



# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC( U.S. Customary)

Passenger Car

# 1986

<b>Manufacturer</b> Chevrolet Motor Division General Motors Corporation	<b>Car Line</b>  Chevette	
<b>Mailing Address</b> Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060	<b>Issued</b> July, 1985	<b>Revised</b> September, 1985

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

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

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

Blank Forms Provided by Technical Affairs Division



Motor Vehicle Manufacturers Association  
of the United States, Inc.

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (•) 9-85

## METRIC (U.S. Customary)

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

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

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION TRANSAXLE	DRIVE RATIOS (:1) AXLE RATIO				
	Displ. Liters (in <sup>3</sup> )	Carb. (Barrels, Fl, etc.)	Compr. Ratio	SAE Net at RPM				Overall Base Veh. Drive	Overall Opt. Veh. Drive			
				kw (bhp)	Torque N·m (lb. ft.)							
Base - 49 States All	L-4 1.6Liter (98 CID) L17	2	9.0:1	65	80	S	Man 4-Speed Base (3.75:1 (MY1) low)\$	3.36+	3.36	3.62@*	3.62	
				@ 5200	@ 3200			Man 5-Speed Avail (3.76:1) (MB4) low)\$	3.36+	2.89	3.62@*	3.11
									Auto '180c' - Avail (MD2)	3.36	3.36	3.62*
Calif only All	L-4 1.6Liter (98 CID) L17	2	9.0:1	65	80	S	Man 4-Speed Base (3.75:1 (MY1) low)\$	3.62	3.62	--	--	
				@ 5200	@ 3200			Man 5-Speed Avail (3.76:1) (MB4) low)\$	3.62	3.11	--	--
									Auto '180c' - Avail (MD2)	3.36	3.36	3.62*
Available All States	L-4 1.8Liter (111 CID) LJ5 #	F.I. Die- sel **	22.0:1	51 @ 5000	72 @ 2000	S	Man 5-Speed Base (3.79:1 (M75) low)	3.36	2.89	--	--	
# - Not available with air conditioning. ** - Fuel Injection Diesel + - Without A/C \$ - Power steering not available. @ - Base with A/C, optional without A/C * - Optional ratio												

**MVMA Specifications Form  
Passenger Car**

Car Line CHEVETTE  
 Model Year 1986 Issued 7,85 Revised (#)

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

**Car Models**

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)		Max. Trunk/Cargo Load—Kilograms (Pounds)
Rear Wheel Drive					
<u>Chevette "CS"</u>					
2-Door Hatchback Coupe		1T808	2	2	45.4 (100.1)
4-Door Hatchback Sedan		1T868	2	2	45.4 (100.1)

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

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (e) 9-85

METRIC (U.S. Customary)

Engine Description/Carb. Engine Code	1.6 Liter L4 (98 CID)	1.8 Liter L4 (111 CID)
	2-Bbl. Carburetor RPO L17	Fuel Injection (Diesel) RPO LJ5

## Engine - Valve System

Hydraulic lifters (std., opt., NA)	Hydraulic valve lash adjusters	Mechanical valve lash adjusters
Valves	Number intake / exhaust	4/4
	Head O.D. intake / exhaust	3900(1.54)/3200(1.26)

## Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]	Forged steel 1141/.354(7.80)@	Forged steel/.780(1.72)
---------------------------------------	-------------------------------	-------------------------

## Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]	Nodular cast iron/12.474(27.50)	Forged steel, soft nitrided/ 3 14.300(31.52)
End thrust taken by bearing (no.)	5	
Number of main bearings	5	
Seal (material, one, two piece design, etc.)	Front	
	Rear	

## Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	345-450 (50-65) @ 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

Diesel engine manufacturer		Isuzu
Glow plug, current drain at 0°F		(*)
Injector nozzle	Type	Not Pintle
	Opening pressure [kPa (psi)]	Applicable 11760 (1707)
Pre-chamber design		Ricardo Comet V
Fuel injection pump	Manufacturer	Diesel Kiki
	Type	Bosch VE
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		Generator Driven
Fuel heater (yes/no)		Yes, integ. part of fuel filter
Water separator, description (std., opt.)		Integ. part of fuel filter w/ man. operated water rel. pump
Turbo manufacturer		--
Oil cooler-type (oil to engine coolant; oil to ambient air)		None
Oil filter		--

## Engine - Intake System

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

(\*) 180 amps decreasing to 50 amps as glow plugs heat up.  
 @ Includes rod, cap, bolts and nuts.

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (e) 9-85

METRIC (U.S. Customary)

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
--	---

## ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	OHC, In line Front Longitudinal	
Manufacturer		
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 (3.66)	99.5 (3.92)
Cylinder block material & mass (lbs.)	Cast alloy iron 32.432 (71.5)	Cast Alloy iron 41.0 (90.4)
Cylinder block deck height	198 (7.8)	218.5 (8.6)
Deck clearance (minimum) (above or below block)	Zero	
Cylinder head material & mass (lbs.)	Cast alloy iron, swirl port 20.911 (46.1)	Iron 30.0 (66.1)
Cylinder head volume (cm <sup>3</sup> )	Not Applicable	
Head gasket thickness (compressed)	.95 (.037)	1.40 (0.055)
Minimum combustion chamber total volume (cm <sup>3</sup> )	Not Available	19.48
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4
	R. Bank	--
Firing order	1-3-4-2	
Intake manifold material & mass (kg (weight, lbs.))	Cast aluminum 2.118 (4.7)	Cast aluminum 1.5 (3.3)
Exhaust manifold material & mass (kg (weight, lbs.))	Cast iron 4.018 (8.9)	Cast iron 5.1 (11.2)
Recommended fuel (leaded, unleaded, diesel)	Unleaded	
Fuel antiknock index (R + M)	87	
Fuel antiknock index 2	--	
Total dressed engine mass (wt) dry**	143.5 (316.4) auto.	174.0 (383.6)

## Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Cast aluminum alloy .400 (14.11)	Cast aluminum alloy .540 (19.05)
--	-------------------------------------	-------------------------------------

## Engine - Camshaft

Location	In cylinder head	
Material & mass kg (weight, lbs.)	Cast alloy iron 3.166 (6.98)	2.100 (4.63)
Drive type	Chain / belt	Belt
	Width / pitch	19 (0.748)/9.5 (0.374)

\* 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.

