

# Specifications

## Form

# Passenger Car

# 1983

METRIC (U.S. Customary)

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

Revised sheets-4, 5, 6, 8, 9, 11, 17, 21, 23

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



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**Passenger Car**  
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Car Line CHEVETTE  
 Model Year 1983 Issued 7-23-82 Revised (\*) \_\_\_\_\_

**Car Models**

Model Description	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No of Designated Seating Positions (Front/Rear)		Max. Truck/Cargo Load—Kilograms (Pounds)
Chevette					
Scooter 2-Door Hatchback Coupe		1TJ08	Front 2	Rear 2	45.4 (100.1)
4-Door Hatchback Sedan		1TJ68	2	2	45.4 (100.1)
Base Models					
2-Door Hatchback Coupe		1TB08	2	2	45.4 (100.1)
4-Door Hatchback Sedan		1TB68	2	2	45.4 (100.1)

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

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**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) Base - Opt
	Diapl. Liters (in <sup>3</sup> )	Carb. (Barrels, Fl. etc.)	Compr. Ratio	SAE Net at RPM		Exhaust System*		
				kW (bhp)	Torque N - m (lb. ft.)			
Base - 49 States 1TJ08 & 68 1TB08 & 68	L-4 1.6 Liter (98 CID) L17	2	9.0:1	65 @ 5200	80 @ 3200	S	Man 4-Speed - Base (3.75:1 low)	3.36:1 3.62:1 <sup>@</sup>
							Man 5-Speed Avail*(3.76:1 low) exc. 1TB68	3.36:1 --
							Auto '180c' - Avail	3.36:1 3.62:1
Calif only 1TJ08 & 68 1TB08 & 68	L-4 1.6 Liter (98 CID) L17	2	9.0:1	65 @ 5200	80 @ 3200	S	Man 4-Speed Base (3.75:1 low)	3.62:1 --
							Auto '180c' - Avail	3.36:1 3.62:1
Available All States	L-4 1.8 Liter (111 CID) LJ5 ø	F.I. Die- sel	22.0:1	51 @ 5000	72 @ 2000	S	Man 5-Speed Base (3.79:1 low)	3.36:1 --
							Auto '200c' - Avail	3.36:1 3.62:1
* - Not available with air conditioning or power steering. @ - With air conditioning. ø - Not available with air conditioning.								

\* S-Single D-Dual

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Engine Description/Carb. Engine Code	1.6 LITER L-4 (98 CID) 2-BBL. CARBURETOR RPO L17	1.8 LITER L-4 (111 CID) FUEL INJECTION (DIESEL) RPO LJ5
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**ENGINE - GENERAL**

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, etc.)	OHC, In line Front Longitudinal	
No. of cylinders	4	
Bore	82 (3.23)	84 (3.31)
Stroke	75.7 (2.98)	82 (3.23)
Bore spacing (c/l to c/l)	93.0 (3.7)	99.5 (3.9)
Cylinder block material	Cast alloy iron	
Cylinder block deck height	198 (7.8)	218.5 (8.6)
Deck clearance (minimum) (above or below block)	Zero	
Cylinder head material	Cast alloy iron	
Cylinder head volume (cm <sup>3</sup> )		
Head gasket thickness (compressed)	.95 (.037)	1.40 (0.055)
Minimum combustion chamber volume (cm <sup>3</sup> )	42.7	19.48
Cyl. no. system (front to rear)*	L Bank	1-2-3-4
	R Bank	--
Firing order	1-3-4-2	
Recommended fuel (leaded, unleaded, diesel)	Unleaded	Diesel #2
Fuel antiknock index (R + M) 2	87	--
Total dressed engine mass (wt) dry**	144.1 (317.7)	172 (379.3)

**Engine - Pistons**

Material	Cast aluminum alloy	
Mass, g (weight, oz.) - Piston Only	364 (12.84)	540 (19.05)

**Engine - Camshaft**

Location	In cylinder head	
Material (kg., weight, lbs.)	Cast alloy iron	
Mass (kg., weight, lbs.)	2.946 (6.49)	2.100 (4.63)
Type of drive (chain or belt)	Width	19 (.748)
	Pitch	9.5 (.375)
		30 (1.181)
		9.525 (0.375)

\* 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.

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**Engine - Valve System**

Liters (std. opt. n.a.)	Hydraulic	Hydraulic valve lash adjusters	Mechanical valve lash adjusters
	Solid	--	

**Engine - Connecting Rods**

Material & mass (kg. weight, lbs.)	.354 (0.780) Forged steel 1141	.730 (1.609) Forged alloy steel
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**Engine - Crankshaft**

Material (kg. weight, lbs.)	Nodular cast iron	Forged steel, softnitrided
Mass (kg. weight, lbs.)	12.474 (27.50)	14.500 (32.00)
End thrust taken by bearing (no.)	5	3

**Engine - Lubrication System**

Normal oil pressure (kPa (psi) at engine rpm)	397 (57) @ 1200	441 (64) @ 5000
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full flow	
Capacity of c/case, less filter-refill-L (qt)	3.8 (4.0)	4.7 (5.0)

**Engine - Diesel Information**

Glow plug current drain at 0°F		(*)
Injector nozzle	Type	Not
	Opening pressure (kPa (psi))	Available
Pre-chamber design		Pintle
Fuel injection pump	Manufacturer	11760 (1707)
	Type	Ricardo Comet V
Supplementary vacuum source (type)		Diesel Kiki
		Bosch VE
		Generator Driven

(\*) 180 Amps decreasing to 50 Amps as glow plugs heat up.

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

Induction type: carburetor, fuel injection system, etc		Carburetor	Fuel Injection	
Carburetor	Mfr.	Holley		
	Choke (type)	Electric	None	
	Idle spd -rpm (spec. neutral or drive and propane if used)	Manual	800 (700 with 3.36:1 axle)	
		Automatic	700	
Idle A/F mix		Preset - no adjustment provided		
Fuel injection	Point of injection (no.)	--	Head, 4	
	Constant, pulse, flow	--	Pulse	
	Control (electronic, mech.)	--	Mechanical	
	System pressure (kPa (psi))	--		
Intake manifold heat control (exhaust or water) thermostatic or fixed		Exhaust Replaceable paper element, single snorkel	None	
Air cleaner type	Standard		Remote paper element	
	Optional	--		
Fuel pump	Type (elec or mech.)	Mechanical	Engine mounted - Integral	
	Location (eng. tank)	Lower LF	with injection pump	
	Pressure range (kPa (psi))	34-45- (5.0 - 6.5)		

