cavalier</b>  |                               |                |                  |                           |      |              |      |                                  |
| 4-Door Notchback<br>Sedan 1JC69  | 670.1<br>(1477)               | 391.1<br>(862) | 1061.2<br>(2339) |                           |      |              |      | 1030.8<br>(2272)                 |
| 4-Door Liftback<br>Wagon 1JC35   | 665.9<br>(1468)               | 426.8<br>(941) | 1092.7<br>(2409) |                           |      |              |      | 1062.3<br>(2342)                 |
| <b>Cavalier "CS"</b>   |                               |                |                  |                           |      |              |      |                                  |
| 4-Door Notchback<br>Sedan 1JD69  | 673.8<br>(1485)               | 393.3<br>(867) | 1067.1<br>(2352) |                           |      |              |      | 1036.7<br>(2285)                 |
| 4-Door Liftback<br>Wagon 1JD35   | 669.0<br>(1475)               | 428.8<br>(945) | 1097.8<br>(2420) |                           |      |              |      | 1067.4<br>(2353)                 |
| <b>Cavlier "Type 10"</b>   |                               |                |                  |                           |      |              |      |                                  |
| 2-Door Notchback<br>Coupe 1JE27  | 670.5<br>(1478)               | 381.9<br>(842) | 1052.4<br>(2320) |                           |      |              |      | 1022.0<br>(2253)                 |
| 2-Door Hatchback<br>Coupe 1JE77  | 677.3<br>(1493)               | 403.3<br>(889) | 1080.6<br>(2382) |                           |      |              |      | 1050.2<br>(2315)                 |
| 2-Door Convertible<br>Coupe 1JE67  | 717.7<br>(1582)               | 397.4<br>(876) | 1115.1<br>(2458) |                           |      |              |      | 1084.7<br>(2391)                 |
| 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 -

# MVMA Specifications Form

## Passenger Car

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (e)

METRIC (U.S. Customary)

| Equipment                                     | Optional Equipment Differential Mass (weight)* |        |         | Remarks  |
|---|--|--------|---------|--|
|   | MASS, kg. (weight, lb.)                        |        |         |  |
|   | Front  | Rear   | Total   |  |
| Sport Suspension                              | 2.8  | 4.4    | 7.2     | All models   |
| RPO F41                                       | (6.2)  | (9.7)  | (15.9)  |  |
| Engine Block Heater                           | .2   | 0      | .2      | All models   |
| RPO K05                                       | (0.4)  | (0)    | (0.4)   |  |
| Electronic Speed Control<br>with Resume Speed | 1.8  | 0      | 1.8     | All models   |
| RPO K34                                       | (4.0)  | (0)    | (4.0)   |  |
| 2.8 Liter V6 (173 CID)                        | 53.4   | 1.0    | 54.4    | All models   |
| RPO LB6                                       | (117.7)  | (2.2)  | (119.9) |  |
| Five-Speed Manual<br>Transmission             | 5.0  | -.4    | 4.6     | All models with I4 engine only                     |
| RPO MM5                                       | (11.0)   | (-0.9) | (10.1)  |  |
| Automatic Transmission                        | 27.5   | 0      | 27.5    | All models   |
| RPO MX1                                       | (60.6)   | (0)    | (60.6)  |  |
| Sport Steering Wheel                          | .2   | 0      | .2      | All 4-Door models                                  |
| RPO NK3                                       | (0.4)  | (0)    | (0.4)   |  |
| Comfortilt Steering<br>Wheel                  | .8   | .4     | 1.2     | All models   |
| RPO N33                                       | (1.8)  | (0.9)  | (2.7)   |  |
| Power Steering<br>Required with LB6 eng.      | 8.8  | .4     | 9.2     | All except convertible,<br>standard on convertible |
| RPO N40                                       | (19.4)   | (0.9)  | (20.3)  |  |
| Aluminum Wheels (.3")                         | .4   | .4     | .8      |  |
| RPO N90                                       | (0.9)  | (0.9)  | (1.8)   |  |
| Sport Wheel Covers                            | .8   | .8     | 1.6     | All except Z24 sport coupe                         |
| RPO PB2                                       | (1.8)  | (1.8)  | (3.6)   |  |
| Wheel Trim Rings                              | .4   | .4     | .8      | All models   |
| RPO P06                                       | (0.9)  | (0.9)  | (1.8)   |  |
| Heavy Duty Battery<br>(Mandatory for Canada)  | 2.8  | -.4    | 2.4     | All models   |
| RPO UA1                                       | (6.2)  | (-0.9) | (5.3)   |  |
|   |  |        |         |  |
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\*Also see Engine - General Section for dressed engine mass (weight).