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (●) \_\_\_\_\_

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

<b>Engine Description/Carb. Engine Code</b>	1.6 Liter L-4 (98 CID) 2-Bbl. Carburetor RPO L17	1.8 Liter L-4 (111 CID) Fuel Injection (Diesel) RPO LJ5
---	--	---

**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	Mfgr.	Holley	--	
	Choke (type)	Electric	None	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	800 (Neutral)	700(Neutral)Fed.,625(Neutral)Calif.
		Automatic	700 (Drive)	725 (Neutral)
Idle A/F mix.		Preset - no adjustment provided		
Fuel injection	Point of injection (no.)	--	Head	
	Constant, pulse, flow	--	Pulse	
	Control (electronic, mech.)	--	Mechanical	
	System pressure [kPa (psi)]		Not Available	
Intake manifold heat control (exhaust or water thermostatic or fixed)		Exhaust	None	
Air cleaner type	Standard	Replaceable paper element	Remote paper element	
	Optional	None		
Fuel pump	Type (elec. or mech.)	Mechanical		
	Location (eng., tank)	Lower - LF of engine	Integral w/injection pump on eng.	
	Pressure range [kPa (psi)]	34-45- (5.0 - 6.5)	--	

**Fuel Tank**

Capacity (refill L (gallons))		46.2 (12.2) approximately
Location (describe)		Underside - rear center
Attachment		Underbody strap
Material & Mass [kg (weight lbs)]		Steel
Filler pipe	Location & material	Left rear quarter panel
	Connection to tank	Solid solder
Fuel line (material)		Steel
Fuel hose (material)		Rubber
Return line (material)		Steel
Vapor line (material)		Steel
Extended range tank	Opt., n.a.	Not Available
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	"
	Capacity [L (gallons)]	"
	Location & material	"
	Attachment	"
	Selector switch or valve	"
Separate fill		"

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (\*)

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

<b>Engine Description/Carb. Engine Code</b>	1.6 Liter L-4 (98 CID) 2-Bbl. Carburetor RPO L17	1.8 Liter L-4 (111 CID) Fuel Injection (Diesel) RPO LJ5
---	--	---

## Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard			
Coolant fill location (rad., bottle)		Bottle, coolant recovery			
Radiator cap relief valve pressure (kPa (psi))		103.4 (15.0)			
Circulation thermostat	Type (choke, bypass)	Choke			
	Starts to open at °C (°F)	88 (190)		82 (180)	
Water pump	Type (centrifugal, other)	Centrifugal, forged aluminum body			
	GPM 1000 pump rpm	6.3 @ 1000 Pump RPM			
	Number of pumps	One			
	Drive (V-belt, other)	V-belt			
	Bearing type	Ball/Rollers			
	Impeller material				
	Housing material				
By-pass recirculation [type (inter., ext.)]		Internal		External	
Cooling system capacity	With heater—L(qt.)	8.51(9)Auto, 8.55(9.04)Man		8.57 (9.00) 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			
Water jackets open at head face (yes, no)					
Radiator core	Std., A/C, HD	Std.	A/C or H.D.	A/C & H.D.	Std.
	Type (cross-flow, etc.)	Cross flow			
	Construction (fin & tube mechanical, braze, etc.)				
	Material, mass [kg (wt. lbs.)]	Copper-brass, high efficiency radiator			
	Width (mm)	304.8	426.7	426.7	430.0
	Height (mm)	375.2	375.2	375.2	387.5
	Thickness (mm)	31.5	31.5	31.5	40.2
	Fins per inch @	4.1	4.6	3.6	3.5
Radiator end tank material					
Fan	Std., elec., opt.	Std.	Opt.	Std.	
	Number of blades & type (flex, solid, material)	4-Plastic Solid	7-Plastic Solid	7-Plastic Solid	
	Diameter & projected width	330.0 (13.0)	360.0 (14.2)	390.0 (15.35)	
	Ratio (fan to crankshaft rev.)	1.074:1	1.074:1		
	Fan cutout type	None	Clutch	Clutch	
	Drive type (direct, remote)	Direct, belt	Direct, belt	Direct belt	
	RPM at idle (elec.)	--	--	--	
	Motor rating (wattage) (elec.)	--	--	--	
	Motor switch (type & location) (elec.)	--	--	--	
	Switch point (temp., pressure) (elec.)	--	--	--	
	Fan shroud (material)	None	Plastic	Plastic	

@ - Distance between top of fins (mm).



# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (●) \_\_\_\_\_

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

Engine Description/Carb.  
Engine Code

1.6 Liter L-4 (98 CID)  
2-8bl. Carburetor  
RPO L17

1.8 Liter L-4 (111 CID)  
Fuel Injection (Diesel)  
RPO LJ5

## Transmissions/Transaxle

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

## Manual Transmission/Transaxle

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)	2.132L	1.55 (3.3)	
	Type recommended	GL-5	Automatic	Engine Oil	
	SAE viscosity number	Summer	80W or 80W-90	Transmission	SAE 5W-30SF
		Winter	80W or 80W-90	Fluid	SAE 5W-30SF
	Extreme cold	80W or 80W-90		SAE 5W-30SF	

## Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)	(1) Borg & Beck, Dry Single Plate	Daikin, Dry Single Plate	
Assist (yes, no / percent)			
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 Kasel
	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.

(2) 5512 (1240) for 5-spd.

(3) Luk Inc., for 5-spd.

(4) - 14061690 for 5-spd.

(5) - 18 for 5-spd.

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
Model Year 1986 Issued 7-85 Revised (\*)

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

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
--	---

## Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Computer Command Control with air injection	None
	Air Injection	Pump or pulse	Vane	None
		Driven by	V-Belt	
		Air distribution (head, manifold, etc.)	Exh.manifold,air cleaner & Converter, CCC Controlled	
		Point of entry	Exh. man. ports	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow	
		Exhaust source	Manifold	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet Manifold	
	Catalytic Converter	Type	Dual Bed, Ox. & Red.	None
		Number of	One	
		Location(s)	Beneath RF Underbody	
		Volume [L (in <sup>3</sup> )]	2,782 (170)	
		Substrate type	Monolith	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System	
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
	Discharges (to intake manifold, other)		Inlet Manifold	
	Air inlet (breather cap, other)		Carburetor Air Cleaner	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister	
		Carburetor	Canister	
	Vapor storage provision		Canister	
Electronic system	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

## Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single	
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		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 & Mass [kg (weight lbs)]	(1)	Aluminum coated steel
Inter-mediate pipe	o.d. & wall thickness	50.8x1.83 (2.0x.072)	
	Material & Mass [kg (weight lbs)]	Aluminum coated steel	
Tail pipe	o.d. & wall thickness	44.45x1.83 (1.75x.072)	
	Material & Mass [kg (weight lbs)]	Aluminum coated steel	

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

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (e) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description/Carb.  
Engine Code

2-Door Hatchback Coupe 1T808	4-Door Hatchback Sedan 1T868
---------------------------------	---------------------------------

## Propeller Shaft – Rear Wheel Drive

Type (straight tube, tube-in-tube,  
internal-external damper, etc.)