**Fuel Tank**

Capacity (refill L (gallons))		47.3 (12.5) approximately
Location: (describe)		
Attachment:		
Material:		
Filler pipe	Location & material	Left rear quarter panel
	Connection to tank	
Fuel line (material)		
Fuel hose (material)		
Return line (material)		
Vapor line (material)		
Extended range tank	Opt. n.a	
	Capacity (L (gallons))	
	Location & material	
	Attachment	
Auxiliary tank	Opt. n.a	
	Capacity (L (gallons))	
	Location & material	
	Attachment	
	Selector switch or valve	
Separate fill		



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**Engine - Cooling System**

Coolant recovery system (std., opt., n.a.)		Standard		
Coolant fill location (rad., bottle)				
Radiator cap relief valve pressure (kPa (psi))		103.4 (15.0)		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at °C (°F)	88 (190)	82 (180)	
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	5.5		
	Number of pumps	one		
	Drive (V-belt, other)	V-belt		
	Bearing (type)	Double row ball		
By-pass recirculation (type (inter., ext.))		Internal	External	
Radiator core (type (cross-flow vertical; cellular tube and fin, other) and material)		Cross flow		
Cooling system capacity	With heater - L(qt.)	8.51 (9) Auto, 8.55 (9.04) Man		
	With air cond - L(qt.)	8.67 (9.16) Auto, 8.76 (9.26) Man		
	Opt. equipment (specify - L(qt.))	8.67 (9.16) Auto, 8.76 (9.26) Man. H.D. Rad.		
Water jackets full length of cyl. (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator core	Standard	Width	304.8 (12.0)	430.0 (16.9)
		Height	375.2 (14.8)	387.5 (15.25)
		Thickness	31.5 (1.24)	25.0 (.98)
		Fins per inch	6.2	7.26
	A/C	Width	426.7 (16.8)	None
		Height	375.2 (14.8)	None
		Thickness	31.5 (1.24)	None
		Fins per inch	5.5	None
	Heavy duty	Width	426.7 (16.8)	None
		Height	375.2 (14.8)	None
		Thickness	31.5 (1.24)	None
		Fins per inch	7.06	None
Fan (standard)	Number of blades & type (flex, solid, material)		4, staggered	7, plastic blades, fan clutch
	Diameter & projected width		330 (13.0)	390 (15.35)
	Ratio (fan to crankshaft rev.)		1.07	1.11
	Fan cutout type		None	Clutch, Thermo-modulated
	Drive (type (direct, remote))		V-Belt - one	
	Fan shroud (material)		Plastic	
Fan (electric)	Diameter & projected width		None	
	RPM at idle		None	
	Motor rating (wattage)		None	
	Motor switch (type & location)		None	
	Switch point (temp., pressure)		None	
	Fan shroud (material)		None	
Fan (optional)	No. of blades and spacing		7, staggered	None
	Diameter & projected width		360 (14.17)	--
	Ratio (fan to crankshaft rev.)		1.07	--
	Fan cut-out (type)		Clutch, thermo-modulated	--
	Drive (type direct, remote)		V-Belt - one	--

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**Vehicle Emission Control**

Exhaust Emission Control	Type (air injection, engine modifications, other)		Computer Command Control with air injection.	None
	Air Injection	Pump (type)	Vane	
		Driven by	V-Belt	
		Air distribution (head, manifold, etc.)	Converter	
		Point of entry		
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow	None
		Exhaust source	Manifold	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet Manifold Dual Bed, Oxidizing &	
	Catalytic Converter	Type	Reducing	None
		Number of	One	
Location(s)		Beneath RF Underbody		
Volume [L (in <sup>3</sup> )]		2.782 (170)		
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System	
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	None
	Discharges to intake manifold (other)		Inlet Manifold	
	Air inlet (breather cap, other)		Carburetor Air Cleaner	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	
		Carburetor	Canister	
	Vapor Storage provision (crankcase, canister, other)		Canister	

**Engine - Exhaust System**

Type (single, single with cross-over, dual, other)		Single	
Muffler no & type (reverse flow, straight thru, separate resonator)		One, Reverse flow	Not Available
Resonator no & type		Not Available	One, straight thru
Exhaust pipe	Branch o.d. wall thickness		
	Main o.d. wall thickness	44.45X.81 (1.75X.032)	50.8X1.83 (2.0X.072)
	Material	(1)	Aluminum coated steel
Inter-mediate pipe	o.d. & wall thickness	50.8X1.83 (2.0X.072)	
	Material	Aluminum coated steel	
Tail pipe	o.d. & wall thickness	44.45X1.83 (1.75X.072)	
	Material	Aluminum coated steel	

(1) Laminated tubing - steel inner, stainless steel outer.

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1.6 LITER L-4 (98 CID) 2-BBL CARBURETOR RPO L17	1.8 LITER L-4 (111 CID) FUEL INJECTION (DIESEL) RPO L35
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**Electrical - Supply System**

Battery	Voltage (V & total plates)	12 Volt	
	Minimum reserve cranking	60 min (man), 70 min (Auto)@	115 minutes
	SAE capacity (ampal)	310 (man)-base, 390 (man)-HD 355(auto)-base, 390(auto)-HD	550
	Location	Engine Compartment, R.F.	Engine Compartment, L.F.
Generator or alternator	Type and rating	42 amps	50 amps
	Ratio (alt crank/rev)	2.1	1.75
	Optional (type & rating)	None	
Regulator	Type	Micro circuit; integral	Integrated circuit

**Electrical - Starting System**

Start motor	Current drain at -20°F	235 Manual, 270 Automatic	440
Motor drive	Engagement type	Positive shift solenoid	
	Pinion engages from (front, rear)	Rear	

@ - 90 minutes with H. D. battery

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**Electrical - Ignition System**

Type	Conventional (std. opt. n.a.)		Not available
	Transistorized (std. opt. n.a.)		--
	Other (specify)		High Energy Ignition (HEI)
Coil	Make		Delco Remy
	Model		1115454
	Current	Engine stopped - A	0
		Engine idling - A	3.5 Max
			NOT APPLICABLE
Spark plug	Make		AC
	Model		R42TS
	Thread (mm)		M14X1.25
	Tightening torque (N-m (lb. ft.))		9-20 (7-15)
	Gap		0.889 (.035)
Distributor	Make		Delco Remy
	Model		1103504

**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.
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**Electrical - Instruments and Equipment**

Speed-ometer	Type	Circular Dial with Pointer
	Trip odometer (std. opt. n.a.)	Not Available
EGR maintenance indicator		None
Charge indicator	Type	Tell-Tale Warning Light
	Warning device	None
Temperature indicator	Type	Tell-Tale Warning Light
	Warning device	None
Oil pressure indicator	Type	Tell-Tale Warning Light
	Warning device	None
Fuel indicator	Type	Electric Gage
	Warning device	None
Wind-shield wiper	Type (standard)	Electric 2-Speed
	Type (optional)	None
	Blade length	403.4 (15.9 in)
	Swept area (cm <sup>2</sup> (in <sup>2</sup> ))	3951 (612.5 in <sup>2</sup> )
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 and brake failure warning light, restraint system warning light and buzzer.	

