

Specifications
Form
Passenger Car

1982

METRIC (U.S. Customary)

Manufacturer CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	Car Line CITATION	
Mailing Address CHEVROLET ENGINEERING CENTER 30003 VAN DYKE WARREN, MICHIGAN 48090	Model Year 1982	Issued: AUGUST, 1981
		Revised (*) APRIL, 1982

NOTE: Sheets revised - 1, 2, 19, 21, 22, 23, 25, 26, 27, 28, 29.

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown above. This specification form was developed by 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.

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

Table of Contents

1	Car Models
2	Power Teams
3-7	Engine
7	Exhaust System
8	Fuel System/Diesel Information
9	Cooling System
10, 11	Vehicle Emission Control
12, 13	Electrical
14-17	Drive Units
17	Tires and Wheels
18	Brakes
19	Steering
20	Suspension — Front and Rear
21	Body — Miscellaneous Information
21	Frame
22	Convenience Equipment
23	Vehicle Mass (Weight)
24	Optional Equipment Mass (Weight)
25-27	Car and Body Dimensions
28	Vehicle Fiducial Marks
29	Glass/Lamps and Headlamp
30-34	Car and Body Dimension Key Sheets
35	Index

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. 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.
-

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) 4-82

Car Models

Model Description (Include Line Drawings of Vehicles, if Desired)	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)		Max. Trunk/Cargo Load— Kilograms (Pounds)
Citation	Model Number	Front	Rear	
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 specific to California requirements are indicated accordingly.

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) 4-82

Power Teams (Indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE						TRANSMISSION	AXLE RATIO (std. first) (indicate A/C ratio)	
	Displ. Liters (in ³)	Carb. (Barrels)	Compr. Ratio	SAE Net at RPM		Exhaust System*		Base	Opt.
				kW (bhp)	Torque N - m (lb. ft.)				
Base - All States	L-4 2.5 (151) TBI (LR8)	TBI (*)	8.2:1	90 @ 4000 RPM	132 @ 2800 RPM	S	Man 4-Spd (3.53 Low)-Base Auto '125'-Avail (Auto '125c'-Avail@)	3.32:1 (2.42:1)(a)	3.65:1 (2.66:1)(b) 2.84:1** (2.84:1)(d)
Avail - All States	V6 2.8 (173) (LE2)	2	8.5:1	112 @ 4800 RPM	145 @ 2400 RPM	S	Man 4-Spd (3.53 Low)-Base Auto '125c'-Avail (Auto '125'-Avail@)	3.32:1 (2.69:1)(e)	-- 2.84:1 (2.53:1)(f)
Avail - All States (Model 1XX08)	V6 2.8 (173) H.O. LH7	2	8.9:1	135 @ 5400 RPM	145 @ 2400 RPM	S@@	Man 4-Spd (3.31 Low)-Base Auto '125c'-Avail	3.65:1 (2.96:1)(g)	-- 3.33:1+ (2.97:1)(h)
* - throttle body injection. + - Base axle without RPO ZL1. ** - Recommended optional axle for high altitude usage, requires RPO NA6. @@ - With dual tailpipes. (a)- Final drive ratio of 2.42:1. (b)- Final drive ratio of 2.66:1. (c)- Final drive ratio of 2.39:1. (d)- Final drive ratio of 2.84:1. (e)- Final drive ratio of 2.69:1. (f)- Final drive ratio of 2.53:1. (g)- Final drive ratio of 2.96:1. (h)- Final drive ratio of 2.97:1.									

*S-Single D-Dual

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) _____

Engine Description/Carb.
 Engine Code

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

ENGINE - GENERAL

Check Pontiac's MVMA

Type (inline, V and angle flat)	In Line	60° 'V'	
Location (front,mid,rear)	Front		
Engine installation position (transverse, longitudinal)	Transverse, front of engine faces right side of vehicle		
Number of mtg. points	Front	One	Two
	Rear	Two	
No. of cylinders	4	6	
Bore	101.6 (4.0)	89 (3.50)	
Stroke	76.2 (3.0)	76 (2.99)	
Piston displacement cm ³ (in ³)	2474 (151)	2837 (173)	
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)	.63 (.025) Below	0.64 (.025) Below	
Cylinder head material	Cast Alloy Iron		
Cylinder head volume - cm ³	52.25 (3.188)	62.86 (3.84)	
Head gasket thickness (compressed)	0.97 (.038)	1.0 (.040)	
Head gasket volume - cm ³	8.13 (.496)	1.994 (0.122)	
Minimum combustion chamber volume - cm ³	81.79 (4.99in3)	51.528 (3.144)	51.346 (3.133)
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)	Unleaded		
Fuel antiknock index $\frac{(R + M)}{2}$	87		
Total dressed engine mass (wt) dry*	156.8 (346)	176.5 (389)	

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

**Rear of engine - drive takeoff

View from drive takeoff end to determine left & right side of engine

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) _____

Engine Description/Carb. Engine Code	2.5 LITER L4 (151 CID) THROTTLE BODY INJ. RPO LR8	2.8 LITER V6 (173 CID) 2-BBL CARBURETOR RPO LE2	2.8 LITER V6 H.O. 2-BBL CARBURETOR RPO LH7
--------------------------------------	---	---	--

Engine - Pistons

Material	Cast Aluminum Alloy	
Description and finish (flat, dished, dome, etc.)	Cam ground, slipper type, tin plated	Flat Head
Mass, g (weight, oz.) - Piston Only	650 (22.96)	467 (16.47)
Clearance (limits)	Top land	.762-.950 (.030-.0374)
	Skirt	Top
		Bottom
Ring groove diameter	No. 1 ring	90.3-90.4 (3.573-3.569)
	No. 2 ring	90.3-90.4 (3.573-3.569)
	No. 3 ring	90.3-93.0 (3.674-3.662)

Engine - Piston Rings

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
Compression	Description - material, coating, etc.	Nodular iron moly Upper channel barrel face Lower tapered face, reverse twist
	Width	@
	Gap	@
Oil	Description - material, coating, etc.	3-piece, steel rails and spacer
	Width	4.8 (.189)
	Gap	.38-1.40 (.015-.055)
Expanders	In oil ring assembly	

Engine - Piston Pins

Material	Chromium steel	
Length	76.2 (3.0)	70 (2.76)
Diameter	23.55 (.927)	22.9937-23.0015 (.905-.906)
Type	Locked in rod, in piston, floating, etc.	Locked in rod
	Bushing	In rod or piston
		Material
Clearance	In piston	.005-.010 (.0003-.0005)
	In rod	Press Fit
Direction & amount offset in piston	To Right 1.52 (.06)	Major thrust side - 1.7 (.067)
@ Width - #1	.575-1.588 (.0620-.0625)	* Lower; Upper - 1.475-1.490 (.058-.059)
#2	1.959-1.980 (.0775-.0780)	
Gap - #1	.254-.381 (.010-.015)	
#2	.254-.508 (.010-.020)	

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

CITATION

Car Line 1982 8-81
 Model Year issued Revised (*)

Engine Description/Carb. Engine Code	2.5 LITER L4 (151 CID) THROTTLE BODY INJ. RPO LR8	2.8 LITER V6 (173 CID) 2-BBL CARBURETOR RPO LE2	2.8 LITER V6 H.O. 2-BBL CARBURETOR RPO LH7

Engine - Connecting Rods

Material	Cast Arma steel	1038 steel	
Mass, g (weight, oz.)	620.9 (21.9)	399 (14.07)	
Length (center to center)	153.7 (6.05)	144.65-144.91 (5.69-5.71)	
Bearing	Material & type	Premium aluminum	
	Overall length	18.72 (.737)	18.05-18.30 (.711-.720)
	Clearance (limits)	.013-.066 (.0005-.0026)	.012-.052 (.0005-.0020)
	End play	.15-.56 (.006-.022)	.15-.43 (.006-.017)