(a) (b)

Outer diam. x length* x wall thick- ness	Manual 3-speed trans.	Not Available			
	Manual 4-speed trans.	50.8x586.0x1.40	50.8x732.0x1.40* 50.8x586.0x1.40#	50.8 662.2x1.40	50.8x808.2x1.40
	Manual 5-speed trans.	50.8x535.2x1.40 (with L17) 50.8x586.0x1.40 (with LJ5)		50.8 611.4x1.40 (with L17) 50.8x662.2x1.40 (with LJ5)	
	Overdrive	Not available			
	Automatic transmission	50.8 x 586.0 x 1.40 (2.0 23.1 x .055)		50.8 x 662.2 x 1.40	
	Inter- mediate bearing	Type (plain, anti-friction)	Anti-Friction		
Lubrication (fitting, prepack)		Prepacked			
Slip yoke	Type	Splined			
	Number of teeth	27			
	Spline o.d.	28 (1.12)			
Universal joints	Make and mfg. no.	Front	Saginaw 23		
		Rear	Saginaw 23		
	Number used	Two			
	Type (ball and trunnion, cross)	Cross			
	Rear attach (u-bolt, clamp, etc.)	Strap & bolt			
	Bearing	Type (plain, anti-friction)	Anti-Friction		
Lubrication (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.

\* Without A/C # With A/C

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (if) 9-85

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

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
--	---

## Automatic Transmission/Transaxle

Trade name		3-Speed Automatic	
Type and special features (describe)		Torque converter with converter clutch 180c	
Selector	Location	Floor	
	Ltr./No. designation	P-R-N-D-2-1	
Gear ratios	R	1.92	
	<b>D</b>	1.00*	Not Available
	D	1.48	
	2	2.40	
	1	Not Available	
Max. upshift speed - drive range [km/h (mph)]		1-2=61 (38), 2-3=101 (63)	
Max. kickdown speed - drive range [km/h (mph)]		3-2=87 (54), 2-1=55 (34)	
Min. overdrive speed [km/h (mph)]		Not Available	
Torque converter	Number of elements	3	
	Max. ratio at stall	Not Available	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	245 (9.65)	
Lubricant	Capacity (refill L (pt.))	2.30	
	Type Recommended	Dexron II	
Oil cooler (std., opt., NA, internal, external, air, liquid)		Standard Integral with radiator.	

## Axle or Front Wheel Drive Unit

\* - Converter Clutch Engagement

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 / differential adjustment (shim, other)		Shims		
Pinion / differential bearing adjustment (shim, other)		Collapsible Sleeve		
Driving wheel bearing (type)		Direct Single Row Ball		
Lubricant	Capacity [L (pt.)]	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 top gear ratio)		(:1) 3.36, 3.62
No. of teeth	Pinion	10
	Ring gear or gear	37
Ring gear o.d.		165 (6.50)
Transaxle	Transfer gear ratio	--
	Final drive ratio	--

# MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line CHEVETTE  
Model Year 1986 Issued 7-85 Revised (•) \_\_\_\_\_

Body Type And/Or  
Engine Displacement

2-Door Hatchback Coupe 1TB08	4-Door Hatchback Sedan 1TB68
---------------------------------	---------------------------------

## Brakes - Service

Description		Single caliper disc front, duo-servo drum rear			
Brake type (std., opt., n.a.)	Front (disc or drum)	Disc			
	Rear (disc or drum)	Drum			
Self-adjusting (std., opt., n.a.)		Standard			
Special valving	Type (proportion, delay, metering, other)	Proportioning			
Power brake (std., opt., n.a.)		Optional			
Booster type (remote, integral, vac., hyd., etc.)		Integral			
Vacuum source (inline, pump, etc.)		Inline (Intake manifold)			
Vacuum reservoir (volume in. <sup>3</sup> )		None			
Vacuum pump-type (elec. gear driven, belt driven, if other so state)		None			
Anti-skid device type (std., opt., n.a.) (F/R)		Not available			
Effective area [cm <sup>2</sup> (in. <sup>2</sup> )]*		514.9 (79.83)			
Gross lining area [cm <sup>2</sup> (in. <sup>2</sup> )]**(F/R)		Not Available			
Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]*** (F/R)		1804.5 (279.77)			
Rotor	Outerworking diameter	F/R	246 (9.68) / --		
	Inner working diameter	F/R	143.8 (5.66) / --		
	Thickness	F/R	11 (.433) / --		
	Material & type (vented/solid)	F/R	Cast Iron, Solid / --		
Drum	Diameter & width	F/R	-- / 200 (7.87)		
	Type and material	F/R	-- / Cast Iron		
Wheel cylinder bore		52 (2.05) / 17.5 (0.69)			
Master cylinder	Bore/stroke	F/R	22 (0.87) / 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)]		Not Available			
Lining clearance		F/R	Self Adjusting/Self Adjusting		
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Integrally Moulded	
		Rivet size		Not Applicable	
		Manufacturer		Delco Moraine	
		Lining code*****		DM 8034	
		Material		Semi - Metallic	
		****	Primary or out-board	117 x 54.7 x 10.9 (4.6 x 2.15 x .43)	
		Size	Secondary or in-board	123 x 48.8 x 11.4 (4.8 x 1.92 x .45)	
	Shoe thickness (no lining)		Not Available		
	Rear wheel	Bonded or riveted (rivets/seg.)		Riveted	
		Manufacturer		Inland Div. GMC	
		Lining Code*****		Primary IN4035, Secondary IN4050	
		Material		Organic	
		****	Primary or out-board	167.7 x 43.9 x 3.8 (6.6 x 1.73 x 0.15)	
		Size	Secondary or in-board	203.3 x 43.9 x 4.8 (8.0 x 1.73 x 0.19)	
Shoe thickness (no lining)		2.75 (.106)			

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

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

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

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

\*\*\*\*\*Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
Model Year 1986 Issued 7-85 Revised (•) \_\_\_\_\_

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

Body Type And/Or  
Engine Displacement

2-Door Hatchback Coupe 1T808	4-Door Hatchback Sedan 1T868
---------------------------------	---------------------------------

## Suspension - General

Car leveling	Std. opt./n.a.	Not Available
	Type (air, hyd., etc.)	Not Available
	Manual/auto. controlled	Not Available
Provision for brake dip control		Front Suspension Geometry
Provision for accel. squat control		Rear Suspension Geometry
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	25.0 (1.0)
	Rod diameter	13.49 (0.53)

