

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car
1986

Manufacturer Mazda Motor Corporation	Car Line Mazda 323	
Mailing Address 3-1, Shinchu, Fuchu-cho Aki-gun, Hiroshima, Japan	Issued Dec. / 85	Revised

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

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

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Motor Vehicle Manufacturers Association
of the United States, Inc.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Table of Contents

1	Car Models
2	Power Teams
3-6	Engine
4	Lubrication System
4	Diesel Information
5	Cooling System
6	Fuel System
7	Vehicle Emission Control
7	Exhaust System
8-10	Transmission, Axles and Shafts
11	Suspension-Front and Rear
12-13	Brakes
13	Tires and Wheels
14-15	Steering
15-16	Electrical
17	Body - Miscellaneous Information
18	Restraint System
18	Frame
18	Glass
19	Convenience Equipment
20-22	Car and Body Dimensions
23	Vehicle Fiducial Marks
24	Lamps and Headlamps
25	Vehicle Mass (Weight)
26	Optional Equipment Differential Mass (Weight)
27-33	Car and Body Dimensions Definitions - Key Sheets
34	Index

NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec. /85 Revised (•) _____

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)
Mazda 323	3 Door Hatchback	JM1BF232	2 / 2	80 lb.
	5 Door Hatchback	JM1BF242	2 / 2	80 lb.
	4 Door Sedan	JM1BF222	2 / 2	80 lb.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323

Model Year 1986

Issued _____

Revised (•) _____

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	AXLE RATIO (std. first)
	Displ. Liters (in³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				kW (bhp)	Torque N·m (lb. ft.)			
Mazda 323	1.597 (97.4)	FI	9.3	(82) @ 5000 rpm	(92) @ 2500 rpm	S	Manual 4	4.105
							Manual 5	4.105
							Automatic	3.631

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec./85 Revised (e) _____

Engine Description/Carb.
Engine Code

1.597 Liters

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Type: <u>Inline</u> Location: <u>Front</u> Engine installation position: <u>Transverse</u>
Manufacturer	<u>Mazda</u>
No. of cylinders	<u>4</u>
Bore	<u>78.0 mm</u>
Stroke	<u>83.6 mm</u>
Bore spacing (C/L to C/L)	<u>86.0 mm</u>
Cylinder block material & mass kg (lbs.)	<u>Cast Iron</u>
Cylinder block deck height	<u>206.5 mm</u>
Deck clearance (minimum) (above or below block)	<u>-</u>
Cylinder head material & mass kg (lbs.)	<u>Cast Aluminum Alloy</u>
Cylinder head volume (cm ³)	<u>36.4</u>
Head gasket thickness (compressed)	<u>1.25 mm</u>
Minimum combustion chamber total volume (cm ³)	<u>48.15</u>
Cyl. no. system (front to rear)*	<u>L. Bank</u> <u>R. Bank</u>
Firing order	<u>1 - 3 - 4 - 2</u>
Intake manifold material & mass (kg (weight, lbs.))	
Exhaust manifold material & mass (kg (weight, lbs.))	
Recommended fuel (leaded, unleaded, diesel)	<u>Unleaded</u>
Fuel antiknock index (R + M) <u>2</u>	<u>87</u>
Total dressed engine mass (wt) dry**	<u>110 (49-states)</u>

Engine - Pistons

Material & mass, g (weight, oz.) - piston only Cast Aluminum Alloy ; 268 g

Engine - Camshaft

Location On cylinder head

Material & mass kg (weight, lbs.) Cast Iron ; 2395 g

Drive type Chain / belt
Width / pitch Belt
22 x 8.0 mm

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

** Dressed engine mass (weight) includes the following:

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec. /85 Revised (•) _____

Engine Description/Carb.
Engine Code

1.597 Liters

Engine - Valve System

Hydraulic lifters (std., opt., NA)	NA
Valves	
Number intake / exhaust	-
Head O.D. intake / exhaust	-

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))	Carbon Steel ; 550 g
---------------------------------------	----------------------

Engine - Crankshaft

Material & mass (kg., (weight, lbs.))	Cast Iron ; 10,200 g
End thrust taken by bearing (no.)	2
Number of main bearings	-
Seal (material, one, two piece design, etc.)	
Front	-
Rear	-

Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	294 - 392 at 3000 rpm
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full flow
Capacity of c/case, less filter-refill-L (qt.)	3.40 (Dry engine)

Engine - Diesel Information

NA

Diesel engine manufacturer	-
Glow plug, current drain at 0°F	-
Injector nozzle	
Type	-
Opening pressure (kPa (psi))	-
Pre-chamber design	-
Fuel injection pump	
Manufacturer	-
Type	-
Fuel injection pump drive (belt, chain, gear)	-
Supplementary vacuum source (type)	-
Fuel heater (yes/no)	-
Water separator, description (std., opt.)	-
Turbo manufacturer	-
Oil cooler-type (oil to engine coolant; oil to ambient air)	-
Oil filter	-

Engine - Intake System

NA

Turbo charger - manufacturer	-
Super charger - manufacturer	-
Charge cooler	-

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec./85 Revised (*) _____

Engine Description/Carb.
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1.597 Liters

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard
Coolant fill location (rad., bottle)		Rad
Radiator cap relief valve pressure (kPa (psi))		0.9 ± 0.15
Circulator thermostat	Type (choke, bypass)	By-pass
	Starts to open at °C (°F)	Sub.: 85°±1.5° Main: 88°±1.5°
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	-
	Number of pumps	1
	Drive (V-belt, other)	V-belt
	Bearing type	Ball bearing
	Impeller material	-
	Housing material	-
By-pass recirculation [type (inter., ext.)]		External
Cooling system capacity	With heater-L (qt.)	M/T: 5.0 ; A/T: 6.0
	With air cond.-L (qt.)	M/T: 5.0 ; A/T: 6.0
	Opt. equipment (specify-L (qt.))	-
Water jackets full length of cyl. (yes, no)		Yes
Water all around cylinder (yes, no)		No
Water jackets open at head face (yes, no)		
Radiator core	Std., A/C, HO	Std.
	Type (cross-flow, etc.)	Vertical-flow
	Construction (fin & tube mechanical, braze, etc.)	Tube & fin
	Material, mass [kg (wgt. lbs.)]	Tube: Brass , Fin: Copper
	Width	M/T: 528 mm , A/T: 668 mm
	Height	M/T: 350 mm , A/T: 350 mm
	Thickness	M/T: 16 mm , A/T: 16 mm
Radiator end tank material		2.25/2mm
		Resin
Fan	Std., elec., opt.	Elec.
	Number of blades & type (flex, solid, material)	4
	Diameter & projected width	300 mm
	Ratio (fan to crankshaft rev.)	-
	Fan cutout type	-
	Drive type (direct, remote)	Direct
	RPM at idle (elec.)	-
	Motor rating (wattage) (elec.)	80 W
	Motor switch (type & location) (elec.)	Thermo-switch
	Switch point (temp., pressure) (elec.)	Temp.
	Fan shroud (material)	Iron plate

