

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

Car Line \_\_\_\_\_

Model Year \_\_\_\_\_ Issued \_\_\_\_\_ Revised (\*) \_\_\_\_\_

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# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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**MVMA Specifications Form**  
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**Interior Car And Body Dimensions – Key Sheet**  
**Dimensions Definitions**

**Station Wagon – Cargo Space Dimensions**

- L200** CARGO LENGTH—OPEN—FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L201** CARGO LENGTH—OPEN—SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L202** CARGO LENGTH—CLOSED—FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203** CARGO LENGTH—CLOSED—SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204** CARGO LENGTH AT BELT—FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab back panel at the height of the belt, on the zero "Y" plane.
- L205** CARGO LENGTH AT BELT—SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201** CARGO WIDTH—WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure the sheet metal.
- W203** REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204** REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205** REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.

- H201** CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.
- H202** REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250** TAILGATE TO GROUND (CURB MASS WT). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2** STATION WAGON  
 Measured in inches:  

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

**Hatchback – Cargo Space Dimensions**

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

- H197** FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- L208** CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L209** CARGO LENGTH AT FLOOR—FRONT—HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- V3** HATCHBACK.  
 Measured in inches:  

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = \text{ft}^3$$
  
 Measured in mm:  

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

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

- H103 FRONT BUMPER TO GROUND CURB MASS (WT.). Measured in the same manner as H104.
- H104 REAR BUMPER TO GROUND The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND—CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius are the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 REAR BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

##### Front Compartment Dimensions

- PD1 PASSENGER DISTRIBUTION—FRONT.
- L31 SgRP—FRONT "X" COORDINATED.
- H61 EFFECTIVE HEAD ROOM—FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP—front to the headlining plus 102 mm (4.0 in.).
- H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).
- L34 MAXIMUM EFFECTIVE LEG ROOM—ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP—front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- H30 SgRP—FRONT TO HEEL. The dimension measured vertically from the SgRP—front to the accelerator heel point.
- L17 DESIGN H-POINT—FRONT TRAVEL The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat trace positions.
- W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within the belt line and 254 mm (10.0 in.) above the SgRP—front
- W5 HIP ROOM—FRONT The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP—front and 76 mm (3.0 in.) fore and aft the SgRP—front
- H150 UPPER BODY OPENING TO GROUND—FRONT. The dimension measured vertically from the trimmed body 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
- 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 COUPLE DISTANCE. The dimension measured horizontally from the driver SgRP—front to the SgRP—second.
- H63 EFFECTIVE HEAD ROOM—SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H76 EFFECTIVE T-POINT HEAD ROOM—SECOND. Measured in the same manner as H75.
- L51 MINIMUM EFFECTIVE LEG ROOM—SECOND The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254 mm (10.0 in.).
- H31 SgRP—SECOND TO HEEL. The dimension measured vertically from the SgRP—second to the two dimensional device heel point on the depressed floor covering
- L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).
- L3 COMPARTMENT ROOM—SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion
- W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP—second within 254-406 mm (10.0-16.0 in.) above the SgRP—second.
- W6 HIP ROOM—SECOND Measured in the same manner as W5.
- H51 UPPER BODY OPENING TO GROUND—SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP—second

##### Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY—Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8 2 of SAE-J1100a
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

##### Station Wagon — Third Seat Dimensions

- PD3 PASSENGER DIRECTION—THIRD.
- W85 SHOULDER ROOM—THIRD Measured in the same manner as W5.
- W86 HIP ROOM—THIRD Measured in the same manner as W5
- L86 EFFECTIVE LEG ROOM—THIRD The dimension measured along a line from the ankle pivot center to the SgRP—third plus 254 mm (10.0 in.)
- H86 EFFECTIVE HEAD ROOM—THIRD The dimension, measured along a line 8 deg. from the SgRP—third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.)
- H89 EFFECTIVE T-POINT HEAD ROOM—THIRD. Measured in the same manner as H75.

# 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 position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.  
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

##### Length Dimensions

- L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero "X" plane.
- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L102 TIRE SIZE. As specified by the manufacturer.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.
- L104 OVERHANG—FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

- L105 OVERHANG—REAR. The dimension measured longitudinally from the centerline of the rear wheels, or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.
- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.
- L125 COWL POINT "X" COORDINATE.

##### Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H112 ROCKER PANEL—FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H132 BOTTOM OF DOOR OPEN—FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H111 ROCKER PANEL—REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H134 BOTTOM OF DOOR OPEN—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.
- H135 BOTTOM OF DOOR CLOSED—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield are running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.
- H127 HEADLAMP TO GROUND—CURB MASS (WT). The 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.

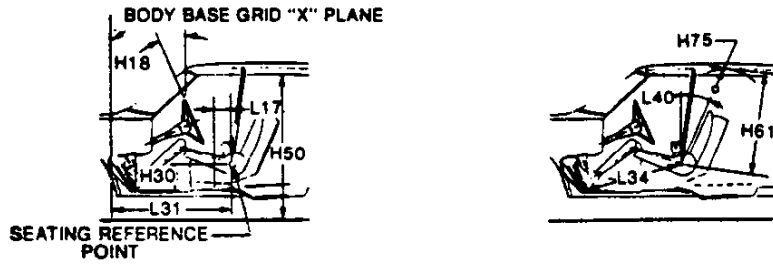
##### Ground Clearance Dimensions

- 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.

