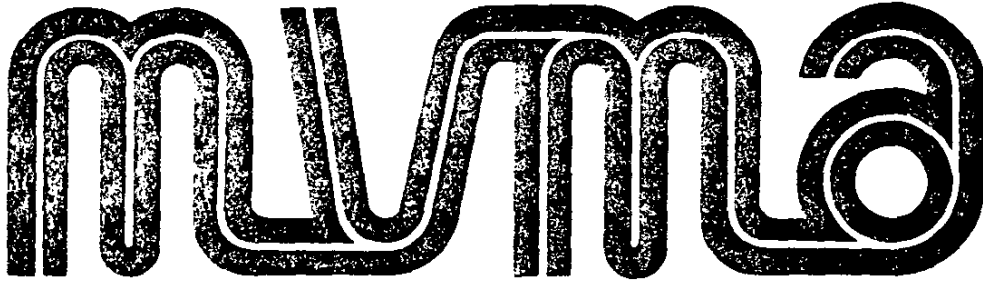


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ORIGINAL



# Specifications

## Form

# Passenger Car

# 1982

METRIC (U.S. Customary)

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

NOTE: Sheets revised -2 thru 18, 20, 23, 24B, 29.

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown above. This specification form was developed by automobile manufacturing companies under the auspices of the Motor Vehicle Manufacturers Association of the United States, Inc.

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

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

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**NOTE:**

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
  - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
  - b. Nominal design dimensions are used throughout these specifications.
  - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. A printed or computer tape supplement containing additional Car and Body Dimensions and/or drawings (to be in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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

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

**Car Models**

Model Description (Include Line Drawings of Vehicles, if Desired)	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)		Max. Trunk/Cargo Load— Kilograms (Pounds)
CELEBRITY	MODEL NUMBER	FRONT	REAR	
2-Door Notchback Coupe	1AW27	2	3	72.5 (159.8)
4-Door Notchback Sedan	1AW19	2	3	72.5 (159.8)

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

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

Car Line CELEBRITY  
 Model Year 1982 Issued 3-81 Revised (\*) 4-112

**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	
	Displ Liters (in <sup>3</sup> )	Carb. (Barrels)	Compr. Ratio	SAE Net at RPM		Exhaust System*		std (first)	
				kW (bhp)	Torque N - m (lb. ft.)			indicate A/C ratio	
Base - All States	L-4 2.5 (151) (LR8)	T.B.I.	8.3:1	90@ 4000	132@ 2800	S	Auto '125'c (MD9) -Base	2.84:1@	2.34:1**
Avail - All States	V6 2.8 (173) (LE2)	2	8.5:1	112@ 4300	145@ 2400	S	Auto '125'c (MD9) -Base	2.84:1@	
@ - Chain drive ratio is 38.32, final drive ratio 2.39:1. @@ - Chain driven ratio is 35.35, final drive ratio 2.84:1. ** - Available with RPO NA6, High Altitude option only, Chain driven ratio is 35.35, final drive ratio 2.84:1.									

\*S - Single D - Dual

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

Car Line CELCOR111  
Model Year 1982 Issued 8-81 Revised (\*) 4-82

Engine Description/Carb.  
Engine Code

2.5 Liter L4 (151 CID)  
Throttle Body Injection  
RPO LR8

2.8 Liter V6 (173 CID)  
2-8b1. Carburetor  
RPO LE2

**ENGINE - GENERAL**

Type (inline, V and angle flat)	In-Line	60° V6
Location (front,mid,rear)	Front	
Engine installation position (transverse, longitudinal)	Transverse, front of engine faces right side of vehicle	
Number of mtg. points	Front	Two
	Rear	Two
No. of cylinders	4	6
Bore	101.6 (4.0)	89 (3.50)
Stroke	76.2 (3.0)	76 (2.99)
Piston displacement cm <sup>3</sup> (in <sup>3</sup> )	2474 (151)	2837 (173)
Bore spacing (c/l to c/l)	111.8 (4.40)	111.8 (4.40)
Cylinder block material	Cast Alloy Iron	
Cylinder block deck height	232.16 (9.14)	224 (8.819)
Deck clearance (minimum) (above or below block)	.3983 (.01568) Above	0.64 (.025) Below
	.3790 (.01492) Below	
Cylinder head material	Cast Alloy Iron	
Cylinder head volume - cm <sup>3</sup>	52.25 (3.188)	62.86 (3.84)
Head gasket thickness (compressed)	0.97 (.038)	1.0 (.040)
Head gasket volume - cm <sup>3</sup>	8.13 (.496)	1.994 (0.122)
Minimum combustion chamber volume - cm <sup>3</sup>	88.845 (5.4217)	51.528 (3.144)
Cyl. no. system (front to rear)**	L. Bank	1-2-3-4
	R. Bank	--
Firing order	1-3-4-2	1-2-3-4-5-6
Recommended fuel (leaded, unleaded)	unleaded	
Fuel antiknock index (R + M) 2	--	
Total dressed engine mass (wt) dry*	--	

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

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

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

Car Line CELEBRITY  
 Model Year 1982 (Standard 8-81 Revised 4-82)

Engine Description/Carb. Engine Code	2.0 Liter 16 (151 CID) Throttle body Injection RPO LE2	2.6 Liter 16 (173 CID) 2-851 Carburetor RPO LE2
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**Engine - Pistons**

Material	CASE ALUMINUM ALLOY	Cast Aluminum Alloy	
Description and finish (flat, dished, dome, etc)	Sump Head, Slipper Skirt	Flat Head	
Mass, g (weight, oz.) - Piston Only	691 (24.35)	467 (16.47)	
Clearance limits:	Top land	.752-.755 (.030-.0374)	
	Skirt	Top	.064-.064 (.0025-.0033)
		Bottom	.043-.044 (.0017-.0041)
Ring groove diameter	No. 1 ring	90.5-90.75(3.563-3.573)	
	No. 2 ring	90.5-90.75(3.563-3.573)	
	No. 3 ring	91.19-90.33(3.580-3.590)	

**Engine - Piston Rings**

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
Compression	Upper	Nodular iron, moly Channel, barrel face
	Description - material, coating, etc.	Cast Iron, Molybdenum spray, barrel face
	Lower	Tapered face, reverse twist
	Width	1.969-1.980 (.0775-.0780)
	Gap	.38-.64 (.015-.025)
Oil	Description - material, coating, etc.	3-piece, steel rails and spacer
	Width	4.8 (.189)
	Gap	.38 - 1.40 (.015-.055)
	Expanders	In oil Ring Assembly

**Engine - Piston Pins**

Material	Chromium steel	Chromium Steel	
Length	76.2 (3.0)	70 (2.76)	
Diameter	23.62-23.93 (.938-.942)	22.9537-23.0016(.905-.906)	
Type	Locked in rod, in piston, floating, etc.	Locked in Rod	
	Bushing	In rod or piston	None
		Material	-
Clearance	In piston	.005-.010 (.0002-.0004)	
	in rod	Press fit	
Direction & amount offset in piston	Dir. Inrust 51-1.60(.063)	Dir. Inrust 51- 2 (.057)	

(9) - Lower; Upper - 1.475 - 1.490 (.058-.059)

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

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

Engine Description/Carb.  
 Engine Code

2.5 Liter L4(151 CID) Throttle Body Injection RPO LR8	2.8 Liter V6 (173 CID) 2-Bbl. Carburetor RPO LE2
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**Engine - Connecting Rods**

Material	Cast Arms Steel	1038 Steel
Mass. g (weight, oz.)	555 (19.58)	399 (14.07)
Length (center to center)	153.7 (6.05)	144.65-144.91 (5.69-5.71)
Bearing	Material & type	Premium Aluminum
	Overall length	18.72 (.737)
	Clearance (limits)	.013-.066(.0005-.0026)
	End play	.15-.56 (.006-.022)
		Premium Aluminum
		18.05-18.30 (.711-.720)
		.012-.052 (.0005-.0020)
		.15-.43 (.006-.017)

