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**mvma**

# **MOTOR VEHICLE Specifications**

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

**Passenger Car**

**1984**

<b>Manufacturer</b> CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	<b>Car Line</b>  CITATION
<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.

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. This specification form was developed by the automobile manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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

# IVMA Specifications Form Passenger Car

ETRIC (U.S. Customary)

## Table of Contents

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1	Car Models
2	Power Teams
3-6	Engine
4	Lubrication System
4	Diesel Information
5	Cooling System
6	Fuel System
7	Vehicle Emission Control
7	Exhaust System
3-10	Transmission, Axles and Shafts
11	Suspension-Front and Rear
2-13	Brakes
13	Tires and Wheels
1-15	Steering
1-16	Electrical
17	Body — Miscellaneous Information
17	Glass
17	Frame
18	Passive Restraint System
19	Convenience Equipment
1-22	Car and Body Dimensions
23	Vehicle Fiducial Marks
24	Lamps and Headlamps
25	Vehicle Mass (Weight)
26	Optional Equipment Mass (Weight)
1-31	Car and Body Dimension Key Sheets
32	Index
	Supplemental Page
	Feature Highlights Page

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### NOTE:

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.

### UNLESS OTHERWISE INDICATED:

- Specifications apply to standard models without optional equipment. Significant deviations are noted.
- Nominal design dimensions are used throughout these specifications.
- All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).

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Additional Car and Body Dimensions and/or drawings based in part on SAE J1160s "Motor Vehicle Dimensions" may be available from the manufacturer.

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

Car Line CITATION II  
 Model Year 1984 Issued 7-83 Revised (•) 9-83

**Car Models**

Model Description FWD/RWD	Introduction Date	Make, Car Line, Series, Body Type (Bilfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)
<b>FRONT WHEEL DRIVE</b>				
<b>CITATION II</b>		<b>MODEL NUMBER</b>	<b>FRONT/REAR</b>	
2-Door Notchback Coupe		1XH11	2 3	56.9 (125.4)
2-Door Hatchback Coupe		1XX08	2 3	56.9 (125.4)
4-Door Hatchback Sedan		1XX68	2 3	56.9 (125.4)

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

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

Car Line CITATION II  
 Model Year 1984, issued 7-83, Revised (\*) 9-83

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

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77° F/25° C and 29.91 in. Hg/100 Kpa atmospheric pressure.

SERIES AVAILABILITY	ENGINE					E Z R A S E S I S/D	TRANSMISSION TRANBAXLE	AXLE RATIO		
	Displ. Liters (cu. in.)	Cyls. (Bore, Stroke, Fl, etc.)	Comp. Ratio	SAE Net at RPM				Final Drive	Base	Optional
				kW (bhp)	Torque N - m (lb. ft.)					
Base - All States	L-4 2.5L (151 CID) LR8	EFI *	9.0:1	69 (92) @ 4000	182 (134) @ 2800	S	Man. 4-speed (3.53 Low) - Base Auto '125c' Avail.	3.32:1** 3.65:1 2.39:1	-- -- 2.84:1	
Avail - All States	V6 2.87 (173 CID) LE2	2-Bb Carb.	8.5	84 (112) @ 4800	197 (145) @ 2100	S	Man. 4-speed (3.53 Low) - Base Auto '125c' - Avail.	3.32:1 -- 2.53:1	-- -- --	
Avail - All States	V6 2.8L (173 CID) H.O. LH7	2-Bb Carb.	8.9	101 (135) @ 5400	197 (145) @ 2400	S	Man. 4-speed (3.31 Low) - Base Auto '125c' - Avail.	3.65:1 3.33:1	-- --	
* - Electronic Fuel Injection @ - With dual tailpipes. ** - ME Model.										

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

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

Engine Description/Carb.  
 Engine Code

2.5 LTR. L4 (151 CID) ELECTRONIC FUEL INJ. RPO LR8	2.8 LTR. V6 (173 CID) 2-BBL. CARBURETOR RPO LE2	2.8 LTR. V6 H.O. 2-BBL. CARBURETOR RPO LH7
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**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	60° V	
	Transverse, front of engine faces right side of vehicle		
No of cylinders	4	6	
Bore	101.6 (4.0)	89 (3.50)	
Stroke	76.2 (3.0)	76 (2.99)	
Bore spacing (c/l to c/l)	111.8 (4.40)		
Cylinder block material	Cast alloy iron		
Cylinder block deck height	232.8 (9.2)	224 (8.819)	
Deck clearance (minimum) (above or below block)	0.63 (.025) Below	0.62 (.024) Below	0.12 (.005) Below
Cylinder head material	Cast alloy iron		
Cylinder head volume (cm <sup>3</sup> )	--	--	
Head gasket thickness (compressed)	0.97 (0.38)	0.838 (0.033)	
Minimum combustion chamber total volume (cm <sup>3</sup> )	81.79 (4.99)	63.41734 (3.86927) @	59.8481 (3.6515)@
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 (R + M) / 2	87		
Total dressed engine mass (wt) dry**	156.8 (346)	176.5 (389)	

**Engine - Pistons**

Material & mass, g (weight, oz.) piston	Cast Aluminum Alloy	
	650 (22.96)	467 (16.47), Flat Head

**Engine - Camshaft**

Location	Right side of block	In block above crankshaft
Material (kg, weight, lbs)	Cast Iron	
	3.546 (7.82)	3.098 (6.83)
Drive type	Chain/belt	Chain
	Width/pitch	Not Available
	"	19.4 (.764) / 9.53 (.375)

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

\*\* Dressed engine mass (weight) includes the following: All those items necessary to make the engine a complete ready-to-run unit.

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

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

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

Engine Description/Carb.  
 Engine Code

2.5 LITER L4 (151 CID) ELECTRONIC FUEL INJ. RPO LR8	2.8 LITER V6 (173 CID) 2-BBL. CARBURETOR RPO LE2	RPO LH7 (H.O.)
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**Engine - Valve System**

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

**Engine - Connecting Rods**

Material & mass (kg., weight, lbs.)	.555 (1.223) Cast Arma Steel	.399 (0.880) 1038 Steel
-------------------------------------	---------------------------------	----------------------------

**Engine - Crankshaft**

Material	Nodular Cast Iron	
Mass (kg., weight, lbs.)	13.660 (30.11)	14.170 (31.24)
End thrust taken by bearing (no.)	5	3

**Engine - Lubrication System**

Normal oil pressure (kPa (psi) at engine rpm)	259 (37.5)	345-450 (50-65)@ 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.)	2.8 (3.0)	3.8 (4.0)

**Engine - Diesel Information**

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

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

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

Engine Description/Carb.  
 Engine Code

2.5 LITER L4 (151 CID)  
 ELECTRONIC FUEL INJ.  
 RPO LR8

**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 (15.0)					
Circulation thermostat	Type (choke, bypass)	Choke					
	Starts to open at °C (°F)	90 (195°)					
Water pump	Type (centrifugal, other)	Centrifugal					
	GPM 1000 pump rpm	6					
	Number of pumps	One					
	Drive (V-belt, other)	V-Belt					
Bearing (type)		Ball-Roller					
By-pass recirculation (type (inter, ext.))		External					
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.)	8.24 (8.71) Automatic, 8.34 (8.82) Manual					
	With air cond. - L(qt.)	8.53 (9.02) Automatic, 8.63 (9.12) Manual					
	Opt. equipment (specify - L(qt.))	8.59 (9.08) Manual Heavy Duty					
Water jackets full length of cyl. (yes, no)		Yes					
Water all around cylinder (yes, no)		Yes					
Radiator core	Std. A/C, HD Manual/Auto.	Std.	A/C	H.D.	Std.	A/C	H.D.
	Width	430.0	600.0	600.0	430.0	600.0	600.0
	Height	303.2	303.2	387.5	303.2	303.2	387.5
	Thickness	25.0	25.0	40.2	25.0	25.0	40.2
	Fins per inch @	3.5	3.0	3.5	4.0	3.5	3.5
Fan	Std. elec. opt.	Std. Elec.		A/C Elec.			
	Number of blades & type (flex, solid, material)	4, Plastic, Solid		7, Plastic, Solid			
	Diameter & projected width	291		360			
	Ratio (fan to crankshaft rev.)	Not Applicable					
	Fan cutout type	ECM					
	Drive (type (direct, remote))	Direct					
	RPM at idle (elec.)	1900		2700			
	Motor rating (wattage) (elec.)	97		150			
	Motor switch (type & location) (elec.)	Engine temperature switch, engine cylinder head					
	Switch point (temp, pressure) (elec.)	110°C					
Fan shroud (material)	None						

@ - Distance between top of fins.