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line CADILLAC  
Model Year 1985 Issued 7-84 Revised (e)

| Equipment  | Optional Equipment Differential Mass (weight)* |                |                | Remarks  |
|--|--|----------------|----------------|--|
|  | MASS. kg. (weight, lb.)                        |                |                |  |
|  | Front  | Rear           | Total          |  |
| Door Edge Guards<br>(Black) RPO B91                  | .2<br>(0.4)                                    | 0<br>(0)       | .2<br>(0.4)    |  |
| Door Edge Guards<br>(Bright) RPO B93                 | 0<br>(0)                                       | .2<br>(0.4)    | .2<br>(0.4)    |  |
| Intermittent Windshield<br>Wiper System RPO CD4      | .2<br>(0.4)                                    | 0<br>(0)       | .2<br>(0.4)    | All models   |
| Rear Window Wiper and<br>Washer RPO C25              | -.8<br>(1.8)                                   | 4.4<br>(9.7)   | 3.6<br>(7.9)   | 35 and 77 models                                   |
| Electric Rear Window<br>Defogger RPO C49             | 0<br>(0)                                       | .4<br>(0.9)    | .4<br>(0.9)    | All models except convertible                      |
| Air Conditioning<br>RPO C60                          | 19.2<br>(42.3)                                 | -1.4<br>(-3.1) | 17.8<br>(39.2) | With 4 & 5-speed Manual Trans.                     |
|  | 21.4<br>(47.2)                                 | -1.6<br>(-3.5) | 19.8<br>(43.7) | With Automatic Transmission                        |
| Rear Window Louvers<br>RPO DE1                       | -.8<br>(-1.8)                                  | 8.6<br>(18.9)  | 7.8<br>(17.1)  | Model 1JE77 only                                   |
| Front Center Armrest<br>RPO D09                      | 2.2<br>(4.8)                                   | 2.2<br>(4.8)   | 4.4<br>(9.7)   | All 2-Doors, 4-Door only with<br>full console      |
| Visor Mirror Right Hand<br>RPO D34                   | .2<br>(0.4)                                    | 0<br>(0)       | .2<br>(0.4)    | All except convertible                             |
| Sport Mirrors-Left Hand<br>Remote, RH Manual RPO D35 | .4<br>(0.9)                                    | 0<br>(0)       | .4<br>(0.9)    | All except convertible,<br>standard on convertible |
| Rear Compartment<br>Cargo Cover RPO D42              | -.4<br>(-0.9)                                  | 2.8<br>(6.2)   | 2.4<br>(5.3)   | 35 and 77 models                                   |
| Rear Spoiler (Black)<br>RPO D80                      | -.8<br>(-1.8)                                  | 3.5<br>(7.7)   | 2.7<br>(5.9)   | 2-Door models exc. convertible                     |
| Heavy Duty Front and<br>rear suspension RPO F40      | 2.0<br>(4.4)                                   | 0<br>(0)       | 2.0<br>(4.4)   | All except station wagons                          |
|  |  |                |                |  |
|  |  |                |                |  |
|  |  |                |                |  |

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

# MVMA Specifications Form

## Passenger Car

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (●)

METRIC (U.S. Customary)