MVMA Specifications Form

Car Line

Mazda 323

Passenger Car

Model Year

1986

Issued

Dec./85

Revised (•)

METRIC (U.S. Customary)

Engine Description/Carb.
Engine Code

1.597 Liters

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	Mtr.	-	
	Choke (type)	-	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	-
		Automatic	-
Idle A/F mix.		-	
Fuel injection	Point of injection (no.)	4	
	Constant, pulse, flow	Pulse	
	Control (electronic, mech.)	Elec.	
	System pressure [kPa (psi)]	196 - 216	
Intake manifold heat control (exhaust or water thermostatic or fixed)			
Air cleaner type	Standard	Wet type std.	
	Optional	-	
Fuel pump	Type (elec. or mech.)	12 V Elec. - impeller type	
	Location (eng., tank)	Tank	
	Pressure range [kPa (psi)]	441 - 588	

Fuel Tank

Capacity (refill L (gallons))		45	
Location (describe)			
Attachment			
Material & Mass [kg (weight lbs)]			
Filter pipe	Location & material		
	Connection to tank		
Fuel line (material)			
Fuel hose (material)			
Return line (material)			
Vapor line (material)			
Extended range tank	Opt. n.a.	-	
	Capacity [L (gallons)]	-	
	Location & material	-	
	Attachment	-	
Auxiliary tank	Opt. n.a.	-	
	Capacity [L (gallons)]	-	
	Location & material	-	
	Attachment	-	
	Selector switch or valve	-	
Separate fill		-	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec. /85 Revised (•) _____

Engine Description/Carb.
Engine Code

1.597 Liters

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		O ² , S/TWC
	Air Injection	Pump or pulse	-
		Driven by	-
		Air distribution (head, manifold, etc.)	-
		Point of entry	-
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	-
		Exhaust source	-
		Point of exhaust injection (spacer, carburetor, manifold, other)	-
	Catalytic Converter	Type	3 Way, Side flow
		Number of	1 (2-bed)
Location(s)		Under floor	
Volume [L (in ³)]		0.79 x 2	
	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)		Surge tank
	Air inlet (breather cap, other)		Air pipe
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 / Expansion
Resonator no. & type		One / Resonance
Exhaust pipe	Branch o.d., wall thickness	
	Main o.d., wall thickness	45 x 2.0 mm
	Material & Mass [kg (weight lbs)]	Stainless
Intermediate pipe	o.d. & wall thickness	42.7 x 1.6 - 45 x 1.6
	Material & Mass [kg (weight lbs)]	Al coated steel
Tail pipe	o.d. & wall thickness	38.1 x 1.2
	Material & Mass [kg (weight lbs)]	Al coated steel

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec./85 Revised (•) _____

Engine Description/Carb.
Engine Code

1.597 Liters

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	N.A.
Manual 4-speed (std., opt., n.a.) (mfr.)	Std.
Manual 5-speed (std., opt., n.a.) (mfr.)	Std.
Manual overdrive (std., opt., n.a.) (mfr.)	N.A.
Automatic (std., opt., n.a.) (mfr.)	Std.
Automatic overdrive (std., opt., n.a.) (mfr.)	N.A.

Manual Transmission/Transaxle

Number of forward speeds		4-Speed	5-Speed
Transmission ratios	In first	3.416	3.416
	In second	1.842	1.842
	In third	1.290	1.290
	In fourth	0.918	0.918
	In fifth	—	0.731
	In overdrive	—	—
	In reverse	3.214	3.214
Synchronous meshing (specify gears)		All forward gear	
Shift lever location		Floor	
Lubricant	Capacity [L (pt.)]		3.2
	Type recommended		A.P.I. GL-4 or GL-5
	SAE viscosity number	Summer	Above 0°F SAE90 or SAE80W-90
		Winter	Below 0°F ATF M2C33-F
	Extreme cold		

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		DAIKIN MANUFACTURING CO. LTD. / Dry single plate
Assist (yes, no - percent)		
Type pressure plate springs		
Total spring load (N (lb.))		370 lb.
No. of clutch driven discs		1
Clutch facing	Material	Semimold
	Manufacturer	Valqua
	Part number	B609 16 460
	Rivets/plate	16
	Rivet size	
	Outside & inside dia.	190 mm / 132 mm
	Total eff. area (cm ² (in. ²))	147
	Thickness	3.2 mm
	Engagement cushion method	Cushion spring
Release bearing	Type & method of lubrication	S. row ball bearing
Torsional damping	Method: springs, friction material	Coil spring

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec./85 Revised (e)

Engine Description/Carb.
Engine Code

1.597 Liters

Automatic Transmission/Transaxle

Trade name		F3A (3AT)
Type and special features (describe)		Oil pressure control
Selector	Location	Floor change
	Ltr./No. designation	
Gear ratios	R	2.400
	D	1st 2.841
	L ₃	2nd 1.541
	L ₂	3rd 1.000
	L ₁	-
Max. upshift speed - drive range (km/h (mph))		(1-2):49, (2-3):95
Max. kickdown speed - drive range (km/h (mph))		(2-1):39, (3-2):87
Min. overdrive speed (km/h (mph))		
Torque converter	Number of elements	3
	Max. ratio at stall	2.00 : 1
	Type of cooling (air, liquid)	Water
	Nominal diameter	236 mm
Lubricant	Capacity (refill L (pt.))	5.7
	Type Recommended	ATF M2C33F
Oil cooler (std., opt., NA, internal, external, air, liquid)		

Axle or Front Wheel Drive Unit

Type (front, rear)		Front
Description		Helical gear
Limited slip differential (type)		None
Drive pinion offset		-
Drive pinion (type)		-
No. of differential pinions		2
Pinion / differential adjustment (shim, other)		-
Pinion / differential bearing adjustment (shim, other)		-
Driving wheel bearing (type)		-
Lubricant	Capacity (L (pt.))	5.7
	Type recommended	A.T.F. (M2C33F)
	SAE viscosity number	Summer
		Winter
		Extreme cold

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

Axle ratio (or overall top gear ratio)		3.631
No. of teeth	Pinion	19
	Ring gear or gear	69
Ring gear o.d.		180.1 mm
Transaxle	Transfer gear ratio	-
	Final drive ratio	-

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car Line

Mazda 323

Model Year

1986

Issued

Dec./85

Revised (e)

Engine Description/Carb.
Engine Code

1.597 Liters

Propeller Shaft - Rear Wheel Drive

N.A.