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

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

Engine Description/Comb.  
 Engine Code

2.8 LITER V6 (173 CID)	
2-BBL	
RPO LE2	RPO LH7 (H.O.)

**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 (15.0)											
Circulation thermostat	Type (choke, bypass)	Choke											
	Starts to open at °C (°F)	90 (195°)											
Water pump	Type (centrifugal, other)	Centrifugal											
	GPM 1000 pump rpm	22.7 @ 3000 pump RPM											
	Number of pumps	One											
	Drive (V-belt, other)	V-Belt											
Bearing (type)		Ball-Roller											
By-pass recirculation (type (inter., ext.))		Internal											
Radiator core (type (cross-flow vertical cellular tube end fin, other) and material)		Cross-flow, copper-brass, high efficiency radiator											
Cooling system capacity	With heater - L(qt.)	10.04 (10.61) Automatic, 10.14 (10.72) Manual											
	With air cond. - L(qt.)	10.39 (10.98) Automatic, 10.49 (11.09) Manual											
	Opt. equipment (specify - L(qt.))	10.55 (11.15) Automatic & Manual, H.D. Radiator											
Water jackets full length of cyl. (yes, no)		Yes											
Water all around cylinder (yes, no)		Yes (LE2 Man.)		Yes (LE2 Auto.)			Yes (LH7 Man.)		Yes (LH7 Auto.)				
Radiator core	Std. A/C HD Manual/Auto.	Std.	A/C	H.D.	Std.	A/C	H.D.	Std.	ACorHD	Std	ACorHD		
	Width	430.0	600.0	600.0	430.0	600.0	600.0	600.0	600.0	600.0	600.0		
	Height	303.2	387.5	387.5	303.2	303.2	387.5	303.2	387.5	303.2	387.5		
	Thickness	25.0	25.0	40.2	25.0	25.0	40.2	25.0	40.2	25.0	40.2		
	Fins per inch @	3.0	3.5	3.5	4.0	4.0	3.5	3.0	3.5	4.0	3.5		
Fan	Std. elec. opt.	Std. Elec.		A/C Elec.									
	Number of blades & type (flex, solid, material)	4, Plastic Solid				7, Plastic Solid							
	Diameter & projected width	291				360							
	Ratio (fan to crankshaft rev.)	Not Applicable											
	Fan cutout type	ECM											
	Drive (type (direct, remote))	Direct											
	RPM at idle (elec.)	1900				2700							
	Motor rating (wattage) (elec.)	97				150							
	Motor switch (type & location) (elec.)	Engine temperature switch, engine cylinder head											
	Switch point (temp., pressure) (elec.)	110.5°C											
Fan shroud (material)	None												

@ - Distance between top of fins.

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

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

Engine Description/Carb.  
 Engine Code

2.5 LITER L4 (151 CID)	2.8 LITER V6 (173 CID)	
ELECTRONIC FUEL INJ.	2 BBL. CARBURETOR	
RPO LR8	RPO LE2	RPO LH7 (H.O.)

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

Induction type: carburetor, fuel injection system, etc.		CCC Controlled Fuel Injection	Carburetor	
Carburetor	Mfr.	Rochester	Rochester	
	Choke (type)	None	Electric	
	Idle spd.-rpm (spec neutral or drive and propane if used)	Manual	ECM	800 (Neutral)
		Automatic	Controlled - No Adjustment	--
		--	600 (Drive) 725 (Drive)	
Idle A/F mix.		Preset - no adjustment provided		
Fuel injection	Point of injection (no.)	Throttle body, one		
	Constant, pulse, flow	Pulse		
	Control (electronic, mech.)	ECM		
	System pressure (kPa (psi))	(11 psi)		
Intake manifold heat control (exhaust or water) thermostatic or fixed		Water	Exhaust	
Air cleaner type	Standard	Replaceable paper element, single snorkel (a)		
	Optional	None		
Fuel pump	Type (elec. or mech.)	Electric	Mechanical	
	Location (eng. tank)	In fuel tank	On engine left front	
	Pressure range (kPa (psi))	83 (12.0)	41-52 (6.0-7.5)	

**Fuel Tank**

Capacity (refill L (gallons))		55.3 (14.6) Approx.	57.2 (15.1) Approx.
Location (describe)		Underside - rear center	
Attachment		Underbody strap	
Material		Steel	
Filler pipe	Location & material	Left 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.	Not Available	
	Capacity (L (gallons))	"	
	Location & material	"	
	Attachment	"	
	Selector switch or valve	"	
	Separate fill	"	

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

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

Engine Description/Carb.  
 Engine Code

2.5 LTR. L4 (151 CID) ELECTRONIC FUEL INJ. RPO LRB	2.8 LITER V6 (173 CID) 2-BBL. CARBURETOR RPO LE2   RPO LH7 (HO)
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**Vehicle Emission Control**

Exhaust Emission Control	Type (air injection, engine modifications, other)		CCC Control with Fuel Injection	CCC Control with Air Injection
	Air Injection	Pump or pulse	Not Available	Vane
		Driven by	"	V-Belt
		Air distribution (head, manifold, etc.)	"	Exh. manif., conv.
		Point of entry	"	Exh. manifold ports
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow	
		Exhaust source	Exhaust manifold	R.H. bank
		Point of exhaust injection (spacer, carburetor manifold, other)	Inlet manifold	
	Catalytic Converter	Type	S Bed, Ox & Red	D Bed, Ox & Red
		Number of	One	
		Location(s)	Mounted to underbody at #2 body bar	
		Volume [L (in <sup>3</sup> )]	2.6 (160)	2.8 (170)
		Substrate type	Pellets	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)		Inlet manifold		
Air inlet (breather cap, other)		Carburetor air cleaner		
Evaporative Emission Control	Vapor vented to (crankcase canister, other)	Fuel tank	Canister	
		Carburetor	--	Canister
	Vapor storage provision		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	Single w/cross-over	Single w/cross-over@
Muffler no & type (reverse flow, straight thru, separate resonator)	One, reverse flow		
Resonator no & type	None		
Exhaust pipe	Branch od wall thickness	--	5.08x.81(2.0x.032)(2)
	Main od wall thickness	5.08x1.12(2.0x.044)	47.8x1.42(1.875x.056)
	Material	Stainless steel	(1)
Inter-mediate pipe	od & wall thickness	--	50.8x1.09(2.00x.043)   57.15x1.4(2.25x.055)
	Material	--	Aluminum coated steel
Tail pipe	od & wall thickness	50.8x1.4(2.0x.06)	44.5x1.09(1.75x.043)   50.8x1.4(2.00x.055)
	Material	Alum. coated steel	Alum. coated steel

- @ - with dual tailpipes.
- (1) - Stainless steel pipe with aluminum coated steel heat shield.
- (2) - Laminated tubing, steel inner, stainless steel outer.

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

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

Engine Description/Carb.  
 Engine Code

2.5 LITER L4 (151 CID) ELECTRONIC FUEL INJ. RPO LR8	2.8 LITER V6 (173 CID) 2-BBL. CARBURETOR	
	RPO LE2	RPO LH7 (H.O.)

**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	3.53	3.53	3.31
	In second	1.95	1.95	1.95
	In third	1.24	1.24	1.24
	In fourth	0.73	0.81	0.81
	In fifth	--	--	--
	In overdrive	--	--	--
	In reverse	3.42	3.42	3.42
Synchronous meshing (specify gears)		All forward gears		
Shift lever location		Floor mounted		
Lubricant	Capacity [L (pt)]		2.8 (5.9) (a)	
	Type recommended		Automatic	
	SAE viscosity number	Summer	transmission	
		Winter	fluid	
		Extreme cold		

**Clutch (Manual Transmission)**

Make & type		Borg & Beck, dry single plate
Type pressure plate springs		Diaphragm
Total spring load [N (lb)]		5647 (1245)
No of clutch driven discs		One
Clutch facing	Material	Woven molded asbestos
	Manufacturer	Borg & Beck
	Part number	476600
	Rivets/plate	36
	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	7.37-7.87 (.290 - .310)
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

(a) Also lubricant for differential

**MVMA SPECIFICATIONS FORM**  
**Passenger Car**  
**METRIC (U.S. Customary)**

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

Engine Description/Carb.  
 Engine Code

2.5 LITER L4 (151 CID) ELECTRONIC FUEL INJ. RPO LR8		2.8 LITER V6 (173 CID) 2-BBL. CARBURETOR			
FINAL DRIVE 2.39		2.84	RPO LE2	3.23	RPO LH7 (H.O.)
			2.53	3.65	3.33