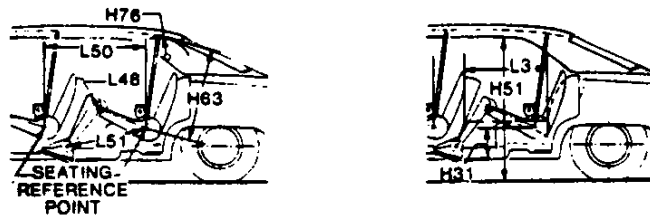
**IVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

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

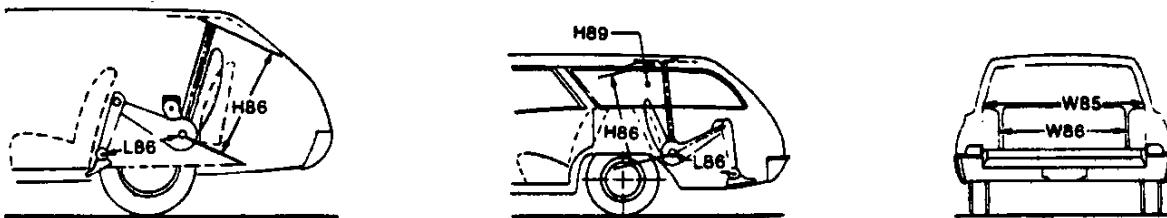
**Front Compartment**



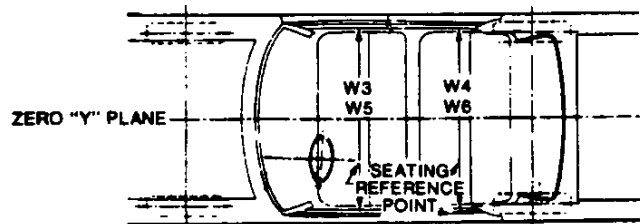
**Rear Compartment**



**Third Seat**



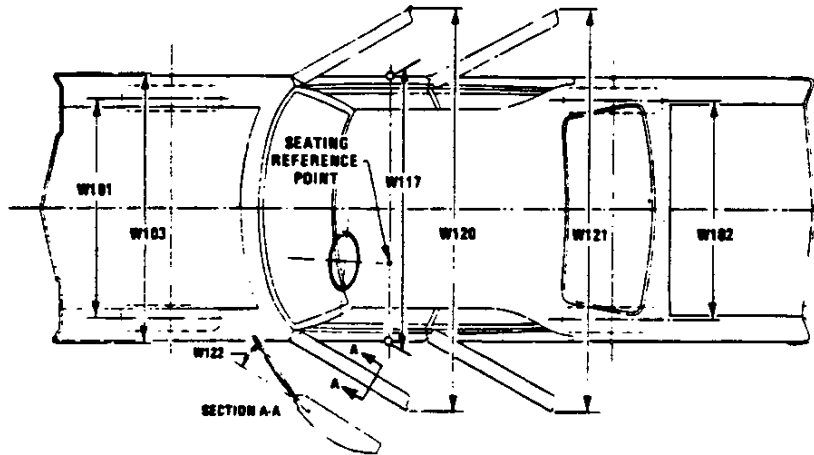
**Interior Width**



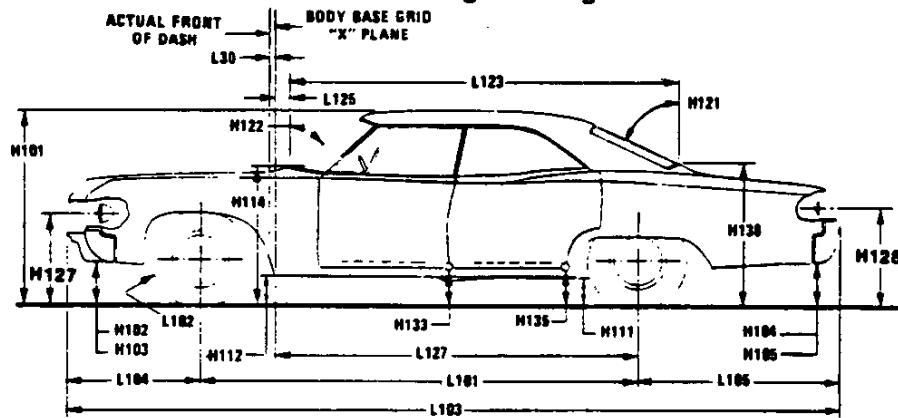
**MVMA Specifications Form**  
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**Exterior Car And Body Dimensions – Key Sheet**

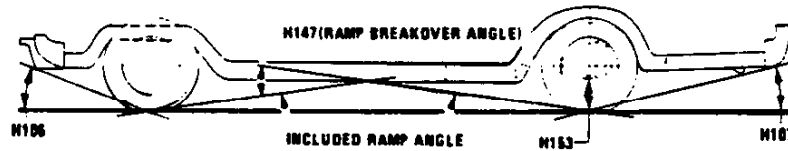
**Exterior Width**



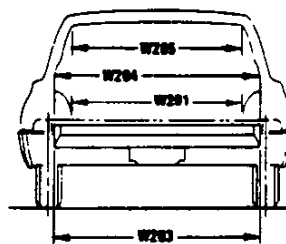
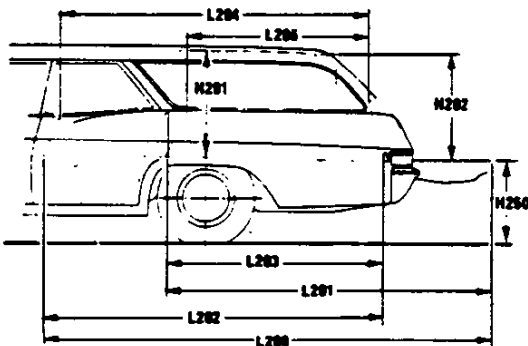
**Exterior Length & Height**



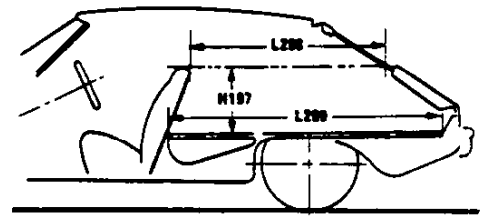
**Exterior Ground Clearance**



**Cargo Space**



**Station Wagon**



**Hatchback**





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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*)