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**Transmissions**

Manual 3-speed (std., opt., n.a.)	Not available	
Manual 4-speed (std., opt., n.a.)	Base	Not available
Manual 5-speed (std., opt., n.a.)	Optional	Base
Manual overdrive (std., opt., n.a.)	Included with 5-speed transmission	
Automatic (std., opt., n.a.)	Optional (with converter clutch)	
Automatic overdrive (std., opt., n.a.)	Not available	

**Manual Transmission**

Number of forward speeds	4	5	5	
Transmission ratios	In first	3.75	3.76	3.79
	In second	2.16	2.18	2.18
	In third	1.38	1.36	1.42
	In fourth	1.00	1.00	1.00
	In fifth	--	.86	.86
	In overdrive	--	--	--
	In reverse	3.82	3.76	3.76
Synchronous meshing (specify gears)	All forward gears			
Shift lever location	Floor mounted			
Lubricant	Capacity (L (pt.))	1.6 (3.4)	1.55 (3.3)	
	Type recommended	GL-5 Gear Lubricant		
	SAE viscosity number	Summer	80W or 80W-90	SAE 5W-30SF
		Winter	80W or 80W-90	SAE 5W-30SF
		Extreme cold	80W or 80W-90	SAE 5W-30SF

**Clutch (Manual Transmission)**

Make & type	(1) Borg & Beck, Dry Single Plate		Daikin, Dry Single Plate
Type pressure plate springs	Diaphragm		Diaphragm
Total spring load (N (lb.))	4182 (940) (2)		3234 (727)
No. of clutch driven discs	One		
Clutch facing	Material	Molded Type Asbestos	Special Woven N13
	Manufacturer	Borg & Beck (3)	Hitachi Kasei
	Part number	14032337 (4-spd) (4)	94241951
	Rivets/plate	16 (5)	
	Rivet size	3.63 x 5.41 (.143 x .213)	4.0 (0.157)
	Outside & inside dia.	180 x 131 (8.0 x 6.0)	180 x 131 (8.0 x 5.16)
	Total eff. area (cm <sup>2</sup> (in <sup>2</sup> ))	142 (22.0)	362.9
	Thickness	8.128 (.320)	3.5 (.138)
Engagement cushion method	Flat Spring Steel Between Facings		
Release bearing	Type & method of lubrication	Single Row Ball, Packed & Sealed	Angular Contact Ball Bearings Packed & Sealed
Torsional damping	Method springs, friction material	Coil Springs	

- (1) - Luk Inc., dry single plate for 5- spd.      (4) - 14061690 for 5-spd.  
 (2) - 5512 (1240) for 5-spd.      (5) - 18 for 5 spd.  
 (3) - Luk Inc., for 5-spd.

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**Automatic Transmission**

Trade name		3-Speed Automatic	
Type (describe)		Torque converter with planetary gears	
Selector	Location	'180c'	Floor mounted '200c'
	Ltr/No designation	P-R-N-D-2-1	
Gear ratios	R	1.92	2.07
	D	1.00	1.00
	L <sub>3</sub>	1.48	1.57
	L <sub>2</sub>	2.40	2.74
	L <sub>1</sub>	Not Available	Not Available
Max upshift speed - drive range (km/h (mph))		100.6 (62.5)	Not Available
Max kickdown speed - drive range (km/h (mph))		90.1 (56.0)	Not Available
Min overdrive speed (km/h (mph))		Not Available	Not Available
Torque converter	Number of elements	3	
	Max ratio at stall	2.25	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	245 (9.65)	
Lubricant	Capacity (refill L (pt))	2.8 (6.0)	
	Type recommended	Dexron II	
Special transmission features		Torque Converter Clutch, 3rd Gear Lock-Up	

**Axle or Front Wheel Drive Unit**

Type (front, rear)		Rear		
Description		Semi-floating with hypoid overhung pinion gear		
Limited slip differential (type)		Not available		
Drive pinion offset		28.4 (1.12)		
Drive pinion (type)		Hypoid gear		
No. of differential pinions		Two		
Pinion adjustment (shim, other)		Shims		
Pinion bearing adj. (shim, other)		Collapsible Sleeve		
Driving wheel bearing (type)		Direct Single Row Ball		
Lubricant	Capacity (L (qt.))	0.8 (1.75)		
	Type recommended	GL-5 Gear Lubricant		
	SAE viscosity number	Summer	80W or 80W-90	
		Winter	80W or 80W-90	
Extreme cold		80W or 80W-90		

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

Axle ratio or overall ratio (:1)		3.36, 3.62	
No. of teeth	Pinion	10	
	Ring gear or gear	37	
Ring gear od		165 (6.50)	
Transaxle	Transfer gear ratio	Not available	
	Final drive ratio	Not available	

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	1TB08	1TJ08	1TB68	1TJ68

**Propeller Shaft – Conventional Drive**

Type (straight tube, tube-in-tube, internal-external damper, etc.)		(a) (b)	
Outer diam x length* x wall thickness	Manual 3-speed trans	Not available	
	Manual 4-speed trans.	50.8 x 731.5 x 1.40 (2.0 x 28.8 x .055)	
	Manual 5-speed trans.	50.8 x 535.2 x 1.40 (2.0 x 21.1 x .055)	
	Overdrive	Not available	
	Automatic transmission	50.8 x 586.0 x 1.40 (2.0 x 23.1 x .055)	
Inter-mediate bearing	Type (plain, anti-friction)	Anti-Friction	
	Lubrication (fitting, prepack)	Prepacked	
Slip yoke	Type	Spline	
	Number of teeth	27	
	Spline o.d.	28 (1.12)	
Universal joints	Make and mfg no	Front	Saginaw 23
		Rear	
	Number used	Two	
	Type (ball and trunnion, cross)	Cross	
	Rear attach (u-bolt, clamp, etc.)	U-Bolt	
	Bearing	Type (plain, anti-friction)	Anti-Friction
Lubric. (fitting, prepack)		Prepacked	
Drive taken through (torque tube, arms or springs)		Control Arms	
Torque taken through (torque tube, arms or springs)		Torque Tube	

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

(a) Straight tube attached to 'U' joints to a solid steel pinion extension. A torque tube housing extension shaft is bolted.

(b) Tuned torsional damper used with automatic transmission and gasoline engines.