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

Outer
diam. x
length* x
wall
thick-
ness

Manual 3-speed trans.

Manual 4-speed trans.

Manual 5-speed trans.

Overdrive

Automatic transmission

Inter-
mediate
bearing

Type (plain, anti-friction)

Lubrication (fitting, prepack)

Slip
yoke

Type

Number of teeth

Spline o.d.

Universal
joints

Make and mfg. no.

Front

Rear

Number used

Type (ball and trunnion, cross)

Rear attach (u-bolt, clamp, etc.)

Bearing

Type (plain,
anti-friction)

Lubrication
(fitting, prepack)

Drive taken through (torque tube,
arms or springs)

Torque taken through (torque tube,
arms or springs)

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323

Model Year 1986

Issued Dec./85

Revised (•) _____

Engine Description/Carb.
Engine Code

1.597 Liters

Axle Shafts – Front Wheel Drive

Number used		2	
Type (straight, solid bar, tubular, etc.)		Left	Solid bar
		Right	Solid bar
Outer diam. x length* x wall thickness	Manual transmission	Left	22 x 381 mm
		Right	22 x 657 mm
	Automatic transmission	Left	22 x 378 mm
		Right	22 x 653 mm
	Optional transmission	Left	-
		Right	-
Slip yoke	Type		-
	Number of teeth		-
	Spline o.d.		-
Universal joints	Make and mtg. no.	Inner	-
		Outer	-
	Number used		-
	Type, size, plunge	Inner	M/T: Double offset joint A/T: Tri-pod joint
		Outer	M/T 7 A/T: Bell joint
	Attach (u-bolt, clamp, etc.)		-
	Bearing	Type (plain, anti-friction)	-
		Lubrication (fitting, grease)	-
Drive taken through (torque tube, arms or springs)		-	
Torque taken through (torque tube, arms or springs)		-	

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec./85 Revised (•) _____

Body Type And/Or
Engine Displacement

1.597 Liters

Suspension – General

Car leveling	Std. opt./n.a.	N.A.
	Type (air, hyd., etc.)	—
	Manual/auto. controlled	—
Provision for brake dip control		Front suspension geometry
Provision for accel. squat control		Rear suspension geometry
Provisions for car jacking		None
Shock absorber (front & rear)	Type	Cylindrical double acting
	Make	TOKIKO or KAYABA
	Piston diameter	20 / 18 mm
	Rod diameter	—

Suspension – Front

Type and description		Independent, strut coil spring
Drive and torque taken through		—
Travel	Full jounce	85 mm
	Full rebound	90 mm
Spring	Type (coil, leaf, other) & material	Coil spring, Chromium alloy steel
	Insulators (type & material)	—
	Size (coil design height & i.d., bar length x dia.)	380.5 x 135.5 x 11.7, 396.5 x 135.4 x 11.8 392.5 x 135.4 x 11.8 374.5 x 135.3 x 12.1, 360 x 135.6 x 12.0
	Spring rate [N/mm (lb./in.)]	1.9 kg/mm
	Rate at wheel [N/mm (lb./in.)]	2.0 kg/mm
Stabilizer	Type (link, linkless, frameless)	Torsion bar
	Material & bar diameter	Carbon steel tube

Suspension – Rear

Type and description		Independent, strut coil spring
Drive and torque taken through		—
Travel	Full jounce	80 mm
	Full rebound	110 mm
Spring	Type (coil, leaf, other) & material	Coil
	Size (length x width, coil design height & i.d., bar length & dia.)	361.5 x 113.3 or 361.5 x 113
	Spring rate [N/mm (lb./in.)]	1.5 kg/mm or 1.37 kg/mm
	Rate at wheel [N/mm (lb./in.)]	1.7 kg/mm
	Insulators (type & material)	Upper rubber cushion
	If leaf	No. of leaves
		Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	Torsion bar
	Material & bar diameter	Carbon steel tube, ϕ 15.9 or ϕ 17.3
Track bar (type)		—

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec./85 Revised (•) _____

Body Type And/Or
Engine Displacement

Disc - Drum

Disc - Disc

Brakes - Service

Description				
Brake type (std., opt., n.a.)	Front (disc or drum)		Disc Std	Disc Std
	Rear (disc or drum)		Drum	Disc
Self-adjusting (std., opt., n.a.)			Std	Std
Special valving	Type (proportion, delay, metering, other)		Proportioning valve	Proportioning valve
Power brake (std., opt., n.a.)			Std	Std
Booster type (remote, integral, vac., hyd., etc.)			Direct vacuum	Direct vacuum
Vacuum source (inline, pump, etc.)				
Vacuum reservoir (volume in. ³)				
Vacuum pump-type (elec. gear driven, belt driven, if other so state)				
Anti-skid device type (std., opt., n.a.) (F/R)			N.A.	N.A.
Effective area (cm ² (in. ²))*			F:160 R:188	F:160 R:108
Gross lining area (cm ² (in. ²))* (F/R)			F:160 R:188	F:160 R:108
Swept area (cm ² (in. ²))* (F/R)			E:1033 R:314	F:1033 R:736
Rotor	Outerworking diameter	F/R	F:238 R:N.A. (mm)	F:238 R:222 (mm)
	Inner working diameter	F/R	F:144 R:N.A.	F:144 R:155
	Thickness	F/R	F:18.0 R:N.A.	F:18.0 R:10.0
	Material & type (vented/solid)	F/R	Cast iron(Ventilated)	Cast iron(F:Venti/R:Solid)
Drum	Diameter & width	F/R	F:N.A. R:200mm	F:N.A. R:N.A.
	Type and material	F/R	Cast iron	Cast iron
Wheel cylinder bore			F:50.8 R:17.46 (mm)	F:50.8 R:30.2 (mm)
Master cylinder	Bore/stroke	F/R	22.22 x 15.00 mm	22.22 x 15.00
Pedal arc ratio			4.62	4.62
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))			-	-
Lining clearance			F&R: Self-adjusting	F&R: Self-adjusting
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Bonded	Bonded
		Rivet size		
		Manufacturer	Japan Brake	Japan Brake
		Lining code*****	CP26	CP26
		Material	Resin molded	Resin molded
		**** Primary or out-board	91.9x42.5x10	91.9x42.5x10
		Size Secondary or in-board	91.9x42.5x10	91.9x42.5x10
		Shoe thickness (no lining)	5.0	5.0
	Rear wheel	Bonded or riveted (rivets/seg.)	Bonded	Bonded
		Manufacturer	Japan Brake	Japan Brake
		Lining Code*****	J87	D70
		Material	Resin molded	Resin molded
		**** Primary or out-board	192x25x5	88x31x8
		Size Secondary or in-board	192x25x5	88x31x8
		Shoe thickness (no lining)	1.6	5.0