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
Special Instrumentation (Gauge Package with tachometer, includes trip odometer) RPO-U21	.4 (0.9)	0 (0)	.4 (0.9)	All models  1JE77 model
Gauge Package (Includes trip odometer RPO-U22)	.2 (0.4)	0 (0)	.2 (0.4)	All models
Cigarette Lighter RPO-U37	.2 (0.4)	0 (0)	.2 (0.4)	1JC00 models, standard on 1JD00 & 1JE00 models
AM Radio RPO-U63	1.0 (2.2)	.4 (0.9)	1.4 (3.1)	1JC00 models only
Premium Dual Rear Speakers RPO-U66	0 (0)	2.0 (4.4)	2.0 (4.4)	All models
AM/FM Radio RPO-U69	.2 (0.4)	0 (0)	.2 (0.4)	1JD00 & 1JE00 models
	1.2 (2.6)	.4 (0.9)	1.6 (3.5)	1JC00 models
Fixed Mast Antenna RPO-U73	.6 (1.3)	0 (0)	.6 (1.3)	1JC00 models
Heavy Duty Radiator RPO-V01	2.0 (4.4)	-.4 (-0.9)	1.6 (3.5)	All models with 4&5-spd Manual Transmissions & Air Conditioning
	1.6 (3.5)	-.2 (-0.4)	1.4 (3.1)	All models with 4&5-spd Manual Transmissions w/o Air Conditioning
	1.4 (3.1)	-.2 (-0.4)	1.2 (2.7)	All models with Automatic Transmission w/o Air Conditioning
	1.6 (3.5)	-.2 (-0.4)	1.4 (3.1)	All models with Automatic Transmission & Air Conditioning
Bumper Guards-Front & Rear RPO-V30	.4 (0.9)	.4 (0.9)	.8 (1.8)	All models

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





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Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) \_\_\_\_\_

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS. kg. (weight, lb.)			
	Front	Rear	Total	
Door Edge Guards	0	.2	.2	All models
RPO-B91/B93	(0)	(0.4)	(0.4)	
Intermittent Windshield	.2	0	.2	All models
Wiper System RPO-CD4	(0.4)	(0)	(0.4)	
Rear Window Wiper and Washer	-.8	4.4	3.6	Models 1JC & 1JD35, 1JE77
RPO-C25	(-1.8)	(9.7)	(7.9)	
Electric Rear Window Defogger	0	.8	.8	All models except convertible
RPO-C49	(0)	(1.8)	(1.8)	
Air Conditioning	25.0	-1.8	23.2	With 4 & 5-speed Manual Trans.
RPO-C60	(55.1)	(-4.0)	(51.1)	
	27.2	-2.0	25.2	With Automatic Transmission
	(60.0)	(-4.4)	(55.6)	
Rear Window Louvers	-.8	8.6	7.8	Model 1JE77 only
RPO-DE1	(-1.8)	(19.0)	(17.2)	
Visor Mirror Right Hand	.2	0	.2	All models
RPO-D34	(0.4)	(0)	(0.4)	
Sport Mirrors-Left Hand Remote & RH Manual	.4	0	.4	All models included with convertible
RPO-D35	(0.9)	(0)	(0.9)	
Rear Compartment Cargo Cover	-.2	2.6	2.4	Models 1JC & 1JD35, 1JE77
RPO-D42	(-0.4)	(5.7)	(5.3)	
Rear Spoiler	-.6	2.6	2.0	Models 1JE77 & 1JE77
RPO-D80	(-1.3)	(5.7)	(4.4)	
High Duty Suspension	2.0	0	2.0	All models except 1JC & 1JD35
RPO-F40	(4.4)	(0)	(4.4)	
Sport Suspension	2.0	1.4	3.4	All models
RPO-F41	(4.4)	(3.1)	(7.5)	
Engine Block Heater	.2	0	.2	All models
RPO-K05	(0.4)	(0)	(0.4)	

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

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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*)

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg (weight, lb.)			
	Front	Rear	Total	
Removable Sun Roof RPO-AD3	2.6 (5.7)	3.0 (6.6)	5.6 (12.3)	All except wagons and convertible
Six Way Power Seat-Driver RPO-AG9	1.8 (4.0)	2.0 (4.4)	3.8 (8.4)	All models
Split Folding RR Seatback RPO-AM9	.2 (0.4)	1.0 (2.2)	1.2 (2.6)	1JC & 1JD35, 1JE77 models
Power Door Lock System RPO-AU3	.6 (1.3)	1.2 (2.7)	1.8 (4.0)	2-Door models
	1.2 (2.6)	1.8 (4.0)	3.0 (6.6)	4-Door models
Power Liftgate Release RPO-AU6	-.2 (-0.4)	1.0 (2.2)	.8 (1.8)	1JC & 1JD35 models
Power Windows RPO-A31	1.4 (3.1)	2.2 (4.8)	3.6 (7.9)	2-Door models
	1.8 (4.0)	3.2 (7.0)	5.0 (11.0)	4-Door models
Power Trunk Opener RPO-A90	-.2 (-0.4)	1.0 (2.2)	.8 (1.8)	1JC & 1JD69, 1JE27, 1JE77
Floor Mats-Front Only RPO-B32	2.0 (4.4)	.4 (0.9)	2.4 (5.3)	All models
Floor Mats-Rear Only RPO-B33	.4 (0.9)	.8 (1.8)	1.2 (2.7)	All models
Body Side Moldings RPO-B84	.8 (1.8)	1.4 (3.1)	2.2 (4.9)	1JC35 model. Standard on 1JD35 & 1JD69 models.
	.8 (1.8)	1.0 (2.2)	1.8 (4.0)	1JC69 model
Exterior Ornamentation Wheel Opening/Rocker Panel Moldings RPO-B9L/B9M	.4 (0.9)	.4 (0.9)	.8 (1.8)	All models

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

**AVMA Specifications Form**  
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Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