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

Car Line CHEVETTE  
 Model Year 1983 Issued 7-23-82 Revised (\*) \_\_\_\_\_

Engine Description/Carb.  
 Engine Code

2-DOOR HATCHBACK COUPES		4-DOOR HATCHBACK SEDANS	
11B08	11J08	11B68	11J68

**Tires And Wheels (Standard)**

Tires	Size (load range, ply)		P155/80R-13 (BW, WW)
	Type (bias, radial, etc.)		Glass belted radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	205 (30)
		Rear [kPa (psi)]	205 (30)
Rev./mile—at 70 km/h (45 mph)		569 (916)	
Wheels	Type & material		Short Yoke Disc, Steel
	Rim (size & flange type)		13 x 5
	Wheel offset		37 mm
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100 mm
Number & size		4 hex nuts - M12 x 1.5	
Spare	Tire and wheel (same, if other describe)		14 x 4 (49 mm); compact tire - T115/70D-14
	Storage position & location (describe)		Flat under rear load floor

**Tires And Wheels (Optional)**

Size (load range, ply)	P175/70R-13 (BW, WW)
Type (bias, radial, etc.)	Steel belted radial
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
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)	

**Brakes - Parking**

Type of control	Grip handle	
Location of control	On floor between seats	
Operates on	Rear service brakes	
If separate from service brakes	Type (internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--



**MVMA Specifications Form**  
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Car Line CHEVETTE  
 Model Year 1983 Issued 7-23-82 Revised (\*)

Body Type And/Or  
 Engine Displacement

2-Door Hatchback Coupes		4-Door Hatchback Sedans	
1TB08	1TJ08	1TB68	1TJ68

**Brakes - Service**

Description					
Brake type (std., opt., n.a.)	Front (disc or drum)		Disc		
	Rear (disc or drum)		Drum		
Self-adjusting (std., opt., n.a.)			Standard		
Special valving	Type (proportion, delay, metering, other)		Proportioning		
			Optional		
Power brake (std., opt., n.a.)			Integral		
Booster type (remote, integral, vac., hyd., etc.)			Not available		
Anti-skid device type (std., opt., n.a.)			514.9 (79.83)		
Effective area [cm <sup>2</sup> (in. <sup>2</sup> )]*			--		
Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]**			1804.5 (279.77)		
Rotor	Outer working diameter	F	246 (9.68)		
		R	--		
	Inner working diameter	F	143.8 (5.66)		
		R	--		
	Thickness	F	11 (.433)		
		R	--		
	Material & type (vented/solid)	F	Cast Iron, Solid		
		R	--		
Drum	Diameter (nominal)	F	--		
		R	200 (7.87)		
Type and material			Duo-Servo; Cast Iron		
Wheel cylinder bore	Front		52 (2.05)		
	Rear		17.5 (0.69)		
Master cylinder	Bore		22 (0.87)		
	Stroke		33 (1.30)		
Pedal arc ratio			6.5:1 Manual; 4.75:1 Power		
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.)		Bonded	
		Rivet size		--	
		Manufacturer		Delco Moraine	
		Lining code		--	
		Material		Semi - Metallic	
		****	Primary or out-board		117 x 54.7 x 10.9 (4.6 x 2.15 x .43)
			Secondary or in-board		123 x 48.8 x 11.4 (4.8 x 1.92 x .45)
		Size			
	Shoe thickness (no lining)			--	
	Rear wheel	Bonded or riveted (rivets/seg.)		Riveted	
		Manufacturer		Delco Moraine	
		Lining code		--	
		Material		Organic	
		****	Primary or out-board		167.7 x 43.9 x 3.8 (6.6 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)	
Size					
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.

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Car Line CHEVETTE  
 Model Year 1983 Issued 7-23-82 Revised (\*) \_\_\_\_\_

Body Type And/Or  
 Engine Displacement

2-Door Hatchback Coupes		4-Door Hatchback Sedans	
1TB08	1TJ08	1TB68	1TJ68

**Steering**

Manual (std., opt., n.a.)		Standard		
Power (std., opt., n.a.)		Optional (a)		
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt-Universally Jointed Steering Shaft at Base of Steering Wheel		
	(Std., opt., n.a.)	Optional		
Wheel diameter	Manual	381 (15.0)		
	Power	381 (15.0)		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.5 (34.3)	
		Curb to curb (l. & r.)	9.2 (30.2)	
	Inside rear	Wall to wall (l. & r.)	5.0 (16.5)	
		Curb to curb (l. & r.)	4.8 (15.9)	
Manual	Gear	Type	Rack & Pinion	
		Make	Saginaw Steering Gear	
		Ratios	Gear Overall	
			19.0:1	18.4:1
	No. wheel turns (stop to stop)		3.6	
Power	Type (coaxial, linkage, etc.)			
	Make		Saginaw Steering Gear	
	Gear	Type	Rack & Pinion with Integral Power Unit	
		Ratios	Gear Overall	18.0:1
	Pump (drive)		'V' Belt Off Crankshaft Pulley	
No. wheel turns (stop to stop)		--		
Linkage	Type		Rack and Pinion	
	Location (front or rear of wheels, other)		Front	
	Drag links (trans. or longit.)		None	
	Tie rods (one or two)		Two	
Steering axis	Inclination at camber (deg.)		7.55	
	Bearings (type)	Upper	Ball Joint	
		Lower	Ball Joint	
		Thrust	None	
Steering spindle & joint type		Forged Knuckle w/Upper & Lower Spherical Joints		
Wheel spindle	Diameter	Inner bearing	26.97 (1.06)	
		Outer bearing	17.45 (0.69)	
	Thread (size)		3/4 - 20 NEF (MIG-T)	
	Bearing (type)		Tapered Roller	

(a) With gas engine, automatic transmission must be ordered.