*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

METRIC (U.S. Customary)

Car Line Mazda 323

Model Year 1986

Issued Dec./85

Revised (•) _____

Body Type And/Or
Engine Displacement

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Tires And Wheels (Standard)

Tires	Size (load range, ply)		155 SR13
	Type (bias, radial, etc.)		Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	29 psi
		Rear (kPa (psi))	26 psi
	Rev./mile—at 70 km/h (45 mph)		
Wheels	Type & material		WDC / Steel
	Rim (size & flange type)		4 1/2 - J x 13
	Wheel offset		45
	Attachment	Type (bolt or stud)	Nut
		Circle diameter	114.3
		Number & size	M12 x 1.5 / 4
Spare	Tire and wheel (same, if other describe)		T105/70 D14 Tubeless
	Storage position & location (describe)		Trunk room

Tires And Wheels (Optional)

Size (load range, ply)	1: 155-13/6.15 134PR	5: 185/60 R14 82H
Type (bias, radial, etc.)	Bias	Radial
Wheel (type & material)	WDC / Steel	Aluminum alloy
Rim (size, flange type and offset)	4 1/2-J x 13	5 1/2 - JJ x 14
Size (load range, ply)	2: 175/70 SR13	
Type (bias, radial, etc.)	Radial	
Wheel (type & material)	WDC / Steel	
Rim (size, flange type and offset)	5 - J x 13	
Size (load range, ply)	3: 175/70 SR13	
Type (bias, radial, etc.)	Radial	
Wheel (type & material)	Aluminum alloy	
Rim (size, flange type and offset)	5 - J x 13	
Size (load range, ply)	4: 185/60 R14 82H	
Type (bias, radial, etc.)	Radial	
Wheel (type & material)	WDC / Steel	
Rim (size, flange type and offset)	5 1/2 - JJ x 14	
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		Manual
Location of control		Over floor tunnel
Operates on		Rear Wheel
If separate from service brakes	Type (internal or external)	N.A.
	Drum diameter	-
	Lining size (length x width x thickness)	-

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323
Model Year 1986 Issued Dec./85 Revised (e)

Body Type And/Or
Engine Displacement

1.597 Liters

Steering

Manual (std., opt., n.a.)			Std.
Power (std., opt., n.a.)			Opt.
Adjustable steering wheel (bit, swing, other)	Type and description		-
	(Std., opt., n.a.)		Opt.
Wheel diameter (W9) SAE J1100	Manual		380 mm
	Power		380 mm
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.4 m
		Curb to curb (l. & r.)	9.5 m
	Inside rear	Wall to wall (l. & r.)	-
		Curb to curb (l. & r.)	-
Scrub Radius*			-
Manual	Gear	Type	Rack & pinion
		Make	NIPPON SEIKO
		Ratios	∞
	Overall		
No. wheel turns (stop to stop)			3.6 / 4.5
Power	Type (coaxial, linkage, etc.)		
	Make		NIPPON POWER STEERING CO.
	Gear	Type	Rack & pinion
		Ratios	∞
		Overall	
	Pump (drive)		
No. wheel turns (stop to stop)			3.2
Linkage	Type		-
	Location (front or rear of wheels, other)		-
	Tie rods (one or two)		-
Steering axis	Inclination at camber (deg.)		-
	Bearings (type)	Upper	-
		Lower	-
		Thrust	-
Steering spindle & joint type			-
Wheel spindle	Diameter	Inner bearing	-
		Outer bearing	-
	Thread (size)		-
	Bearing (type)		-

*The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323

Model Year 1986

Issued Dec./85

Revised (•) _____

Body Type And/Or
Engine Displacement

1.597 Liters

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	$1^{\circ}35' \pm 45'$
		Camber (deg.)	$0^{\circ}48' \pm 45'$
		Toe-in (outside track-mm (in.))	-1 - 5 mm
	Service reset*	Caster	-
		Camber	-
		Toe-in	-
	Periodic M.V. inspection	Caster	-
		Camber	-
		Toe-in	-
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-
		Toe-in (outside track-mm (in.))	-
	Service reset*	Camber	-
		Toe-in	-
	Periodic M.V. inspection	Camber	-
		Toe-in	-

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

Electrical - Instruments and Equipment

Speedometer	Type	Magnetic torque drive
	Trip odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		
Charge indicator	Type	Lamp
	Warning device	Alternator warning lamp
Temperature indicator	Type	Bi-metal
	Warning device	Water temp. gauge
Oil pressure indicator	Type	Lamp
	Warning device	Warning lamp
Fuel indicator	Type	Bi-metal
	Warning device	Fuel gauge & Lamp
Windshield wiper	Type (standard)	2 speed: Std.
	Type (optional)	2 speed with intermit.: Opt.
	Blade length	
	Swept area (cm ² (in. ²))	
Windshield washer	Type (standard)	Electric pump: Std.
	Type (optional)	N.A.
	Fluid level indicator	Washer fluid low level warning light: Opt.
Horn	Type	Electric
	Number used	2
Other		

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

Car Line Mazda 323
 Model Year 1986 Issued Dec./85 Revised (e) _____

Engine Description/Carb.
 Engine Code

1.597 Liters

Electrical - Supply System

Battery	Make	-
	Model, std., (opt.)	55D23L , 50D20L , 34B19L (NS40ZAL)
	Voltage	12 V
	Amps at 0°F cold crank	-
	Minutes-reserve capacity	-
	Amp/hrs. - 20 hr. rate	60Ah , 50Ah , 33Ah
	Location	Left front engine comp.
Generator or alternator	Type and rating	12V-60A
	Ratio (alt. crank/rev.)	1 : 2.40
	Optional (type & rating)	-
Regulator	Type	-