Engine - Crankshaft

Material	Nodular cast iron			
Vibration damper type	None	Rubber mounted inertia		
End thrust taken by bearing (no.)	5	3		
Crankshaft end play	.089-.216 (.0035-.0085)	.05-.20 (.0020-.0079)		
Main bearing	Material & type	@	@	
	Clearance	.005-.056 (.0002-.0022)	.013-.038 (.0005-.0015)	
	Journal dia. and bearing overall length	No. 1	58.4 x 20.3 (2.3 x .80)	63.352 x 24.525 (2.494 x .9656)
		No. 2	58.4 x 20.3 (2.3 x .80)	63.352 x 18.725 (2.494 x .7372)
		No. 3	58.4 x 20.3 (2.3 x .80)	63.339 x 23.905 (2.494 x .9411)
		No. 4	58.4 x 20.3 (2.3 x .80)	63.352 x 31.575 (2.494 x 1.2431)
		No. 5	58.4 x 25.6 (2.3 x 1.01)	--
		No. 6	None	
		No. 7	None	
	Dir. & amt. cyl. offset	None		
No. bolts/main brg. cap	2			
Crankpin journal diameter	50.8 (2.0)			

Engine - Camshaft

Location	Right side of block	In block		
Material	Cast Iron			
Bearings	Material	Babbitt on steel	GM-3881M, steel backing	
	Number	3	4	
Type of drive	Gear, chain or belt	Gear	Chain	
	Crankshaft gear or sprocket material	Cast Iron	Sintered Iron	
	Camshaft gear or sprocket material	Phenolic @@	Sintered Iron	
	Timing chain	No. of links	None	64
			--	
	Chain or belt	Width	--	19.0 (.748)
Pitch		--	9.53 (.375)	

@ M400 Aluminum steel backed removable
 @@ Bakelite and fabric composition with steel hub.

@ Steel backed aluminum with overplate - No. 1 Conecc

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) _____

Engine Description/Carb.
 Engine Code

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

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)		Standard				
Valve rotator, type (intake, exhaust)		None	Exhaust			
Push rods (dia., length, material)		Steel; 7.9 (.3125) 228.4 (8.993)	Tubular steel 7.9 (.3125)			
Rocker ratio		1.75:1	1.50:1			
Operating tappet clearance (indicate hot or cold)	Intake	None	Zero			
	Exhaust	None	Zero			
Timing (based on top of ramp points)	Intake	Opens (*BTC)	33	25	31	
		Closes (*BTC)	79°	81	93	
		Duration (deg.)	292°	286	304	
	Exhaust	Opens (*BTC)	74°	69	83	
		Closes (*BTC)	38°	55	61	
		Duration (deg.)	292°	304	324	
Valve open overlap (deg.)		71°	80	92		
Intake valve	Material		Steel-SAE 1541-H or 1547, chrome flash stem		Steel-SAE 1541-H or 154	
	Overall length		115.7 (4.557)	119.4 (4.70)	119.5 (4.70)	
	Actual overall head dia		43.7 (1.72)	40.6 (1.60)	43.64 (1.72)	
	Angle of seat & face (deg)		46° seat; 45° face		45° seat; 45° face	
	Seat insert material		None			
	Stem diameter		8.699-8.682 (.3425-.3418)		8.661-8.679 (.3410-.3417)	
	Stem to guide clearance		.025-.069 (.0010-.0027)		.025-.069 (.0010-.0027)	
	Lift (at zero lash)		10.3 (.406)	8.81 (.347)	10.008 (.394)	
	Outer spring press & length	Valve closed - N at mm (lb. at in.)	347-382 @ 42.2 (78-86 @ 1.66)		338-374 @ 40.9 (59-65 @ 1.61)	
		Valve open - N at mm (lb. at in.)	765-800 @ 31.85 (172-180 @ 1.25)		863-917 @ 29.5 (151-160 @ 1.16)	
	Inner spring press & length	Valve closed - N at mm (lb. at in.)	None		Spring damper	
		Valve open - N at mm (lb. at in.)	None		Spring damper	
	Exhaust valve	Material		21-2N steel, chrome flash stem		
		Overall length		114.0 (4.489)	120.1 (4.738)	120.32 (4.74)
Actual overall head dia		38.1 (1.50)	33.2 (1.30)	36.2 (1.42)		
Angle of seat & face (deg)		46° seat; 45° face		45° seat; 45° face		
Seat insert material		None				
Stem diameter		8.699-8.682 (.3425-.3418)		8.661-8.679 (.3410-.3417)		
Stem to guide clearance		.025-.069 (.0010-.0027)		.025-.069 (.0010-.0027)		
Lift (at zero lash)		10.3 (.406)	10.008 (.394)	10.41 (.410)		
Outer spring press & length		Valve closed - N at mm (lb. at in.)	347-382 @ 42.2 (78-86 @ 1.66)		338-374 @ 40.9 (59-65 @ 1.61)	
		Valve open - N at mm (lb. at in.)	765-800 @ 31.85 (172-180 @ 1.25)		863-917 @ 29.5 (151-160 @ 1.16)	
Inner spring press & length	Valve closed - N at mm (lb. at in.)	None		Spring damper		
	Valve open - N at mm (lb. at in.)	None		Spring damper		

(a) Chrome flash stem.

(b) Tubular steel

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) _____

Engine Description/Carb.
 Engine Code

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

Engine - Lubrication System

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure	
	Connecting rods	Pressure	
	Piston pins	Splash	
	Camshaft bearings	Pressure	
	Tappets	Pressure	
	Timing gear or chain	Nozzle	
	Cylinder walls	Splash	
Oil pump type	Gear	Spur gear	
Normal oil pressure-kPa (psi) at engine rpm	259 (37.5)	345-450(50-65)@2000	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)	
Oil grade recommended (SAE viscosity and temperature range)	Minus 6.6°C(20°F) & Above 20W-20, 10W-30, 10W-40, 20W-40, 20W-50 Minus 17.7°C to +15.5°C (0 to 60°F) 10W, 5W-30, 10W-40, 10W30 Minus 6.6°C(20°F) & Below 5W-20, 10W-30		
Engine service reqmt (SD, SE, etc)	SF		

Engine - Exhaust System

Type (single, single with cross-over, dual other)	Single	Single	Single @
Muffler no & type (reverse flow straight thru, separate resonator)	One, reverse flow		
Resonator no & type	None		
Exhaust pipe	Branch O.D. wall thickness	--	57.15 x 1.04 (2.25 x .041)
	Main O.D. wall thickness	44.45x1.12 (1.75x.044)	47.5 x 1.42 (1.875 x .056)
	Material	Stainless Steel	(1) (2)
Inter-mediate pipe	O.D & wall thickness	50.8x1.09 (2.0x.04)	50.8x1.09 (2.00x.043) 57.15x1.4 (2.25x.055)
	Material	Aluminum	Aluminum coated steel
Tail pipe	O.D & wall thickness	50.8x1.09 (2.0x.04)	44.45x1.4 (1.75x.055) 50.8x1.4 (2.00x.055)
	Material	Aluminum	Aluminum coated steel

- @ - With dual tailpipes.
- (1) - Stainless steel inner and outer pipes with 6.4mm (.025") air gap between pipes.
- (2) - Laminated tubing, steel inner, stainless steel outer.