## Suspension - Front

Type and description		Independent SLA
Drive and torque taken through		--
Travel	Full jounce	87.7 mm (3.4 in)
	Full rebound	91.4 mm (3.6 in)
Spring	Type (coil, leaf, other) & material	Coil, Steel Alloy
	Insulators (type & material)	
	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 jounce	86.0 mm (3.4 in)
	Full rebound	136.0 mm (5.3 in)
Spring	Type (coil, leaf, other) & material	Coil, 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)
	Insulators (type & material)	Not Available
	If leaf	No. of leaves
Shackle (comp. or tens.)		Not Applicable
Stabilizer	Type (link, linkless, frameless)	Not Available
	Material & bar diameter	Not Available
Track bar (type)		Tubular, with Rubber Bushings

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

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (e) \_\_\_\_\_

Body Type And/Or  
 Engine Displacement

2-Door Hatchback Coupe 1TB08	4-Door Hatchback Sedans 1TB68
---------------------------------	----------------------------------

**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 (W9) SAE J1100	Manual	381 (15.0)		
	Power	381 (15.0)		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.5 (34.3)      10.6 (34.9)	
		Curb to curb (l. & r.)	9.2 (30.2)      9.4 (30.8)	
	Inside rear	Wall to wall (l. & r.)	5.0 (16.5)	
		Curb to curb (l. & r.)	4.8 (15.9)	
Scrub Radius*		Not Available		
Manual	Gear	Type	Rack & Pinion	
		Make	Saginaw Steering Gear	
		Ratios	Gear	19.0:1
	Overall		18.4:1	
	No. wheel turns (stop to stop)		3.6	
Power	Type (coaxial, linkage, etc.)		Not Available	
	Make		Saginaw Steering Gear	
	Gear	Type	Rack & Pinion with Integral Power Unit	
		Ratios	Gear	Not Available
			Overall	18.0:1
Pump (drive)		'V' Belt Off Crankshaft Pulley		
No. wheel turns (stop to stop)		Not Available		
Linkage	Type		Rack and Pinion	
	Location (front or rear of wheels, other)		Front	
	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	

\*The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.  
 (a) With gas engine, automatic transmission must be ordered.

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (e) \_\_\_\_\_

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

Body Type And/Or  
Engine Displacement

2-Door Hatchback Coupe 1TB08	4-Door Hatchback Sedan 1TB68
---------------------------------	---------------------------------

## Tires And Wheels (Standard)

Tires	Size (load range, ply)		P155/80R-13 (BW)
	Type (bias, radial, etc.)		Steel 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)		570
Wheels	Type & material		Short Yoke Disc, Steel
	Rim (size & flange type)		13 x 5
	Wheel offset		37 mm (1.46)
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100 mm (3.94)
Number & size		4 hex nuts - M12 x 1.5	
Spare	Tire and wheel (same, if other describe)		14 x 4 (49 mm); compact tire - T115/700-14
	Storage position & location (describe)		Flat under rear load floor

## Tires And Wheels (Optional)

Size (load range, ply)		P155/80R-13 (WW)
Type (bias, radial, etc.)		Steel belted radial
Wheel (type & material)		Short yoke disc, steel
Rim (size, flange type and offset)		13 x 5, 37mm (1.46)
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 Passenger Car

Car Line CHEVETTE  
Model Year 1986 Issued 7-85 Revised (•) \_\_\_\_\_

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

Engine Description/Carb. Engine Code	1.6 Liter L-4 (98 CID)	1.8 Liter L-4 (111 CID)
	2-Bbl. Carburetor RPO L17	Fuel Injection (Diesel) RPO LJ5

## Electrical - Supply System

Battery	Make	Delco	
	Model, std., (opt.)	70-330 Std. (man. trans.)*	78-540
	Voltage	12 Volt	
	Amps at 0°F cold crank	330 std. (man. trans.)@	540
	Minutes-reserve capacity	60 min(man), 75 min(Auto)+	115 minutes
	Amp/hrs. - 20 hr. rate	--	
Generator or alternator	Location	Engine compartment, R.F.	Engine compartment L.F.
	Type and rating	42 amps	50 amps
	Ratio (alt. crank/rev.)	2.1	1.75
Regulator	Optional (type & rating)	None	
	Type	Micro circuit; internal	Integrated circuit

## Electrical - Starting System

Start, motor	Current drain at 0°F -20°F	235 Manual, 270 automatic	440 manual
Motor drive	Engagement type	Positive shift solenoid	
	Pinion engages from (front, rear)	Rear	

## Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Not available		
	Other (specify)	High Energy Ignition (HEI)		
Coil	Make	Delco Remy		
	Model	1115454		
	Current	Engine stopped - A	0	
		Engine idling - A	5.5 Max	
Spark plug	Make	AC		
	Model	R42CTS		
	Thread (mm)	M14x1.25		
	Tightening torque [N·m (lb. ft)]	9-20 (7-15)		
	Gap	0.889 (.035)		
	Number per cylinder	Delco Remy		
Distributor	Make	1103504		
	Model			

## Electrical - Suppression

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

\* - 70-385 Std. (Auto. Trans.)  
75-430 Opt.

+ - 90 min. Opt.

@ - 385 Std. (Auto. Trans.), 430 Opt.

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (•) \_\_\_\_\_

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

Body Type And/Or  
Engine Displacement

2-Door Hatchback Coupe 1TB08	4-Door Hatchback Sedan 1TB68
---------------------------------	---------------------------------

## Wheel Alignment

Wheel	Service	Parameter	Value
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° +/- .4°
		Toe-in	+0.06° +/- .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.)	Not Applicable
		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.

## Electrical – Instruments and Equipment

Speedometer	Type	Circular Dial with Pointer
	Trip odometer (std., opt., n.a.)	Not Available
EGR maintenance indicator		" "
Charge indicator	Type	Tell-Tale Warning Light
	Warning device	" " " "
Temperature indicator	Type	Tell-Tale Warning Light
	Warning device	" " " "
Oil pressure indicator	Type	Tell-Tale Warning Light
	Warning device	" " " "
Fuel indicator	Type	Electric Gauge with Pointer
	Warning device	" " " "
Windshield wiper	Type (standard)	Electric 2-Speed
	Type (optional)	Not Available
	Blade length	403.4 (15.9 in)
	Swept area [cm <sup>2</sup> (in. <sup>2</sup> )]	3951 (612.5 in <sup>2</sup> )
Windshield washer	Type (standard)	Electric Push-Button, in end of turn signal lever.
	Type (optional)	Not Available
	Fluid level indicator	" "
Horn	Type	Electric Vibrator
	Number used	One
Other		Parking Brake warning light and brake failure warning light, restraint system warning light and buzzer.