Electrical - Starting System

Start, motor	Current drain at 0°F	-
Motor drive	Engagement type	Pre-engaged drive
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Std.
	Other (specify)	-
Coil	Make	HANSHIN , DIAMOND
	Model	MCC-0500 , F-065
	Current	Engine stopped - A
		Engine idling - A
Spark plug	Make	NGK , NIPPON DENSO , CHAMPION
	Model	BPR5ES11, 6ES11 , W16EXR-V11, W20EXR-V11 , RN11YC4
	Thread (mm)	-
	Tightening torque (N-m (lb. ft))	15-23 N-m
	Gap	1.1 , 1.1 , 1.1
	Number per cylinder	-
Distributor	Make	MLTUBISHI
	Model	-

Electrical - Suppression

Locations & type	High tension cord, Spark plug
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MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda 323

Model Year

1986

Issued

Dec./85

Revised (e)

Body Type

3 door & 5 Door Hatchback, 4 door Sedan

Body

Structure

Bumper system
front - rear

Anti-corrosion treatment

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)

Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	-
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	-
	Internal release control (elec., mech., n.a.)	Mech.
Hatch-back lid	Type (counterbalance, other)	-
	Internal release control (elec., mech., n.a.)	Mech.

Vent window control (crank, friction, pivot, power)

Front
Rear

Seat cushion type
(e.g., 50/40, bucket, bench, wire, foam etc.)

Front
Rear
3rd seat

Spring
Formed urethane/Bench
N.A.

Seat back type
(e.g., 50/40, bucket, bench, wire, foam etc.)

Front
Rear
3rd seat

Spring
Formed urethane/ 50/50, Bench
N.A.

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

Car Line Mazda 323
 Model Year 1986 Issued Dec./85 Revised (•) _____

Body Type

3 door H/B, 5 door H/B & 4 door Sedan

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	type 1 & Type 2 seat belt assembly
	Location	Front: Type 2 seat belt ass'y Rear : Type 1 seat belt ass'y
Passive seat belts	Standard/optional	N.A.
	Power/manual	-
	2 or 3 point	-
	Knee bar/lap belt	-

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)		-
Glass	SAE Ref. No.	
Windshield glass exposed surface area (cm ² (in. ²))	S1	-
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	-
Backlight glass exposed surface area (cm ² (in. ²))	S3	-
Total glass exposed surface area (cm ² (in. ²))	S4	-
Windshield glass (type)		-
Side glass (type)		-
Backlight glass (type)		-

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

Car Line Mazda 323
 Model Year 1986 Issued Dec./85 Revised (e) _____

Body Type

3 door H/B, 5 door H/B & 4 door Sedan

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

Air conditioning (manual, auto, temp control)		Opt. (Manual)
Clock (digital, analog)		Std. (Digital)
Compass / thermometer		N.A.
Console (floor, overhead)		Opt. (Floor)
Defroster, elec. backlight		Opt. (Rear Window Defroster)
Electronic	Diagnostic warning (integrated, individual)	-
	Instrument cluster (list instruments)	-
	Keyless entry	N.A.
	Tripminder (avg. spd., fuel)	-
	Voice alert (list items)	-
	Other	-
Fuel door lock (remote, key, electric)		Std. (Remote)
Lamps	Auto head on / off delay, dimming	Std.
	Cornering	-
	Courtesy (map, reading)	Opt. (Map light)
	Door lock, ignition	Opt. (Cylinder illumination)
	Engine compartment	N.A.
	Fog	-
	Glove compartment	-
	Trunk	Opt.
	Other	-
Mirrors	Day/night (auto, man.)	Opt. (Manual)
	L.H. (remote, power, heated)	Opt. (Remote/Power)
	R. H. (convex, remote, power, heated)	Opt. (Remote/Power)
	Visor vanity (RH / LH, illuminated)	Opt.
Parking brake-auto release (warning light)		-
Power equipment	Door locks / deck lid - specify	Opt.
	Seat (2-4-6 way) heated (driver, pass, other)	Std. (Slide adjust, Mechanical)
	lumbar, hip, thigh support (power, manual)	Std. (Reclining/Mechanical)
	reclining (driver, pass)	Opt. (Lumber, Memory / Mechanical)
	memory (1-2 preset, recline)	-
	Side windows	Opt.
Radio systems	Vent windows	N.A.
	Rear window	N.A.
		N.A.
	Antenna (location, whip, w/shield, power)	A-pillar
	AM, FM, stereo, tape, CB	Std. (AM/FM), Opt. (AM/FM multiplex radio)
Speaker (number, location) Premium sound		-
Roof open air/based (flip-up, sliding, "T")		Opt.
Speed control device		Opt.
Speed warning device (light, buzzer, etc.)		-
Tachometer (rpm)		Opt.
Theft protection-type		Std. (Steering lock)

MVMA Specifications Form

Passenger Car

Car Line Mazda 323

Model Year 1986

Issued Dec./85

Revised (e)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	3 door & 5 door Hatchback	4 door Sedan
Width			
Tread (front)	W101	1390 mm	1390 mm
Tread (rear)	W102	1415 mm	1415 mm
Vehicle width	W103	1645 mm	1645 mm
Body width at Sg RP (front)	W117		
Vehicle width (front doors open)	W120		
Vehicle width (rear doors open)	W121		
Front fender overall width	W106		
Rear fender overall width	W107		
Tumble-home (deg.)	W122		

Length

Wheelbase	L101	2400 mm	2400 mm
Vehicle length	L103	4110 mm	4310 mm
Overhang (front)	L104		
Overhang (rear)	L105		
Upper structure length	L123		
Rear wheel C/L "X" coordinate	L127		
Cowl point "X" coordinate	L125		
Front end length at centerline	L126		
Rear end length at centerline	L129		

Height*

Passenger distribution (front/rear)	PD1.2.3		
Trunk/cargo load			
Vehicle height	H101	1390 mm	1390 mm
Cowl point to ground	H114		
Deck point to ground	H138		
Rocker panel-front to ground	H112		
Bottom of door closed-front to grd.	H133		
Rocker panel-rear to ground	H111		
Bottom of door closed-rear to grd.	H135		
Windshield slope angle	H122		
Becklight slope angle	H121		

Ground Clearance*

Front bumper to ground	H102		
Rear bumper to ground	H104		
Bumper to ground (front at curb mass (wt.))	H103		
Bumper to ground (rear at curb mass (wt.))	H105		
Angle of approach (degrees)	H106		
Angle of departure (degrees)	H107		
Ramp breakover angle (degrees)	H147		
Axle differential to ground (front / rear)	H153		
Min. running ground clearance	H156		
Location of min. run. grd. clear.			