**Vehicle Mass (weight)**

Model	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING MASS, kg. (weight, lb.)**
	Front	Rear	Total	Pass In Front		Pass In Rear		
				Front	Rear	Front	Rear	
Cavalier								
4-Door Notchback Sedan 1JC69	686.2 (1513)	397.4 (876)	1083.6 (2389)					1052.4 (2320)
4-Door Liftback Wagon 1JC35	680.3 (1500)	436.1 (961)	1116.4 (2461)					1085.2 (2392)
Cavalier "CS"								
4-Door Notchback Sedan 1JD69	690.3 (1522)	399.6 (881)	1089.9 (2403)					1058.7 (2334)
4-Door Liftback Wagon 1JD35	683.9 (1508)	438.3 (966)	1122.2 (2474)					1091.0 (2405)
Cavlier "Type 10"								
2-Door Notchback Coupe 1JE27	687.6 (1516)	386.8 (853)	1074.4 (2369)					1043.2 (2300)
2-Door Hatchback Coupe 1JE77	692.8 (1527)	404.2 (891)	1097.0 (2418)					1065.8 (2350)
2-Door Convertible 1JE27 w/RPO Z08	758.2 (1671)	413.9 (912)	1172.1 (2584)					1140.9 (2515)
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

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) \_\_\_\_\_

Body Type

	NOTCHBACK	CONVERTIBLE	HATCHBACK	NOTCHBACK	LIFTBACK
SAE Ref. No.	COUPE 1JE27	COUPE 1JE27W/Z08	COUPE 1JE77	SEDANS 1JC&1JD69	STATION WAGONS 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)
	Taillamp (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)			
	Taillamp	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.

# 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	NOTCHBACK COUPE 1JE27	CONVERTIBLE COUPE 1JE27 w/Z08	HATCHBACK COUPE 1JE77	NOTCHBACK SEDANS 1JC & 1JD69	LIFTBACK STATION WGNs. 1JC & 1JD35
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## 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 - front, measured horizontally from base grid line to rear fiducial mark located on rear underbody crossbar.	
	Y	Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rear underbody crossbar.	
	Z	Fiducial mark to horizontal base grid line - rear, measured vertically from base grid line to the rear fiducial mark located on rear underbody crossbar.	
Front	W21	504 (19.8)	
	L54	2746 (108.1)	
	H81	246 (9.7)	
	H161	Curb 293 (11.5)	300 (11.8)
	** H163	269 (10.6)	278 (10.9)
Rear	W22	440 (17.3)	
	L55	4900 (192.9)	4951 (194.9)
	H82	362 (14.3)	
	H162	Curb 413 (16.3)	429 (16.9)
	** H164	381 (15.0)	401 (15.8)

\* 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 and Body Dimensions See Key Sheets for definitions

Car Line CAVALIER  
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Body Type	SAE Ref. No.	HATCHBACK COUPE 1JE77	LIFTBACK WAGONS 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	

### 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		980 (38.6)
Cargo length at belt (front)	L204		1581 (62.2)
Cargo length at belt (second)	L205	NOT	837 (33.0)
Cargo width (wheelhouse)	W201	APPLICABLE	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		553 (21.8)
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		--

### Hatchback - Cargo Space

Front seat back to load floor height	H197	595 (23.4)	
Cargo length at front seat back height	L208	1124 (44.3)	NOT
Cargo length at floor (front)	L209	1621 (63.8)	APPLICABLE
Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]	V3	1089 (38.5)*	
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4	--	

### Aerodynamics\*

Wheel lip to ground, front		Not Available
Wheel lip to ground, rear		Not Available
Frontal area		Not Available

\* Describe measurement method.

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

All dimensions are in millimeters (inches).

\* V-11 - Hatchback, cargo volume index - second seat-up, 452 (16.0)

\*\* V-10 - Station Wagon, cargo volume index - second seat-up, 966 (34.1)

**MVMA Specifications Form**  
**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 SEDANS 1JC & 1JD69	LIFTGATE STATION WAGONS 1JC & 1JD35

**Front Compartment**

Sg RP front, "X" coordinate	L31	1113 (43.8)	
Effective head room	H61	979 (38.5)	976 (38.4)
Max. eff. leg room (accelerator)	L34	1072 (42.2)	
Sg RP (front to heel)	H30	256 (10.1)	
Design H-point front travel	L17	192 (7.6)	
Shoulder room	W3	1363 (53.7)	
Hip room	W5	1241 (48.9)	
** Upper body opening to ground	H50	1239 (48.8)	1250 (49.2)
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	961 (37.8)	989 (38.9)
Min. effective leg room	L51	871 (34.3)	857 (33.7)
Sg RP (second to heel)	H31	271 (10.7)	259 (10.2)
Knee clearance	L48	18 (0.7)	2 (0.1)
Compartment room	L3	654 (25.7)	660 (26.0)
Shoulder room	W4	1364 (53.7)	
Hip room	W6	1242 (48.9)	1244 (49.0)
** Upper body opening to ground	H51	1254 (49.4)	1254 (49.4)

**Luggage Compartment**

Usable luggage capacity (L. cu. ft.)	V1	386 (13.6)	--
** Lifter height	H195	830 (32.7)	553 (21.8)

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

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 COUPE	CONVERTIBLE COUPE	HATCHBACK COUPE
	1JE27	1JE27 w/RPO Z08	1JE77

**Front Compartment**

Sg RP front, "X" coordinate	L31	1113 (43.8)		
Effective head room	H61	957 (37.7)	978 (38.5)	955 (37.6)
Max. eff. leg room (accelerator)	L34	1070 (42.1)	1071 (42.2)	1070 (42.1)
Sg RP (front to heel)	H30	233 (9.2)		
Design H-point front travel	L17	192 (7.6)		
Shoulder room	W3	1363 (53.7)	1364 (53.7)	1363 (53.7)
Hip room	W5	1248 (49.1)	1230 (48.4)	1248 (49.1)
** Upper body opening to ground	H50	1239 (48.8)		
Steering wheel angle	H18	20.0°		
Back angle	L40	25.0°		

**Rear Compartment**

Sg RP Point couple distance	L50	720 (28.3)		715 (28.1)
Effective head room	H63	927 (36.5)	948 (37.3)	926 (36.5)
Min. effective leg room	L51	806 (31.7)	791 (31.1)	805 (31.7)
Sg RP (second to heel)	H31	259 (10.2)		254 (10.0)
Knee clearance	L48	-15 (-0.6)	-18 (-0.7)	-24 (-0.9)
Compartment room	L3	627 (24.7)	460 (18.1)	623 (24.5)
Shoulder room	W4	1334 (52.5)	964 (38.0)	1334 (52.5)
Hip room	W6	1265 (49.8)	964 (38.0)	1247 (49.1)
** Upper body opening to ground	H51	--		

**Luggage Compartment**

Usable luggage capacity [L (cu. ft.)]	V1	374 (13.2)	301 (10.6)	--
** Liftover height	H195	823 (32.4)		827 (32.6)

All linear dimensions are in millimeters (inches).