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) 10-81

Engine Description/Carb.
 Engine Code

2.5 LITER L4 (151 CID) THROTTLE BODY INJECTION RPO LR8	2.8 LITER V6 (173 CID) 2-BBL CARBURETOR 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		Fuel Injection	Carburetor	
Fuel tank	Refill capacity - L (U.S. gals.)	55.3(14.6) Approximately	57.2(15.1) Approximately	
	Filler location	Left rear quarter panel		
Fuel pump	Type (elec. or mech.)	Electric	Mechanical	
	Locations	In fuel tank	On engine left front	
	Pressure range - kPa (psi)	83	41-52 (6.0-7.5)	
Carburetor	Mfg & model	--		
	Choke type	Not available	Electric	
	Intake manifold heat control (exhaust or water)	Water	Exhaust	
	Air cleaner type	Standard	Replaceable paper element, single snorkel (a)	
		Optional	--	
	Idle spd -rpm (spec neutral or drive)	Manual	900 AC	850
		Propane (neu)	Neutral	
Automatic		680 Heater, 720 AC	650*, 600	
	Propane (neu)	--		
Idle A/F mix	Preset			

Engine - Diesel Information

Glow plug		
Injector nozzle	Type	
	Opening pressure - kPa. (psi)	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Supplementary vacuum source (type)		

(a) - Dual snorkel on LH7
 * - With 2.84 axle.

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) _____

Engine Description/Carb.
 Engine Code

2.5 LITER L4 (151 CID) THROTTLE BODY INJECTION RPO LR8	2.8 LITER V-6 (173 CID) 2-BBL CARBURETOR RPO LE2 RPO LH7 H.O.
--	---

Engine - Cooling System

Coolant recovery system (std., opt., none)		Standard		
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	Sealed double row ball		
By-pass recirculation type (inter., ext.)		External	Internal	
Radiator core type (cross-flow vertical, cellular, tube and fin, other)		Cross-flow		
Cooling system capacity	With heater—L(qt.)	9.3 (9.8)	10.09 (10.66)	
	Without heater—L(qt.)	Heater standard equipment		
	Opt. equipment-specify—L(qt.)	Not available	10.48 (11.07)	
Water jackets full length of cyl. (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator (hose)	Lower	Number and type (molded, straight)	One, molded	
		Inside diameter	38.1 (1.50) --	
	Upper	Number and type (molded, straight)	One, molded	
		Inside diameter	31.8 (1.25) --	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	None --	
Radiator (core)	Standard	Width	430.0 (16.93) 600.0 (23.62)	
		Height	387.5 (15.26) 387.5 (15.26)	
		Thickness	25.0 (1.0) 25.0 (.98)	
	A/C	Width	500.0 (23.62) 600.0 (23.62)	
		Height	387.5 (15.26) 387.5 (15.26)	
		Thickness	25.0 (1.0) 40.2 (1.58)	
	Heavy duty	Width	600.0 (23.62) 600.0 (23.62)	
		Height	387.5 (15.26) 387.5 (15.26)	
		Thickness	40.2 (1.58) 40.2 (1.58)	
	Fan (standard)	Number of blades & type - flex/solid		7, unequally spaced, radiator mounted
		Diameter		385 (15.2) 381.0 (15.0)
		Ratio - fan to crankshaft rev.		--
Fan cutout type		(+) Electronic controlled module		
Drive type-number of fans		Electric - one, with rotating reinforcement ring		
Fan (optional)	No. of blades and spacing		7, unequally spaced, radiator mounted	
	Diameter		368.3 (14.5)	
	Ratio - fan to crankshaft rev.		--	
	Fan cut-out type		Electronic controlled module	
	Drive type-number of fans		Electric - one, shrouded	

- (*) Base Transmission
- (@) With Air Conditioning
- (+) Thermostatically controlled electric fan.

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*)

Engine Description/Carb.
 Engine Code

2.5 Liter L-4 (151) THROTTLE BODY INJECTION RPO LR8	2.8 Liter V-6 (173) 2-BBL CARBURETOR RPO LE2 RPO LH7 H.O.
---	---

Vehicle Emission Control (continued)

	Type (ventilates to atmos., induction system, other)	Standard	Induction System		
		Optional	--		
Crankcase Emission Control	Control unit	Make and Model	A.C.		
		Location	--	Valve rocker cover	
	Energy source (manifold vacuum, carburetor, other)	Manifold vacuum			
	Control method (variable orifice, fixed orifice, other)	Variable orifice			
	Complete system	Discharges (to intake manifold, other)	Inlet Manifold		
		Air inlet (breather cap, other)	Carburetor Air Cleaner		
		Flame arrestor (screen, other)	Check Valve and/or Screen		
Evaporative Emission Control	Fuel tank	Thermal expansion volume—dm ³ (ft ³)	.43		
		Relief pressure kPa (psi) and location	11.2 min. in fuel cap	--	
		Vacuum relief kPa (psi) and location	3.0 min. in fuel cap	--	
		Vapor-liquid separator type	Integral with fuel tank		
		Vapor vented to (crankcase, canister, other)	Canister		
	Carbu- retor	Vapor vented to (crankcase, canister, other)	Canister		
Vapor storage	Storage provision (crankcase, canister, other)	Canister			
		--			
	Volume—dm ³ (ft ³) or capacity (grams)	1500 cc	--		
	Control valve type	Vacuum diaphragm			

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) _____

Engine Description/Carb.
 Engine Code

2.5 Liter L4(151 CID) THROTTLE BODY INJ. RPO LR8	2.8 LITER V-6 (173 CID) 2-BARREL CARBURETOR RPO LE2	RPO LH7 H.O.
--	---	--------------

Electrical - Supply System

Battery	Make and model		Delco 'Freedom II'		
	Voltage rfg.-V-& total plates		(a) 12-42 (b) 12-66	12V	
	SAE designation no. and/or capacity		(a) 75 min. res. cap. (b) 115 min. res. cap.	75 minute reserve capacity	
	Location		L.H. side of engine compartment		
Generator or alternator	Make		Delco Remy		
	Model		1103197 (c,d,e)	1100115	
	Type and rating		(c,d,e)	42	
	Output at engine idle (neutral) A		--		
	Ratio-gen. to cris rev.		2.73:1(c,d)2.51:1(e)	--	
Regulator	Make		Delco Electronics		
	Model		--		
	Type		Integral with alternator		
	Regulated	Voltage		14.7	--
		Current A		(c,d,e)	--
	Voltage test conditions	Temperature--°C (°F)		25 (77)	--
		Load A		25 Amps	--
Other		7000 RPM	--		

Electrical - Starting System

Starting motor	Make		Delco Remy		
	Model		1109533	1109530	
Motor drive	Engagement type		Overrunning clutch	Positive shift solenoid	
	Pinion engages from (front, rear)		Front		
	Number of teeth	Pinion		9	
		Flywheel	Manual	142	
Auto	142				

- (a) - F13, Standard Battery.
- (b) - F18, with H.D. Option UA1.
- (c) - 42 AMP. with Heater, 10 SI (22 AMP @ Idle)
- (d) - 63 AMP. with Heater and Heater Backlite, 10 SI (23 AMP @ Idle)
- (e) - 70 AMP. with A/C, 15 SI (40 AMP @ Idle)

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) 10-81

Engine Description/Carb.
 Engine Code

2.5 L L4 151 CID) THROTTLE BODY INJ. RPO LR8	2.8 L V6(173 CID) 2-BBL. CARBURETOR RPO LE 2	RPO LH7(H.O.)
--	--	---------------