* All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified.
Manufacturer's Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mazda 323
Model Year 1986 Issued Dec./85 Revised (e)

Body Type

SAE
Ref.
No.

3 & 5 Door H/B

4 Door Sedan

Front Compartment

Sg RP front, "X" coordinate	L31		inch (with S/R)
Effective head room	H61	38.4 (37.1)	38.4 (37.1)
Max. eff. leg room (accelerator)	L34	41.5	41.5
SgRP to heel point	H30		
SgRP to heel point	L53		
Back angle	L40		
Hip angle	L42		
Knee angle	L44		
Foot angle	L46		
Design H-point front travel	L17		
Normal driving & riding seat track trvl.	L23		
Shoulder room	W3	52.8	52.8
Hip room	W5	52.8	52.8
Upper body opening to ground	H50		
Steering wheel maximum diameter	W9		
Steering wheel angle	H18		
Accel. heel pt. to steer. whl. cntr	L11		
Accel. heel pt. to steer. whl. cntr	H17		
Steering wheel to C: L of thigh	H13		
Steering wheel torso clearance	L7		
Headlining to roof panel (front)	H37		
Undepressed floor covering thickness	H67		

Rear Compartment

Sg RP Point couple distance	L50	29.6	
Effective head room	H63	37.0 (36.0)	37.4 (36.1)
Min. effective leg room	L51	34.7	34.7
Sg RP (second to heel)	H31		
Knee clearance	L48	0	0
Compartment room	L3		
Shoulder room	W4	52.8	52.8
Hip room	W6	44.4 / 47.3	47.4
Upper body opening to ground	H61		
Back angle	L41		
Hip angle	L43		
Knee angle	L45		
Foot angle	L47		
Headlining to roof panel (second)	H38		
Depressed floor covering thickness	H73		

Luggage Compartment

Useable luggage capacity [L (cu. ft.)]	V1	10.5	14.7 (cu-ft)
Liftover height	H195		

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		
Interior volume index (cu. ft.)		
Trunk/cargo index (cu. ft.)		

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mazda 323

Model Year 1986 Issued Dec./85 Revised (•) _____

Body Type

SAE
Ref.
No.

3 & 5 Door H/B

4 Door Sedan

Station Wagon - Third Seat

N.A.

Sg RP couple distance	L85	
Shoulder room	W85	
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

N.A.

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
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 ³ (ft. ³))	V2	
Hidden cargo volume (m ³ (ft. ³))	V4	
Cargo volume index-rear of 2-seat	V10	

Hatchback - Cargo Space

Cargo length at front seatback height	L208	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	31.9 (inch) N.A.
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	18.6 N.A.
Cargo volume index (m ³ (ft. ³))	V3	
Hidden cargo volume (m ³ (ft. ³))	V4	
Cargo volume index-rear of 2-seat	V11	

Aerodynamics*

Wheel lift to ground, front	-
Wheel lift to ground, rear	-
Frontal area (m ² (ft. ²))	-
Drag coefficient (Cd)	-

* EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line Mazda 323
 Model Year 1986 Issued Dec./85 Revised (e) _____

Body Type

3 & 5 Door Hatchback and 4 Door Sedan

Vehicle Fiducial Marks

Fiducial Mark Number	Define Coordinate Location
Front	
Rear	
Fiducial Mark Number	
Front	W21 L54 H81 H181 H183
Rear	W22 L55 H82 H182 H184

* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.
 All linear dimensions are in millimeters (inches).

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

Car Line Mazda 323
 Model Year 1986 Issued Dec./85 Revised (•) _____

Body Type

3 door & 5 door Hatchback 4 door Sedan

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	635 mm	641 mm
		Lowest	-	-
	Taillamp (SAE - H128)	Highest**	741 mm	702 mm
		Lowest	-	-
	Sidemarket	Front	643 mm	649 mm
		Rear	744 mm	704 mm
Distance from C.L. of car to center of bulb	Headlamp	Inside	-	-
		Outside**	-	-
	Taillamp	Inside	-	-
		Outside**	-	-
	Directional	Front	-	-
		Rear	-	-
			-	-
	Halogen headlamp (std., opt., n.a.)	Lo beam		-
Hi beam		-	-	
Replaceable bulb		-	-	
Shape		-	-	
Headlamp other than above	Lo beam		-	-
	Hi beam		-	-
	Replaceable		-	-
	Shape		-	-
	Type		Type 2B1	

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

MVMA Specifications Form

Passenger Car

Car Line Mazda 323
Model Year 1986 Issued Dec./85 Revised (•) _____

METRIC (U.S. Customary)

[illegible]

* Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.
 ** Shipping mass (weight) definition -

METRIC (U.S. Customary)

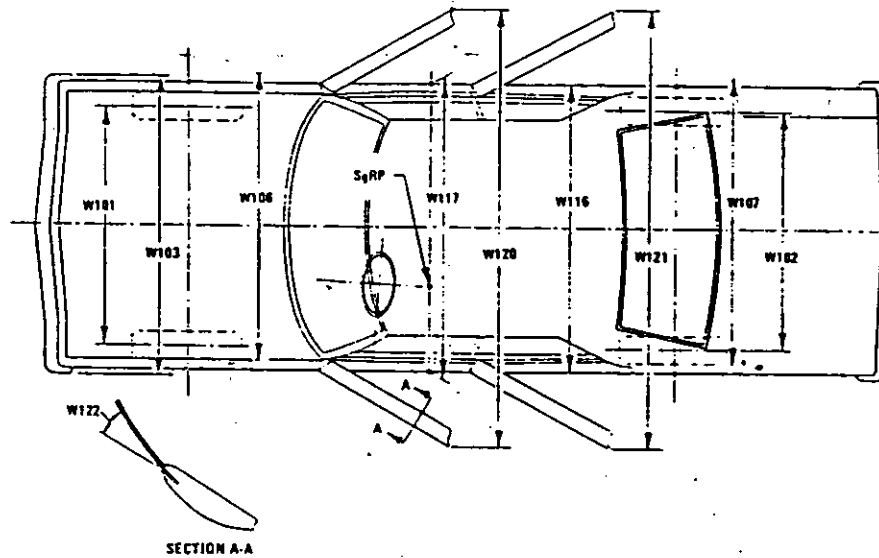
Model Year 1986 Issued Dec., '85 Revised (•) _____