**Automatic Transmission/Transaxle**

Trade name		3-Speed Automatic
Type and special features (describe)		3-Speed with torque converter clutch
Selector	Location	Floor mounted on console
	Ltr./No designation	P-R-N-D-2-1
Gear ratios	R	2.07
	D	1.00
	L3	1.60
	L2	2.84
	L1	Not Applicable
Max. upshift speed - drive range (km/h (mph))		Not Available
Max. kickdown speed - drive range (km/h (mph))		"
Min. overdrive speed (km/h (mph))		Not Applicable
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.)	4.0L (8.46 pts)
	Type recommended	Dexron II
Oil cooler (std., opt., NA, internal, external, air, liquid)		Integral with radiator

**Axle or Front Wheel Drive Unit**

Type (front, rear)		Front	
Description		Front differ. with helical gears & tapered roller bearings	
Limited slip differential (type)		None	
Drive pinion offset		Not Applicable	
Drive pinion (type)		"	
No. of differential pinions		2	
Pinion adjustment (shim, other)		Not Applicable	
Pinion bearing adj. (shim, other)		"	
Driving wheel bearing (type)		Sealed ball bearings (Integral part of bolt-in hub units)	
Lubricant	Capacity (L (pt.))	Not applicable, part of automatic transmission assembly.	
	Type recommended	Automatic transmission fluid	
	SAE viscosity number	Summer	"
		Winter	"
		Extreme cold	"

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

Axle ratio (or overall top gear ratio)		3.32	2.84	2.84	3.32	2.84	3.65	3.33
No. of teeth	Pinion (Drive Gear)	25	38	37	25	35	23	35
	Ring gear or gear (Driven Gr)	83	32	33	83	35	84	35
Ring gear o.d. *(Pitch Dia.)		195.2						
Transaxle	Transfer gear ratio	0.81	1.0	1.0	.73	1.0	0.81	1.0
	Final drive ratio	2.69	2.39	2.53	2.42	2.84	2.96	3.33

\* - Driven Gear

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

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

Engine Description/Carb.  
 Engine Code

2.5 LITER L4 (151 CID) ELECTRONIC FUEL INJ. RPO LR8	2.8 LITER V6 (173 CID) 2-BBL. CARBURETOR RPO LE2   RPO LH7 (H.O.)
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**Axle Shafts – Front Wheel Drive**

Number used		Two	
Type (straight, solid bar, tubular, etc.)		Left	Straight solid bar
		Right	Straight solid bar
Outer diam. x length * x wall thickness	Manual transmission	Left	23.91 x 352.95
		Right	23.91 x 757.15
	Automatic transmission	Left	23.91 x 352.95
		Right	23.91 x 453.95
	Optional transmission	Left	None
		Right	"
Slip yoke	Type		"
	Number of teeth		"
	Spline o.d.		None
Universal joints	Make and mfg. no.	Inner	Saginaw
		Outer	Saginaw
	Number used		4
	Type, size, plunge	Inner	Double offset design
		Outer	Rzeppa
	Attach (u-bolt, clamp, etc.)		Splined
	Bearing	Type (plain, anti-friction)	Anti-friction
Lubric. (fitting, prepack)		Prepack	
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.

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

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

Body Type And/OR  
 Engine Displacement

2.5 LITER L4 (151 CID)  
 ELECTRONIC FUEL INJ.  
 RPO LR8

2.8 LITER V6 (173 CID)  
 2-Bbl. CARBURETOR  
 RPO LE2 | RPO LH7 (H.O.)

**Suspension - General**

Car leveling	Std./opt./n.a.	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
Special provisions for car jacking		Position jack in opening in bumper lower face of front and rear bumpers.
Shock absorber (front & rear)	Type	Front-MacPherson Strut; Rear-direct, Double Acting Hydraulic
	Make	Delco
	Piston diameter	Front- 32 (1.26); Rear - 25 (1.0)
	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	95.0 mm (3.7 in)
	Full rebound	89.0 mm (3.5 in)
Spring	Type (coil, leaf, other)	Coil
	Material	Steel
	Size (coil design height & i.d., bar length x dia.)	500.4 x 44.4 x 3082 x 13.4 (19.7 x 1.75 x 121.3 x 0.528)
	Spring rate (N/mm (lb./in.))	16.0(91.0) Base & F41, 19.5(111.0) F40, 23.5 (134.0) Z19
Rate at wheel (N/mm (lb./in.))		18.8(107.0) Base & F41, 22.1(126.0) F40, 25.7 (147.0) Z19
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel - 22 (0.866)

**Suspension - Rear**

Type and description		Trailing arm with stamped control arms and open section transverse beam
Drive and torque taken through		Not Applicable
Travel	Full jounce	92.0 mm (3.62 in)
	Full rebound	108.0 mm (4.25 in)
Spring	Type (coil, leaf, other)	Coil
	Material	Steel
	Size (length x width, coil design height & i.d., bar length & dia.)	364 x 108 x 2550 x 12.2 (14.3 x 4.25 x 100.4 x 0.480)
	Spring rate (N/mm (lb./in.))	26.9 (154.0) Base & F41, 32.0 (183.0) F40 & 719
Rate at wheel (N/mm (lb./in.))		15.5 (88.0) Base & F41, 18.3 (104.0) F40 & 719
Mounting insulation (type)		Rubber - top only
II leaf	No. of leaves	Not Applicable
	Shackle (comp or tens.)	"
Stabilizer	Type (link, linkless, frameless)	Integral function performed by axle beam.
	Material & bar diameter	Seamless Steel Tubing; 20 (0.79)
Track bar (type)		Transverse Beam Design; 30 (1.18)

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

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

Engine Description/Carb.  
 Engine Code

2.5 LITER L4 (151 CID) ELECTRONIC FUEL INJ. RPO LR8	2.8 LITER V6 (173 CID) 2-BBL. CARBURETOR RPO LE2   RPO LH7 (H.O.)
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**Axle Shafts – Front Wheel Drive**

Number used		Two		
Type (straight, solid bar, tubular, etc.)	Left	Straight solid bar		
	Right	Straight solid bar		
Outer diam. x length* x wall thickness	Manual transmission	Left	23.91 x 352.95	
		Right	23.91 x 757.15	
	Automatic transmission	Left	23.91 x 352.95	
		Right	23.91 x 453.95	
	Optional transmission	Left	None	
		Right	"	
Slip yoke	Type	"		
	Number of teeth	"		
	Spline o.d.	None		
Universal joints	Make and mfg. no.	Inner	Saginaw	
		Outer	Saginaw	
	Number used	4		
	Type, size, plunge	Inner	Double offset design	
		Outer	Rzeppa	
	Attach (u-bolt, clamp, etc.)		Splined	
Bearing	Type (plain, anti-friction)	Anti-friction		
	Lubric. (fitting, prepack)	Prepack		
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.



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

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

Body Type And/OR  
 Engine Displacement

2.5 LITER L4 (151 CID)  
 ELECTRONIC FUEL INJ.  
 RPO LR8

2.8 LITER V6 (173 CID)  
 2-Bbl. CARBURETOR  
 RPO LE2 RPO LH7 (H.O.)

**Suspension - General**

Car leveling	Std./opt./n.a.	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
Special provisions for car jacking		Position jack in opening in bumper lower face of front and rear bumpers.
Shock absorber (front & rear)	Type	Front-MacPherson Strut; Rear-direct, Double Acting Hydraulic
	Make	Delco
	Piston diameter	Front- 32 (1.26); Rear - 25 (1.0)
	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	95.0 mm (3.7 in)
	Full rebound	89.0 mm (3.5 in)
Spring	Type (coil, leaf, other)	Coil
	Material	Steel
	Size (coil design height & i.d., bar length x dia.)	500.4 x 44.4 x 3082 x 13.4 (19.7 x 1.75 x 121.3 x 0.528)
	Spring rate [N/mm (lb./in.)]	16.0(91.0) Base & F41, 19.5(111.0) F40, 23.5 (134.0) Z19
	Rate at wheel [N/mm (lb./in.)]	18.8(107.0) Base & F41, 22.1(126.0) F40, 25.7 (147.0) Z19
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel - 22 (0.866)