**Engine - Crankshaft**

Material	Nodular Cast Iron		
Vibration damper type	None	Rubber Mounted Inertia	
End thrust taken by bearing (no.)	5	3	
Crankshaft end play	.089-.216(.0035-.0085)	.05-.2(.0020-.0079)	
Main bearing	Material & type	M400	
	Clearance	.005-.056(.0002-.0022)	
	Journal dia. and bearing overall length	No. 1	58.4 x 20.3(2.3x.80)
		No. 2	58.4x20.3(2.3x.80)
		No. 3	58.4x20.3(2.3x.80)
		No. 4	58.4x20.3(2.3x.80)
		No. 5	58.4x25.6(2.3x1.01)
		No. 6	--
		No. 7	--
	Dir. & amt. cyl. offset	--	
No. bolts/main brg. cap	2		
Crankpin journal diameter	50.8 (2.0)		

**Engine - Camshaft**

Location	In block		
Material	Cast iron		
Bearings	Material	Babbitt on Steel	
	Number	3	
Type of drive		GM-3881M, Steel Backing	
	Gear, chain or belt	Gear	
	Crankshaft gear or sprocket material	Cast Iron	
	Camshaft gear or sprocket material	Phenolic *	
	Timing chain	No. of links	None
			--
	Chain or belt	Width	--
Pitch		--	
		19.0(.748)	
		9.53(.375)	

@ - Steel backed aluminum with overplate, No. 1 conec.  
 \* - Bakelite & fabric composition w/steel hub.



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

Car Line CELEBRITY  
 Model Year 1982 Issued 8-81 Revised 4-82

Engine Description/Carb. Engine Code	2.5 Liter (14151 CID) Throttle Body Injection 190 LR8	2.5 Liter Ver 178 CID) 2-Bbl. Carburetor 190 LE2
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**Engine - Valve System**

Hydraulic lifters (std., opt., n/a)	Standard			
Valve rotator, type (intake/exhaust)	None	Exhaust		
Push rods (dia., length, material)	7.94x226.75(.3125x8.927)*	7.9(.3125) Tubular Sti		
Rocker ratio	1.75:1	1.50:1		
Operating tappet clearance (indicate not or cold)	Intake	Zero		
	Exhaust	Zero		
Timing (based on top of ramp points)	Intake	Opens (°BTC)	33	25
		Closes (°BTC)	57	31
		Duration (deg)	291	236
	Exhaust	Opens (°BTC)	76	59
		Closes (°BTC)	38	55
		Duration (deg)	294	304
Valve open overlap (deg)	71	30		
Intake valve	Material	Ø		
	Overall length	115.7 (4.557)	119.4 (4.70)	
	Actual overall head dia	43.7 (1.72)	40.6 (1.60)	
	Angle of seat & face (deg)	46.45	45.45	
	Seat insert material	None		
	Stem diameter	8.68-8.70(.3418-.3425)	8.661-8.679(.3410-.3417)	
	Stem to guide clearance	.025-.069(.0010-.0027)		
	Lift (at zero lash)	10.3 (.404)	2.81 (.112)	
	Outer spring press & length	Valve closed - N at mm (lb at in)	347-382 @ 42.2 (78-86 @ 1.66)	338-374 @ 40.9 (59-65 @ 1.61)
		Valve open - N at mm (lb at in)	765-800 @ 31.85 (172-180 @ 1.25)	863-917 @ 29.5 (151-160 @ 1.16)
	Inner spring press & length	Valve closed - N at mm (lb at in)	None	Spring Damper
		Valve open - N at mm (lb at in)	None	Spring Damper
	Exhaust valve	Material	21-2N Steel, Chrome Flash Stem	
		Overall length	114.0 (4.489)	120.1 (4.733)
Actual overall head dia		38.1 (1.50)	33.2 (1.30)	
Angle of seat & face (deg)		46.45	45.45	
Seat insert material		None		
Stem diameter		8.68-8.70(.3418-.3425)	8.661-8.679(.3410-.3417)	
Stem to guide clearance		.025-.069(.0010-.0027)	.025-.069(.0010-.0027)	
Lift (at zero lash)		10.3 (.404)	10.002 (.394)	
Outer spring press & length		Valve closed - N at mm (lb at in)	347-382 @ 42.2 (78-86 @ 1.66)	338-374 @ 40.9 (59-65 @ 1.61)
		Valve open - N at mm (lb at in)	765-800 @ 31.85 (172-180 @ 1.25)	863-917 @ 29.5 (151-160 @ 1.16)
Inner spring press & length		Valve closed - N at mm (lb at in)	None	Spring Damper
		Valve open - N at mm (lb at in)	None	Spring Damper

Ø - Steel, SAE 1541-H or 1547, Chrome Flash Stem.  
 \* - Tubular Steel.  
 MVMA-C-32

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

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

Engine Description/Carb.  
 Engine Code

2.5 Liter L4(151 CID) Throttle Bdy Injction RPO LR8	2.8 Liter V6(173 CID) 2-Bbl. Carburetor RPO LE2
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**Engine - Lubrication System**

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Nozzle
	Cylinder walls	Splash
Oil pump type	Gear	Spur Gear
Normal oil pressure-kPa(psi) at engine rpm	259 (37.5)	345-450(50-65)@2000
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full flow	
Capacity of c/case, less filter-refill-L (qt)	2.8 (3.0)	3.8 (4.0)
Oil grade recommended (SAE viscosity and temperature range)	20°F & Above: 20w-20, 10w-30, 10w-40, 20w-40, 20w-50 0° to 60°F: 10w, 5w-30, 10w-30, 10w-40 Below 20°F: 5w-20, 5w-30	
Engine service reqmt (SD, SE, etc)	SE	

**Engine - Exhaust System**

Type (single, single with cross-over, dual, other)	Single	
Muffler no & type (reverse flow, straight thru, separate resonator)	One reverse flow	
Resonator no & type	--	
Exhaust pipe	Branch O.D., wall thickness	--
	Main O.D., wall thickness	57.15x1.04(2.25x.041)(1)
	Material	47.6x1.04(1.87x.041) (2)
Inter-mediate pipe	O.D. & wall thickness	See below
	Material	50.8 x 1.09(2.0x.043)
Tail pipe	O.D. & wall thickness	Aluminum Coated Stl
	Material	44.5x1.09(1.75x.043)
		Aluminum Coated Stl

- (1) - Stainless steel inner and outer pipes with 6.35mm (.25") air gap between pipes.
- (2) - Stainless steel pipe with aluminum coated heat stove.

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

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

Engine Description/Carb.  
 Engine Code

2.5 Liter I4(151 CID)	2.8 Liter V6(173 CID)
Throttle Bdy Injection	2-Bbl. Carburetor
RPO LR8	RPO LE2

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

Induction type: carburetor, fuel injection system, etc		Fuel Injection	Carburetor	
Fuel tank	Refill capacity - L (U.S. gals)	59.4 (15.7) Approx.	62.1 (16.4) Approx.	
	Filler location	Driver side rear quarter		
Fuel pump	Type (elec. or mech.)	Mechanical		
	Locations	RF	LF	
	Pressure range - kPa (psi)	45-55 (6.5-8.0)	41-52 (5.0-7.5)	
Carburetor	Mfr. & model	In-Line	@	
	Choke type	Electric		
	Intake manifold heat control (exhaust or water)	Water	Exhaust	
	Air cleaner type	Standard	*	
		Optional	--	
	Idle spd-rpm (spec. neutral or drive)	Manual	--	
		Propane (neu.)	--	
Automatic		--		
Propane (neu.)	--			
Idle A:F mix	--			

**Engine - Diesel Information**

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

@ - Fine mesh plastic strainer in gasoline tank and paper filter element in carburetor inlet.