**MVMA Specifications Form**  
**Passenger Car**  
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Body Type And/Or  
 Engine Displacement

2-Door Hatchback Coupes		4-Door Hatchback Sedans	
1TB08	1TJ08	1TB68	1TJ68

**Wheel Alignment**

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+3.0° to +7.0°
		Camber (deg.)	-.5° to +.9°
		Toe-in (outside track-mm (in.))	-.02° to +.14° (-.5 mm to +3.5 mm)
	Service reset*	Caster	+5.0° +/- 1°
		Camber	+2.2° +/- .4°
		Toe-in	+1.06° +/- .04° (+1.5 +/- 1.00 mm)
	Periodic M.V. inspection	Caster	+3.0° to +7.0°
		Camber	-1.25° to +1.75°
		Toe-in	-.02° to +.14° (-.5 mm to +3.5 mm)
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	
		Toe-in (outside track-mm (in.))	
	Service reset*	Camber	
		Toe-in	
	Periodic M.V. inspection	Camber	
		Toe-in	

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

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Car Line CHEVETTE  
 Model Year 1983 Issued 7-23-82 Revised (\*) 2-83

Body Type And/Or  
 Engine Displacement

2-Door Hatchback Coupes		4-Door Hatchback Sedans	
1TB08	1TJ08	1TB68	1TJ68

**Suspension - General**

Car leveling	Std/opt/n/a	None
	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		Bumper Slots in Bottom of Front & Rear Bumper Face Bars
Shock absorber (front & rear)	Type	Direct, Double Acting, Hydraulic
	Make	Delco
	Piston diameter	25 (1.0)
Other special features		--

**Suspension - Front**

Type and description		Independent SLA
Travel	Full bounce	87.7 mm (3.4 in)
	Full rebound	91.4 mm (3.6 in)
Spring	Type (coil leaf other)	Coil
	Material	Steel Alloy
	Size (coil design height & i.d., bar length x dia)	209.3 (8.24) x 81.7 (3.22) x 2690.8 (105.9) x 12.06 (0.475)
	Spring rate (N/mm (lb/in))	28.0/59.5 (160.0/339.0)
	Rate at wheel (N/mm (lb/in))	13.05 (74.0)
Stabilizer	Type (link linkless frameless)	Link
	Material & bar diameter	HR Steel - 22 (.87)

**Suspension - Rear**

Type and description		Solid Axle, Positioned by Links, Torque Tube & Track Bar
Drive and torque taken through		Control Arms, Torque Tube
Travel	Full bounce	86.0 mm (3.4 in)
	Full rebound	136.0 mm (5.3 in)
Spring	Type (coil leaf other)	Coil
	Material	Steel Alloy
	Size (length x width coil design height & i.d., bar length & dia)	233.7 (9.20) x 92.62 (3.65) x 2301.9 (90.6) x 13.19 (0.519)
	Spring rate (N/mm (lb/in))	27.1/31.1 (155.0/178.0)
	Rate at wheel (N/mm (lb/in))	20.5 (117.0)
	Mounting insulation (type)	--
	if leaf	No. of leaves
	Shackle (comp or lens)	--
Stabilizer	Type (link linkless frameless)	None
	Material & bar diameter	--
Track bar (type)		Tubular, with Rubber Bushings

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Body Type

2-Door Hatchback Coupes		4-Door Hatchback Sedans	
1TB08	1TJ08	1TB68	1TJ68

**Body - Miscellaneous Information**

Type of finish (lacquer, enamel, other)		Acrylic Lacquer		
Hood	Hinge location (front, rear)	Rear		
	Type (counterbalance, prop)	Prop Rod		
	Release control (internal, external)	Internal		
Trunk lid	Type (counterbalance, other)	Telescoping gas strut - left side		
	Internal release control (elec., mech., n.a.)	Not available		
Bumper front	Bar material & mass (wt.)	Steel 9.365 (20.6)		
	Reinforcement material & mass (wt.)	Steel 2.835 ( 6.2)		
Bumper rear	Bar material & mass (wt.)	Steel 8.487 (18.7)		
	Reinforcement material & mass (wt.)	None		
Vent window control (crank, friction, pivot, power)	Front	None		
	Rear	Friction pivot	None	None
Seat cushion type	Front	Formed foam pad		
	Rear	Formed foam pad		
	3rd seat	None		
Seat back type	Front	Formed foam pad		
	Rear	Formed foam pad		
	3rd seat	None		
Vehicle ident. no location		Top left hand of instrument panel pad		

**Passive Restraint System**

Inflatable restraint system	Standard/optional	None		
	Type of charging system			
	Location (stg, 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 with crossmember reinforcement.
---	--



**MVMA Specifications Form  
Passenger Car**

Car Line CHEVETTE  
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**FEATURE HIGHLIGHTS**

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

**BODY:** \_\_\_\_\_

**CHASSIS:** \_\_\_\_\_

**ENGINE:** \_\_\_\_\_

**ELECTRICAL:** \_\_\_\_\_

**OTHER:** \_\_\_\_\_





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Car Line CHEVETTE  
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Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
Air Conditioning	27.8	0	27.8	4-Speed transmission
	(+61.3)	(0)	(+61.3)	
	27.0	0	27.0	Automatic transmission
	(+59.5)	(0)	(+59.5)	
Floor Mats Front & Rear	2.0	1.2	3.2	
	(+ 4.4)	(+2.6)	(+ 7.0)	
Power Brakes	2.6	0.6	3.2	
	(+ 5.7)	(+1.3)	(+ 7.0)	
Power Steering	9.0	0	9.0	
	(+19.8)	(0)	(+19.8)	
Deluxe Exterior	0.4	0.2	0.6	1TB00
	(+ 0.9)	(+0.4)	(+ 1.3)	
Dual Sport Rear	0.8	0.4	1.2	1TB00
View Mirrors (L.H. Remote Man Convex RH)	(+ 1.8)	(+0.8)	(+ 2.6)	
Molding-Body Side	0.4	0.6	1.0	1TJ08
	(+ 0.8)	(+1.4)	(+ 2.2)	
Heavy Duty Battery	(+ 2.6)	-0.2	2.4	
	(+ 5.7)	(-0.4)	(+ 5.3)	
Electric Rear Window Defogger	0	0.8	0.8	
	(0)	(+1.8)	(+ 1.8)	
Luggage Carrier	1.8	3.2	5.0	1TB & 1TJ08
	(+ 4.0)	(+7.0)	(+11.0)	
	2.0	3.4	5.4	1TB & 1TJ68
	(+ 4.4)	(+7.4)	(+11.8)	
Washer & Wiper - Rear	- 0.2	3.0	2.8	
	(- 0.4)	(+6.6)	(+ 6.2)	
Heavy Duty Cooling	0.8	0	0.8	With air conditioning
	(+ 1.8)	(0)	(+ 1.8)	
	1.0	0	1.0	Without air conditioning
	(+ 2.2)	(0)	(+ 2.2)	

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

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

Car Line CHEVETTE  
 Model Year 1983 Issued 7-23-82 Revised (\*)