**Suspension - Rear**

Type and description		Trailing arm with stamped control arms and open section transverse beam
Drive and torque taken through		Not Applicable
Travel	Full jounce	92.0 mm (3.62 in)
	Full rebound	108.0 mm (4.25 in)
Spring	Type (coil, leaf, other)	Coil
	Material	Steel
	Size (length x width, coil design height & i.d., bar length & dia.)	364 x 108 x 2550 x 12.2 (14.3 x 4.25 x 100.4 x 0.480)
	Spring rate [N/mm (lb./in.)]	26.9 (154.0) Base & F41, 32.0 (183.0) F40 & 719
	Rate at wheel [N/mm (lb./in.)]	15.5 (88.0) Base & F41, 18.3 (104.0) F40 & 719
	Mounting insulation (type)	Rubber - top only
	II leaf	No. of leaves
Stabilizer	Type (link, linkless, frameless)	Integral function performed by axle beam.
	Material & bar diameter	Seamless Steel Tubing; 20 (0.79)
Track bar (type)		Transverse Beam Design; 30 (1.18)

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

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

Body Type And/Or  
Engine Displacement

2.5 LITER L4 (151 CID) ELECTRONIC FUEL INJ. RPO 1R8	2.8 LITER V6 (173 CID) 2-BBL. CARBURETOR RPO 1F2   RPO 1H7 (H.O.)
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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.)		Optional (a)   Required option	
Booster type (remote, integral, vac., hyd., etc.)		Tandem	
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> )]*		530.6 (82.26)	
Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]** (F/R)		620.3 (96.17)	
Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)		1687.2 (261.58)	
Rotor	Outer working diameter	F/R 247 (9.72) /--	
	Inner working diameter	F/R Not Available	
	Thickness	F/R 22 (0.87) /--	
	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	
Wheel cylinder bore		74.6 (2.9375) / 17 (0.67)	
Master cylinder	Bore/stroke	F/R 22 (0.87) / 35.52 (1.40)	
Pedal arc ratio		Manual - 6.6:1	
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]		Not Available	
Lining clearance per shoe		F/R Self adjusting / self adjusting	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Riveted, 6
		Rivet size	7.37 x 3.63 (.290 x .143)
		Manufacturer	Delco Moraine
		Lining code	Not Available
		Material	Organic   Metallic
		**** Primary or out-board	125 x 59 x 10.85 (4.92 x 2.32 x 0.430)
		Size Secondary or in-board	125 x 59 x 10.85 (4.92 x 2.32 x 0.430)
	Shoe thickness (no lining)	Inboard - 4.72 (0.186); outboard - 3.14 (0.124)	
	Rear wheel	Bonded or riveted (rivets/seg.)	Riveted, 8
		Manufacturer	Delco Moraine
		Lining code	Not Available
		Material	Organic
		**** Primary or out-board	167.7 x 43.9 x 3.8 (6.60 x 1.73 x 0.15)
		Size Secondary or in-board	203.3 x 43.9 x 4.8 (8.0 x 1.73 x 0.19)
Shoe thickness (no lining)		2.75 (.106)	

\* 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 Work Ing Dia. minus Square of Inner Working Dia. multiplied by Pi/2 for each brake.)

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

(a) Required with RPO C60 air conditioning

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

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

Body Type And/Or  
 Engine Displacement

2-DOOR NOTCHBACK 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68
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**Tires And Wheels (Standard)**

Tires	Size (load range, ply)		P185/80R-13 (BW, WS)* (1)
	Type (bias, radial, etc.)		Steel 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)		526	
Wheels	Type & material		Ventilated, semi-styled disc, steel
	Rim (size & flange type)		13 x 5.5
	Wheel offset		42 mm
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100 mm
Number & size		5-M12 x 1.5	
Spare	Tire and wheel (same, if other describe)		14 x 4 wheel; compact spare tire - T125/70D14-415 (60)
	Storage position & location (describe)		Flat under rear load floor

**Tires And Wheels (Optional)**

\* - Not available with RPO F41 sport suspension.

Size (load range, ply)		P205/70R13 WL** (1)
Type (bias, radial, etc.)		Steel belted radial
Wheel (type & material)		Steel
Rim (size, flange type and offset)		13 x 5.5, 42.0 (1.65) offset
Size (load range, ply)		P215/60R14 BW, WL**
Type (bias, radial, etc.)		Steel belted radial
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		14 x 6.5, 34.0 (1.34) offset
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel (If configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		15 x 4 wheel, compact spare tire, T135/80D15, 415 (60) with P215/60R14 tires only.

**Brakes - Parking**

\*\* - Requires RPO F41 sport suspension.

Type of control		Application - foot operated; release - 'I' handle
Location of control		Under instrument panel, left of steering column
Operates on		Rear service brakes
If separate from service brakes	Type (internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

) - "All Seasons" mud and snow, 4th generation, GM TPC tires.

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

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

Body Type And/Or  
 Engine Displacement

2.5 LITER L4 (151 CID) ELECTRONIC FUEL INJ. RPO LRB	2.8 LITER V6 (173 CID) 2-BBL. CARBURETOR RPO LE2   RPO LH7 (H.O.)
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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	387 (15.2)		
	Power	387 (15.2)		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	12.5 (41.0)	
		Curb to curb (l. & r.)	11.7 (36.1)	
	Inside rear	Wall to wall (l. & r.)	Not Available	
		Curb to curb (l. & r.)	"	
Scrub Radius		"		
Manual	Gear	Type	Rack & Pinion	
		Make	Saginaw Steering Gear	
		Ratios	Not Available	
	No. wheel turns (stop to stop)	3.5		
Power	Type (coaxial, linkage, etc.)	Rack & Pinion W/End Take-Off Tie Rods - Integral		
	Make	Saginaw Steering Gear		
	Gear	Type	Rack & Pinion With Integral Power Unit	
		Ratios	Not Available	
	Pump (drive)	'V' Belt		
No. wheel turns (stop to stop)	3.13			
Linkage	Type	End Take-Off Tie Rods		
	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.)		14.5	
	Bearings (type)	Upper	Ball Stud	
		Lower	Ball Stud	
		Thrust	Not Available	
Steering spindle & joint type		Not Available		
Wheel spindle	Diameter:	Inner bearing	28.95 (1.1398)	
		Outer bearing	28.95 (1.1398)	
	Thread (size)		M20 x 2.5	
	Bearing (type)		Integral Double Row Ball, Permanently lubricated.	

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

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

Body Type And/Or  
 Engine Displacement

2-DOOR NOTCHBACK COUPE 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68
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**Wheel Alignment**

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	2.0° +/- 2° left & right side should be equal within 2°
		Camber (deg.)	0.0° +/- 1.0°
		Toe-in [outside track-mm (in.)]	0.0° +/- 0.4° total
	Service reset*	Caster	Not Adjustable
		Camber	0.0° +/- 0.5°
		Toe-in	0.0° +/- 0.2° total
	Periodic M.V. in-spection	Caster	Not Adjustable
		Camber	0.0° +/- 1.0°
		Toe-in	0.0° +/- 0.4° total
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	Not Applicable
		Toe-in [outside track-mm (in.)]	"
	Service reset*	Camber	"
		Toe-in	"
	Periodic M.V. in-spection	Camber	"
		Toe-in	"

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

**Electrical - Instruments and Equipment**

Speed-ometer	Type	In-line with pointer
	Trip odometer (std, opt, n.a.)	Not available
EGR maintenance indicator		"
Charge indicator	Type	Tell-Tale warning light (gauge optional)
	Warning device	" " " "
Temperature indicator	Type	Tell-Tale warning light (gauge optional)
	Warning device	" " " "
Oil pressure indicator	Type	Tell-Tale warning light (gauge optional)
	Warning device	" " " "
Fuel indicator	Type	Electric gauge with pointer
	Warning device	" " " "
Wind-shield wiper	Type (standard)	Electric 2-speed
	Type (optional)	Intermittent
	Blade length	454 (18")
	Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]	5514 (854.9)
Wind-shield washer	Type (standard)	Electric push-button
	Type (optional)	Not Available
	Fluid level indicator	"
Horn	Type	Electric 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 CITATION II  
 Model Year 1984 Issued 7-83 Revised (\*) 9-83

Engine Description/Carb.  
 Engine Code

2.5 LITER L4 (151 CID) ELECTRONIC FUEL INJ. RPO LR8	2.8 LITER V6 (173 CID) 2-BBL. CARBURETOR RPO LE2   RPO LH7 (H.O.)
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**Electrical - Supply System**