\* - Replaceable paper element, single snorkel.

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

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

Engine Description/Carb.  
 Engine Code

2.5 Liter L4(151 CID) Throttle Bdy Injection RPO LR8	2.8 Liter V6(173 CID) 2-Bbl. Carburetor RPO LE2
--	---

**Engine - Cooling System**

Coolant recovery system (std., opt., none)		Standard		
Radiator cap relief valve pressure - kPa(PSI)		103.4 (15.0)		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at °C (°F)	90 (195)		
Water pump	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	--		
	Number of pumps	One		
	Drive (V-belt, other)	V-Belt		
Bearing type		Sealed Double Row Ball		
By-pass recirculation type (inter., ext.)		Internal		
Radiator core type (cross-flow vertical, cellular, tube and fin, other)		Cross flow		
Cooling system capacity	With heater - L(qt.)	8.6 (9.1)		
	Without heater - L(qt.)	Heated Standard		
	Opt. equipment-specify - L(qt.)	9.0 (9.5)		
Water jackets full length of cyl. (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator (hose)	Lower	Number and type (molded, straight)	One Molded	
		Inside diameter	31.8 (1.25)   38.0 (1.5)	
	Upper	Number and type (molded, straight)	One Molded	
		Inside diameter	31.8 (1.25)   38.0 (1.5)	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	--	
Radiator (core)	Standard	Width	430 (16.93)	
		Height	429.7 (16.92)	
		Thickness	25.0 (.98)	
	A/C	Width	668.0 (26.3)	
		Height	429.7 (16.92)	
		Thickness	25.0 (.98)	
	Heavy duty	Width	668.0 (26.3)	
		Height	429.7 (16.92)	
		Thickness	40.2 (1.58)	
	Fan (standard)	Number of blades & type - flex/solid	7 Plastic	
		Diameter	386.0 (15.2)	
		Ratio - fan to crankshaft rev.	--	
Fan cutout type		ECM Controlled		
Drive type-number of fans		Electric, One (1)		
Fan (optional)	No. of blades and spacing	/		
	Diameter	386.0 (15.2)		
	Ratio - fan to crankshaft rev.	--		
	Fan cut-out type	ECM Controlled		
Drive type-number of fans		Electric, One (2)		

- (1) - with rotating reinforcement ring  
 (2) - with rotating reinforcement ring, shrouded

**MVMA Specifications Form**  
**Passenger Car**  
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Car Line CELEBRITY  
 Model Year 1982 Issued 8-81 Revised (\*) 4-82

Engine Description/Carb.  
 Engine Code

2.5 Liter L4(157 CID) Throttle Bdy Injection KPO LR8	2.8 Liter V6(173 CID) 2-8b1. Carburetor KPO LE2
--	---

**Vehicle Emission Control**

Exhaust Emission Control	Type (air injection, engine modifications, other)		Computer Command Control	Air injection with Computer Command Control	
	Air Injection Pump	Type	None	Vane	
		Displacement—cm <sup>3</sup> /min <sup>3</sup>	--	180.3 (1?)	
		Drive ratio	--	1:1	
		Drive type	--	V-Belt	
		Relief valve (type)	--		
	Air Injection System	Filter (describe)	---	Nylon-Plastic	
		Air distribution (head, manifold, etc.)	--	Exh. Manifold, Convrt, Air Cleaner	
		Point of entry	--	Exh. Manifold Parts	
		Injection type (c)	--	.64 (.025)	
		Check valve type	--		
	Exhaust Gas Recirculation System	Backfire protection (type)	--		
		Type (controlled flow, open orifice, other)	Controlled flow		
		Valve type	Back pressure		
		Valve location	Inlet manifold		
		Control energy source	TBI Vacuum		
		Exhaust source	Manifold	R.H. Bank	
		Exhaust cooler type	None		
	Catalytic Converter System	Orifice no. and size	--		
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet manifold		
		Catalyst	Type	Platinum, Palladium, Rhodium	
			Volume—L(in <sup>3</sup> )	(160)	2.8 (170)
	Substrate type	Alumina	Monolith		
		Container location	Mounted to underbody		
	Other				

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

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

Engine Description/Carb.  
 Engine Code

2.5L L4 (151 CID) THROTTLE BODY INJ RPO LR8	2.8L V6 (173 CID) 2-BBL CARBURETOR RPO LE2
---	--

**Vehicle Emission Control (continued)**

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

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

Car Line CELEBRITY  
 Model Year 1982 Issued 8-81 Revised (#) 4-82

Engine Description/Carb.  
 Engine Code

2.5L 14 (151 CID) THROTTLE BODY INJ RPO LR8	2.5L 14 (173 CID) C-B3L CARBURETOR RPO LE2
---	--

**Electrical - Supply System**

Battery	Make and model		Delco Freedom II	
	Voltage reg. - V - & total plates		12 Volt	
	SAE designation no. and/or capacity		(a) 75 min.res.cap. (b) 115 min.res.cap.	75 minutes Reserve capacity
	Location		Engine compartment	
Generator or alternator	Make		Delco Remy	
	Model		(c,d,e)	
	Type and rating		--	
	Output at engine idle (neutral) A		42	
	Ratio-gen to crs rev		(c,d) 2.73 (e) 2.61	3.27
Regulator	Make		Delco Electronics	
	Model		--	
	Type		Integral with alternator	
	Regulated	Voltage	14.7	
		Current A	(c,d,e)	
	Voltage test conditions	Temperature - °C (°F)	25 (77)	
		Load A	25 amps	
Other		7000 RPM		

**Electrical - Starting System**

Starting motor	Make		Delco Remy		
	Model		1109533		
Motor drive	Engagement type		Overrunning clutch		
	Pinion engages from (front, rear)		Pinion		
	Number of teeth	Pinion		9	
		Flywheel	Manual	142	
			Auto	142	
		Rear			
		5			

- (a) F13 - standard battery.
- (b) F18 with H.D. option UA1.
- (c) 42 Amp with heater, 10 SI (22 Amp @ Idle).
- (d) 63 Amp with heater and heated backlite, 10 SI (23 Amp @ Idle).
- (e) 70 Amp with A/C, 15 SI (40 Amp @ Idle)

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

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

Engine Description/Carb.  
 Engine Code

2.5L L4 (151 CID) THROTTLE BODY INJ RPO LR8	2.8L V6 (173 CID) 2-BBL CARBURETOR RPO LE2
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**Electrical – Ignition System**

Type	Conventional—std., opt., n.a.		Not available
	Transistorized—std., opt., n.a.		Standard
	Other (specify)		Not available
Coil	Make		High energy ignition
	Model		(Integral with distributor)
	Current	Engine stopped – A	--
		Engine idling – A	--
Spark plug	Make	AC	AC
	Model	R44TSX	R43TS
	Thread (mm)	14	M14 x 1.25
	Tightening torque—N-m (lb. ft.)	20 (15)	9-20 (7-15)
	Gap	1.52 (.060)	1.143

**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	In-line with pointer, 7 wheel odometer
	Trip odometer (std., opt., n.a.)	Optional
EGR maintenance indicator		Not available
Charge indicator	Type	Tell-tale light
	Warning device	Not available
Temperature indicator	Type	Tell-tale light
	Warning device	Not available
Oil pressure indicator	Type	Tell-tale light
	Warning device	Not available
Fuel indicator	Type	Electric gage with pointer
	Warning device	Not available
Wind-shield wiper	Type – standard	Electric two speed, non-articulated
	Type – optional	Intermittent
	Blade length	457.2 (18.0)
	Swept area – cm <sup>2</sup> (in. <sup>2</sup> )	5751 (891.6)
Wind-shield washer	Type – standard	Electric, integral pump/motor, dual nozzle fan spray
	Type – optional	Not available
	Fluid level indicator	Not available
Horn	Type	Electric vibrator
	Number used	Two, A & F notes
Other	Standard: restraint system warning light and buzzer, parking brake and brake failure warning light Optional: voltmeter, oil pressure, coolant temperature gages, clock, rear window defogger indicator light	