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS. kg. (weight. lb.)			
	Front	Rear	Total	
Comfortilt	1.4	0.4	1.8	
Steering Wheel	+ 3.0	(+ 0.8)	(+ 3.8)	
Radio AM Push-Button	1.4	0.4	1.8	
	+ 3.0	(+ 0.8)	(+ 3.8)	Standard equipment 1TB00 models. Optional 1TJ00
Radio AM/FM Push Button	0.2	0	0.2	
	+ 0.4	0	(+ 0.4)	1TB00
	1.6	0.4	2.0	1TJ08
	+ 3.5	(+ 0.8)	(+ 4.4)	
Radio AM/FM Stereo (3-speakers)	0.2	0	0.2	1TB00
	+ 0.4	(0)	(+ 0.4)	
	1.8	0.4	2.2	1TJ08
	+ 4.0	(+ 0.8)	(+ 4.8)	
Auxiliary Speaker-Rear	0	0.6	0.6	
	(0)	(+ 1.4)	(+ 1.4)	
3-Speed Automatic Transmission	11.6	5.8	17.4	THM 180
	+ 25.6	(+12.8)	(+ 38.4)	1TB00
	14.2	7.6	21.8	1TJ08
	+ 31.3	(+16.8)	(+ 48.1)	THM 180
	15.6	8.4	24.0	THM 200c
	+ 34.3	(+18.5)	(+ 52.9)	1TB00
	16.4	9.0	25.4	1TJ08
	+ 36.2	(+19.8)	(+ 56.0)	THM 200c
	16.2	8.8	25.0	THM 200
	+ 35.7	(+19.4)	(+ 55.1)	Used with diesel engine RPO LJ5
5-Speed Manual Transmission (MB4)	6.6	5.4	12.0	All models except 1TB68
	+ 14.6	(+11.9)	(+ 26.5)	
5-Speed Manual Transmission (M75)	2.8	1.8	4.6	Diesel engine
	+ 6.2	(+ 4.0)	(+ 10.2)	
1.8 Liter L-4 (III CID) RPO LJ5 Diesel	70.8	4.2	75.0	1TB00
	(+156.1)	(+ 9.3)	(+165.4)	

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

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

Car Line CHEVETTE  
 Model Year 1983 Issued 7-23-82 Revised (\*) 2-83

**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 HATCHBACK COUPES	4-DOOR HATCHBACK SEDANS	
			1TB08	1TJ08

**Width**

Dimension	SAE Ref. No.	2-DOOR HATCHBACK COUPES	4-DOOR HATCHBACK SEDANS	
Tread (front)	W101	1300 (51.2)		
Tread (rear)	W102	1300 (51.2)		
Vehicle width	W103	1570 (61.8)		
Body width at Sq RP (front)	W117	1546 (60.9)		
Vehicle width (front doors open)	W120	3384 (133.2)	3048 (120.0)	
Vehicle width (rear doors open)	W121	--	2974 (117.1)	

**Length**

Dimension	SAE Ref. No.	2-DOOR HATCHBACK COUPES	4-DOOR HATCHBACK SEDANS	
Wheelbase	L101	2394 (94.3)	2471 (97.3)	
Vehicle length	L103	4111 (161.9)	4188 (164.9)	
Overhang (front)	L104	787 (31.0)		
Overhang (rear)	L105	930 (36.6)		
Upper structure length	L123	2510 (98.8)	2586 (101.8)	
Rear wheel C/L "X" coordinate	L127	2179 (95.5)		
Cowl point "X" coordinate	L125	306 (12.0)		

**Height \*\***

Dimension	SAE Ref. No.	2-DOOR HATCHBACK COUPES	4-DOOR HATCHBACK SEDANS	
Passenger distribution (frt/rear)	PD1.2.3		**	
Trunk/cargo load			**	
Vehicle height	H101	1344 (52.9)	1343 (52.9)	1344 (52.9) 1343 (52.9)
Cowl point to ground	H114	898 (35.4)	896 (35.3)	897 (35.3) 896 (35.3)
Deck point to ground	H138			
Rocker panel-front to ground	H112	208 (8.2)	208 (8.2)	209 (8.2) 208 (8.2)
Bottom of door closed-front to grd	H133	271 (10.6)	270 (10.6)	271 (10.7) 270 (10.6)
Rocker panel-rear to ground	H111	204 (8.0)		
Bottom of door closed-rear to grd	H135	--		

**Ground Clearance \*\***

Dimension	SAE Ref. No.	2-DOOR HATCHBACK COUPES	4-DOOR HATCHBACK SEDANS	
Front bumper to ground	H102	331 (13.0)	330 (13.0)	331 (13.0) 330 (13.0)
Rear bumper to ground	H104	331 (13.0)	331 (13.0)	331 (13.0) 332 (13.1)
Bumper to ground (front at curb mass (wt))	H183	357 (14.1)		
Bumper to ground (rear at curb mass (wt))	H105	349 (13.7)		
Angle of approach	H106	19.1°	18.9°	18.9° 18.9°
Angle of departure	H107	19.9°	19.5°	19.6° 19.7°
Ramp breakover angle	H147	18.2°		17.7° 17.6°
Rear axle differential to ground	H153	156 (6.1)		
Min running ground clearance	H156	147 (5.8)	146 (5.7)	147 (5.8) 146 (5.7)
Location of min run grd clear		K-Brace under front crossmember		

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

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

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

SAE Ref. No.	2-DOOR HATCHBACK COUPES	4-DOOR HATCHBACK SEDANS
	1TB08	1TJ68

### Front Compartment

Sg RP front, "X" coordinate	L31	1118 (44.0)			
Effective head room	H61	960 (37.8)		974 (38.3)	
Max. eff. leg room (accelerator)	L34	1058 (41.6)			
Sg RP (front to heel)	H30	259 (10.2)			
Design H-point front travel	L17	134 (5.3)			
Shoulder room	W3	1273 (50.1)	1297 (51.1)	1266 (49.8)	1297 (51.1)
Hip room	W5	1268 (49.9)	1290 (50.8)	1256 (49.4)	1290 (50.8)
Upper body opening to ground	H50				
Steering wheel angle	H18	30.2°			
Back angle	L40	26.5°			

### Rear Compartment

Sg RP Point couple distance	L50	678 (26.7)		754 (29.7)	
Effective head room	H63	945 (37.2)		937 (36.9)	
Min. effective leg room	L51	785 (30.9)	770 (30.3)	884 (33.2)	
Sg RP (second to heel)	H31	268 (10.5)			
Knee clearance	L48	-62 (-2.4)	-67 (-2.6)	4 (0.2)	-1.0 (0)
Compartment room	L3	584 (23.0)		662 (26.1)	
Shoulder room	W4	1254 (49.4)	1276 (50.2)	1256 (49.4)	1286 (50.6)
Hip room	W6	1045 (41.1)		1047 (41.2)	
Upper body opening to ground	H51	--			

### Luggage Compartment

Usable luggage capacity (L (cu. ft.))	V1	--			
Liftover height	H195	753 (29.6)		756 (29.8)	

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 CHEVETTE

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

Body Type

SAE Ref. No.	2-DOOR HATCHBACK COUPES	4-DOOR HATCHBACK SEDANS	
	1TB08	1TJ08	1TB68
			1TJ68

### Station Wagon - Third Seat

Shoulder room	W85	NOT
Hip room	W86	APPLICABLE
Effective leg room	L86	
Effective head room	H86	
Effective T-point head room	H89	
Seat facing direction	SD1	

### Station Wagon - Cargo Space

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	NOT
Cargo length at belt (front)	L204	APPLICABLE
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
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	H187	488 (19.2)	488 (19.2)	488 (19.2)
Cargo length at front seat back height	L208	1024 (40.3)	1100 (43.3)	1100 (43.3)
Cargo length at floor (front)	L209	1471 (57.9)	1547 (60.9)	1547 (60.9)
Cargo volume index - L (cu.ft.)	V3	764L (27.0)*	811L (28.6 cu.ft)*	831L (29.4)*
Hidden cargo volume - L (cu. ft.)	V4	--		

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

All dimensions are in millimeters (inches).