Electrical - Ignition System

Type	Conventional—std., opt., n.a.	None		
	Transistorized—std., opt., n.a.	None		
	Other (specify)	High Energy Ignition (Integral with distributor)		
Coil	Make	Delco Remy		
	Model	Integral with distributor		
	Current	Engine stopped - A	--	
		Engine idling - A	--	
Spark plug	Make	AC		
	Model	R44TSX	R43TS	R42TS
	Thread (mm)	M14x1.25	M14x1.25	M14x1.25
	Tightening torque—N-m (lb. ft.)	20-34(15-25)	9-20(7-15)	9-20(7-15)
	Gap	1.524(.060)	1.143(.045)	1.143(.045)

Electrical - Suppression

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

Electrical - Instruments and Equipment

Speed-ometer	Type	In-line with pointer
	Trip odometer (std., opt., n.a.)	Not available
EGR maintenance indicator		None
Charge indicator	Type	Tell-Tale warning light (gauge optional)
	Warning device	None
Temperature indicator	Type	Tell-Tale warning light (gauge optional)
	Warning device	None
Oil pressure indicator	Type	Tell-Tale warning light (gauge optional)
	Warning device	None
Fuel indicator	Type	Electric Gauge
	Warning device	None
Wind-shield wiper	Type - standard	Electric 2-Speed
	Type - optional	Intermittent
	Blade length	454 (18")
	Swept area - cm ² (in. ²)	5514 (854.9)
Wind-shield washer	Type - standard	Electric push-button
	Type - optional	None
	Fluid level indicator	None
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
 Model Year 1982 Issued 8-81 Revised (*) _____

Engine Description/Carb. Engine Code	2.5 LITER L-4 (151 CID) THROTTLE BODY INJECTION RPO LR8	2.8 LITER V-6 (173 CID) 2-BBL CARBURETOR RPO LE2	RPO LH7 H.O.
--------------------------------------	---	--	--------------

Drive Units - Clutch (Manual Transmission)

Make & type	Belleville spring type, self adjusting	
Type pressure plate springs	Diaphragm	
Total spring load—N (lb.)	276.5-335.0 (1230-1490)	
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 ² (in. ²)	463 (71.82)
	Thickness	3.43 (.135)
Engagement cushion method	Driven plate wave spoke springs	
Release bearing	Type & method of lubrication	Ball thrust - prepacked & sealed
Torsional damping	Method: springs, friction material	Coil springs & metal to metal friction

Drive Units - Transmissions

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.)	Not available
Automatic (std., opt., n.a.)	Optional
Automatic overdrive (std., opt., n.a.)	Not available

Drive Units - Manual Transmission

Number of forward speeds	4			
Transmission ratios	In first	3.53	3.31	
	In second	1.95	1.95	
	In third	1.24	1.24	
	In fourth	0.73	0.81	
	In fifth	--	--	
	In overdrive	--	--	
	In reverse	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	Dexron II		
	SAE viscosity number	Summer	--	
		Winter	--	
Extreme cold		--		

(a) Also lubricant for differential.

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised ()

Engine Description/Carb.
 Engine Code

2.5 LITER L4 (151 CID) THROTTLE BODY INJECTION RPO LR8	2.8 LITER V-6 (173 CID) 2-BBL CARBURETOR RPO LE2	RPO LH7 H.O.
--	--	--------------

Drive Units - Automatic Transmission

Trade name		3-Speed Automatic
Type (describe)		3-Speed with torque converter
Selector	Location	Floor mounted on console
	Ltr./No. designation	P-R-N-D-2-1
Gear ratios	R	2.07
	D	1.00
	2	1.60
	1	2.84
		--
Max. upshift speed—drive range—km/h (mph)		77
Max. kickdown speed—drive range—km/h (mph)		73
Min. overdrive speed—km/h (mph)		Not Applicable
Torque converter	Number of elements	3
	Max. ratio at stall	1.9
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 (9.65)
Lubricant	Capacity—refill—L (pt.)	4.6 (10.0)
	Type recommended	Dexron II
Special transmission features		Single axis type with variable displacement pump. Transverse mounted. Chain driven.

Drive Units - Axle or Front Wheel Drive Unit

Type (front, rear)		Front
Description		Front differential with helical gears
Limited slip differential, type		None
Drive pinion offset		Not Applicable
Drive pinion type		Not Applicable
No. of differential pinions		2
Pinion adjustment (shim, other)		Not Applicable
Pinion bearing adj. (shim, other)		Not Applicable
Driving wheel bearing type		Sealed ball bearings (Intergal part of bolt-in hub units)
Lubricant	Capacity—L (pt.)	
	Type recommended	
	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 ratio		2.84	2.84	3.32	2.84	3.65	3.33
No. of teeth	Pinion	38	37	25	35	23	37
	Ring gear or gear	32	33	83	35	84	33
Ring gear O.D.		198.9(7.83)					
Transaxle	Transfer gear ratio	1.0	1.0	.73	1.0	0.81	1.0
	Final drive ratio	2.39	2.53	2.42	2.84	2.96	2.97

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) _____

Engine Description/Carb.
 Engine Code

2.5 Liter L4 (151 CID) Throttle Body Inj. RPO LRB	2.8 Liter V-6 (173 CID) 2-BBL Carburetor RPO LE2 RPO LH7 (H.O.)
---	---

Drive Units - 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	23.81 x 320.8 (0.9375 x 12.63)
		Right	23.81 x 729.4 (0.9375 x 28.72)
	Automatic transmission	Left	23.81 x 320.8 (0.9375 x 12.63)
		Right	23.81 x 421.8 (0.9375 x 16.61)
	Optional transmission	Left	--
		Right	--
Slip yoke	Type		None
	Number of teeth		None
	Spline o.d.		None
Universal joints	Make and mfg. no.	Inner	Saginaw Steering Gear
		Outer	Saginaw Steering Gear
	Number used		4
	Type, size, plunge	Inner	Double Offset Design
		Outer	Rzeppa
	Attach (u-bolt, clamp, etc.)		--
Bearing	Type (plain, anti-friction)	--	
	Lubric. (fitting, prepack)	Prepack	
Drive taken through (torque tube or arms, springs)		Wishbone lower control arm; upper MacPherson strut	
Torque taken through (torque tube or arms, 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
 Model Year 1982 Issued 8-81 Revised (*) _____

Engine Description/Carb.
 Engine Code

2-DOOR HATCHBACK	4-DOOR HATCHBACK
------------------	------------------

Drive Units – Tires And Wheels (Standard)

Tires	Size, load range, ply		P185/80R13 (BW, WS)*
	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)		526 (846)	
Wheels	Type & material		Ventilated, semi-styled disc
	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 or other)		14 x 4 wheel; compact spare tire-T125/70D14-415 (60) with Z19 Opt.15x4 wheel;compact spare tire-T125-70D15-415 (60)	

Drive Units – Tires And Wheels (Optional)

Size, load range, ply		P185/80R13 (BW, WS)*
Type (bias, radial, etc.)		Steel belted radial
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		P205/70R13 (WW, WL)**
Type (bias, radial, etc.)		Steel belted radial
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		P215/60R14 (BW, WL) @
Type (bias, radial, etc.)		Steel belted radial
Wheel type & material		Aluminum alloy
Rim (size, flange type, and offset)		14 x 6.5
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)		

Brakes – Parking

Type of control		Application-Foot operated; release - 'T' 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)	

* - N.A. with RPO F41 Sport Suspension.
 ** - Requires RPO F41 Sport Suspension.
 @ - With RPO Z19 Performance Sport Package - "X-11" only.