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Car Line CELEBRITY  
 Model Year 1982 Issued 3-81 Revised (\*) 4-82

Engine Description/Carb.  
 Engine Code

2.5L I4 (151 CID) THROTTLE BODY IAJ RPO LAR	2.5L I6 (173 CID) 2-BBL CARBURETOR RPO LE2
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**Drive Units - Clutch (Manual Transmission)**

Make & type	Belleville spring type, self adjusting	
Type pressure plate springs	Diaphragm	
Total spring load - N (lb.)	276.5 - 351.0 (1230-1490)	
No. of clutch driven discs	One	
Clutch facing	Material	woven, woven asbestos
	Manufacturer	Dorg & Beck
	Part number	476000
	Rivets/plate	36
	Rivet size	3.6 x 5.4 (.143 x .213)
	Outside & inside dia	232 x 155 (9.12 x 6.12)
	Total rif. area - cm <sup>2</sup> (in <sup>2</sup> )	463 (71.32)
	Thickness	3.43 (.135)
Engagement cushion method	Driven plate woven spoke springs	
	Type & method of lubrication	Ball thrust - prepacked & sealed
Release bearing	Ball thrust - prepacked & sealed	
Torsional damping	Method: springs, friction material	Coil springs & metal to metal friction

**Drive Units - Transmissions**

Manual 3-speed (std., opt., n.a.)	Not available
Manual 4-speed (std., opt., n.a.)	Not available
Manual 5-speed (std., opt., n.a.)	Not available
Manual overdrive (std., opt., n.a.)	Not available
Automatic (std., opt., n.a.)	Standard
Automatic overdrive (std., opt., n.a.)	Not available

**Drive Units - Manual Transmission**

Number of forward speeds	Not Available		
Transmission ratios	In first	Available	
	In second	--	
	In third	--	
	In fourth	--	
	In fifth	--	
	In overdrive	--	
	In reverse	--	
Synchronous meshing, specify gears	--		
Shift lever location			
Lubricant	Capacity - L (pt.)	--	
	Type recommended	--	
	SAE viscosity number	Summer	--
		Winter	--
Extreme cold		--	

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

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

Engine Description/Carb.  
 Engine Code

2.5L L4 (151 CID)  
 THROTTLE BODY INJ  
 RPO LR8

2.8L V6 (173 CID)  
 2-BBL CARBURETOR  
 RPO LE2

**Drive Units - Automatic Transmission**

Trade name		3-speed automatic
Type (describe)		Torque converter with planetary gears
Selector	Location	Column or floor
	Ltr./No designation	PRND21
Gear ratios	R	2.07
	D	1.00
	L <sub>3</sub>	--
	L <sub>2</sub>	1.60
	L <sub>1</sub>	2.84
Max upshift speed—drive range—km/h (mph)		120 (75)
Max kickdown speed—drive range—km/h (mph)		113 (70)
Min overdrive speed—km/h (mph)		--
Torque converter	Number of elements	3
	Max ratio at stall	1.9
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 (9.65)
Lubricant	Capacity—refill—L (pt.)	4.6 (10.0)
	Type recommended	Dexron II
Special transmission features		Torque converter clutch, 3rd gear locking

**Drive Units - Axle or Front Wheel Drive Unit**

Type (front, rear)		Front	
Description		Front differential with helical gears	
Limited slip differential, type		Not available	
Drive pinion offset		--	
Drive pinion type		--	
No. of differential pinions		2	
Pinion adjustment (shim, other)		--	
Pinion bearing adj (shim, other)		Integral double row ball bearing	
Driving wheel bearing type		Sealed ball bearings (integral part of bolt-in hub units)	
Lubricant	Capacity—L (pt.)		
	Type recommended		
	SAE viscosity number	Summer	GM Dexron II fluid.
		Winter	--
		Extreme cold	--

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

Axle ratio or overall ratio		2.84	2.84
No. of teeth	Pinion	38	35
	Ring gear or gear	32	35
Ring gear O D		--	--
Transaxle	Transfer gear ratio	1.0	1.0
	Final drive ratio	2.84	2.84

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

Car Line CELEBRITY  
 Model Year 1982 Issued 9-81 Revised (\*) 4-82

Engine Description/Carb.  
 Engine Code

2.5L I4 (151 CID) THROTTLE BODY IAG RPO LRS	2.8L V6 (173 CID) 2-BBL CARBURETOR RPO LE2
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**Drive Units - Axle Shafts - Front Wheel Drive**

Number used		Two		
Type (straight, solid bar, tubular, etc.)	Left	Straight, solid bar		
	Right	Straight, solid bar		
Outer diam x length* x wall thickness	Manual transmission	Left	None	
		Right	--	
	Automatic transmission	Left	23.8 x 299.0 (0.937 x 11.77)	
		Right	23.8 x 414.1 (0.937 x 16.30)	
	Optional transmission	Left	None	
		Right	--	
Spline yoke	Type	None		
	Number of teeth	--		
	Spline o.d.	--		
Universal joints	Make and mfg no.	Inner	Saginaw	
		Outer	Saginaw	
	Number used	Four 2 each shaft		
	Type, size, plunge	Inner	Tripot, 63.5 (2.5) plunge	
		Outer	Kzeppa, Fixed	
	Attach (u-bolt, clamp, etc.)	--		
	Bearing	Type (plain, anti-friction)	Not Applicable	
Lubric. (filling, prepack)		Prepacked		
Drive taken through (torque tube or arms, springs)		Wishbone lower control arm; Upper MacPherson strut		
Torque taken through (torque tube or arms, springs)		Engine mounting system		

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

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

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

Engine Description/Carb.  
 Engine Code

2-DOOR NOTCHBACK COUPE

4-DOOR NOTCHBACK SEDAN

**Drive Units — Tires And Wheels (Standard)**

Tires	Size, load range, ply		P185/80R-13, BW
	Type (bias, radial, etc.)		Glass belted radial
	Inflation pressure (cold) for recommended max. vehicle load	Front-kPa (psi)	240 (35)
		Rear-kPa (psi)	240 (35)
Rev. mile—at 70 km/h (45 mph)		--	
Wheels	Type & material		Ventilated, semi-styled disc
	Rim (size & flange type)		13 x 5.5
	Wheel offset		42 mm
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	100 mm
Number & size		5-M12 x 1.5 - 6H.THD. (metric)	
Spare tire and wheel (same or other)		14 x 4 wheel; compact spare tire T125/70D14	

**Drive Units — Tires And Wheels (Optional)**

Size, load range, ply		P185/80R-13, WW
Type (bias, radial, etc.)		Glass belted radial
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		P185/80R-13, BW, WW
Type (bias, radial, etc.)		Steel belted radial
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		P205/70R-13, WW, WL(+)
Type (bias, radial, etc.)		Steel belted radial
Wheel type & material		
Rim (size, flange type, and offset)		
Size, load range, ply		P185/75R-14
Type (bias, radial, etc.)		Steel belted radial (*)
Wheel type & material		
Rim (size, flange type, and offset)		
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel)		

**Brakes — Parking**

Type of control		Foot pedal - application; 'T' handle release
Location of control		Under instrument panel, left of steering column
Operation		Rear service brakes
If separate from service brakes	Type (internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

- (+) - Required with sport suspension, RPO F41.
- (\*) - Available only with diesel engine, RPO LT7.