\*\* EPA Loaded Vehicle Weight, Loading Conditions

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

# MVMA Specifications Form Passenger Car

Car Line CAVALIER  
Model Year 1984 Issued 7-83 Revised (\*) \_\_\_\_\_

## 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 SEDANS 1JC & 1JD69	LIFTGATE STATION WAGONS 1JC & 1JD35

### Width

Item	SAE Ref. No.	Value (mm)	Value (in)
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

Item	SAE Ref. No.	Value (mm)	Value (in)
Wheelbase	L101	2571	(101.2)
Vehicle length	L103	4428.0	(174.3)
Overhang (front)	L104	896.5	(35.3)
Overhang (rear)	L105	960.5	(37.8)
Upper structure length	L123	2365	(93.1)
Rear wheel C/L "X" coordinate	L127	2354	(92.7)
Cowl point "X" coordinate	L125	246	(9.7)

### Height \*\*

Item	SAE Ref. No.	Value (mm)	Value (in)
Passenger distribution (f/r/r)	PD1,2,3		**
Trunk/cargo load			**
Vehicle height	H101	1366	(53.8)
Cowl point to ground	H114	917	(36.1)
Deck point to ground	H138		
Rocker panel-front to ground	H112	219	(8.6)
Bottom of door closed-front to grd	H133	287	(11.3)
Rocker panel-rear to ground	H111	210	(8.3)
Bottom of door closed-rear to grd	H135	287	(11.3)

### Ground Clearance \*\*

Item	SAE Ref. No.	Value (mm)	Value (in)
Front bumper to ground	H102	370	(14.6)
Rear bumper to ground	H104	340	(13.4)
Bumper to ground (front at curb mass (wt I))	H103	387	(15.2)
Bumper to ground (rear at curb mass (wt I))	H105	374	(14.7)
Angle of approach	H106	26.4°	26.3°
Angle of departure	H107	19.4°	19.1°
Ramp breakover angle	H147	16.1°	17.1°
Rear axle differential to ground	H153	--	
Min running ground clearance	H156	137	(5.4)
Location of min run grd clear		Rear stabilizer bracket	

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

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

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

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

Car Line CAVALIER

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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 1JE27	CONVERTIBLE COUPE 1JE27 w/RPO Z08	HATCHBACK COUPE 1JE77
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#### 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	2336 (92.0)		2799 (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	1318 (51.9)	1339 (52.7)	1314 (51.7)
Cowl point to ground	H114	917 (36.1)		
Deck point to ground	H139			
Rocker panel-front to ground	H112	219 (8.6)		
Bottom of door closed-front to grd.	H133	287 (11.3)		
Rocker panel-rear to ground	H111	210 (8.3)		
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	341 (13.4)		340 (13.4)
Bumper to ground (front at curb mass (wt.))	H103	387 (15.2)		382 (15.0)
Bumper to ground (rear at curb mass (wt.))	H105	374 (14.7)		373 (14.7)
Angle of approach	H106	26.4°		
Angle of departure	H107	18.7°		
Ramp breakover angle	H147	16.1°		
Rear axle differential to ground	H153	--		
Min. running ground clearance	H156	137 (5.4)		
Location of min. run. grd. clear		Rear stabilizer bracket		

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

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

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

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Body Type	NOTCHBACK COUPE 1JE27	CONVERTIBLE COUPE 1JE27 w/Z08	HATCHBACK COUPE 1JE77	NOTCHBACK SEDANS 1JC & 1JD69	LIFTBACK STATION WGN. 1JC & 1JD35
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**Convenience Equipment**

Power windows	Side windows	Optional
	Vent windows	Not Available
	Backlight or tailgate	Not Available
Power seats (specify type as well as availability)		Optional, six-way power seat-driver
Reclining front seat back (r-l or both)		Standard-both
Radio (specify type as well as availability)		Optional - AM Pushbutton 1JC00 models only (Base 1JD00, 1JE00 models) Optional - AM/FM Pushbutton
Premium sound system (specify)		AM/FM stereo (ETR), AM/FM stereo (ETR full feature) w/cassette tape, AM/FM stereo (ETR min. feature) w/cassette tape. @
Rear seat speaker		Optional - Dual rear speakers, available with monaural radios Optional - Premium dual rear speakers (ERS) - stereo radios -
Power antenna		Not available (included with full feature ETR)
Clock		Digital, not avail separately (included with stereo radios only)
Air conditioner (specify type)		Optional (manual control)
Speed warning device		Not Available
Speed control device		Optional
Ignition lock lamp		Not Available
Dome lamp		Standard
Glove compartment lamp		(b)
Luggage compartment lamp		(b)
Underhood lamp		(b)
Courtesy lamp		(b)
Map lamp		Optional in dome-lamp
Cornering lamp		Not Available
Rear window defroster electrically heated		Optional
Rear window defogger		Not Available
T-bar roof (describe)		Not Available
Sun roof (describe)		Optional (exc wagon) - removable
Theft protection-type		Lock mounted on steering column: locks steering wheel, automatic transmission shift levers and ignition. Plus: anti-theft design door lock buttons, interior hood release, lockable glove box (exc 1JC00)
		(b) Avail in opt. lighting package only, consists of following: Headlamp 'on' warning chimes, ash tray lamp & cigarette lighter Luggage compartment lamp (exc 35 models) on 1JC00 Engine compartment lamp Glove compartment lamp Courtesy lamp Dome reading lamp Rear courtesy lamp on 35, 77 models @ All stereo equip. includes integral digital clock # All radio equip. includes dual front speakers