\*VII - Hatchback, cargo volume index - second seat-up, 263 (9.3).

# MVMA Specifications Form

## Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line CHEVETTE  
 Model Year 1983 Issued 7-23-82 Revised (\*) \_\_\_\_\_

Body Type	2-DOOR HATCHBACK COUPES		4-DOOR HATCHBACK SEDANS	
	1TB08	1TJ08	1TB68	1TJ68

### Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location	
Front	X	Fiducial mark to vertical base grid line-front, measured horizontally from the base grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt.
	Y	Fiducial mark to centerline of car-front, width measurement made from centerline of car to fiducial mark located on top of the front seat adjuster mounting bolt.
	Z	Fiducial mark to horizontal base grid-front, measured vertically from base grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.
Rear	X	Fiducial mark to vertical base grid line-rear measured horizontally from base grid line to the rear fiducial mark located on rear underbody crossbar.
	Y	Fiducial mark to centerline of car-rear, width measurement made from centerline of car to fiducial mark located on the rear underbody crossbar.
	Z	Fiducial mark to horizontal base grid line-rear, measured vertically from base grid line to the rear fiducial mark located on rear underbody crossbar.
Front	W21	504 (19.8)
	LS4	1850 (72.8)
	H81	250 (9.8)
	H161	290 (11.4)
	** H163	267 (10.5)
Rear	W22	195 (7.7)
	LS5	3950 (155.5)   4026 (158.5)
	H82	378 (14.9)
	H162	423 (16.7)
	** H164	404 (15.9)

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

\*\* EPA Loaded Vehicle Weight, Loading Conditions

# MVMA Specifications Form

## Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line CHEVETTE  
 Model Year 1983 Issued 7-23-82 Revised (\*) 9-82

Body Type	SAE Ref. No.	2-DOOR HATCHBACK COUPES	4-DOOR HATCHBACK SEDANS
		1TB08	1TJ08
		1TB68	1TJ68

### Glass

Backlight slope angle (deg.)	H121	62.5°	
Windshield slope angle (deg.)	H122	52.8°	
Tumble-Home (deg.)	W122	20.3°	
Windshield glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S1	6735 (1043.9)	
Side glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S2	9926 (1538.5)	10903 (1690.0)
Backlight glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S3	5835 (904.4)	
Total glass exposed surface area (cm <sup>2</sup> (in. <sup>2</sup> ))	S4	22496 (3486.9)	23473 (3638.3)
Windshield glass (type)		Curved - Laminated Plate	
Side glass (type)		Curved - Tempered Plate	
Backlight glass (type)		Curved - Tempered Plate	

### Lamps and Headlamp Shape\*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	667 (26.3)
		Lowest	--
	Taillamp (H128)	Highest**	695 (27.4)
		Lowest	--
	Sidemarker	Front	543 (21.4)
		Rear	695 (27.4)
Distance from C/L of car to center of bulb	Headlamp	Inside	--
		Outside**	562.0 (22.1)
	Taillamp	Inside	--
		Outside**	621.5 (24.5)
	Directional	Front	520.0 (20.5)
		Rear	621.5 (24.5)
Headlamp shape		Rectangular	

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

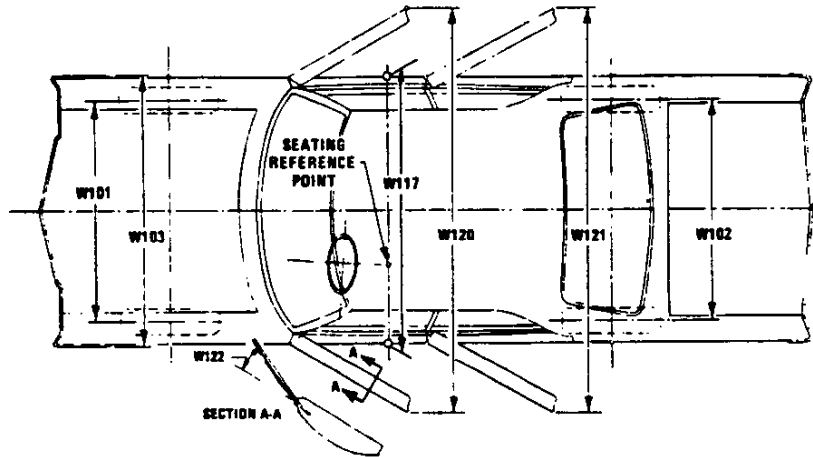
# MVMA Specifications Form

## Passenger Car

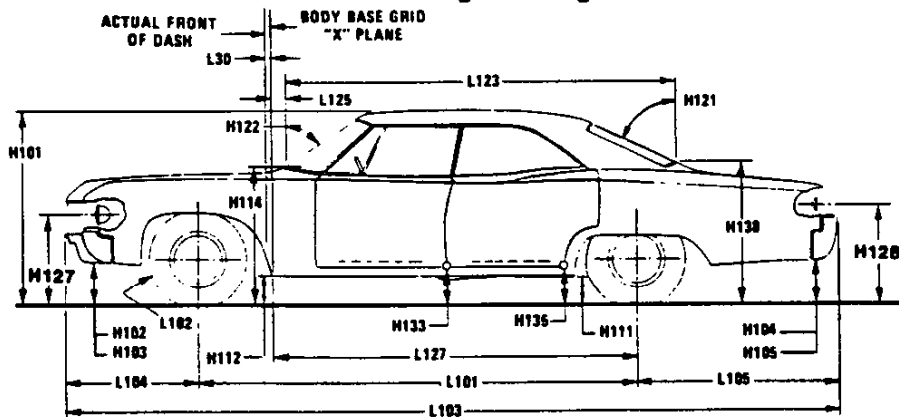
METRIC (U.S. Customary)