**MVMA Specifications Form**  
**Passenger Car**  
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Car line CELEBRITY  
 Model year 1982 Issued 9-81 Revised (\*) 4-82

Body Type And/Or  
 Engine Displacement

2.8L L4 (151 CID) THROTTLE BODY INJ RPO LR5	2.8L V6 (173 CID) 2-BBL CARBURETOR RPO LE2
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**Brakes - Service**

Brake type (std., opt., n.a.)	Drum	Front	Not Available	
		Rear	Standard	
	Disc	Front	Standard	
		Rear	Not Available	
Self-adjusting (std., opt., n.a.)			Standard	
Special valving	Type (proportion, delay, metering, other)		Proportioning, Diagonal split circuit	
Power brake (std., opt., n.a.)			Standard	
Booster type (remote, integral, vac., hyd., etc.)			Tandem Vacuum*	
Anti-skid device type (std., opt., n.a.)			Not Available	
Effective area - cm <sup>2</sup> (in <sup>2</sup> )*			558 (86.5)	
Gross lining area - cm <sup>2</sup> (in <sup>2</sup> )**			553 (85.7)	
Swept area - cm <sup>2</sup> (in <sup>2</sup> )**			1746 (270.6)	
Rotor	Outer working diameter	F	247mm (9.72 in.)	
		R	--	
	Inner working diameter	F	147mm (5.83 in.)	
		R	--	
	Thickness	F	22mm (0.866 in.)	
		R	--	
	Material & type (vented/solid)	F	Cast iron, vented,	
		R	--	
Drum	Diameter (nominal)		225mm (8.85 in.) (Rear)	
	Type and material		Composite cast iron, finned	
Wheel cylinder bore	Front		57mm (2.24 in.)	
	Rear		17.5mm (0.689 in.)	
Master cylinder	Bore		22.2 x 31.8 (0.87 x 1.25)	
	Stroke		35.75 (1.41)	
Pedal arc ratio			3.5:1	
Line pressure at 445 N (100 lb.) pedal load - kPa (psi)			12618 (1830)	
Lining clearance per shoe	Front		Self adjusting, 0	
	Rear		Self adjusting, 0.381 mm	
Brake lining	Front wheel	Bonded or riveted, rivets/seg.		Riveted
		Rivet size		5.33 x 9.63 (0.210 x 0.379)
		Manufacturer		Delco Moraine
		Lining code		117 FE
		Material		Semi-metallic 8032
		Size	Primary or out-board	125 x 46 x 10mm
			Secondary or in-board	125 x 46 x 11mm
	Shoe thickness (no lining)		Inboard 5, outboard 3	
	Rear wheel	Bonded or riveted, rivets/seg.		Riveted
		Manufacturer		Inland
		Lining code		240 FF
		Material		Organic 4050
		Size	Primary or out-board	175 x 44 x 6mm
			Secondary or in-board	208 x 44 x 7.6mm
Shoe thickness (no lining)		2mm (0.0787 in.)		

\* - L-4 Vacuum pump with cruise control.

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

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

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

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

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

Car Line CELEBRITY  
 Model Year 1982 Issued 8-81 Revised (\*) \_\_\_\_\_

ALL

**Steering**

Manual (std., opt., n.a.)		Not available		
Power (std., opt., n.a.)		Standard		
Adjustable steering wheel (lift, swing other)	Type and description	Tilt		
	(Std., opt., n.a.)	Optional		
Wheel diameter	Manual	--		
	Power	375.0 (14.76)		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	12.190 (39.99)	
		Curb to curb (l. & r.)	11.268 (36.96)	
	Inside rear	Wall to wall (l. & r.)	--	
		Curb to curb (l. & r.)	--	
Manual	Gear	Type	Not available	
		Make	--	
		Ratios	Gear	--
			Overall	--
	No wheel turns (stop to stop)		--	
Power	Type (coaxial, linkage, etc.)		Rack and pinion, integral pump	
	Make		Saginaw Steering Gear	
	Gear	Type	Rack and pinion	
		Ratios	Gear	"C" Factor = 45.13 mm per revolution of pinion
			Overall	17.5:1
Pump driven by		Belt off crankshaft pulley		
No. wheel turns (stop to stop)		3.05		
Linkage	Type		End of rack take-off tie rods	
	Location (front or rear of wheels, other)		Rear of front wheel centerline	
	Drag links (trans. or longit.)		Not applicable	
	Tie rods (one or two)		Two	
Steering axis	Inclination at camber (deg.)		14.6°	
	Bearings (type)	Upper	Ball bearing	
		Lower	Ball joint	
		Thrust	Ball bearing	
Steering spindle & joint type		MacPherson strut with lower ball joint		
Wheel spindle	Diameter	Inner bearing	Not applicable to integral bearings. Serviced only	
		Outer bearing	as assembly	
	Thread size	--		
Bearing type		Integral double row ball, permanently lubricated		
Wheel alignment curb marks (wt)	Service checking	Caster (deg.)	2.0 + 2° Left and right side should be equal within 2°	
		Camber (deg.)	0.0 + 1.0	
		Toe-in (outside track-mm (in.))	0.0 + 0.4	
	Service reset	Caster	Not adjustable	
		Camber	0.0 + 0.5	
		Toe in	0.0 + 0.2 total	
	Periodic MV inspection	Caster	Not adjustable	
		Camber	0.0 + 1.0	
Toe in		0.0 + 0.4		

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

Car Line CELEBRITY  
 Model Year 1982 Issued 3-81 Revised (\*) 4-82

Body Type And/Or  
 Engine Displacement

ALL

**Suspension - General**

Car leveling	Std./opt./n.a.	Not available
	Type (air, hyd., etc.)	--
	Manual/auto. controlled	--
Provision for brake dip control		Front suspension geometry
Provision for acc. squat control		Front suspension geometry
Special provisions for car jacking		Body pickup at rocker panels
Shock absorber front & rear	Type	Front: MacPherson strut; Rear: direct, double acting
	Make	Delco
	Piston dia	Front: 32 (1.26); Rear: 25 (1.00)
Other special features		--

**Suspension - Front**

Type and description		MacPherson strut with coil springs, stamped lower control arms and nodular iron steering knuckles
Travel	Full jounce	90 mm (3.55 in.)
	Full rebound	89 mm (3.5 in.)
Spring	Type (coil, leaf, other)	Coil
	Material	Steel
	Size (coil design height & i.d., bar length x dia.)	260 (10.3) height at checking load; 165.1 (6.5) I.D.; 2768 (108.9) length; 136 (0.54) dia.
	Spring rate—N/mm (lb./in.)	Base: 14.5(83), F40, F41 23.5(134); Diesel: 160.0(91) F40 25.5(143)
	Rate at wheel—N/mm (lb./in.)	--
Stabilizer	Type (link, linkless, frameless)	Link Steel; base 22 (.87), F41 28 (1.10), Diesel 24 (.94)
	Material & bar diameter	

**Suspension - Rear**

Type and description		Trailing arm and track bar
Drive and torque taken through		Not applicable
Travel	Full jounce	105 mm (4.15 in.)
	Full rebound	95 mm (3.75 in.)
Spring	Type (coil, leaf, other)	Coil
	Material	Steel
	Size (length x width, coil design height & i.d., bar length & dia.)	254 (10) height at checking load; 108.0 (4.3) I.D.; 2282 (89.8) length; 12.4 (0.49) dia.
	Spring rate—N/mm (lb./in.)	
	Rate at wheel—N/mm (lb./in.)	
	Mounting insulation type	Rubber insulator top and bottom
Stabilizer	II leaf	No. of leaves Shackle (comp or lens)
	Type (link, linkless, frameless)	Linkless, integral with axle
Material & bar diameter		Steel, 20 mm (.79)
Track bar type		Transverse beam

(a) Springs for all models are computer selected for load according to vehicle weight.  
 base condition shown. Optional specifications provide stiffer rates.