# 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

SAE Ref. No.	NOTCHBACK COUPE	CONVERTIBLE COUPE	HATCHBACK COUPE	NOTCHBACK SEDANS	LIFTBACK STATION WGNs.
	1JE27	1JE27 w/Z08	1JE77	1JC & 1JD69	1JC & 1JD35

### Restraint System

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

**MVMA Specifications Form**  
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Car Line CAVALIER  
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Body Type	NOTCHBACK SEDAN 1JC & 1JD69	LIFTGATE STATION WAGON 1JC & 1JD35
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**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.)	Electrical-Optional	
Bumper front	Bar material & mass (wt.)	2.40mm (0.09 in) HSLA steel/8.840 kg (19.5 lbs.)	
	Reinforcement material & mass (wt.)	--	
Bumper rear	Bar material & mass (wt.)	2.40mm(0.09 in)/1JC&1JD69-11.044 kg(24.3 lbs), 1JC & 1JD35-	
	Reinforcement material & mass (wt.)	-- 10.213 kg(22.5 lbs.)	
Vent window control (crank, friction, pivot, power)	Front	None	
	Rear	None	
Seat cushion type	Front	Polyurethane padding	
	Rear	Polyurethane padding	
	3rd seat	None	
Seat back type	Front	Polyurethane padding	
	Rear	Polyurethane padding	
	3rd seat	None	
Vehicle ident. no location		Top left hand of instrument panel pad (A) Two-telescoping gas struts.	

**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> ))	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	



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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Body Type	NOTCHBACK	CONVERTIBLE	HATCHBACK
	COUPE	COUPE	COUPE
	1JE27	1JE27 w/RPO-Z08	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-Optional	
Bumper front	Bar material & mass (wt.)	2.40 mm (0.09 in) HSLA steel/8,840 kg (19.5 lbs.)	
	Reinforcement material & mass (wt.)	--	
Bumper rear	Bar material & mass (wt.)	2.40 mm (0.09 in) HSLA steel/11,044 kg (24.3 lbs.)	
	Reinforcement material & mass (wt.)	--	
Vent window control (crank, friction, pivot, power)	Front	None	
	Rear	None	
Seat cushion type	Front	Polyurethane padding	
	Rear	Polyurethane padding	
	3rd seat	--	
Seat back type	Front	Polyurethane padding	
	Rear	Polyurethane padding	
	3rd seat	--	
Vehicle ident. no. location		Top left hand of instrument panel pad	

**Frame**

(A) Two-telescoping gas struts	
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°	70.0°
Windshield slope angle (deg.)	H122	58.0°	58.8°	58.0°
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> )]	S2	10910 (1691.0)		11478 (1779.1)
Backlight glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]	S3	5154 (798.9)		8685 (1346.2)
Total glass exposed surface area [cm <sup>2</sup> (in. <sup>2</sup> )]	S4	23551 (3650.4)		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 1984 Issued 7-83 Revised (\*) 9-83

Engine Description/Carb.  
 Engine Code

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

**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 -20°F	305 @ -20°F
Motor drive	Engagement type	Solenoid
	Pinion engages from (front, rear)	Front

**Electrical - Ignition System**

Type	Conventional (std., opt., n.a.)	Not Available	
	Electronic (std., opt., n.a.)	Not Available	
	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	
	Thread (mm)	M14x1.25	
	Tightening torque (N-m (lb. ft.))	9-20 (7-15)	
	Gap	.9 (.035)	
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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**MVMA Specifications Form**  
**Passenger Car**  
**(METRIC (U.S. Customary))**

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Body Type And/Or  
 Engine Displacement

NOTCHBACK COUPE 1JE27	HATCHBACK COUPE 1JE77	NOTCHBACK SEDANS 1JC & 1JD69	LIFTGATE WAGONS 1JC & 1JD35
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**Wheel Alignment**

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	Not adjustable
		Camber (deg.)	+ .60° +/- .50°
		Toe-in	.125° toe-out +/- .125°
	Service reset*	Caster	Not adjustable
		Camber	+ .60° +/- .50°
		Toe-in	.125° toe-out +/- .125°
	Periodic M.V. inspection	Caster	Not adjustable
		Camber	--
		Toe-in	--
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	Not Applicable
		Toe-in [outside track-mm (in.)]	Not Applicable
	Service reset*	Camber	Not Applicable
		Toe-in	Not Applicable
	Periodic M.V. inspection	Camber	Not Applicable
		Toe-in	Not Applicable

\* indicates pre-set, adjustable, trend set or other

**Electrical - Instruments and Equipment**

Speed-ometer	Type	Circular dial with pointer
	Trip odometer (std., opt., n.a.)	Optional
EGR maintenance indicator		Not Available
Charge indicator	Type	Tell-Tale Warning Light
	Warning device	Not Available
Temperature indicator	Type	Tell-Tale Warning Light
	Warning device	Not Available
Oil pressure indicator	Type	Tell-Tale Warning Light
	Warning device	Not Available
Fuel indicator	Type	Electric gauge with pointer
	Warning device	Not Available
Wind-shield 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> )]	Coupe 4900 (759.7), sedan & wagon 4937 (765.4)
Wind-shield washer	Type (standard)	Push-button
	Type (optional)	Not Available
	Fluid level indicator	Not Available
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  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Body Type And/Or  
 Engine Displacement

NOTCHBACK COUPE 1JE27	HATCHBACK COUPE 1JE77	NOTCHBACK SEDANS 1JC & 1JD69	LIFTGATE WAGONS 1JC & 1JD35
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**Steering**

Manual (std., opt., n.a.)		Standard	
Power (std., opt., n.a.)		Optional	
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt	
	(Std., opt., n.a.)	Optional	
Wheel diameter	Manual	375 mm (14.8 in.)	
	Power	375 mm (14.8 in.)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	--
		Curb to curb (l. & r.)	10.59 mm (34.74 ft.)
	Inside rear	Wall to wall (l. & r.)	Not Available
		Curb to curb (l. & r.)	Not Available
Scrub Radius		Not Available	
Manual	Gear	Type	Rack and pinion
		Make	Saginaw Steering Gear
		Ratios	Gear
	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		Not Available	
Wheel spindle	Diameter	Inner bearing	Not Available
		Outer bearing	Not Available
	Thread (size)		M20 x 1.5
	Bearing (type)		Integral double row ball, permanently lubricated