Battery	Make	Delco Remy		
	Model, std., (opt.)	70-405(a), 75-500(b)	70-315(a), 75-500(b)	
	Voltage	12 Volt		
	Amps at 0°F cold crank	405(a), 500(b)	315(a), 500(b)	
	Minutes-reserve capacity	75 minutes(a), 90 minutes(b)	75 minutes(a), 90 minutes(b)	
	Amp/hrs. - 20 hr. rate	--		
	Location	L.H. side of engine compartment		
Generator or alternator	Type and rating	(c,d,e)		
	Ratio (alt. crank/rev.)	2.73:1(c,d), 2.51:1(e)	2.72:1	2.35:1
	Optional (type & rating)	None		
Regulator	Type	Integral with alternator		

**Electrical - Starting System**

Start. motor	Current drain at 0°F -20°F	325	235	250
Motor drive	Engagement type	Overrunning clutch	Positive shift solenoid	
	Pinion engages from (front, rear)	Front	Rear	

**Electrical - Ignition System**

Type	Conventional (std., opt., n.a.)	Not Available		
	Electronic (std., opt., n.a.)	"		
	Other (specify)	High energy ignition (integral with distributor)		
Coil	Make	Delco-Remy		
	Model	Not Available	1115463	
	Current	Engine stopped - A	0	
		Engine idling - A	5.5 Max.	
Spark plug	Make	AC		
	Model	R44TSX	R43CTS	R42CTS
	Thread (mm)	M14 x 1.25		
	Tightening torque (N-m (lb. ft.))	20-34 (15-25)	9-20 (7-15)	
	Gap	1.524 (.060)	1.143 (.045)	
Distributor	Make	Delco-Remy		
	Model	Not Available	1103569	

**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.

- (a) - Standard
- (b) - Optional
- (c) - 42 AMP with heater, 10 SI (22 AMP @ idle)
- (d) - 66 AMP with heater and heated backlight, 10 SI (23 AMP @ idle)
- (e) - 78 AMP with A/C, 15 SI (40 AMP @ idle)

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

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

Body Type	2-DOOR NOTCHBACK COUPE 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68
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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)	No	
	Release control (internal, external)	Internal	
Trunk lid	Type (counterbalance, other)	Torsion Rods	Not available
	Internal release control (elec. mech. n.a.)	Not Available	
Hatch back lid	Type (counterbalance, other)	"	2-Telescoping gas strut rods
	Internal release control (elec. mech. n.a.)	"	
Bumper front	Bar material & mass (wt.)	Steel 12.054 (26.6)	
	Reinforcement material & mass (wt.)	None	
Bumper rear	Bar material & mass (wt.)	Steel 12.984 (28.6)	
	Reinforcement material & mass (wt.)	None	
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 in instrument panel pad		

**Frame**

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized frame. Bolt-on power train cradle (2-piece design) with mounting provisions for suspension lower control arms and engine mounts.
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**Glass**

Backlight slope angle (deg.)	H121	54.5°	65.0°
Windshield slope angle (deg.)	H122	57.0°	
Tumble-Home (deg.)	W122	22.0°	
Windshield glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S1	8362 (1296.1)	
Side glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S2	11126 (1724.5)	12935 (2004.9) 12863 (1993.8)
Backlight glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S3	6699 (1038.3)	7216 (1118.5)
Total glass exposed surface area [cm <sup>2</sup> (in <sup>2</sup> )]	S4	26187 (4058.9)	28513 (4419.5) 28441 (4408.4)
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 and Body Dimensions See Key Sheets for definitions

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

<b>Body Type</b>	<b>SAE Ref. No.</b>	2-DOOR NOTCHBACK COUPE 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68
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### Restraint System

<b>Active restraint system</b>	Standard/optional	Standard
	Type and description	3 Point shoulder and lap belt for driver and front passenger. Lap belt for all other positions.
	Location	Front-(2); Rear-(3)
<b>Passive seat belts</b>	Standard/optional	Not available
	Power/manual	"
	2 or 3 point	"
	Knee bar/lap belt	"



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

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

Body Type	2-DOOR NOTCHBACK COUPE 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68
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**Convenience Equipment**

Power windows	Side windows	Optional (coupes, front doors; sedans, front & rear doors) (a)
	Vent windows	Not Available
	Backlight or tailgate	"
Power seats (specify type as well as availability)		"
Reclining front seat back (r-l or both)		"
Radio (specify type as well as availability)		Optional-AM Radio with Dual Front Speakers, 1XH11 Model Only. Optional-AM/FM, AM/FM Stereo, AM/FM Stereo w/Cassette Tape (a)
Premium sound system (specify)		Not Available
Rear seat speaker		Optional, Not Available 1XH11 model
Power antenna		Not Available
Clock		Optional, Not Available 1XH11 model
Air conditioner (specify type)		Optional (manual control)
Speed warning device		Not Available
Speed control device		Optional - with automatic transmission & power brakes only (a)
Ignition lock lamp		Not Available
Dome lamp		Standard
Glove compartment lamp		*
Luggage compartment lamp		*
Underhood lamp		*
Courtesy lamp		* Not Available on 1XH11 model
Map lamp		Not Available
Cornering lamp		"
Rear window defroster electrically heated		Optional
Rear window defogger		Not Available
T-bar roof (describe)		"
Sun roof (describe)		"
Theft protection-type		Lock mounted on steering column; locks steering wheel, transmission shift levers and ignition.
(a) Not Available 1XH11 model		
* Available in optional lighting package only consists of following: (a)		
Luggage Compartment Lamp		
Underhood Lamp		
Glove Compartment Lamp		
Ash Tray Lamp		
Courtesy Lamps - Not Available on 1XH11		
Buzzer - Headlamp On		

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

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.	2-DOOR NOTCHBACK COUPE 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68
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#### Width

Tread (front)	W101	1492 (58.7)		
Tread (rear)	W102	1447 (57.0)		
Vehicle width	W103	1736 (68.3)		
Body width at Sg RP (front)	W117	1730 (68.1)		1727 (68.0)
Vehicle width (front doors open)	W120	3680 (144.9)		3219 (126.7)
Vehicle width (rear doors open)	W121	--		2857 (112.5)

#### Length

Wheelbase	L101	2664 (104.9)		
Vehicle length	L103	4488 (176.7)		
Overhang (front)	L104	897 (35.3)		
Overhang (rear)	L105	927 (36.5)		
Upper structure length	L123	2476 (97.5)	2752 (108.3)	
Rear wheel C/L "X" coordinate	L127	2459 (96.8)		
Cowl point "X" coordinate	L125	215 (8.5)		

#### Height \*\*

Passenger distribution (frt./rear)	PD1,2,3			**
Trunk/cargo load				**
Vehicle height	H101	1368 (53.9)		
Cowl point to ground	H114	911 (35.9)		
Deck point to ground	H138			
Rocker panel-front to ground	H112	217 (8.5)		
Bottom of door closed-front to grd.	H133	286 (11.3)		
Rocker panel-rear to ground	H111	216 (8.5)		
Bottom of door closed-rear to grd	H135	--		285 (11.2)

#### Ground Clearance \*\*

Front bumper to ground	H102	356 (14.0)		
Rear bumper to ground	H104	329 (13.0)		
Bumper to ground (front at curb mass (wt.))	H183	374 (14.7)		
Bumper to ground (rear at curb mass (wt.))	H105	354 (14.0)		
Angle of approach	H106	19.2°		
Angle of departure	H107	20.9°		
Ramp breakover angle	H147	16.0°		
Rear axle differential to ground	H153	297 (11.7)		
Min running ground clearance	H156	142 (5.6)		
Location of min. run. grd. clear.			Front Suspension	

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

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

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	2-DOOR NOTCHBACK COUPE 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68
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### Front Compartment

Sg RP front, "X" coordinate	L31	1138 (44.8)		
Effective head room	H61	968 (38.1)		
Max. eff. leg room (accelerator)	L34	1073 (42.2)		
Sg RP (front to heel)	H30	257 (10.1)		
Design H-point front travel	L17	192 (7.6)		
Shoulder room	W3	1428 (56.2)		1421 (55.9)
Hip room	W5	1400 (55.1)		
Upper body opening to ground	H50	1243 (48.9)		
Steering wheel angle	H18	22.0°		
Back angle	L40	26.0°		

### Rear Compartment

Sg RP Point couple distance	L50	786 (30.9)		
Effective head room	H63	952 (37.5)	958 (37.7)	957 (37.7)
Min. effective leg room	L51	880 (34.6)		904 (35.6)
Sg RP (second to heel)	H31	259 (10.2)		261 (10.3)
Knee clearance	L48	10 (0.4)		25 (1.0)
Compartment room	L3	677 (26.7)		694 (27.3)
Shoulder room	W4	1428 (56.2)		1430 (56.3)
Hip room	W6	1366 (53.8)		1397 (55.0)
Upper body opening to ground	H51	--	--	1240 (48.8)

### Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	355 (12.5)	--	--
Liftover height	H195	552 (21.7)		

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

Body Type	BAE Ref. No.	2-DOOR NOTCHBACK COUPE 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68
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### Station Wagon - Third Seat

Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	NOT
Effective head room	H86	APPLICABLE
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	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	NOT
Cargo width (wheelhouse)	W201	APPLICABLE
Rear opening width at floor	W203	
Opening width at belt	W204	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index - L (cu. ft.)	V2	
Hidden cargo volume - L (cu. ft.)	V4	

### Hatchback - Cargo Space

Front seat back to load floor height	H197		501 (19.7)	508 (20.0)
Cargo length at front seat back height	L208	NOT	1172 (46.1)	1174 (46.2)
Cargo length at floor (front)	L209	APPLICABLE	1606 (63.2)	
Cargo volume index - L (cu. ft.)	V3		994 (35.1)*	1010 (35.7)*
Hidden cargo volume - L (cu. ft.)	V4			

### Aerodynamics\*

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

\* 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, 1XX08-555 (19.6), 1XX68-556 (19.6)

# MVMA Specifications Form Passenger Car

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

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	2-DOOR NOTCHBACK COUPE 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68
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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 base grid line to the front fiducial mark located on top of front seat adjuster mounting bolt.
	Y - Fiducial mark to centerline of car - front, width measurement made from centerline of car to the 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 rear underbody crossbar.
	Y - Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on rear underbody crossbar.
	Z - Fiducial mark to horizontal base grid line - rear, measured vertically from base grid line to rear fiducial mark located on rear underbody crossbar.
Front	W21 563 ( 22.2)
	L54 2770 (109.1)
	MB1 258 ( 10.2)
	H161 305 ( 12.0)
	** H163 284 ( 11.2)
Rear	W22 489 ( 19.3)
	L55 5016 (197.5)
	MB2 386 ( 15.2)
	H162 435 ( 17.1)
	** H164 410 ( 16.1)

\* 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

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

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type

SAE Ref. No.	2-DOOR NOTCHBACK COUPE 1XH11	2-DOOR HATCHBACK COUPE 1XX08	4-DOOR HATCHBACK SEDAN 1XX68

## Lamps and Headlamp Shape\*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	659 (26.0)
		Lowest	--
	Taillamp (H128)	Highest**	644 (25.4)
		Lowest	--
	Sidemarker	Front	608 (24.0)
		Rear	645 (25.4)
Distance from C/L of car to center of bulb	Headlamp	Inside	--
		Outside**	615.0 (24.2)
	Taillamp	Inside	--
		Outside**	690.0 (27.2)
	Directional	Front	412.0 (16.2)
		Rear	690.0 (27.2)
Headlamp shape		Rectangular	

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

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

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

Model	Vehicle Mass (weight)							
	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		
2-Door Notchback	697.1	416.8	1113.9					1080.7
Coupe 1XH11	(1537)	(919)	(2456)					(2382)
2-Door Hatchback	702.0	419.5	1121.5					1088.3
Coupe 1XX08	(1548)	(925)	(2473)					(2399)
4-Door Hatchback	712.3	425.3	1137.6					1104.4
Sedan 1XX68	(1570)	(937)	(2507)					(2435)
<b>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.</b>								
<b>Shipping Weight - Same as base curb weight, except 3 gallons of gasoline.</b>								

\* Reference - SAE J1100a, Motor vehicle dimensions, curb weight definition  
\*\* Shipping mass (weight) definition -

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

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

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
Seat-Reclining	-.4	-.6	-1.0	All Models
Bucket RPO-AR9	(-0.9)	(-1.3)	(-2.2)	
Power Door Lock System RPO-AU3	.6 (1.3)	1.0 (2.2)	1.6 (3.5)	2-Door Models
	.8 (1.8)	2.2 (4.8)	3.0 (6.6)	4-Door Models
Power Windows RPO-A31	1.4 (3.1)	1.0 (2.2)	2.4 (5.3)	2-Door Models
	2.6 (5.7)	2.8 (6.2)	5.4 (11.9)	4-Door Models
Swing Out Rear Quarter Windows RPO-A70	0 (0)	.8 (1.8)	.8 (1.8)	1XX08
	0 (0)	1.4 (3.1)	1.4 (3.1)	1XX68
Acoustical Insulation Package and Luggage Compartment Decor RPO-BS1	4.8 (10.6)	6.0 (13.2)	10.8 (23.8)	1XX08
	4.8 (10.6)	5.8 (12.8)	10.6 (23.4)	1XX68
Quiet Sound Group RPO-BS2	4.4 (9.7)	5.6 (12.3)	10.0 (22.0)	1XH11
Mats-Floor Front Color-Keyed RPO-B32	1.4 (3.1)	1.0 (2.2)	2.4 (5.3)	All models
Mats-Floor Rear Color-Keyed RPO-B33	.2 (0.4)	.8 (1.8)	1.0 (2.2)	All models
Moldings Body Side RPO-B84	.4 (0.9)	.4 (0.9)	.8 (1.8)	All models
Side Window Reveal Moldings, Bright RPO-B90	.2 (0.4)	.4 (0.9)	.6 (1.3)	All models
Guards-Door Edge-Black (available with RPO-Z18, Z19 only) RPO-B91	.2 (0.4)	0 (0)	.2 (0.4)	1XH11, 1XX08 only.

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



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

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

<b>Optional Equipment Differential Mass (weight)*</b>				
Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
Guards-Door Edge-Bright (Not available with RPO-Z18, Z19.) RPO-B93	.2 (0.4)	0 (0)	.2 (0.4)	All models
Washer and Wiper Windshield-Intermittent RPO-CD4	.2 (0.4)	0 (0)	.2 (0.4)	All models
Defogger-Rear Window Electric RPO-C49	0 (0)	.6 (1.3)	.6 (1.3)	All models
Air Conditioning (Manual Control) Includes K73 Delcotron	24.4 (53.8)	1.6 (3.5)	26.0 (57.3)	All models with RPO-LR8 Engine
-Requires Power Steering RPO-N41	25.4 (56.0)	1.6 (3.5)	27.0 (59.5)	Model 1XX68 with RPO-LE2 Engine, and RPO-M19, 4-Speed Manual Trans.
-Requires Power Brakes RPO-J50 RPO-C60	27.2 (60.0)	1.6 (3.5)	28.8 (63.5)	Models 1XH11 & 1XX08 with RPO-LE2 Engine and RPO-M19, 4-Speed Manual Transmission.
	25.2 (55.5)	1.6 (3.5)	26.8 (59.0)	Model 1XX68 with RPO-LE2 Engine and RPO-MD9 Automatic Transmission.
	27.0 (59.5)	1.6 (3.5)	28.6 (63.0)	Models 1XH11 & 1XX08 with RPO-LE2 Engine and RPO-MD9 Automatic Trans.
	27.6 (60.8)	1.6 (3.5)	29.2 (64.3)	All models with RPO-LH7 Engine and RPO-M17, 4-Speed Manual Trans.
	28.0 (61.7)	1.6 (3.5)	29.6 (65.2)	All models with RPO-LH7 Engine and RPO-MD9 Automatic Transmission.
Mirror-Remote Control Outside Rr View (LH painted black) RPO-D33	.2 (0.4)	0 (0)	.2 (0.4)	All models
Mirrors-Outside-Rear View-Sport LH Remote, RH Convex Manual RPO-D35	.8 (1.8)	.4 (0.9)	1.2 (2.7)	All models
Console-Frt Compartment Floor, Requires RPO AR9 Reclining Bucket Seat RPO-D55	1.4 (3.1)	1.2 (2.6)	2.6 (5.7)	All models with 4-Speed Manual Trans.
	2.2 (4.8)	2.2 (4.8)	4.4 (9.6)	All models with Automatic Trans.