### Optional Equipment Differential Mass (weight)\*

| Equipment  | MASS, kg. (weight, lb.) |               |               | Remarks   |
|--|-------------------------|---------------|---------------|---|
|  | Front                   | Rear          | Total         |   |
| Coaxial Front and Premium Rear Speakers<br>RPO U79 | .6<br>(1.3)             | 1.2<br>(2.7)  | 1.8<br>(4.0)  | 2-Door models   |
| Heavy Duty Radiator<br>RPO V01                     | 2.0<br>(4.4)            | -.4<br>(-0.9) | 1.6<br>(3.5)  | With 4 and 5-speed manual transmission and air conditioning     |
|  | 1.6<br>(3.5)            | -.2<br>(-0.4) | 1.4<br>(3.1)  | With 4 and 5-speed manual transmission and w/o air conditioning |
|  | 1.6<br>(3.5)            | -.2<br>(-0.4) | 1.4<br>(3.1)  | With automatic transmission and air conditioning                |
|  | 1.4<br>(3.1)            | -.2<br>(-0.4) | 1.2<br>(2.7)  | With automatic transmission w/o air conditioning                |
| Bumper Guards-Front and Rear<br>RPO V30            | .4<br>(0.9)             | .4<br>(0.9)   | .8<br>(1.8)   | All models  |
| Roof Carrier<br>RPO V55                            | 2.4<br>(5.3)            | 5.0<br>(11.0) | 7.4<br>(16.3) | Station wagons  |
| Rally Wheels<br>RPO ZJ7                            | 1.6<br>(3.5)            | 1.6<br>(3.5)  | 3.2<br>(7.0)  | 2-Door models   |
|  |                         |               |               |   |
|  |                         |               |               |   |
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|  |                         |               |               |   |

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

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
Model Year 1985 Issued 7-84 Revised (e)

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

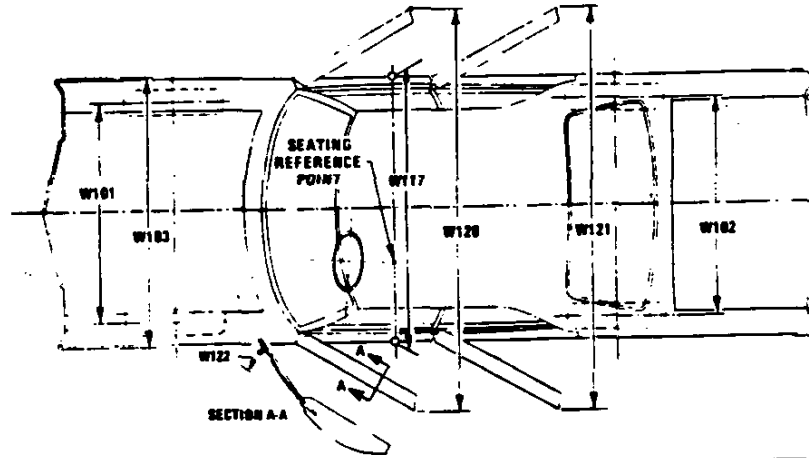
| Equipment   | Optional Equipment Differential Mass (weight)* |              |               | Remarks   |
|---|--|--------------|---------------|---|
|   | MASS, kg. (weight, lb.)                        |              |               |   |
|   | Front  | Rear         | Total         |   |
| Electronically Tuned<br>AM/FM Stereo Radio                                | 1.0<br>(2.2)                                   | .2<br>(0.4)  | 1.2<br>(2.6)  | All models  |
| with Clock RPO UL1  |  |              |               |   |
| AM/FM Stereo Radio,<br>Cassette Player-ETR                                | .8<br>(1.8)                                    | .2<br>(0.4)  | 1.0<br>(2.2)  | 1JD, 1JE00 models                                 |