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

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

Body Type ALL

**Body -- Miscellaneous Information**

Type of finish (lacquer, enamel, other)		Acrylic lacquer or water base acrylic enamel
Hood hinge location (front, rear)		Rear
Hood counterbalance (type)		No counterbalance. Prop rod type.
Hood release control (internal, external)		Internal
Vehicle ident. no. location		Top left hand instrument panel pad
Vent window control method (crank, friction pivot, power)	Front	None
	Rear	None
Seat cushion type	Front	Molded polyurethane padding
	Rear	Molded polyurethane padding
	3rd seat	None
Seat back type	Front	Molded polyurethane padding
	Rear	Molded polyurethane padding
	3rd seat	None
Method of holding luggage compartment lid open		Torsion bar counterbalance
Position of spare tire storage		Horizontal, under load floor

**Passive Restraint System**

Inflatable restraint system	Standard/optional	Not available
	Type of charging system	--
	Location (stg. wht. instru panel, other)	--
Passive seat belts	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 with bolt-on power train cradle
---	--



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

Car Line CELEBRITY  
 Model Year 1982 Issued 8-81 Revised (\*) \_\_\_\_\_

Body Type	2-DOOR NOTCHBACK COUPE	4-DOOR NOTCHBACK SEDAN
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**Convenience Equipment**

Power windows	Side windows	Optional
	Vent windows	Not available
	Backlight or tailgate	Not available
Power seats (specify type as well as availability)	Optional - 6-way power bench seat 6-way 45/45 power bench seat, power drive seat only	
Reclining front seat back (r-l or both)	Optional, left and right	
Radio (specify type as well as availability)	Optional-AM/FM push-button, AM/FM stereo, AM/FM stereo w/8-track tape & digital clock, AM/FM stereo w/cassette tape & digital clock	
Rear seat speaker	Dual rear speakers	
Power antenna	Not available	
Clock	Digital clock only available with radio	
Air conditioner (specify type)	Optional	
Speed warning device	Not available	
Speed control device	Optional, includes resume speed feature	
Ignition lock lamp	Not available	
Dome lamp	Standard	
Glove compartment lamp	Standard	
Luggage compartment lamp	Optional	
Underhood lamp	Optional	
Courtesy lamp	Optional	
Map lamp	Not available	
Cornering lamp	Not available	
Rear window defroster electrically heated	Optional	
Rear window delogger	Not available	
Theft protection—type	Lock mounted on steering column; locks steering wheel, transmission shift lever and ignition	



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

Car Line CELEBRITY  
 Model Year 1988 Issued 8-87 Revised (\*) 1-88

Optional Equipment Differential Mass (weight)\*

Equipment	Weight (kg) weight (lb)			Remarks
	Front	Rear	Total	
Speakers dual rear	0	2.0	2.0	
	(0)	-(+4.4)	-(+4.4)	
Heavy duty cooling	1.5	-0.2	1.3	
	(+3.5)	-(+0.4)	(+3.1)	
Bumper guards front & rear	0.8	0.8	1.6	
	(+1.8)	-(+1.8)	(+7.5)	
Rally wheels	3.0	3.5	7.2	
	(+7.9)	(+7.9)	(+15.3)	
2.8 Liter V6 (173 CID)	29.0	-1.5	27.4	
RPO LE2	(+63.9)	-(+3.5)	(+60.4)	

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

**MVMA specifications form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

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

Equipment	Optional Equipment Differential Mass (weight)*			Remarks
	MASS, kg. (weight, lb.)			
	Front	Rear	Total	
Console - front compartment floor	2.8 (+6.2)	2.5 (+5.5)	5.3 (+11.7)	
Twin remote sport mirrors	0.8 (+1.8)	0.6 (+1.3)	1.4 (+3.1)	
Sport suspension front & rear	1.2 (+2.7)	0.4 (+0.9)	1.6 (+3.5)	
Automatic speed control	2.4 (+5.3)	0 (0)	2.4 (+5.3)	
70 Amp delcotron generator				
Wheel cover locking package	0.6 (+1.3)	0.4 (+0.9)	1.0 (+2.2)	
Comfortilt steering wheel	0.8 (+1.8)	0.4 (+0.9)	1.2 (+2.7)	
Wire wheel covers 13" diameter	3.4 (+7.5)	3.4 (+7.5)	6.8 (+15.0)	
Sport wheel covers 13" diameter	1.2 (+2.7)	1.2 (+2.7)	2.4 (+5.4)	
Heavy duty battery	6.8 (+15.0)	-1.4 (-3.1)	5.4 (+11.9)	
Gage package	1.0 (+2.2)	0.6 (+1.3)	1.6 (+3.5)	
Radio AM/FM stereo with 8-track tape & digital clock	1.2 (+2.7)	0.4 (+0.9)	1.6 (+3.5)	4-Speaker System
Radio AM/FM stereo with cassette tape & digital clock	1.2 (+2.7)	0.4 (+0.9)	1.6 (+3.5)	4-Speaker System
Radio AM/FM stereo	1.0 (+2.2)	0.6 (+1.3)	1.6 (+3.5)	
Radio AM/FM push-button	0.8 (+1.8)	0.6 (+1.3)	1.4 (+3.1)	

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

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

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

Optional Equipment Differential Mass (weight)*				
Equipment	MASS, kg (weight, lb)			Remarks
	Front	Rear	Total	
Speakers dual rear	0 (0)	2.0 (+4.4)	2.0 (+4.4)	
Heavy duty cooling	1.6 (+3.5)	-0.2 (-0.4)	1.4 (+3.1)	
Bumper guards front & rear	0.8 (+1.8)	0.8 (+1.8)	1.6 (+3.6)	
Rally wheels	3.6 (+7.9)	3.6 (+7.9)	7.2 (+15.8)	
2.8 Liter V6 (173 CID RPO LE2)	29.0 (+63.9)	-1.6 (-3.5)	27.4 (+60.4)	
4.3 Liter V6; 90° F.I. (260 CID Diesel)	109.4 (+241.2)	-6.1 (-13.5)	103.3 (+227.7)	

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

**Passenger Car**  
**METRIC (U.S. Customary)**  
**Car and Body Dimensions** See Key Sheets for definitions

Model Year 1982 Issued 8-81 Revised (\*) 10-81

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.  
 SAE Ref. No. refers to the definition published in SAE Recommended Practice.  
 J1100a "Motor Vehicle Dimensions," unless otherwise specified.

**Body Type**

SAE Ref. No.	2-DOOR NOTCHBACK COUPE 1AW27	4-DOOR NOTCHBACK SEDAN 1AW19
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**Width**

Tread — Front	W101	1492 (58.7)	
Tread — Rear	W102	1447 (57.0)	
Vehicle width	W103	1760 (69.3)	1747 (68.8)
Body width at Sp RP — front	W117	1722 (67.8)	
Vehicle width — front doors open	W120	3800 (149.6)	3310 (130.3)
Vehicle width — rear doors open	W121	--	3174 (125.0)

**Length**

Wheelbase	L 101	2664 (104.9)	
Vehicle length	L 103	4783 (188.3)	
Overhang — front	L 104	1034 (40.7)	
Overhang — rear	L 105	1085 (42.7)	
Upper structure length	L 123	2400 (94.5)	
Rear wheel C/L "X" coordinate	L 127	2459 (96.8)	
Cowl point "X" coordinate	L 125	206 (8.1)	207 (8.2)

**Height \*\***

Passenger Distribution (frt./rear)	PD1,2,3		**
Trunk/Cargo load			**
Vehicle height	H 101	1365 (53.7)	
Cowl point to ground	H 114	927 (36.5)	
Deck point to ground	H 138		
Rocker panel front to ground	H 112	210 (8.3)	
Bottom of door closed - front to grd.	H 133	281 (11.1)	
Rocker panel rear to ground	H 111	210 (8.3)	
Bottom of door closed - rear to grd.	H 135	--	281 (11.1)

**Ground Clearance \*\***

Front bumper to ground	H 102	353 (13.9)	
Rear bumper to ground	H 104	343 (13.5)	
Bumper to ground — front at curb mass (wt.)	H 103	372 (14.7)	
Bumper to ground — rear at curb mass (wt.)	H 105	369 (14.5)	
Angle of approach @ GVW	H 106	13.7°	
Angle of departure @ GVW	H 107	18.9°	
Ramp breakover angle @ GVW	H 147	17.3°	
Rear axle differential to ground	H 153	158 (6.2)	
Min. running ground clearance	H 156	134 (5.3)	
Location of min. run. grd. clear.		Front suspension	

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

\*\* All vehicle height and ground clearances are made using EPA loaded vehicle weight, loading conditions.