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

Car Line CHEVETTE  
 Model Year 1985 Issued 7-85 Revised (e) \_\_\_\_\_

<b>Body Type</b>	2-Door Hatchback Coupes 1TB08	4-Door Hatchback Sedans 1TB68

**Restraint System**

<b>Active restraint system</b>	Standard/optional	Standard
	Type and description	3 point shoulder and lap belt for driver and front passenger. Lap belt for rear passengers.
	Location	Front - (2); Rear - (2)
<b>Passive seat belts</b>	Standard/optional	Not Available
	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
---	---

<b>Glass</b>	<b>SAE Ref. No.</b>		
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> )) - total 2-sides	S2	9926 (1538.5)	10904 (1690.1)
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)	23474 (3638.5)
Windshield glass (type)		Curved - Laminated Plate	
Side glass (type)		Curved - Tempered Plate	
Backlight glass (type)		Curved - Tempered Plate	

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised ( )

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

<b>Body Type</b>	2-Door Hatchback Coupe 1TB08	4-Door Hatchback Sedan 1TB68

**Body**

Structure	Steel roof panel with reinforcing bow. Box section roof rails, windshield and rear window headers, door and roof panels. Double-walled cowl welded to instrument pnl, flr and dash panel. Double-panel door, hood and hatch panel.
Bumper system front - rear	Enersorber energy management system. GM 5 mph impact.
Anti-corrosion treatment	Designed in anti-corrosion build measures. Corrosion retarding dipping and spraying. Zinc treated metals in critical areas. Plastics, waxes and sealers to joints. Plastisol applied to lower body areas.

**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)	Not Applicable
	Internal release control (elec., mech., n.a.)	Not Applicable
Hatch-back lid	Type (counterbalance, other)	Telescoping gas strut - left side
	Internal release control (elec., mech., n.a.)	Not Available
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	Friction Pivot   None
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Bucket seat formed foam pad
	Rear	Bench seat formed foam pad
	3rd seat	None
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Bucket seat, Formed foam pad
	Rear	Bench seat, full folding formed foam pad
	3rd seat	None

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

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (●) 9-85

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 J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	2-DOOR HATCHBACK COUPE 1TB08	4-DOOR HATCHBACK SEDAN 1TB68
<b>Width</b>			
Tread (front)	W101	1300 (51.2)	
Tread (rear)	W102	1300 (51.2)	
Vehicle width	W103	1570 (61.8)	
Body width at Sg 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)
Front fender overall width	W106	1548 (60.9)	
Rear fender overall width	W107	1570 (61.8)	
Tumble-home (deg.)	W122	20.5°	

**Length**

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)	
Front end length at centerline	L126	885 (34.8)	
Rear end length at centerline	L129	196 (7.7)	

**Height \*\***

Passenger distribution (front/rear)	PD1.2.3		**
Trunk/cargo load			**
Vehicle height	H101	1342 (52.8)	1342 (52.8)
Cowl point to ground	H114	894 (35.2)	893 (35.1)
Deck point to ground	H138		
Rocker panel-front to ground	H112	205 (8.1)	205 (8.1)
Bottom of door closed-front to grd.	H133	270 (10.6)	269 (10.6)
Rocker panel-rear to ground	H111	203 (8.0)	204 (8.0)
Bottom of door closed-rear to grd.	H135	--	
Windshield slope angle	H122	52.8	
Backlight slope angle	H121	62.5	

**Ground Clearance \*\***

Front bumper to ground	H102	325 (12.8)	323 (12.7)
Rear bumper to ground	H104	331 (13.0)	332 (13.1)
Bumper to ground (front at curb mass (wt.))	H103	356 (14.0)	
Bumper to ground (rear at curb mass (wt.))	H105	348 (13.7)	
Angle of approach (degrees)	H106	18.1°	18.0°
Angle of departure (degrees)	H107	21.4°	21.5°
Ramp breakover angle (degrees)	H147	18.0°	17.4°
Axle differential to ground (front/rear)	H153	156 (6.1)	
Min. running ground clearance	H156	142 (5.6)	141 (5.6)
Location of min. run. grd. clear.		K-Brace under front crossmember	

\*\*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 Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (#) \_\_\_\_\_

Body Type

2-Door Hatchback Coupe 1TB08	4-Door Hatchback Sedan 1TB68
---------------------------------	---------------------------------

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

Air conditioning (manual, auto. temp control)		Optional (manual control)
Clock (digital, analog)		Not Available
Compass / thermometer		"
Console (floor, overhead)		@
Defroster, elec. backlight		Optional
Electronic	Diagnostic warning (integrated, individual)	Not Available
	Instrument cluster (list instruments)	"
	Keyless entry	"
	Tripminder (avg. spd., fuel)	"
	Voice alert (list items)	"
	Other	"
Fuel door lock (remote, key, electric)		Not Available
Lamps	Auto head on / off delay, dimming	"
	Cornering	"
	Courtesy (map, reading)	"
	Door lock, ignition	"
	Engine compartment	"
	Fog	"
	Glove compartment	"
	Trunk	"
	Other	--
Mirrors	Day/night (auto. man.)	Standard, manual
	L.H. (remote, power, heated)	Remote, optional
	R. H. (convex, remote, power, heated)	Convex manual, optional
	Visor vanity (RH / LH, illuminated)	Not Available
Parking brake-auto release (warning light)		Standard, in lower area of speedometer
Power equipment	Door locks / deck lid - specify	Not Available
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	"
	Side windows	"
	Vent windows	"
	Rear window	"
Radio systems	Antenna (location, whip, w/shield, power)	Whip, R.H. frt. fender
	AM, FM, stereo, tape, CB	AM standard, Opt. AM/FM and AM/FM stereo
	Speaker (number, location) Premium sound	2 w/stereo radio, 1-frt, 2-rr quarter
Roof open air/fixd (flip-up, sliding, "T")		Not Available
Speed control device		"
Speed warning device (light, buzzer, etc.)		"
Tachometer (rpm)		"
Theft protection-type		Lock mounted on steering column; locks steering wheel and ignition.

@ - Standard, floor.