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) _____

Body Type And/Or
 Engine Displacement

2.5 Liter L4 (151 CID) Throttle Body Inj. RPO LR8	2.8 Liter V6 (173 CID) 2-Bbl. Carburetor RPO LE2 RPO LH7 (H.O.)
---	---

Brakes - Service

Brake type (std., opt., n.a.)	Drum	Front	Not Available	
		Rear	Standard	
	Disc	Front	Standard	
		Rear	Not Available	
Self-adjusting (std., opt., n.a.)			Standard	
Special valving	Type (proportion, delay, metering, other)		Proportioning. Diagonal Split Circuit.	
Power brake (std., opt., n.a.)			Option (a) Required Option	
Booster type (remote, integral, vac., hyd., etc.)			Tandem	
Anti-skid device type (std., opt., n.a.)			Not Available	
Effective area - cm ² (in. ²)*			530.6 (82.26)	
Gross lining area - cm ² (in. ²)**			(96.17)	
Swept area - cm ² (in. ²)**			1687.2 (261.58)	
Rotor	Outer working diameter	F	247 (9.72)	
		R	--	
	Inner working diameter	F	--	
		R	--	
	Thickness	F	22 (0.87)	
		R	--	
Material & type (vented/solid)	F	Cast iron, vented		
	R	--		
Drum	Diameter (nominal)	200 x 45 (7.87 x 1.77)		
	Type and material	Cast Iron		
Wheel cylinder bore	Front	74.6 (2.9375)		
	Rear	17 (0.67)		
Master cylinder	Bore	22 (0.87)		
	Stroke	35.52 (1.40)		
Pedal arc ratio			Manual-6.6:1; Power-3.5:1	
Line pressure at 445 N (100 lb.) pedal load - kPa (psi)			--	
Lining clearance per shoe	Front	Self Adjusting		
	Rear	Self Adjusting		
Brake lining	Front wheel	Bonded or riveted, rivets/seg	Riveted, 6	
		Rivet size	7.37 x 3.63 (.290 x .143)	
		Manufacturer	Delco Moraine	
		Lifting code	--	
		Material	Organic Metallic	
		Size	Primary or out-board: 125 x 59 x 10.85 (4.92 x 2.32 x 0.430) 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	--	
		Material	Organic	
		Size	Primary or out-board: 167.7 x 43.9 x 3.8 (6.60 x 1.73 x 0.15) 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 Working Dia minus Square of Inner Working Dia multiplied by Pi/2 for each brake)

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

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) 4-82

2.5 Liter L4 (151 CID) Throttle Body Inj. RPO LR8	2.8 Liter V6 (173 CID) 2-Bbl. Carburetor RPO LE2 RPO LH7 (H.O.)
---	---

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.)	--	
		Curb to curb (l. & r.)	--	
Manual	Gear	Type	Rack & Pinion	
		Make	Saginaw Steering Gear	
		Ratios	Gear Overall	-- 26.0:1
	No. wheel turns (stop to stop)		3.5	
	Type (coaxial, linkage, etc.)		Rack & Pinion W/End Take-Off Tie Rods - Integral	
Power	Gear	Make	Saginaw Steering Gear	
		Type	Rack & Pinion With Integral Power Unit	
		Ratios	Gear Overall	-- 17.5:1
	Pump driven by		'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.)		--	
	Tie rods (one or two)		Two	
Steering axis	Inclination at camber (deg.)		14.5	
	Bearings (type)	Upper	Ball Stud	
		Lower	Ball Stud	
		Thrust	--	
Steering spindle & joint type		--		
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	
Wheel align at curb mass (wt)	Service checking	Caster (deg)	2.0 + 2° Left and 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. inspection	Caster	Not adjustable	
		Camber	0.0 + 1.0	
		Toe-in	0.0 ± 0.4 total	

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*)

Body Type And/Or Engine Displacement	2.5 Liter L4 (151 CID) Throttle Body Inj. RPO LR8	2.8 Liter V-6 (173) 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		--
Provision for acc. squat control		--
Special provisions for car jacking		Position jack in openings in bumper lower face of front & rear bumpers
Shock absorber front & rear	Type	Front-MacPherson Strut;Rear-direct, Double Acting, Hydraulic
	Make	Delco
	Piston dia	Front-32 (1.26); Rear-25(1.0)
Other special features		--

Suspension – Front

Type and description		MacPherson with coil springs, stamped lower control arms & nodular iron steering knuckles.
Travel	Full jounce	88 (3.46)
	Full rebound	94 (3.70)
Spring	Type (coil, leaf, other)	Coil
	Material	Steel
	Size (coil design height & i.d., bar length x dia.)	500.4 (19.7) x 44.4 (1.75) x 3082 (121.3) x 13.4 (0.528)
	Spring rate—N/mm (lb./in.)	13.0 (74)
	Rate at wheel—N/mm (lb./in.)	14.7 (80)
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel - 22 (0.866)

Suspension – Rear

Type and description		Trailing arm with stamped control arms & open section transverse beam	
Drive and torque taken through		--	
Travel	Full jounce	92 (3.62)	
	Full rebound	108 (4.25)	
Spring	Type (coil, leaf, other)	Coil	
	Material	Steel	
	Size (length x width, coil design height & i.d., bar length & dia.)	364 (14.3) x 108 (4.25) x 2550 (100.4) x 12.2 (0.480)	
	Spring rate—N/mm (lb./in.)	22 (125)	
	Rate at wheel—N/mm (lb./in.)	11.8 (67)	
	Mounting insulation type		Rubber - top only
	leaf	No of leaves	--
Shackle (comp or tens.)		--	
Stabilizer	Type (link, linkless, frameless)	Integral (Standard)	
	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
 Model Year 1982 Issued 8-81 Revised (*) 4-82

Body Type	2-Door Notchback Coupe 1XH11	2-Door Hatchback Coupe 1XX08	4-Door Hatchback Sedan 1XX68
------------------	---------------------------------	---------------------------------	---------------------------------

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Acrylic lacquer or water base acrylic enamel finish	
Hood hinge location (front, rear)	Rear	
Hood counterbalance (type)	No	
Hood release control (internal, external)	Internal	
Vehicle ident no location	Top left hand in instrument panel pad	
Vent window control method (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
Method of holding luggage compart lid open	Torsion Rods	2-Telescoping Gas Strut Rods
Position of spare tire storage	Flat Under Rear Load Floor	

Passive Restraint System

Inflatable restraint system	Standard/optional	
	Type of charging system	
	Location (sig whl, instru panel, other)	
Passive seat belts	Standard/optional	
	Power/manual	
	2 or 3 point	
	Knee bar/lap belt	

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 suspensions lower control arms and engine mounts.
---	--

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) 4-82

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

Convenience Equipment

Power windows	Side windows	Optional (Coupes, front doors; Sedans, front & rear doors) (a)
	Vent windows	Not available
	Backlight or tailgate	Not available
Power seats (specify type as well as availability)	Not available	
Reclining front seat back (r-l or both)	RH - Optional, Deluxe trim only.	
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 with cassette tape, (a)	
Rear seat speaker	Optional, (a)	
Power antenna	Optional, (a)	
Clock	Optional, (a)	
A/C conditioner (specify type)	Optional (Manual Controls)	
Speed warning device	Not available	
Speed control device	Optional - with automatic transmission and power brakes only, (a)	
Ignition lock lamp	Not available	
Dome lamp	Standard	
Glove compartment lamp	*	
Luggage compartment lamp	*	
Underhood lamp	*	
Courtesy lamp	*	
Map lamp	Not available	
Cornering lamp	Not available	
Rear window defroster electrically heated	Optional	
Rear window delogger	Not available	
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
- Buzzer - Headlamp On

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*)