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

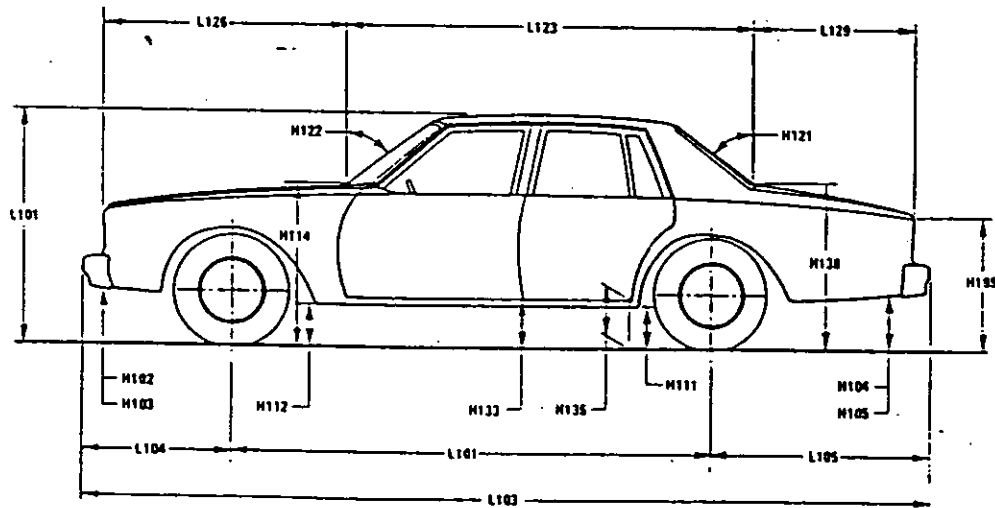
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Exterior Car And Body Dimensions — Key Sheet

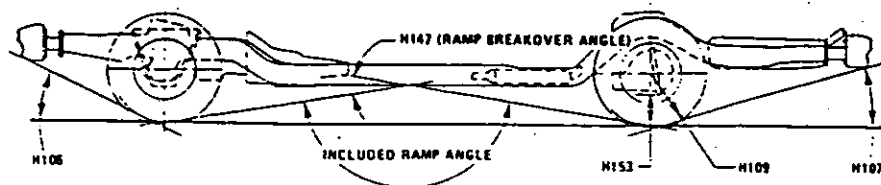
Exterior Width



Exterior Length & Height



Exterior Ground Clearance

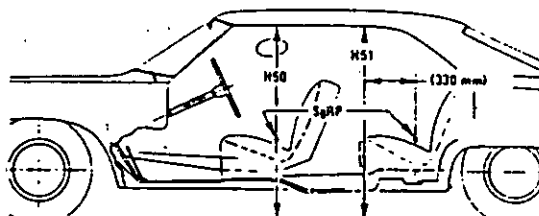
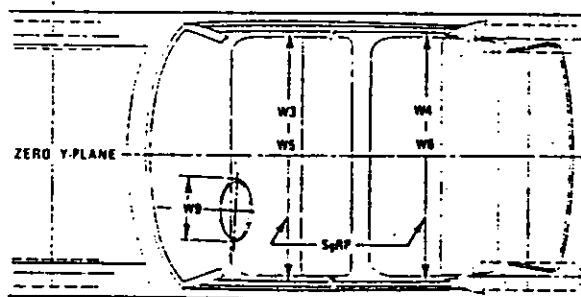
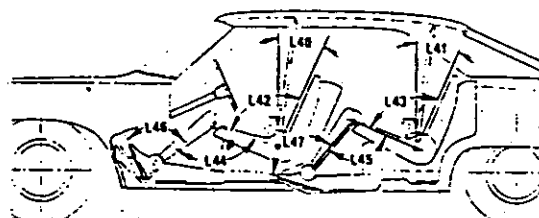
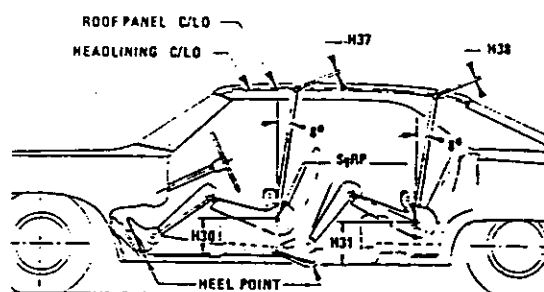
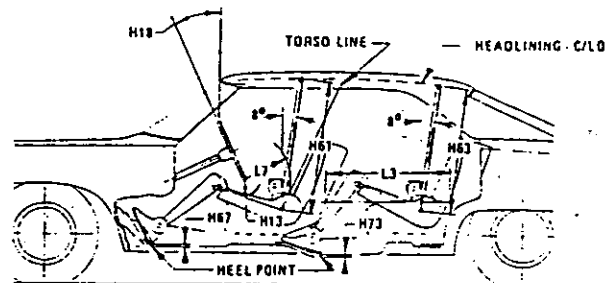
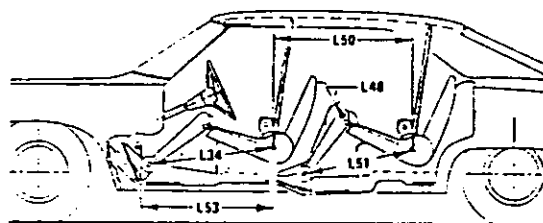


MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

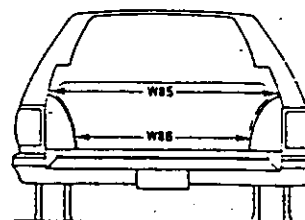
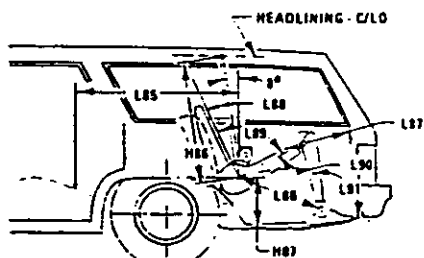
Interior Car And Body Dimensions – Key Sheet