| (with seek scan, with<br>clock) RPO UM6                                   | 2.2<br>(4.8)                                   | .2<br>(0.4)  | 2.4<br>(5.2)  | 1JC00 models                                      |
| AM/FM Stereo Radio-ETR<br>(w/o seek scan & clock)                         | -.2<br>(-0.4)                                  | 0<br>(0)     | -.2<br>(-0.4) | 1JD, 1JE00 models                                 |
| RPO UU9   |  |              |               |   |
|   | 1.0<br>(2.2)                                   | .2<br>(0.4)  | 1.2<br>(2.6)  | 1JC00 models                                      |
| AM/FM Stereo Radio,<br>Cassette Player-ETR                                | .8<br>(1.8)                                    | .2<br>(0.4)  | 1.0<br>(2.2)  | 1JD, 1JE00 models                                 |
| (w/seek and scan, clock<br>and graphic equalizer)                         | 2.2<br>(4.8)                                   | .2<br>(0.4)  | 2.4<br>(5.2)  | 1JC00 models                                      |
| RPO UX1   |  |              |               |   |
| Gage Package with<br>Tachometer (includes<br>pushbutton trip<br>odometer) | .4<br>(0.9)                                    | 0<br>(0)     | .4<br>(0.9)   | 1JC & 1JD00 models                                |
| RPO U21   |  |              |               |   |
| Gage Package (includes<br>new pushbutton trip<br>odometer)                | .2<br>(0.4)                                    | 0<br>(0)     | .2<br>(0.4)   | 1JC & 1JD00 models                                |
| RPO U22   |  |              |               |   |
| Cigarette Lighter and<br>Ash-Tray Lamp RPO U37                            | .2<br>(0.4)                                    | 0<br>(0)     | .2<br>(0.4)   | 1JC00 models, standard on<br>1JD00 & 1JE00 models |
| AM Radio<br>RPO U63   | 1.0<br>(2.2)                                   | .4<br>(0.9)  | 1.4<br>(3.1)  | 1JC00 models, standard on<br>1JD00 & 1JE00 models |
| Dual Rear Speakers<br>RPO U64   | 0<br>(0)                                       | 2.0<br>(4.4) | 2.0<br>(4.4)  | With monaural radios only                         |
| Premium Dual Rear<br>Speakers RPO U66                                     | 1.4<br>(3.1)                                   | 1.4<br>(3.1) | 2.8<br>(6.2)  | 4-Door models with stereo<br>radios only          |
| AM/FM Radio<br>RPO U69  | 1.2<br>(2.6)                                   | .4<br>(0.9)  | 1.6<br>(3.5)  | All models  |
| Fixed Mast Antenna<br>RPO U73   | .6<br>(1.3)                                    | 0<br>(0)     | .6<br>(1.3)   | 1JC00 models, standard on<br>1JD00 & 1JE00 models |