Optional Equipment Differential Mass (weight)*

Equipment	MASS. kg (weight, lb)			Remarks
	Front	Rear	Total	
Air Conditioning	26.6 (+58.6)	1.6 (+3.6)	28.2 (+62.2)	With L-4 Engine
	26.4 (+58.2)	1.6 (+3.6)	28.0 (+61.8)	With V-6 Engine
Power Door Lock System	0.6 (+1.4)	1.0 (+2.2)	1.6 (+3.6)	2-Door Models
	0.8 (+1.8)	2.2 (+4.8)	3.0 (+6.6)	4-Door Models
Power Windows	1.4 (+3.0)	1.0 (+2.2)	2.4 (+5.2)	2-Door Models
	2.6 (+5.8)	2.8 (+6.2)	5.4 (+12.0)	4-Door Models
Power Steering	9.8 (+21.6)	0.2 (+0.4)	10.0 (+22.0)	Required with Air Conditioning
Power Brakes	3.4 (+7.4)	0.6 (+1.4)	4.0 (+8.8)	Required with V6 Engine and Air Conditioning
Floor Mats Color Keyed, Front & Rear	1.6 (+3.6)	1.6 (+3.6)	3.2 (+7.2)	
Defogger Electric Rear Window	0 (0)	0.6 (+1.4)	0.6 (+1.4)	
Seat-Reclining Passenger Backrest	2.8 (+6.2)	2.8 (+6.2)	5.6 (+12.4)	Requires Coupe Type Front Seat or Bucket Seat.
Windows - Rear quarter swing out				Includes R.H. and L.H. Remote Control
	0 (0)	0.8 (+1.8)	0.8 (+1.8)	1XX08
	0 (0)	1.4 (+3.1)	1.4 (+3.1)	1XX68

* Also see Engine - General Section for diesel engine mass (weight)

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) _____

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg (weight, lb)			
	Front	Rear	Total	
Sport Equipment Package	5.2 (+11.5)	8.4 (+18.5)	13.6 (+30.0)	1XX08 only
Deluxe Exterior	0.6 (+1.3)	1.4 (+3.1)	2.0 (+4.4)	
Quiet Sound Group	4.8 (+10.6)	6.0 (+13.2)	10.8 (+23.8)	1XX08
	4.6 (+10.1)	6.0 (+13.2)	10.6 (+23.3)	1XX68
Electric Rear Window Defogger	0 (0)	0.6 (+1.4)	0.6 (+1.4)	
Moldings - Body Side	0.4 (+0.8)	0.4 (+0.8)	0.8 (+1.6)	
Mirrors - Outside Rear View	0.8 (+1.8)	0.4 (+0.8)	1.2 (+2.6)	Sport Mirrors L.H. Remote, R.H. Convex Manual, Body Color.
Console - Front Compartment	1.4 (+3.0)	1.2 (+2.6)	2.6 (+5.6)	Manual Transmission requires A51 Bucket Seats, Power Brakes.
	2.2 (+4.8)	2.2 (+4.8)	4.4 (+9.6)	Automatic Transmission requires A51 Bucket Seats, Power Brakes.
Control - Automatic Speed	2.4 (+5.3)	0 (0)	2.4 (+5.3)	Available only with J50 Power Brakes.
Wheel Aluminum	-2.0 (-4.4)	-2.0 (-4.4)	-4.0 (-8.8)	
Wheel, Tilt Steering	0.6 (+1.3)	0.6 (+1.3)	1.2 (+2.6)	
Covers - Full Wheel	0.6 (+1.3)	0.6 (+1.3)	1.2 (+2.6)	Requires black paint treatment on wheels.
Deluxe Wheel Trim Rings and Hub Caps	0.6 (+1.3)	0.6 (+1.3)	1.2 (+2.6)	Not available with Z19.
Bumper Rub Strips Front & Rear	0.4 (+0.8)	0.4 (+0.8)	0.8 (+1.6)	Included in Z19.

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

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

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*)

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS. kg (weight, lb.)			
	Front	Rear	Total	
Sport Suspension Front & Rear	1.2 (+2.6)	0.4 (+0.8)	1.6 (+3.4)	Included with Z19 Requires QZK Tire
Bumper Guards Front & Rear	0.4 (+0.8)	0.4 (+0.8)	0.8 (+1.6)	
Battery, Heavy Duty	7.0 (+13.2)	-0.8 (-1.8)	5.2 (+11.5)	
Radio AM/FM	0.2 (+0.4)	0 (0)	0.2 (+0.4)	
Radio AM/FM Stereo	0.2 (+0.4)	0 (0)	0.2 (+0.4)	
Radio AM/FM Stereo with Cassette Tape	2.0 (+4.4)	0.8 (+1.8)	2.8 (+6.2)	
Speakers, Dual Rear	-0.2 (-0.4)	2.2 (+4.8)	2.0 (+4.4)	
2.8 Liter V6 173 CID RPO LE2	25.4 (+56.0)	-0.4 (-0.9)	25.0 (+55.1)	Requires J50 Power Brakes
2.8 Liter V6 173 CID RPO LH7	25.4 (+56.0)	-0.4 (-0.9)	25.0 (+55.1)	1XX08 Model only, with Z19
Automatic Transmission	20.9 (+46.1)	0 (0)	20.9 (+46.1)	Used with L4, RPO LR8 Engine
	22.4 (+49.4)	0 (0)	22.4 (+49.4)	Used with V6, RPO LE2 Engine

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

MVMA Specifications Form

Passenger Car METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line CITATION
Model Year 1982 Issued 8-81 Revised (*) 4-82

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
--------------	---------------------------------	---------------------------------	---------------------------------

Width

Tread — Front	W101	1492 (58.7)	
Tread — Rear	W102	1447 (57.0)	
Vehicle width	W103	1736 (68.3)	
Body width at Bg 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 (fr./rear)	PD1,2,3		**
Trunk/Cargo load			**
Vehicle height	H101	1369 (53.9)	
Cowl point to ground	H114	912 (35.9)	
Deck point to ground	H138		
Rocker panel front to ground	H112	217 (8.6)	
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	--	286 (11.3)

Ground Clearance **

Front bumper to ground	H102	357 (14.1)	
Rear bumper to ground	H104	329 (13.0)	
Bumper to ground — front at curb mass (wt.)	H103	375 (14.8)	
Bumper to ground — rear at curb mass (wt.)	H105	356 (14.0)	
Angle of approach @ GVW	H106	19.2°	
Angle of departure @ GVW	H107	20.9°	
Ramp breakover angle @ GVW	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.		Frame between wheels	

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 CITATION
Model Year 1982 Issued 8-81 Revised (*) 4-82

Body Type

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

Front Compartment

Sg RP front, "X" coordinate	L31	1138 (44.8)	
Effective head room	H81	968 (38.1)	
Effective T Point head room	H75	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)	1430 (56.3)
Hip room	W5	1400 (55.1)	
** Upper body opening to ground	H50	1235 (48.6)	
Steering Wheel Angle	H18	22.0°	
Back Angle	L40	25.0°	

Rear Compartment

Sg RP Point couple distance	L50	786 (30.9)	
Effective head room	H83	958 (37.7)	957 (37.7)
Effective T Point head room	H78	944 (37.2)	957 (37.7)
Min. effective leg room	L81	872 (34.3)	876 (34.5)
Sg RP — second to heel	H31	258 (10.2)	261 (10.3)
Knee clearance	L48	24 (0.9)	22 (0.9)
Compartment room	L3	691 (27.2)	
Shoulder room	W4	1428 (56.2)	1430 (56.3)
Hip room	W8	1366 (53.8)	1374 (54.1)
** Upper body opening to ground	H51	--	1232 (48.5)

Luggage Compartment

Usable luggage capacity — L(cu. ft.)	V1	355 (12.5)	--
** Lifter 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
 Model Year 1982 Issued 8-81 Revised (*) 4-82

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

Station Wagon - Third Seat

Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	Not
Effective head room	H86	Applicable
Effective Tpoint 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		590 (23.2)
Cargo length at front seat back height	L208	Not	1178 (46.4)
Cargo length at floor-front	L209	Applicable	1606 (63.2)
Cargo volume index-L (cu.ft.)	V3		1172 (41.4)*
Hidden cargo volume-L (cu.ft.)	V4		1174 (41.5)*

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).
 * V1 - Hatchback, Cargo Volume Index - second seat-up, 1XX08-555 (19.6), 1XX68-556 (19.6).