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

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (•) \_\_\_\_\_

See Key Sheets for definitions

Body Type

SAE Ref. No.	2-DOOR HATCHBACK COUPE 1T808	4-DOOR HATCHBACK SEDAN 1T868
--------------	---------------------------------	---------------------------------

**Station Wagon – Third Seat**

Sg RP couple distance	L85	NOT
Shoulder room	W85	APPLICABLE
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Sg RP to heel point	H87	
Knee clearance	L87	
Seat facing direction	SD1	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

**Station Wagon – Cargo Space**

Cargo length (open front)	L200	
Cargo length (open second)	L201	NOT
Cargo length (closed front)	L202	APPLICABLE
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
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 [m <sup>3</sup> (ft. <sup>3</sup> )]	V2	
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4	
Cargo volume index-rear of 2-seat	V10	

**Hatchback – Cargo Space**

Cargo length at front seatback height	L208	1024 (40.3)	1099 (43.3)
Cargo length at floor (front)	L209	1471 (57.9)	1549 (61.0)
Cargo length at second seatback height	L210	727 (28.6)	
Cargo length at floor (second)	L211	809 (31.9)	
Front seatback to load floor height	H197	490 (19.3)	
Second seatback to load floor height	H198	286 (11.3)	
Cargo volume index [m <sup>3</sup> (ft. <sup>3</sup> )]	V3	767 (27.1)	815 (28.8)
Hidden cargo volume [m <sup>3</sup> (ft. <sup>3</sup> )]	V4	--	
Cargo volume index-rear of 2-seat	V11	275 (9.7)	276 (9.7)

**Aerodynamics\***

Wheel lip to ground, front	594 (23.4)	593 (23.3)
Wheel lip to ground, rear	595 (23.4)	596 (23.5)
Frontal area [m <sup>2</sup> (ft <sup>2</sup> )]	1.76 (0.069)	
Drag coefficient (Cd)		

\* EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (●)

See Key Sheets for definitions

<b>Body Type</b>	<b>SAE Ref. No.</b>	<b>2-DOOR HATCHBACK COUPE</b> 1TB08	<b>4-DOOR HATCHBACK SEDAN</b> 1TB68
------------------	---------------------	--	--

**Front Compartment**

Sg RP front, "X" coordinate	L31	1118 (44.0)	
Effective head room	H61	959 (37.8)	962 (37.9)
Max. eff. leg room (accelerator)	L34	1058 (41.7)	
SgRP to heel point	H30	259 (10.2)	
SgRP to heel point	L53	828 (32.6)	
Back angle	L40	26.5	
Hip angle	L42	97.0	
Knee angle	L44	123.0	
Foot angle	L46	97.0	
Design H-point front travel	L17	134 ( 5.3)	
Normal driving & riding seat track trvl.	L23	134 ( 5.3)	
Shoulder room	W3	1273 (50.1)	1266 (49.8)
Hip room	W5	1268 (49.9)	1256 (49.4)
** Upper body opening to ground	H50	1240 (48.8)	
Steering wheel maximum diameter	W9	383 (15.1)	
Steering wheel angle	H18	30.2	
Accel. heel pt. to steer. whl. cntr	L11		
Accel. heel pt. to steer. whl. cntr	H17		
Steering wheel to C/L of thigh	H13	91 ( 3.6)	
Steering wheel torso clearance	L7	365 (14.4)	
Headlining to roof panel (front)	H37	29 ( 1.1)	27 (1.1)
Undepressed floor covering thickness	H67	25 ( 1.0)	

All Interior Dimensions Are Measured With The Seating Reference Point (SgRP) Full Rear And mm Upward Of Rearmost Seat Position.

**Rear Compartment**

Sg RP Point couple distance	L50	678 (26.7)	754 (29.7)
Effective head room	H63	942 (37.1)	937 (36.9)
Min. effective leg room	L51	777 (30.6)	864 (34.0)
Sg RP (second to heel)	H31	268 (10.6)	
Knee clearance	L48	-69 (-2.7)	1 ( 0.0)
Compartment room	L3	584 (23.0)	664 (26.1)
Shoulder room	W4	1254 (49.4)	1256 (49.4)
Hip room	W6	1045 (41.1)	1047 (41.2)
** Upper body opening to ground	H51	--	
Back angle	L41	25.0	
Hip angle	L43	80.5	82.0
Knee angle	L45	81.0	86.0
Foot angle	L47	117.5	119.0
Headlining to roof panel (second)	H38	29 (1.1)	27 (1.1)
Depressed floor covering thickness	H73	12 (0.5)	

**Luggage Compartment**

Usable luggage capacity (L. cu. ft.)	V1	--	
** Litter height	H195	754 (29.7)	758 (29.8)

**Interior Volumes (EPA Classification)**

Vehicle class (subcompact, compact, etc.)		Sub-compact	
Interior volume index (cu. ft.)		77.1	80.3
Trunk/cargo index (cu. ft.)		9.7	9.7

All linear dimensions are in millimeters (inches).  
 \*\* EPA Loaded Vehicle Weight, Loading Conditions



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

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (e) \_\_\_\_\_

Body Type

2-DOOR HATCHBACK COUPE 1TB08	4-DOOR HATCHBACK SEDAN 1TB68
---------------------------------	---------------------------------

**Lamps and Headlamp Shape\***

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	667.0 (26.3)
		Lowest	--
	Taillamp (SAE - H128)	Highest**	695.0 (27.4)
		Lowest	--
	Sidemarkers	Front	613.7 (24.2)
		Rear	695.0 (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)
Halogen headlamp (std., opt., n.a.)	Lo beam	Not Available	
	Hi beam	" "	
	Replaceable bulb	" "	
	Shape	" "	
Headlamp other than above	Lo beam	Conventional	
	Hi beam	"	
	Replaceable	Sealed beam, entire unit replaced	
	Shape	Rectangular	
	Type	Two lamp system	

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

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

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (☐)

<b>Body Type</b>	2-DOOR HATCHBACK COUPE 1TB08	4-DOOR HATCHBACK SEDAN 1TB68
------------------	---------------------------------	---------------------------------

**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 the base grid line to the rear fiducial mark located on rail (compartment pan - longitudinal).
	Y	Fiducial mark to centerline of car-rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal).
	Z	Fiducial mark to horizontal base grid line-rear, measured vertically from base grid line to the rear fiducial mark located on the rail (compartment pan - longitudinal).
Front	W21	504 (19.8)
	L54	750 (29.5)*
	H81	150 (5.9)#
	H161	290 (11.4)
	** H163	264 (10.4)
Rear	W22	195 (7.7)
	L55	2950 (116.1)*   2026 (79.8)
	H82	278 (10.9)#
	H162	423 (16.7)
	** H164	406 (16.0)
		* Vertical Base Grid 1100 mm Line. # Horizontal Base Grid 100 mm Line.

\* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

All linear dimensions are in millimeters (Inches).