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

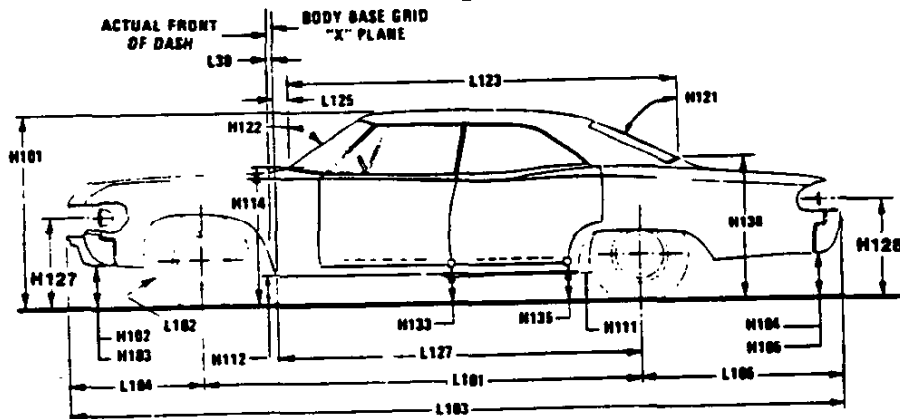
**MVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

**Exterior Car And Body Dimensions - Key Sheet**

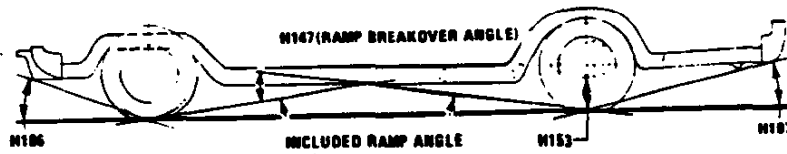
**Exterior Width**



**Exterior Length & Height**



**Exterior Ground Clearance**



**MVMA Specifications Form  
Passenger Car**

Car Line CAVALIER  
 Model Year 1985 Issued 7-84 Revised (●) \_\_\_\_\_

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

| Equipment             | Optional Equipment Differential Mass (weight)* |        |         | Remarks         |
|-----------------------|--|--------|---------|-----------------|
|                       | MASS, kg (weight, lb.)                         |        |         |                 |
|                       | Front  | Rear   | Total   |                 |
| "CL" Custom Interior  | 50.2   | 12.2   | 62.4    | TJD35 model     |
| RPO Z12               | (110.7)  | (26.9) | (137.6) |                 |
|                       |  |        |         | TJD69 model     |
|                       |  |        |         |                 |
|                       |  |        |         | TJE27 model     |
|                       |  |        |         |                 |
|                       |  |        |         | TJE77 model     |
|                       |  |        |         |                 |
| Sport Coupe Equipment | 45.8   | 6.6    | 52.4    | TJE27,77 models |
| RPO Z24               | (101.0)  | (14.5) | (115.5) |                 |
|                       |  |        |         |                 |
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\*Also see Engine - General Section for dressed engine mass (weight).



# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### 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 positions. 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 dimension 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, if standard equipment.
- 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.

# MVMA Specifications Form

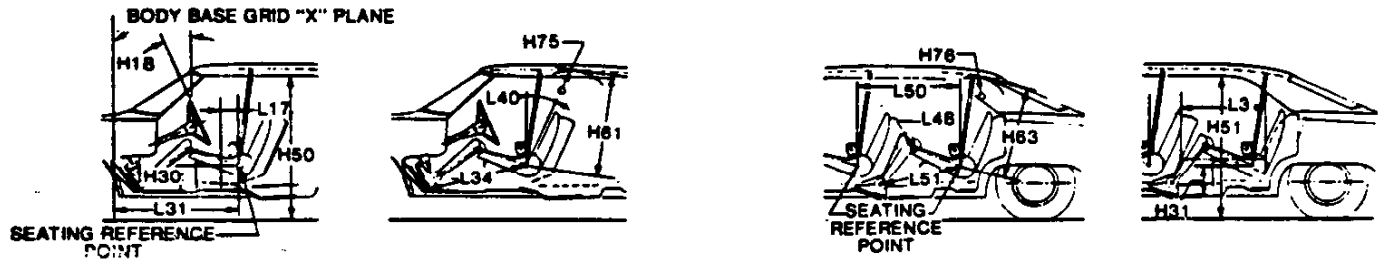
## Passenger Car

METRIC (U.S. Customary)

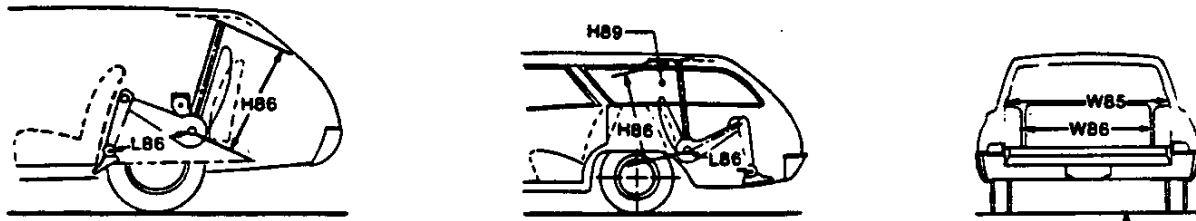
### Interior Car And Body Dimensions - Key Sheet