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line LITATION
 Model Year 1982 Issued 8-81 Revised (*) 4-82

Body Type

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

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.
Fiducial Mark Number	
Front	W21 563 (22.2)
	L54 2770 (109.1)
	H81 259 (10.2)
	H181 302 (11.9)
** H183 277 (10.9)	
Rear	W22 489 (19.2)
	L55 5016 (197.5)
	H82 386 (15.2)
	H182 432 (17.0)
	** H184 402 (15.8)

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line CITATION
 Model Year 1982 Issued 8-81 Revised (*) 4-82

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

Glass

Backlight slope angle	H121	54.5°	65.0°	
Windshield slope angle	H122	57.0°		
Tumble-Home	W122	22.0°		
Windshield glass exposed surface area - cm ² (in ²)	S1	8362 (1296.1)		
Side glass exposed surface area - cm ² (in ²)	S2	11126 (1724.5)	12935 (2004.9)	12863 (1993.8)
Backlight glass exposed surface area - cm ² (in ²)	S3	6699 (1038.3)	7216 (1118.5)	
Total glass exposed surface area - cm ² (in ²)	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		

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	643 (25.3)
		Lowest	--
	Taillamp (H128)	Highest	619 (24.4)
		Lowest	--
	Sidemarker	Front	592 (23.3)
		Rear	620 (24.4)
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside**	
	Taillamp	Inside	
		Outside	
	Directional	Front	
		Rear	
Headlamp shape		Rectangular	

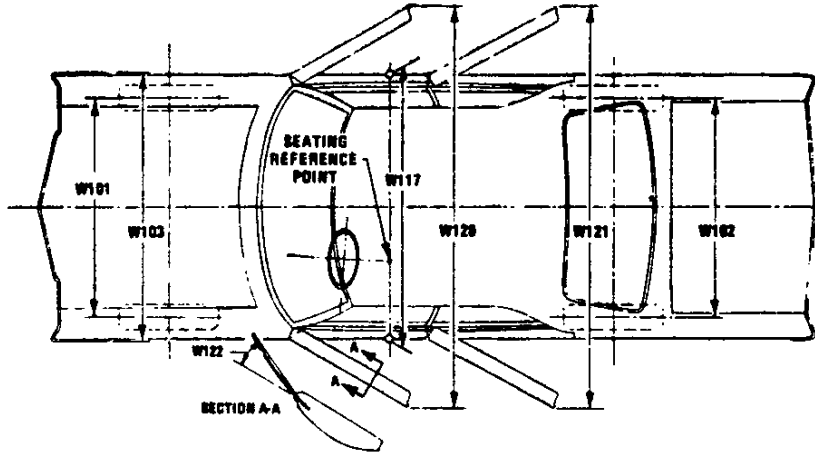
* Measured at curb mass (weight)

** If single headlamps are used enter here

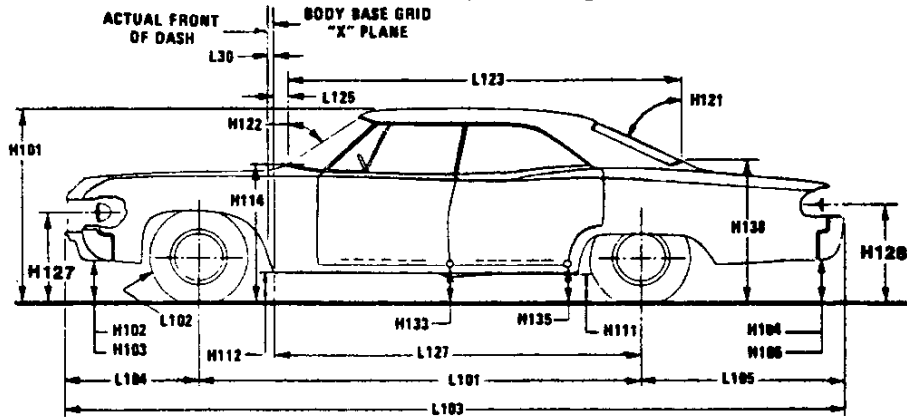
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions – Key Sheet

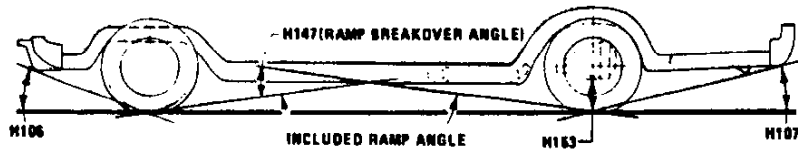
Exterior Width



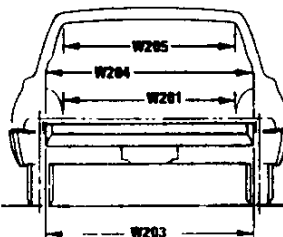
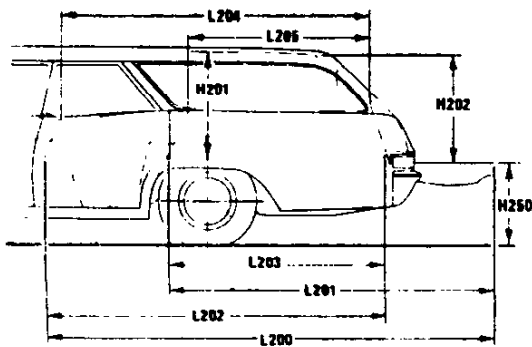
Exterior Length & Height



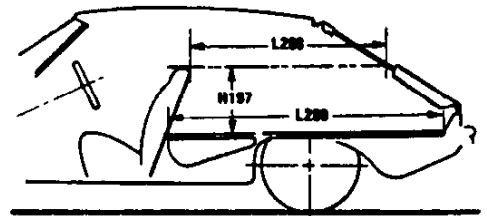
Exterior Ground Clearance



Cargo Space



Station Wagon

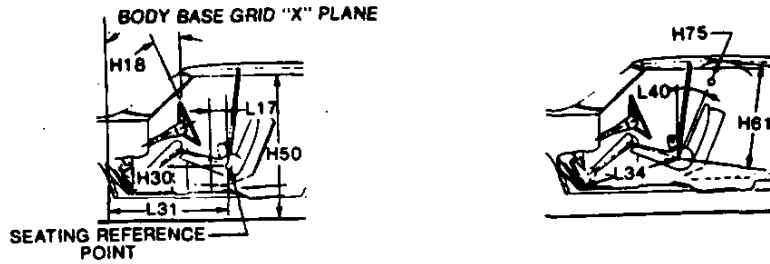


Hatchback

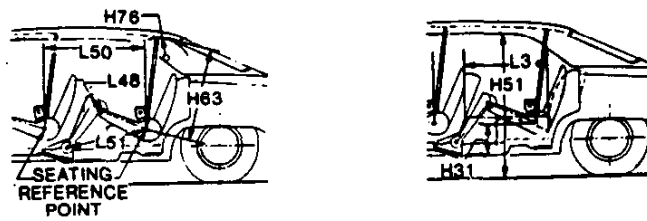
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