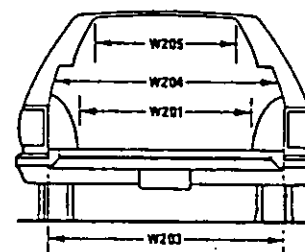
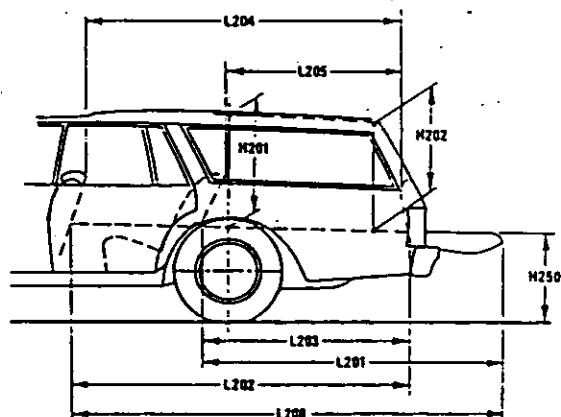
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions—Key Sheet

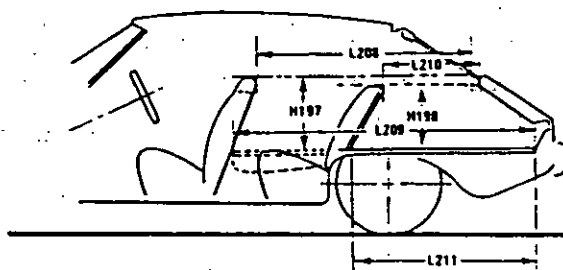
Third Seat



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.
- H105 REAR BUMPER TO GROUND - CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- 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.
- 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.

Glass Areas

- S1 Windshield area.
- S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- S4 Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

- Fiducial Mark - Number 1**
- L54 "X" coordinate.
- W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb weight.
- H163 Height "Z" coordinate to ground.
- Fiducial Mark - Number 2**
- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

- 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.

- 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.
- 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.
- L42 HIP ANGLE-FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE-FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- 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.
- L53 SgRP-FRONT TO HEEL. The dimension measured horizontally from the SgRP-front to the accelerator heel point.
- 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.
- 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.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- 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.
- 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.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point.
- 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.
- 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.
- 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.).
- 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.
- PD1 PASSENGER DISTRIBUTION-FRONT.

Rear Compartment Dimensions

- 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.

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 J825).
- 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.).
- PO3 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 wheelhouseings at floor level. For any vehicle not trimmed, measure to the sheet metal.

MVMA Specifications Form 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:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

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:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Index

Subject	Page No.
Aerodynamics	22
Alternator	16
Automatic Transmission/Transaxle	8, 9
Axis, Steering	14
Axle, Drive, Front, Rear	2, 9, 10
Axle Shafts	10
Battery	16
Body and Miscellaneous Information	17
Brakes—Parking, Service	12, 13
Camber	15
Camshaft	3
Capacities	
Cooling System	5
Fuel Tank	6
Lubricants	
Engine Crankcase	4
Transmission/Transaxle	8, 9
Rear Axle	10
Car Models	1
Car and Body Dimensions	
Width	20
Length	20
Height	20
Ground Clearance	20
Front Compartment	21
Rear Compartment	21
Luggage Compartment	21
Station Wagon — Third Seat	22
Station Wagon — Cargo Space	22
Hatchback — Cargo Space	22
Carburetor	2, 6
Caster	15
Choke, Automatic	6
Clutch — Pedal Operated	8
Coil, Ignition	16
Connecting Rods	4
Convenience Equipment	19
Cooling System	5
Crankshaft	4
Cylinders and Cylinder Head	3
Diesel Information	4
Dimension Definitions	
Key Sheet — Exterior	27, 30, 31
Key Sheet — Interior	28, 29, 31, 32, 33
Electrical System	15, 16
Emission Controls	7
Engine—General	
Bore, Stroke, Type	3
Compression Ratio	2
Displacement	2, 3
Firing Order, Cylinder Numbering	3
General Information, Power & Torque	2
Intake System	4
Power Teams	2
Exhaust System	7
Equipment Availability, Convenience	19
Fan, Cooling	5
Fiducial Marks	23
Filters — Engine Oil, Fuel System	4
Frame	17
Front Suspension	11
Front Wheel Drive Unit	10
Fuel System	6
Fuel Injection	6
Fuel Tank	6
Generator and Regulator	16
Glass	18
Headroom — Body	21, 22
Heights — Car and Body	20
Horns	15
Horsepower — Brake	2
Ignition System	16
Inflation — Tires	13

Subject	Page No.
Interior Volumes	21
Instruments	15
Lamps and Headlamp Shape	24
Legroom	21, 22
Lengths — Car and Body	20
Leveling, Suspension	11
Lifters, Valve	4
Linings — Clutch, Brake	8, 12
Lubrication — Engine Transmission/Transaxle	4, 8, 9
Luggage Compartment	21
Mass	25, 26
Models	1
Motor Starting	16
Muffler	7
Passenger Capacity	1
Passenger Mass Distribution	25
Pistons	3
Power Brakes	12
Power, Engine	2
Power Steering	14
Power Teams	2
Propeller Shaft, Universal Joints	10
Pumps — Fuel	6
Water	5
Radiator — Cap, Hoses, Core	5
Ratios — Axle, Transaxle	2, 9
Compression	2
Steering	14
Transmission/Transaxle	2, 8, 9
Rear Axle	2, 9, 10
Regulator — Generator	16
Restraint System	18
Rims	13
Rods — Connecting	4
Scrub Radius	14
Seats	17
Shock Absorbers, Front & Rear	11
Spark Plugs	16
Speedometer	15
Springs — Front & Rear Suspension	11
Stabilizer (Sway Bar) — Front & Rear	11
Starting System	16
Steering	14
Suppression — Ignition, Radio	16
Suspension — Front & Rear	11
Tail Pipe	7
Theft Protection	19
Thermostat, Cooling	5
Tires	13
Toe-In	15
Torque Converter	9
Torque — Engine	2, 8, 9
Transaxle	9
Transmission — Types	2, 8, 9
Transmission — Automatic	2, 8, 9
Transmission — Manual	2, 8, 9
Transmission — Ratios	2, 9
Tread	20
Trunk Cargo Load	1
Trunk Luggage Capacity	21
Turning Diameter	14
Unitized Construction	17
Universal Joints, Propeller Shaft	10
Valve System	4
Voltage Regulator	16
Water Pump	5
Weights	25, 26
Wheel Alignment	15
Wheelbase	20
Wheels & Tires	13
Wheel Spindle	14
Widths — Car and Body	20
Windshield	18
Windshield Wiper and Washer	15