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

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

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

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

Equipment	MASS, kg (weight, lb.)			Remarks
	Front	Rear	Total	
Sport Suspension	2.8	1.6	4.4	Models 1XH11 & 1YX08 with RPO-719
-Requires Steel Belted	(6.2)	(3.5)	(9.7)	Sport Equipment Package
Radial Tires RPO-F41				
	2.8	0	2.8	All models without RPO-719
	(6.2)	(0)	(6.2)	Sport Equipment Package
Brakes-Vacuum Power	3.4	.6	4.0	All except with RPO-LH7 Engine
-Required with RPO-LE2,	(7.5)	(1.3)	(8.8)	
LH7 or RPO-C60. RPO-J50				
	5.0	.6	5.6	All with RPO-LH7
	(11.0)	(1.3)	(12.3)	
Electronic Speed	2.8	0	2.8	All models
Control with Resume	(6.2)	(0)	(6.2)	
-Available only with				
RPO-J50 Power Brakes				
RPO-K34				
Engine 2.8 Liter 2-BBL	28.8	.4	28.4	All models
(173 C.I.D.) V-6	(63.5)	(0.9)	(62.6)	
-Requires RPO-J50 Power				
Brakes RPO-LE2				
Engine 2.8 Liter 2-BBL	32.8	2.8	35.6	All models
(173 C.I.D.) V6. High	(72.3)	(6.2)	(78.5)	
Output -Requires RPO-J50				
Power Brakes RPO-LH7				
Automatic Transmission	22.4	.6	23.0	All models with RPO-LR8, L-4 Engine
-Merchandising Option	(49.4)	(1.3)	(50.7)	
for RPO-MD9 RPO-MX1				
	22.0	.4	22.4	All models with RPO-LE2, V-6 Engine
	(48.5)	(0.9)	(49.3)	
	21.2	.6	21.8	All models with RPO-LH7, V-6 High
	(46.7)	(1.3)	(48.0)	Output Engine
Sport Steering Wheel	.2	.2	.4	All models
RPO-NK3	(0.4)	(0.4)	(0.8)	
Wheel-Tilt Steering	.6	.6	1.2	All models
-Comfortilt RPO-N33	(1.3)	(1.3)	(2.6)	
Steering-Power	9.8	.2	10.0	All models
-Required with RPO-C60	(21.6)	(0.4)	(22.0)	
Air Cond. RPO-N41				

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

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

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

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg (weight, lb)			
	Front	Rear	Total	
Auxiliary Lighting Package RPO-TR9	.2 (0.4)	0 (0)	.2 (0.4)	All models
Heavy Duty Battery RPO-UA1	3.2 (7.0)	-.6 (-1.3)	2.6 (5.7)	All models with RPO-LR8 Engine
	3.4 (7.5)	-.6 (-1.3)	2.8 (6.2)	All models with RPO-LE2 & LH7 Engines
Radio-AM/FM Stereo with Cassette Deck -Includes RPO-UP8 and RPO-U81 RPO-UN3	1.4 (3.1)	.8 (1.8)	2.2 (4.9)	Model 1XH11
Horns-Dual RPO-U05	.6 (1.3)	0 (0)	.6 (1.3)	Models 1XX08 and 1XX68
	.4 (0.9)	0 (0)	.4 (0.9)	All models
Special Instrumentation -Requires RPO-LH7 Engine RPO-U21	.2 (0.4)	0 (0)	.2 (0.4)	All models
Gage Package RPO-U22	.4 (0.9)	0 (0)	.4 (0.9)	All models
Clock-Quartz RPO-U35	.2 (0.4)	0 (0)	.2 (0.4)	All models
Radio-AM/FM Stereo Pushbutton RPO-U58	1.4 (3.1)	.6 (1.3)	2.0 (4.4)	Model 1XH11
	.2 (0.4)	0 (0)	.2 (0.4)	Models 1XX08 and 1XX68
Radio-AM Pushbutton RPO-U63	1.2 (2.6)	.6 (1.3)	1.8 (3.9)	Model 1XH11 only
Radio-AM/FM Pushbutton RPO-U69	1.2 (2.6)	.4 (0.9)	1.6 (3.5)	All models
Speakers-Radio Dual Rear RPO-U81	-.2 (-0.4)	2.2 (4.8)	2.0 (4.4)	All models
Rub Strip-Front and Rear Bumper RPO-VE5	.6 (1.3)	.4 (0.9)	1.0 (2.2)	All models

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

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

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

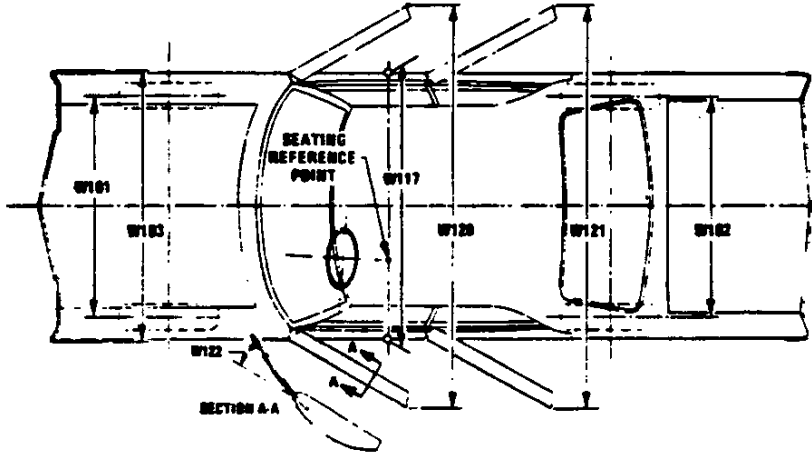
Optional Equipment Differential Mass (weight)*				
Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
Cooling-Heavy Duty	3.0	-.4	2.6	All models, with RPO-LR8 Engine
RPO-V08	6.6	(-0.9)	(5.7)	
	2.8	-.4	2.4	With RPO-LE2 Engine
	6.2	(-0.9)	(5.3)	
	1.8	-.2	1.6	With RPO-LH7 Engine and 4-Speed
	4.0	(-0.4)	(3.6)	Manual Transmission
	2.4	-.4	2.0	With RPO-LH7 Engine and
	5.3	(-0.9)	(4.4)	Automatic Transmission
Guards-Bumper	.4	.2	.6	All models
Front & Rear RPO-V30	0.9	0.4	(1.3)	
Rally Wheels	1.6	1.6	3.2	All models
RPO-ZJ7	3.5	3.5	(7.0)	
Value Appearance Group	.4	.2	.6	Model 1XH11 only
RPO-ZX5	0.9	0.4	(1.3)	
Sport Equipment	47.6	15.8	63.4	Models 1XH11 and 1XX08
Package RPO-Z19	104.9	34.8	(139.7)	

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

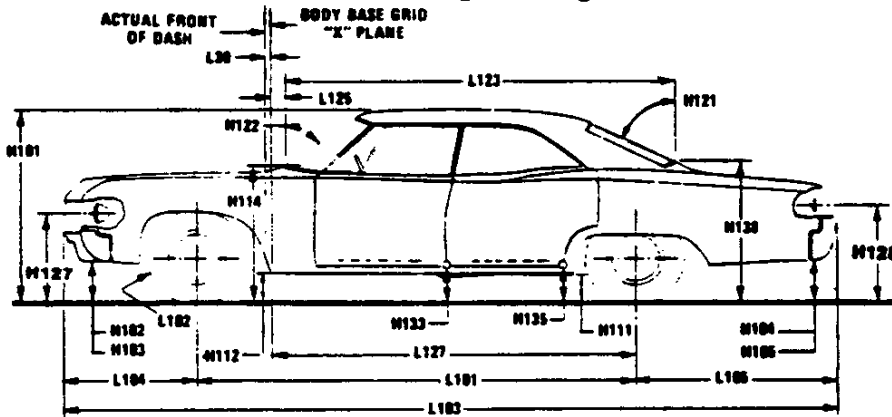
**MVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

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

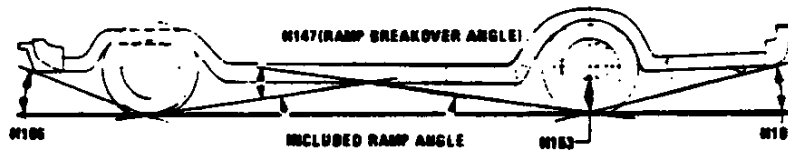
**Exterior Width**



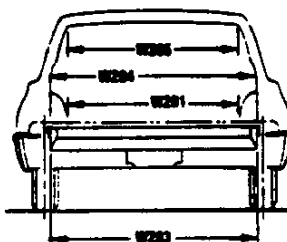
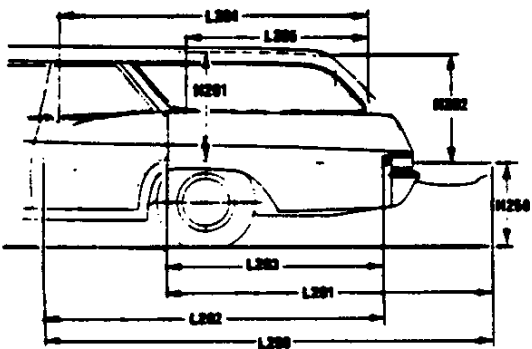
**Exterior Length & Height**