\*\* EPA Loaded Vehicle Weight, Loading Conditions

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
Model Year 1986 Issued 7-85 Revised (\*) \_\_\_\_\_

METRIC (U.S. Customary)

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
Front & Rear Floor Mats (color-keyed) RPO B37	2.2 (4.8)	1.6 (3.5)	3.8 (8.3)	All models
Custom Exterior- RPO B57	.4 (0.9)	.2 (0.4)	.6 (1.3)	Not Available with 713 or two-tone paint.
Door Edge Guards RPO B91				All models
Electric Rear Window Defogger RPO C49	0 (0)	.8 (1.8)	.8 (1.8)	All models, includes increased capacity alternator
Air Conditioning RPO C60	26.8 (59.1)	0 (0)	26.8 (59.1)	With L17, N.A. with diesel includes increased capacity alternator and hood panel insulation.
Dual Sport Rear View Mirrors. Remote LH, manual convex RH RPO D35	.8 (1.8)	.4 (0.9)	1.2 (2.7)	All models
Remote Sport Rear View Mirror LH - RPO D33	.4 (0.9)	0 (0)	.4 (0.9)	All models
Power Brakes (Variable ratio brake pedal) RPO J50	2.4 (5.3)	.4 (0.9)	2.8 (6.2)	Required option with diesel engine

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



# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (e) \_\_\_\_\_

METRIC (U.S. Customary)

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
Heavy Duty Battery (Freedom II type) RPO UA1	2.6 (5.7)	-.2 (-0.4)	2.4 (5.3)	Not available with diesel engine
AM/FM Stereo Radio (Includes one 4x10 front speaker, two 4x6 rear speakers) RPO U58	1.6 (3.5)	.4 (0.9)	2.0 (4.4)	
AM Radio RPO U63	1.4 (3.1)	.4 (0.9)	1.8 (4.0)	
AM/FM Radio (Includes five pushbutton selec- tions, one AM, one FM three optional) RPO U69	1.6 (3.5)	.4 (0.9)	2.0 (4.4)	
Heavy Duty Cooling RPO V08	.8 (1.8)	0 (0)	.8 (1.8)	Not available with diesel engine
Sport Exterior RPO 713	.2 (0.4)	.2 (0.4)	.4 (0.9)	
Diesel Engine Equipment (Includes RPO-I J5, M75, J50) RPO Z90	74.8 (164.9)	3.4 (7.5)	78.2 (172.4)	Not available with RPO C60, MX1 or UA1

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

# MVMA Specifications Form Passenger Car

Car Line CHEVETTE  
 Model Year 1986 Issued 7-85 Revised (#) \_\_\_\_\_

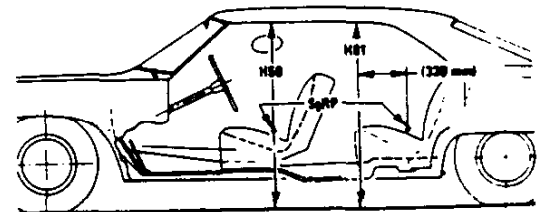
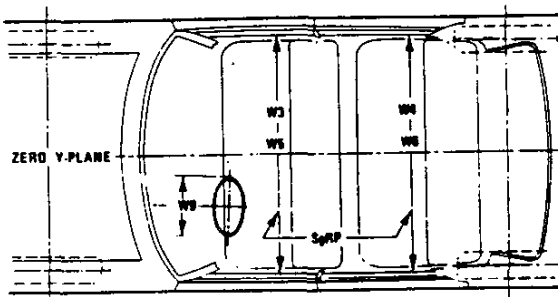
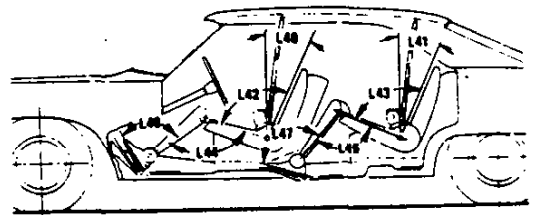
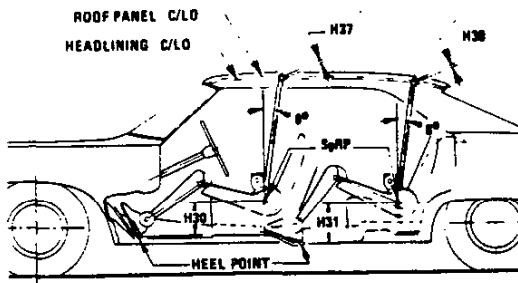
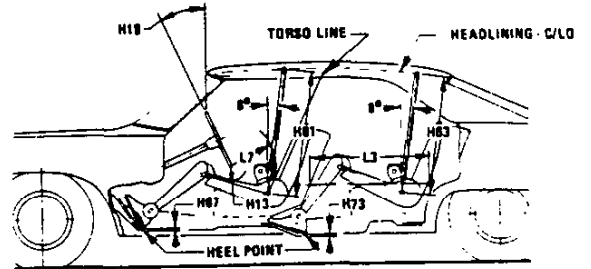
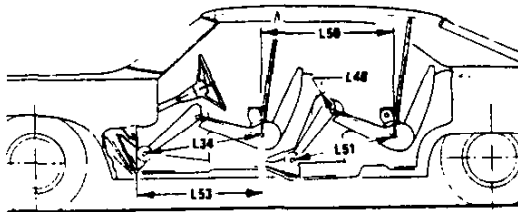
METRIC (U.S. Customary)

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
5-Speed Manual Transmission - RPO MM5	10.2 (22.5)	3.4 (7.5)	13.6 (30.9)	1TB08 with L17 engine
	10.4 (22.9)	3.4 (7.5)	13.8 (30.4)	1TB68 with L17 engine
	4.0 (8.8)	.4 (0.9)	4.4 (9.7)	With RPO LJ5 diesel engine
3-Speed Automatic Transmission - RPO MX1	17.2 (37.9)	5.8 (12.8)	23.0 (50.7)	1TB00 with L17 engine
Comfortilt Steering Wheel RPO N33	1.4 (3.1)	.4 (0.9)	1.8 (4.0)	
Power Steering RPO N41	9.8 (21.6)	-.8 (-1.8)	9.0 (19.8)	With gas engine RPO L17, Automatic Transmission must be ordered.
Wheel Trim Covers RPO PB2	.6 (1.3)	.6 (1.3)	1.2 (2.6)	
Wheel Trim Rings RPO P06	.2 (0.4)	.2 (0.4)	.4 (0.9)	Included with 713, B57