### Exterior Car And Body Dimensions – Key Sheet

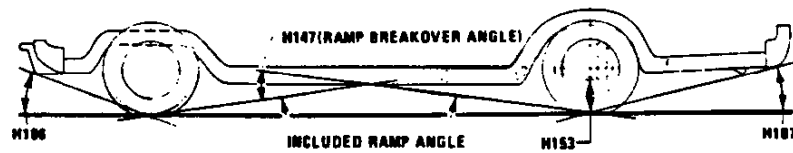
#### Exterior Width



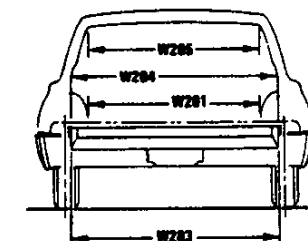
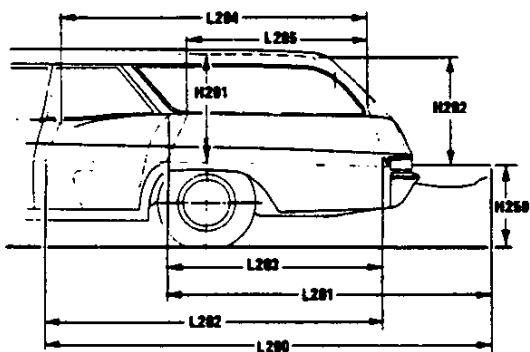
#### Exterior Length & Height



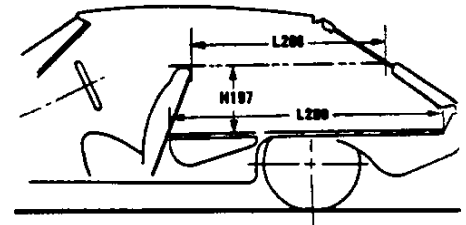
#### Exterior Ground Clearance



#### Cargo Space



#### Station Wagon



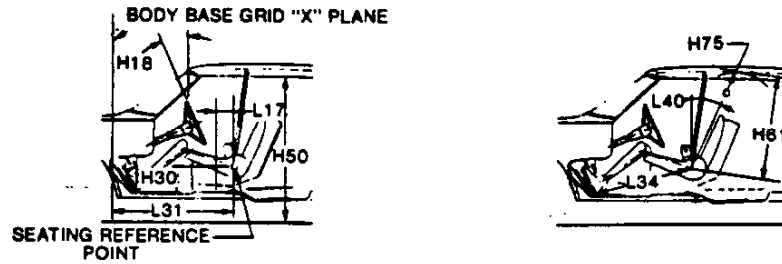
#### Hatchback



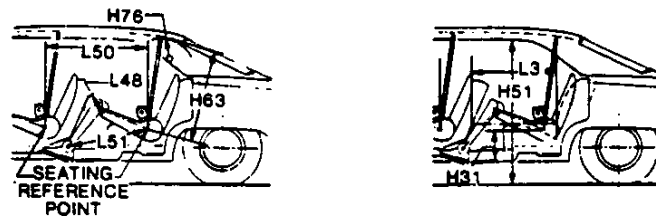
**MVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

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

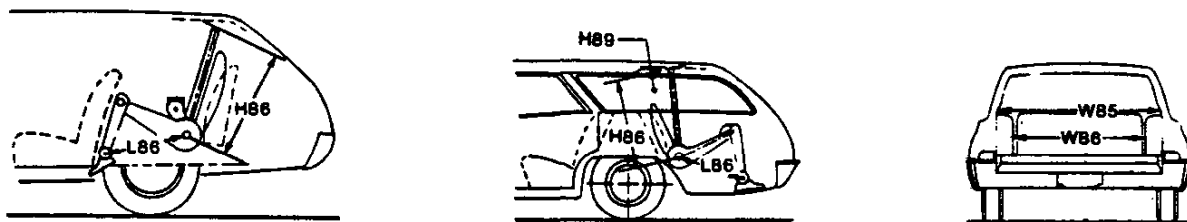
**Front Compartment**



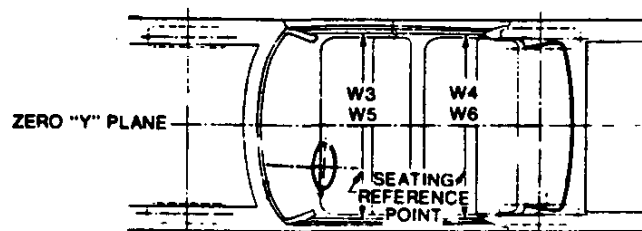
**Rear Compartment**



**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 —

- (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 are the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius are the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 REAR BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

#### Front Compartment Dimensions

- PD1 PASSENGER DISTRIBUTION—FRONT.
- L31 SgRP—FRONT "X" COORDINATED.
- H61 EFFECTIVE HEAD ROOM—FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP—front to the headlining plus 102 mm (4.0 in.).
- H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).
- L34 MAXIMUM EFFECTIVE LEG ROOM—ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP—front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- H30 SgRP—FRONT TO HEEL. The dimension measured vertically from the SgRP—front to the accelerator heel point.
- L17 DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat trace positions.
- W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within the belt line and 254 mm (10.0 in.) above the SgRP—front.
- W5 HIP ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP—front and 76 mm (3.0 in.) fore and aft the SgRP—front.
- H150 UPPER BODY OPENING TO GROUND—FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP—front "X" plane.

- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- L40 BACK ANGLE—FRONT. The angle measured between a vertical line through the SgRP—front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

#### Rear Compartment Dimensions

- PD2 PASSENGER DISTRIBUTION—SECOND.
- L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP—front to the SgRP—second.
- H63 EFFECTIVE HEAD ROOM—SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H76 EFFECTIVE T-POINT HEAD ROOM—SECOND. Measured in the same manner as H75.
- L51 MINIMUM EFFECTIVE LEG ROOM—SECOND. The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254 mm (10.0 in.).
- H31 SgRP—SECOND TO HEEL. The dimension measured vertically from the SgRP—second to the two dimensional device heel point on the depressed floor covering.
- L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).
- L3 COMPARTMENT ROOM—SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.
- W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP—second within 254-406 mm (10.0-16.0 in.) above the SgRP—second.
- W6 HIP ROOM—SECOND. Measured in the same manner as W5.
- H51 UPPER BODY OPENING TO GROUND—SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP—second.

#### Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY—Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

#### Station Wagon — Third Seat Dimensions

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

$$\frac{W4 \times H201 \times L204}{109} = \text{m}^3(\text{cubic meter})$$
- 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 seat back 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 seat back to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- V3 HATCHBACK.  
Measured in inches:  

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

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

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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