EPA LOADED VEHICLE WEIGHT is the base vehicle weight plus all coolant and fluids necessary for operation plus 100% of the fuel capacity, plus the weight of all options and accessories which weigh three pounds or more and which are sold on at least 33% of the car line, plus two occupants.

# MVMA Specifications Form

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

Car and Body Dimensions See Key Sheets for definitions

Car Line CELEBRITY  
 Model Year 1982 Issued 8-81 Revised (\*) 10-1981

### Body Type

SAE Ref. No.	2-DOOR NOTCHBACK COUPE 1AW27	4-DOOR NOTCHBACK SEDAN 1AW19
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### Front Compartment

Sg RP front, "X" coordinate	L31	1138 (44.8)	
Effective head room	H61	980 (38.6)	
Effective T Point head room	H75	985 (38.8)	983 (38.7)
Max. eff. leg room — accelerator	L34	1070 (42.1)	
Sg RP — front to heel	H30	260 (10.2)	258 (10.2)
Design H-point front travel	L17	192 (7.6)	
Shoulder room	W3	1429 (56.3)	1427 (56.2)
Hip room	W5	1329 (52.3)	1330 (52.4)
** Upper body opening to ground	H50		
Steering Wheel Angle	H18	22.0°	
Back Angle	L40	26.0°	

### Rear Compartment

Sg RP Point couple distance	L50	809 (31.9)	
Effective head room	H63	963 (37.9)	965 (38.0)
Effective T Point head room	H76	962 (37.9)	960 (37.8)
Min. effective leg room	L51	916 (36.1)	925 (36.4)
Sg RP — second to heel	H31	260 (10.2)	261 (10.3)
Knee clearance	L48	34 (1.3)	44 (1.7)
Compartment room	L3	694 (27.3)	709 (27.9)
Shoulder room	W4	1451 (57.1)	1427 (56.2)
Hip room	W6	1362 (53.6)	1338 (52.7)
** Upper body opening to ground	H51		

### Luggage Compartment

Usable luggage capacity — L(cu. ft.)	V1	460 (16.2)	
** Lifter height	H185	799 (31.5)	

All linear dimensions are in millimeters (inches).

\*\* EPA LOADED VEHICLE WEIGHT, LOADING CONDITIONS

ALL INTERIOR DIMENSIONS ARE MEASURED WITH THE SEATING REFERENCE POINT (SgRP) \_\_\_\_\_ mm (1 SEAT ADJUSTER NOTCH) FORWARD OF REARMOSEST SEAT POSITION.

# MVMA Specifications Form

## Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

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

Body Type	SAE Ref. No.	2-DOOR NOTCHBACK COUPE 1AW27	4-DOOR NOTCHBACK SEDAN 1AW19
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### Station Wagon - Third Seat

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

### Station Wagon - Cargo Space

Cargo length - open - front	L200	
Cargo length - open - second	L201	
Cargo length - closed - front	L202	
Cargo length - closed - second	L203	
Cargo length at belt - front	L204	NOT
Cargo length at belt - second	L205	APPLICABLE
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	

### Hatchback - Cargo Space

Front seat back to load floor height	H197	
Cargo length at front seat back height	L208	NOT
Cargo length at floor - front	L209	APPLICABLE
Cargo volume index - m <sup>3</sup> (ft. <sup>3</sup> )	V3	
Hidden cargo volume - m <sup>3</sup> (ft. <sup>3</sup> )	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).



**Passenger Car**  
**METRIC (U.S. Customary)**  
**Car and Body Dimensions** See Key Sheets for definitions

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

Body Type	
2-DOOR NOTCHBACK COUPE 1AW27	4-DOOR NOTCHBACK SEDAN 1AW19

**Vehicle Fiducial Marks**

Fiducial Mark Number *	Define Coordinate Location
Front	X - Fiducial mark to vertical base grid line - front measured horizontally, from the base grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt.
	Y - Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt.
	Z - Fiducial mark to horizontal base grid line - front, measured vertically from base grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.
Rear	X - Fiducial mark to vertical base grid line - front, measured horizontally from base grid line to rear fiducial mark located on rear underbody crossbar.
	Y - Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rear underbody crossbar.
	Z - Fiducial mark to horizontal base grid line - rear, measured vertically from base grid line to the rear fiducial mark located on rear underbody crossbar.
Front	W21 564 ( 22.2)
	L54 2771 (109.1)
	H81 258 ( 10.2)
	H161 508 ( 20.0)
	** H163 487 ( 19.2)
Rear	W22 489 ( 19.3)
	L55 4980 (196.1)
	H82 387 ( 15.2)
	H162 634 ( 25.0)
	** H164 610 ( 24.0)

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

\*\* EPA LOADED VEHICLE WEIGHT, LOADING CONDITIONS  
 MVMA-C-82

**Passenger Car**

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

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

Body Type	SAE Ref. No.	2-DOOR NOTCHBACK COUPE 1AW27	4-DOOR NOTCHBACK SEDAN 1AW19
	No.		

**Glass**

Backlight slope angle	H121	35.0	34.5
Windshield slope angle	H122	58.0	57.0
Tumble-Home	W122	21.5	
Windshield glass exposed surface area - cm <sup>2</sup> (in <sup>2</sup> )	S1	8525 (1321.4)	
Side glass exposed surface area - cm <sup>2</sup> (in <sup>2</sup> )	S2	11412 (1768.9)	11251 (1743.9)
Backlight glass exposed surface area - cm <sup>2</sup> (in <sup>2</sup> )	S3	4217 (653.6)	
Total glass exposed surface area - cm <sup>2</sup> (in <sup>2</sup> )	S4	24154 (3743.9)	23993 (3718.9)
Windshield glass type		Curved - laminated plate	
Side glass type		Curved - tempered plate	
Backlight glass type		Curved - tempered plate	

**Lamps and Headlamp Shape\***

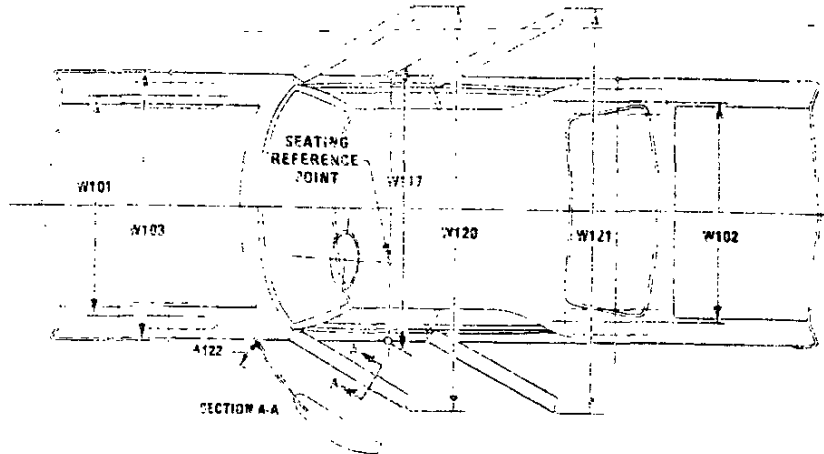
Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	645.1 (25.4)
		Lowest	645.1 (25.4)
	Taillamp (H128)	Highest	711.5 (28.0)
		Lowest	
	Sidemarker	Front	398.6 (15.7)
		Rear	416.6 (16.4)
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside**	
	Taillamp	Inside	
		Outside	
	Directional	Front	
		Rear	
Headlamp shape		Rectangular	