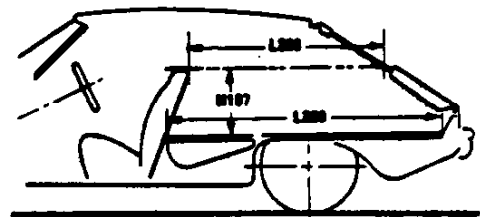
**Exterior Ground Clearance**



**Cargo Space**



**Station Wagon**

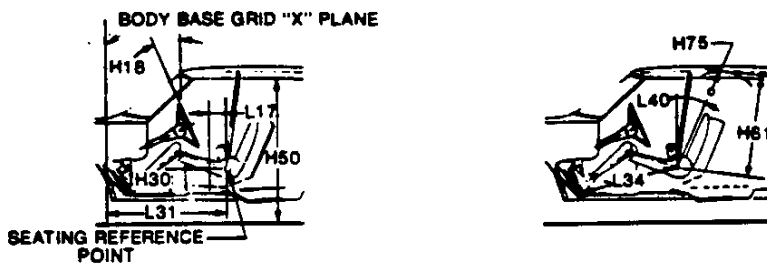


**Hatchback**

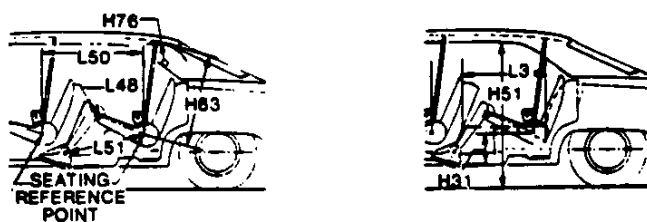
**MVMA Specifications Form**  
**Passenger Car**  
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**Interior Car And Body Dimensions – Key Sheet**

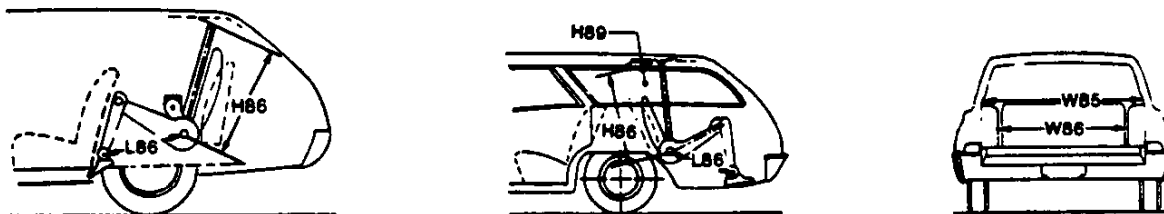
**Front Compartment**



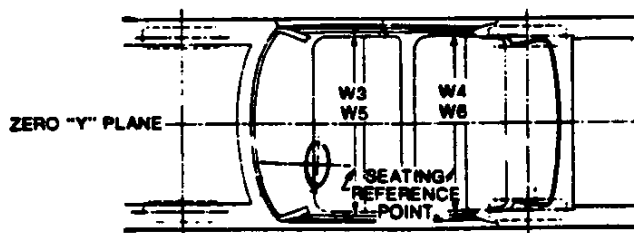
**Rear Compartment**



**Third Seat**



**Interior Width**



# 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.

# 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 and 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 and 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)

#### 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:  
$$\frac{L208 + L209}{2} \times W4 \times H197$$
  
$$\frac{\quad}{1728} = \text{ft}^3$$
  
Measured in mm:  
$$\frac{L208 + L209}{2} \times W4 \times H197$$
  
$$\frac{\quad}{10^9} = \text{m}^3(\text{cubic meter})$$

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### Index

Subject	Page No.	Subject	Page No.
Aerodynamics.....	22	Kingpin (Steering Axis).....	14
Alternator.....	18	Lamps and Headlamp Shape.....	24
Automatic Transmission.....	9	Legroom.....	21, 22
Axis, Steering.....	14	Lengths — Car and Body.....	20
Axis, Rear.....	10	Leveling, Suspension.....	11
Axis Shafts.....	10	Lifters, Valve.....	4
Battery.....	16	Linings — Clutch, Brake.....	8, 11
Brakes — Parking, Service.....	12, 13	Lubrication.....	8, 9
Camber.....	15	Luggage Compartment.....	21
Camshaft.....	3	Mass.....	25, 26
Capacities		Models.....	1
Cooling System.....	5	Motor Starting.....	16
Fuel Tank.....	6	Muffler.....	4
Lubricants		Passenger Capacity.....	1
Engine Crankcase.....	3	Passenger Mass Distribution.....	25
Transmission.....	9	Pistons.....	3
Rear Axle.....	10	Power Brakes.....	12
Car Models.....	1	Power, Engine.....	1
Car and Body Dimensions		Power Steering.....	14
Width.....	20	Power Teams.....	2
Length.....	20	Propeller Shaft, Universal Joints.....	10
Height.....	20	Pumps — Fuel.....	6
Ground Clearance.....	20	Water.....	6
Front Compartment.....	21	Radiator — Cap, Hoses.....	5
Rear Compartment.....	21	Ratios — Axle.....	2, 9
Luggage Compartment.....	21	Compression.....	2
Station Wagon — Third Seat.....	22	Steering.....	14
Station Wagon — Cargo Space.....	22	Transmission.....	2, 8, 9
Hatchback — Cargo Space.....	22	Rear Axle.....	2, 9, 10
Carburetor.....	2, 6	Regulator — Generator.....	16
Caster.....	15	Restraint System.....	18
Choke, Automatic.....	6	Rims.....	13
Clutch — Pedal Operated.....	8	Rods — Connecting.....	4
Coil, Ignition.....	16	Seats.....	17
Connecting Rods.....	4	Shock Absorbers, Front & Rear.....	11
Convenience Equipment.....	19	Spark Plugs.....	16
Cooling System.....	5	Speedometer.....	15
Crankshaft.....	4	Springs — Front & Rear Suspension.....	11
Cylinders and Cylinder Head.....	3	Stabilizer (Sway Bar) — Front & Rear.....	11
Diesel Information.....	4	Starting System.....	16
Dimension Definitions		Steering.....	14
Key Sheet — Exterior.....	27, 29	Suppression — Ignition, Radio.....	16
Key Sheet — Interior.....	28, 30, 31	Suspension — Front & Rear.....	11
Electrical System.....	15, 16	Tail Pipe.....	4
Emission Controls.....	7	Theft Protection.....	19
Engine		Thermostat, Cooling.....	5
Bore, Stroke, Type.....	3	Tires.....	13
Compression Ratio.....	2	Toe-In.....	15
Displacement.....	2, 3	Torque Converter.....	10
Firing Order, Cylinder Numbering.....	3	Torque — Engine.....	2
General Information, Power & Torque.....	2	Transaxle.....	9
Identification Number Location.....	17	Transmission — Types.....	2, 8, 9
Power Teams.....	2	Transmission — Automatic.....	2, 8, 9
Exhaust System.....	7	Transmission — Manual.....	2, 8, 9
Equipment Availability, Convenience.....	19	Transmission — Ratios.....	2, 8
Fan, Cooling.....	5	Tread.....	20
Fiducial Marks.....	23	Trunk Cargo Load.....	1
Filters — Engine Oil, Fuel System.....	4	Trunk Luggage Capacity.....	21
Feature Highlights.....	20	Turning Diameter.....	14
Frame.....	17	Unfitized Construction.....	17
Front Suspension.....	11	Universal Joints, Propeller Shaft.....	10
Front Wheel Drive Unit.....	10	Valve System.....	4
Fuel System.....	6	Vehicle Identification Number.....	17
Fuel Injection.....	6	Voltage Regulator.....	10
Fuel Tank.....	6	Water Pump.....	5
Generator and Regulator.....	16	Weights.....	25, 26
Glass.....	17	Wheel Alignment.....	15
Headroom — Body.....	21, 22	Wheelbase.....	20
Heights — Car and Body.....	20	Wheels & Tires.....	13
Horns.....	15	Wheel Spindle.....	14
Horsepower — Brake.....	2	Widths — Car and Body.....	20
Ignition System.....	16	Windshield.....	11
Inflation — Tires.....	13	Windshield Wiper and Washer.....	11
Instruments.....	15		

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

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

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

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