#### Front Compartment

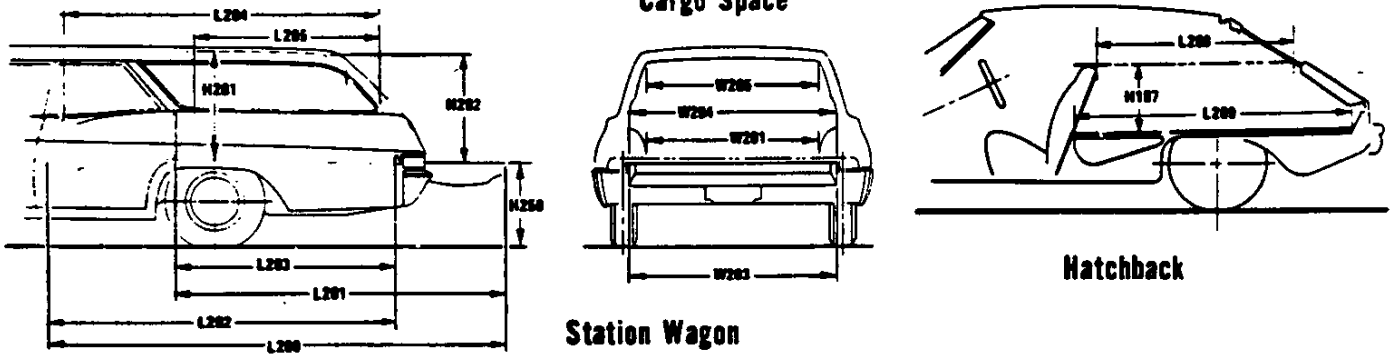
#### Rear Compartment



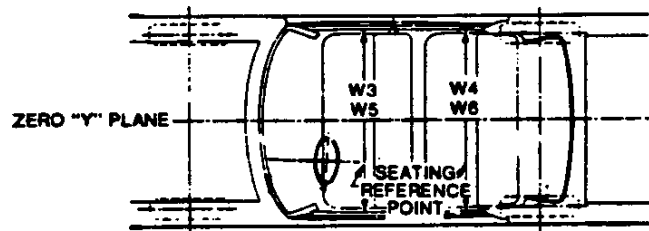
#### Third Seat



#### Cargo Space



#### Interior Width



**MVMA Specifications Form  
Passenger Car**

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

**SUPPLEMENTAL PAGE**

Car Line \_\_\_\_\_  
Model Year \_\_\_\_\_ Issued \_\_\_\_\_ Revised (●) \_\_\_\_\_

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### Interior Car And Body Dimensions - Key Sheet

#### Dimensions Definitions

#### Station wagon - Cargo Space Dimensions (con't)

- 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 wheelhouseings 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 door 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:  
$$\frac{W4 \times H201 \times L204}{1728} = \text{ft.}^3$$
  
Measured in mm:  
$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN CARGO VOLUME.** As specified by the manufacturer.

#### V10 STATION WAGON (REAR OF SECOND SEAT)

Measured in inches:

$$\frac{W4 \times H201 \times L205}{1728} = \text{ft.}^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L205}{10^9} = \text{liters}$$

#### 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.
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT:** The vertical dimension from the horizontal tangent to top of seatback to undepressed floor covering at zero "Y" plane.
- 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.
- L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT-HATCHBACK.** The horizontal dimension from the "X" plane tangent to rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.
- L211 CARGO LENGTH AT FLOOR-HATCHBACK-SECOND.** The horizontal dimension at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- V3 HATCHBACK.**

Measured in inches:

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

Measured in mm:

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

#### V11 HATCHBACK (REAR OF SECOND SEAT)

Measured in inches:

$$\frac{W4 \times H198 \times \frac{L210 + L211}{2}}{1728} = \text{ft.}^3$$

Measured in mm:

$$\frac{W4 \times H198 \times \frac{L210 + L211}{2}}{10^9} = \text{litres}$$

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### Interior Car And Body Dimensions – Key Sheet

##### Dimensions Definitions

- 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.
- H50 UPPER BODY OPENING TO GROUND—FRONT.** The dimension measured vertically from the trimmed body opening to the ground on the SgRP—front "X" plane.
- H18 STEERING WHEEL ANGLE.** The angle measured from a vertical to the surface plane of the steering wheel.
- 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.
- 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.
- L-41** Same as L-40.

#### 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.

#### Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The interior volume index estimates the space in a car. It is based on four measurements – head room, shoulder room, hip room, and leg room – for the front and rear seats, plus trunk capacity. The interior volume index is an estimate of the size of the passenger compartment.

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks, it is an estimate of the space behind the second seat.

#### 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.** Measured in the same manner as H75.
- L-88** Same as L-40.

#### Station Wagon – Cargo Space Dimensions

- L200 CARGO LENGTH—OPEN—FRONT.** The minimum dimension measured longitudinally from the back of the front