\* Measurement of bulb mass (weight) for lamps and headlamps are used enter here

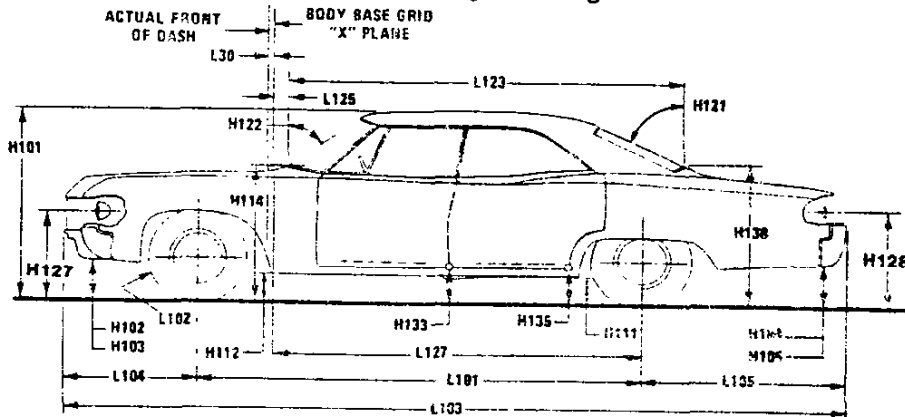
**MVMA Specifications Form**  
**Passenger Car**  
 METRIC (U.S. Customary)

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

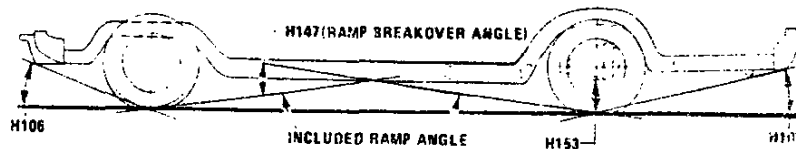
**Exterior Width**



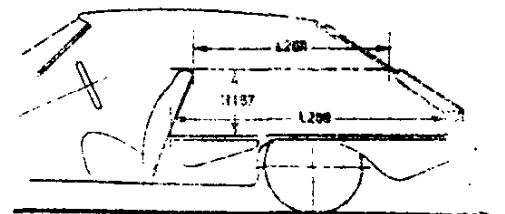
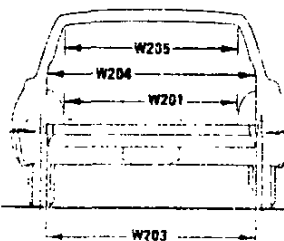
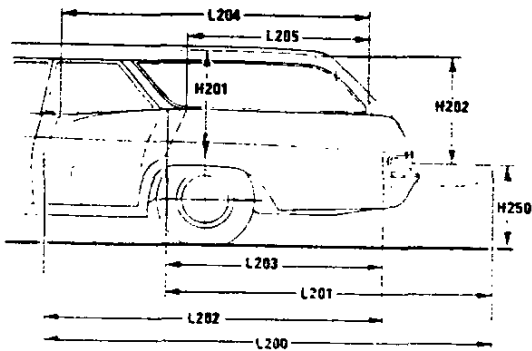
**Exterior Length & Height**



**Exterior Ground Clearance**



**Cargo Space**



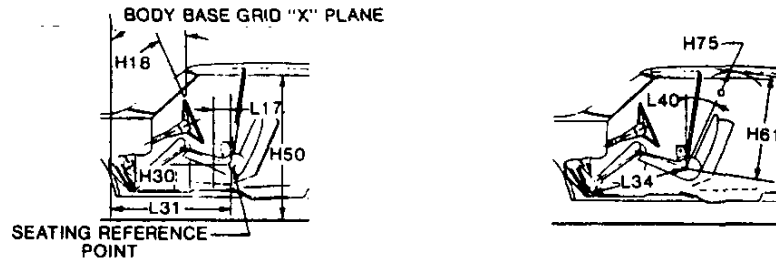
**Hatchback**

**Station Wagon**

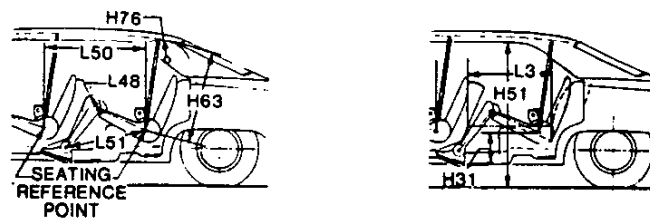
**MVMA Specifications Form**  
**Passenger Car**  
**METRIC (U.S. Customary)**

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

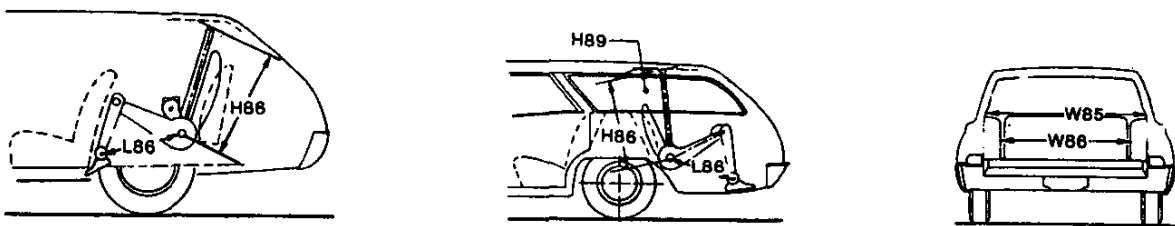
**Front Compartment**



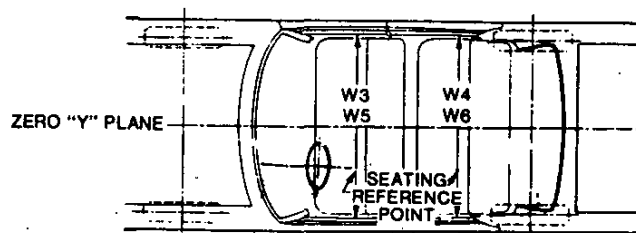
**Rear Compartment**



**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 18.0 in. (457 mm) long, drawn from the lower DLO to the intersecting point on the windshield.
- H127 HEADLAMP TO GROUND—CURB WEIGHT. The dimensional measured vertically from the centerline of the lowest headlamp lens to ground.
- H128 TAILLAMP TO GROUND—CURB WEIGHT. The dimension measured vertically from the centerline of the upper bulb to ground.

##### Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.

# MVMA Specifications Form

## Passenger Car

### METRIC (U.S. Customary)

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

##### Dimensions Definitions

- H103 FRONT BUMPER TO GROUND—CURB WEIGHT. Measured in the same manner as H104.
- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND—CURB WEIGHT. Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius 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 4.0 in. (102 mm).
- H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 30 in. (762 mm).
- L34 MAXIMUM EFFECTIVE LEG ROOM—ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP—front plus 10.0 in. (254 mm) measured with right foot on the 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 10.0 in. (254 mm) above the SgRP—front.
- W5 HIP ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within 1.0 in. (25 mm) below and 3.0 (76 mm) above the SgRP—front and 3.0 (76 mm) fore and aft of the SgRP—front.
- H150 UPPER BODY OPENING TO GROUND—FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP—front "X" plane.

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

##### Rear Compartment Dimensions

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

##### Luggage Compartment Dimensions

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

##### Station Wagon — Third Seat Dimensions

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

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

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

**Station Wagon – Cargo Space Dimensions**

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

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

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

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3(\text{cubic meter})$$
- V4 HIDDEN CARGO VOLUME. As specified by the manufacturer.

**Hatchback – Cargo Space Dimensions**

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

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

$$\frac{L208 + L209}{2} \times W4 \times H197 = \text{ft.}^3$$
  

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

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

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