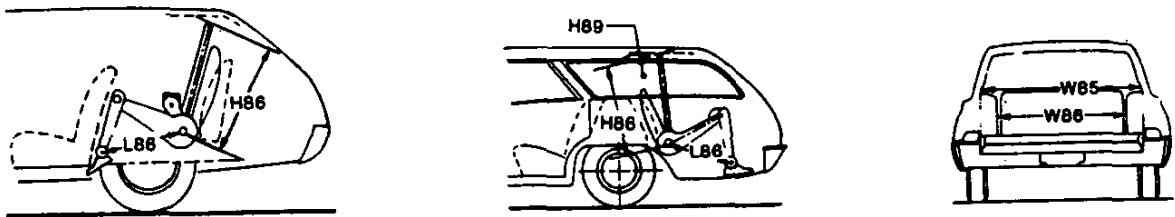
Front Compartment



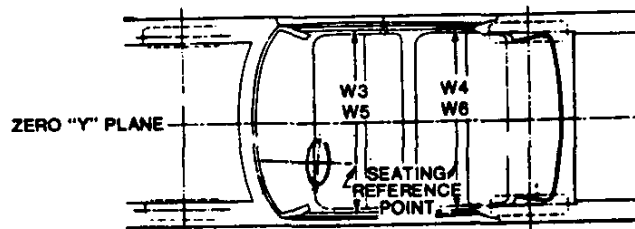
Rear Compartment



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 –

- Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- Has coordinates established relative to the design vehicle structure;
- Simulates the position of the pivot center of the human torso and thigh; and
- 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 18.0 in. (457 mm) long, drawn from the lower DLO to the intersecting point on the windshield.
- H127 HEADLAMP TO GROUND—CURB WEIGHT. The dimension measured vertically from the centerline of the lowest headlamp lens to ground.
- H128 TAILLAMP TO GROUND—CURB WEIGHT. 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 WEIGHT. 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 WEIGHT. 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 4.0 in. (102 mm).
H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 30 in. (762 mm).
L34 MAXIMUM EFFECTIVE LEG ROOM—ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP—front plus 10.0 in. (254 mm) measured with right foot on the un-depressed 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 10.0 in. (254 mm) 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 1.0 in. (25 mm) below and 3.0 (76 mm) above the SgRP—front and 3.0 (76 mm) fore and aft of 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 4.0 in. (102 mm).
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 10.0 in. (254 mm).
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 2.0 in. (51 mm).
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 10.0-16.0 in. (254-406 mm) 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 13.0 in. (330 mm) 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 10.0 in. (254 mm).
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 4.0 in. (102 mm).
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 WEIGHT). 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)

Index

Subject	Page No.	Subject	Page No.
Alternator.....	12	Lamps and Headlamp Shape.....	29
Automatic Transmission.....	15	Legroom.....	26, 27
Axis, Steering.....	19	Lengths — Car and Body.....	25
Axle, Rear.....	2, 16	Leveling, Suspension.....	20
Axle Shafts.....	16	Lifters, Valve.....	6
Battery.....	12	Linings — Clutch, Brake.....	14, 18
Bearings, Engine.....	5	Lubrication.....	7, 14, 15
Brakes — Parking, Service.....	17, 18	Luggage Compartment.....	26
Camber.....	19	Mass.....	23, 24
Camshaft.....	5	Models.....	1
Capacities		Motor, Starting.....	12
Cooling System.....	9	Muffler.....	7
Fuel Tank.....	8	Passenger Capacity.....	1
Lubricants		Passenger Mass Distribution.....	23
Engine Crankcase.....	7	Passive Restraint System.....	21
Transmission.....	15	Piston Pins & Rings.....	4
Rear Axle.....	16	Pistons.....	4
Car Models.....	1	Power Brakes.....	18
Car and Body Dimensions		Power, Engine.....	2
Width.....	25	Power Steering.....	19
Length.....	25	Power Teams.....	2
Height.....	25	Propeller Shaft, Universal Joints.....	16
Ground Clearance.....	25	Pumps — Oil, Fuel.....	7, 8
Front Compartment.....	26	Water.....	9
Rear Compartment.....	26	Radiator — Cap, Hoses.....	9
Luggage Compartment.....	26	Ratios — Axle.....	2, 15
Station Wagon — Third Seat.....	27	Compression.....	2
Station Wagon — Cargo Space.....	27	Steering.....	19
Hatchback — Cargo Space.....	27	Transmission.....	2, 14, 15
Carburetor.....	2, 8	Rear Axle.....	2, 15, 16
Caster.....	19	Regulator — Generator.....	12
Choke, Automatic.....	8	Rims.....	17
Clutch — Pedal Operated.....	14	Rings, Piston.....	4
Coil, Ignition.....	13	Rods — Connecting.....	5
Connecting Rods.....	5	Seats.....	21
Convenience Equipment.....	22	Shock Absorbers, Front & Rear.....	20
Cooling System.....	9	Spark Plugs.....	13
Crankshaft.....	5	Speedometer.....	13
Cylinders and Cylinder Head.....	3	Springs — Front & Rear Suspension.....	20
Diesel Engine.....	8	Stabilizer (Sway Bar) — Front & Rear.....	20
Dimension Definitions		Starting System.....	12
Key Sheet — Exterior.....	30, 32	Steering.....	19
Key Sheet — Interior.....	31, 33, 34	Suppression — Ignition, Radio.....	13
Electrical System.....	12, 13	Suspension — Front & Rear.....	20
Emission Controls.....	10, 11	Tail Pipe.....	7
Engine		Theft Protection.....	22
Bore, Stroke, Type.....	3	Thermostat, Cooling.....	9
Compression Ratio.....	2	Timing — Valve.....	6
Displacement.....	2, 3	Tires.....	17
Firing Order, Cylinder Numbering.....	3	Toe-in.....	19
General Information, Power & Torque.....	2	Torque Converter.....	15
Identification Number Location.....	21	Torque — Engine.....	2
Lubrication.....	7	Transaxle.....	15
Power Teams.....	2	Transmission — Types.....	2, 14, 15
Exhaust System.....	7	Transmission — Automatic.....	2, 14, 15
Equipment Availability, Convenience.....	22	Transmission — Manual.....	2, 14, 15
Fan, Cooling.....	9	Transmission — Ratios.....	2, 15
Fiducial Marks.....	28	Tread.....	25
Filters — Engine Oil, Fuel System.....	7	Trunk Cargo Load.....	1
Frame.....	21	Trunk Luggage Capacity.....	26
Front Suspension.....	20	Turning Diameter.....	19
Front Wheel Drive Unit.....	16	Unitized Construction.....	21
Fuel, Fuel Pump, Fuel System.....	3, 8	Universal Joints, Propeller Shaft.....	16
Fuel Injection.....	8	Valves — Intake & Exhaust.....	6
Generator and Regulator.....	12	Vehicle Identification Number.....	21
Glass.....	29	Voltage Regulator.....	12
Headroom — Body.....	26, 27	Water Pump.....	9
Heights — Car and Body.....	25	Weights.....	23, 24
Horns.....	13	Wheel Alignment.....	19
Horsepower — Brake.....	2	Wheelbase.....	25
Ignition System.....	13	Wheels & Tires.....	17
Inflation — Tires.....	17	Wheel Spindle.....	19
Instruments.....	13	Widths — Car and Body.....	25
Kingpin (Steering Axis).....	19	Windshield.....	29
		Windshield Wiper and Washer.....	13

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

Car Line _____

Model Year _____ Issued _____ Revised (*) _____