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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*)

Body Type And/Or  
 Engine Displacement

Notchback Coupe 1JE27	Hatchback Coupe 1JE77	Notchback Sedans 1JC & 1JD69	Liftback Wagons 1JC & 1JD35
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**Tires And Wheels (Standard)**

Tires	Size (load range, ply)		P175/80R-13 BW
	Type (bias, radial, etc.)		Glass Belted Radial
	Inflation pressure (cold) for recommended max vehicle load	Front [kPa (psi)]	240 (35)
		Rear [kPa (psi)]	240 (35)
Rev./mile—at 70 km/h (45 mph)		540	
Wheels	Type & material		Steel
	Rim (size & flange type)		13x5
	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.
Type (bias, radial, etc.)		Glass Belted Radial
Wheel (type & material)		Steel
Rim (size, flange type and offset)		13 x 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 (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

(+) 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)	--

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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Body Type And/Or  
 Engine Displacement

NOTCHBACK COUPE 1JE27	HATCHBACK COUPE 1JE77	NOTCHBACK SEDANS 1JC & 1JD69	LIFTGATE WAGONS 1JC & 1JD35
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**Brakes - Service**

Description		Single caliper disc front, duo-servo drum rear			
Brake type (std., opt., n.a.)	Front (disc or drum)	Disc			
	Rear (disc or drum)	Drum			
Self-adjusting (std., opt., n.a.)		Standard			
Special valving	Type (proportion, delay, metering, other)	Proportioning, Diagonal split circuit.			
Power brake (std., opt., n.a.)		Standard			
Booster type (remote, integral, vac., hyd., etc.)		Single or tandem vacuum depending on mass			
Vacuum source (inline, pump, etc.)		Inline (intake manifold)			
Vacuum reservoir (volume in. <sup>3</sup> )		None			
Vacuum pump-type (elec., gear driven, belt driven, if other so state)		None			
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	Outer working 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 (nominal)	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 per shoe		F/R	Self adjusting		
Brake lining	Front 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 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 thickness.

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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Body Type And/Or  
 Engine Displacement

NOTCHBACK COUPE 1JE27	HATCHBACK COUPE 1JE77	NOTCHBACK SEDANS 1JC & 1JD69	LIFTGATE WAGONS 1JC & 1JD35
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**Suspension - General**

Car leveling	Std./opt./n.a.	None
	Type (air, hyd., etc.)	None
	Manual/auto controlled	None
Provision for brake dip control		Front suspension geometry
Provision for accel. squat control		Rear suspension geometry
Special 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	Not Available
	Rod diameter	13.49 (0.53)

**Suspension - Front**

Type and description		MacPherson with coil springs, stamped lower control arms and nodular iron steering knuckles.
Travel	Full jounce	92.0 mm (3.62 in)
	Full rebound	86.0 mm (3.39 in)
Spring	Type (coil, leaf, other)	Coil
	Material	Steel
	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
	Rate at wheel [N/mm (lb./in.)]	17.2 (98.0) Base, 19.9 (114.0) F40 & F41
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel, 24.0 (.94)   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	Not Applicable
	Full rebound	99.0 mm (3.9 in)
Spring	Type (coil, leaf, other)	107.0 mm (4.2 in)
	Material	Progressive - rate coil
	Size (length x width, coil design height & i.d., bar length & dia.)	Steel
	Spring rate [N/mm (lb./in.)]	290 (11.42) x 105 (4.13) x 2626 (103.4) x 13.6 (.54)
	Rate at wheel [N/mm (lb./in.)]	23(131)Base, F40&F41-28(160)Sedans&Coupes 38.8(222.0)Base Wag
	Rate at wheel [N/mm (lb./in.)]	14.6(83)Base, F40&F41-16.7(95)Sedans&Cpes 17.9(102.0)Base Wag
	Mounting insulation (type)	Rubber - top & bottom
Stabilizer	ii leaf	No of leaves
		Shackle (comp or tens.)
	Type (link, linkless, frameless)	Not Applicable
Stabilizer	Type (link, linkless, frameless)	Linkless function performance by axle beam
	Material & bar diameter	Steel 21.0 mm ( ) Sedans & Coupes. 19.0 mm ( ) Wagons
Track bar (type)		Transverse beam design; 30 (1.18)

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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Engine Description/Carb.  
 Engine Code

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

**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
	Spline 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	
	Lubric. (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



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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Engine Description/Carb.  
 Engine Code

2.0 Liter L-4 (121 CID)  
 Electronic Fuel Injection  
 RPO L05

**Automatic Transmission/Transaxle**

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

**Axle or Front Wheel Drive Unit**

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

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

Axle ratio (or overall top gear ratio)		2.84	3.32 NA	3.33	3.83	4.10
No of teeth	Pinion or drive gr.	33	--	33	--	--
	Ring gear or driven gr.	37	--	37	--	--
Ring gear or driven gr. o.d.		195.2				
Transaxle	Transfer gear ratio	1.0	0.81	1.0	.74	.81
	Final drive ratio	3.18	2.69	3.73	2.83	3.32

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

Car Line CAVAILIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Engine Description/Carb.  
 Engine Code

2.0 Liter L4 (121 CID)  
 Electronic Fuel Injection  
 RPO L05

**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	3.91	
	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		Manual 4-Speed	Manual 5-Speed
Type pressure plate springs		Borg & Beck, dry disc	Isuzu, dry disc
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	14049775	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	8.128 (.320)	7.8 (.307)
Engagement cushion method	Driven plate wave spoke springs	Not Available	
Release bearing	Type & method of lubrication	Ball thrust - prepacked and sealed	Not Available
Torsional damping	Method springs, friction material	Coil springs and metal-to-metal friction	Not Available