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

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

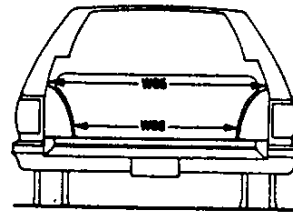
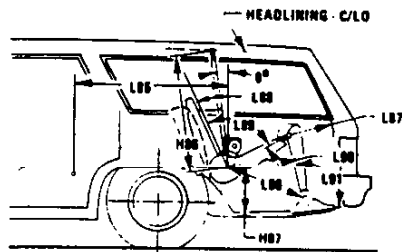
## Interior Car And Body Dimensions – Key Sheet



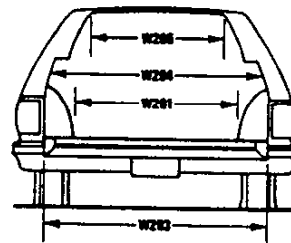
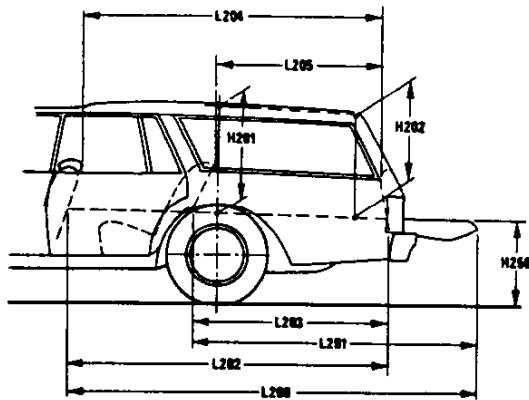
**MVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

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

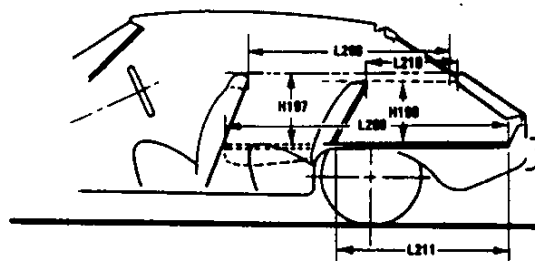
**Third Seat**



**Cargo Space**



**Station Wagon**



**Hatchback**



# 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, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

#### 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.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- 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

- 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.
- 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.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

#### Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body 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.
- 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.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane
- 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 arc 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.
- H133 BOTTOM OF DOOR CLOSED—FRONT 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.
- 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.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane

#### Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment
- H103 FRONT BUMPER TO GROUND—CURB MASS (WT.) Measured in the same manner as H102.

# MVMA Specifications Form

## Passenger Car

METRIC (U.S. Customary)

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

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.	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.
H105	REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.	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.
H106	ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.	L42	HIP ANGLE—FRONT. The angle measured between torso line and thigh centerline.
H107	ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.	L44	KNEE ANGLE—FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
H147	RAMP 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.	L46	FOOT ANGLE—FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
H153	REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.	L53	SgRP—FRONT TO HEEL. The dimension measured horizontally from the SgRP—front to the accelerator heel point.
H156	MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.	W3	SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front at height between the belt line and 254 mm (10.0 in.) above the SgRP—front, excluding the door assist strap and attaching parts.
<b>Glass Areas</b>		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 of the SgRP—front.
S1	Windshield area.	W9	STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
S2	Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.	H13	STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
S3	Backlight areas.	H17	ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP—front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
S4	Total area. Total of all areas (S1 + S2 + S3).	H18	STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
<b>Fiducial Mark Dimensions</b>		H30	SgRP—FRONT TO HEEL. The dimension measured vertically from the SgRP—front to the accelerator heel point.
<b>Fiducial Mark – Number 1</b>		H37	HEADLINING TO ROOF PANEL—FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
L54	"X" coordinate.	H50	UPPER BODY OPENING TO GROUND—FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP—front "X" plane.
W21	"Y" coordinate.	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.).
H81	"Z" coordinate.	H67	FLOOR COVERING THICKNESS—UNDEPRESSED—FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.
H161	Height "Z" coordinate to ground at curb weight.	PD1	PASSENGER DISTRIBUTION—FRONT.
H163	Height "Z" coordinate to ground.	<b>Rear Compartment Dimensions</b>	
<b>Fiducial Mark – Number 2</b>		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.
L55	"X" coordinate.		
W22	"Y" coordinate.		
W82	"Z" coordinate.		
H162	Height "Z" coordinate to ground at curb weight.		
H164	Height "Z" coordinate to ground.		
<b>Front Compartment Dimensions</b>			
L7	STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.		
L11	ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.		
L17	DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat track positions.		
L23	NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions.		
L31	SgRP—FRONT. "X" COORDINATED.		

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

- L41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- 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.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- 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.
- 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).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-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-J1100.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

#### Interior Volumes (EPA Classification)

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

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

#### Station Wagon – Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second to the SgRP-third.
- 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).
- L87 KNEE CLEARANCE-THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51mm (2.0 in). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE-THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE-THIRD. Measured in the same manner as L45.
- L91 FOOT ANGLE-THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM-THIRD. Measured in the same manner as W4.
- W86 HIP ROOM-THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM-THIRD. The dimension, measured along a line 8 deg. rear from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- PD3 PASSENGER DISTRIBUTION-THIRD.
- SD1 SEAT FACING DIRECTION-THIRD.

#### 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 to the rearmost point on 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 backpanel 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 wheelhouesings at floor level. For any vehicle not trimmed, measure to the sheet metal.

# Passenger Car

## METRIC (U.S. Customary)

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

- 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.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2 STATION WAGON  
Measured in inches:  
$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$
  
Measured in mm:  
$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V5 TRUCKS AND MPV'S WITH OPEN AREA.  
Measured in inches:  
$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$
  
Measured in mm:  
$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V6 TRUCKS AND MPV'S WITH CLOSED AREA.  
Measured in inches:  
$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$
  
Measured in mm:  
$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V8 HIDDEN LUGGAGE CAPACITY-REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.
- V10 STATION WAGON CARGO VOLUME INDEX. Measured in inches:  
$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$
  
Measured in mm:  
$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

### 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).

- L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L209 CARGO LENGTH AT FLOOR-FRONT-HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT-HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.
- L211 CARGO LENGTH AT FLOOR-SECOND HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seat back to the undepressed floor covering.
- V3 HATCHBACK.  
Measured in inches:  
$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{ft}^3$$
  
Measured in mm:  
$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:  
Measured in inches:  
$$\frac{L210 + L211}{2} \times W4 \times H198 = \text{ft}^3$$
  
Measured in mm:  
$$\frac{L210 + L211}{2} \times W4 \times H198 = \text{m}^3 \text{ (cubic meter)}$$

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

#### Index

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

**MVMA Specifications Form  
Passenger Car**

Model Year \_\_\_\_\_ Issued \_\_\_\_\_ Revises (to) \_\_\_\_\_

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

---