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

Model Year 1984 Issued 7-83 Revised (\*) 9-83

Engine Description/Carb. Engine Code

2.0 Liter L-4 (121 CID)  
Electronic Fuel Injection  
RPO 105

**Vehicle Emission Control**

Exhaust Emission Control	Type (air injection, engine modifications, other)		CCC control with pulse air
	Air Injection	Pump or pulse	None
		Driven by	Exhaust pulses
		Air distribution (head, manifold, etc.)	Separate manifold
		Point of entry	Exhaust manifold
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow
		Exhaust source	Exhaust manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet manifold
	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	--
Electronic system	Vapor storage provision		Canister
	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)*
	Material	*
Intermediate pipe	o.d. & wall thickness	50.8 (2.0)
	Material	Aluminum coated steel
Tail pipe	o.d. & wall thickness	57.15 x 1.09 (2.25 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**  
**METRIC (U.S. Customary)**

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

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	M'gr.	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))		51.5 (13.6)
Location (describe)		Underside - rear center
Attachment		Underbody strap
Material		Steel
Filler 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))	Not Available
	Location & material	Not Available
	Attachment	Not Available
Auxiliary tank	Opt. n.a	Not Available
	Capacity (L (gallons))	Not Available
	Location & material	Not Available
	Attachment	Not Available
	Selector switch or valve	Not Available
	Separate fill	Not Available

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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Engine Description/Carb.  
 Engine Code

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

**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	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													
Radiator core [type (cross-flow vertical cellular tube and fin, other) and material]		Cross-flow, copper-brass, high efficiency radiator													
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	Std., A/C, HD	Auto	Std.	Auto	A/C	Auto	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	430.0	500.0	430.0	500.0	430.0	500.0
	Height	387.5	387.5	387.5	387.5	380.5	380.5	387.5	387.5	380.5	380.5	387.5	387.5	380.5	380.5
	Thickness	25.0	25.0	40.2	40.2	25.0	25.0	40.2	40.2	25.0	25.0	40.2	40.2	25.0	25.0
	Fins per inch	3.5*	3.5*	3.5*	3.5*	4.5*	3.5*	3.5*	3.5*	4.5*	3.5*	3.5*	3.5*	3.5*	3.5*
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													
Fan	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.

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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Engine Description/Carb.  
 Engine Code

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

**Engine - Valve System**

Lifters (std., opt., n.a.)	Hydraulic	Standard
	Solid	--

**Engine - Connecting Rods**

Material & mass (kg., weight, lbs.)	Cast Steel, .675 (1.49)
-------------------------------------	-------------------------

**Engine - Crankshaft**

Material	Nodular Cast Iron
Mass (kg., weight, lbs.)	12.746 (28.10)
End thrust taken by bearing (no.)	5

**Engine - Lubrication System**

Normal oil pressure (kPa (psil) at engine rpm)	435-530 (63-77) @ 1200
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)

**Engine - Diesel Information**

Glow plug, current drain at 0°F		
Injector nozzle	Type	Not
	Opening pressure (kPa (psil))	Applicable
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler		
Oil filter		

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

Car Line \_\_\_\_\_  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Engine Description/Carb.  
 Engine Code

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

**ENGINE - GENERAL**

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sonic, donc, ohv, hemi, wedge, pre-camber, etc.)	In line Front Transverse, front of engine faces right side of vehicle
No of cylinders	4
Bore	89 (3.50)
Stroke	80 (3.15)
Bore spacing (c/l to c/l)	99 (3.90)
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
	R Bank
Firing order	1-2-3-4 -- 1-3-4-2
Recommended fuel (leaded unleaded diesel)	Unleaded
Fuel antiknock index (R + M) 2	87
Total dressed engine mass (wt) dry**	114.4 (252) Auto, 119 (262) Man

**Engine - Pistons**

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

**Engine - Camshaft**

Location	In cylinder block, right side	
Material (kg weight lbs)	Cast Iron 3.138 (6.92)	
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:

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

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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

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

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

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION TRANSAXLE	AXLE RATIO (std. first (+))	
	Displ. Liters (in <sup>3</sup> )	Carb. (Barrels, FI, etc.)	Compr Ratio	SAE Net at RPM					
				kW (bhp)	Torque N - m (lb. ft.)				
Base - All States	L-4 2.0 Liter (121 CID) LQ5	EFI *	9.3:1	66	149	S	Man 4- Speed	Base	Opt.
				(88)	(110)		3.53 Low	3.32	-
				@	@		Base @		
				4800	2400				
							Man 4-Speed	4.10	-
							3.53 Low		
							Base		
							Man 5-Speed	3.83	-
							3.91 Low		
							Avail		
							Auto '125c'	3.18	3.73
							Avail		

\* - Electronic Fuel Injection  
 @ - ME model only (RPO ZJ6)  
 + - Final drive ratio



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

Car Line CAVALIER  
 Model Year 1984 Issued 7-83 Revised (\*) \_\_\_\_\_

**Car Models**

Model Description FWD/RWD	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)		Max. Trunk/Cargo Load—Kilograms (Pounds)
FRONT WHEEL DRIVE		MODEL NUMBER	FRONT/REAR		
<u>CAVALIER</u> 4-Door Notchback Sedan		1JC69	2	3	61.8 (136.2)
4-Door Liftback Wagon		1JC35	2	3	92.7 (204.4)
<u>CAVALIER 'CS'</u> 4-Door Notchback Sedan		1JD69	2	3	61.8 (136.2)
4-Door Liftback Wagon		1JD35	2	3	92.7 (204.4)
<u>CAVALIER 'TYPE 10'</u> 2-Door Notchback Coupe		1JE27	2	3	60.0 (132.3)
2-Door Hatchback Coupe		1JE77	2	3	72.0 (158.7)
2-Door Convertible		1JE27 w/RPO Z08	2	2	48.2 (106.3)

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

# 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.

ORIGINAL



# MOTOR VEHICLE Specifications

METRIC (U.S. Customary)

Passenger Car

# 1984

<b>Manufacturer</b> CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	<b>Car Line</b>  CAVALIER
<b>Mailing Address</b> CHEVROLET ENGINEERING CENTER 30003 VAN DYKE WARREN, MI 48090	<b>Issued</b> SEPTEMBER, 1983
	<b>Revised</b>

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.