

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1991

Manufacturer Mazda Motor Corporation	Vehicle Line Mazda 323	
Mailing Address 3-1, Shinchu, Fuchu-cho Akigun, Hiroshima, Japan	Issued Oct. / '90	Revised

Direct questions concerning these specifications to the manufacturer listed above.

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



Motor Vehicle Manufacturers Association
of the United States, Inc.

Forms Provided by Technical Affairs Division

MVMA Specifications

METRIC (U.S. Customary)

Table of Contents

	1	Vehicle Models/Origin	Ø Indicates Format Change From Previous Year
Ø	2	Power Teams	
	1	Engine	
	4	Lubrication System	
	4	Diesel Information	
	5	Cooling System	
	6	Fuel System	
	7	Vehicle Emission Control	
	7	Exhaust System	
Ø	8-10	Transmission, Axles and Shafts	
	11	Suspension	
	12-13	Brakes	
	13	Tires and Wheels	
	14-15	Steering	
	15-16	Electrical	
	17	Body – Miscellaneous Information	
	18	Restraint System	
	18	Glass	
	18	Headlamps	
	18	Frame	
	19-20	Convenience Equipment	
Ø	21-23	Vehicle Dimensions	
	24	Vehicle Fiducial Marks	
Ⓛ	25	Vehicle Mass (Weight)	
	26	Optional Equipment Differential Mass (Weight)	
	27-33	Vehicle Dimensions Definitions - Key Sheets	
Ø	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 compilation and are subject to change without notice or incurring obligation by the manufacturer.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda 323
 Model Year 91 Issued Oct. / 90 Revised (-) _____

Vehicle Origin

Design & development (company)	Mazda Motor Corporation
Where built (country)	Japan
Authorized U.S. sales marketing representative	Mazda Motor of America, Inc.

Vehicle Models

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)
<u>Mazda 323 (FWD)</u>				
3-door Hatchback			2/3	100 lb.
4-door Sedan			2/3	100 lb.
<u>Mazda 323 (4WD)</u>				
4-door Sedan			2/3	100 lb.

* FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

MVMA Specifications

Mazda 323

19-

Issued

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Revised (-)

METRIC (U.S. Customary)

Power Teams

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

		A	B	C	D	E	F	G		
ENGINE	Engine Code	B6E		BPE		PROTEGE LX BPD		BPE		
	Displacement Liters (in³)	1.597 (97.5)		1.839 (112.5)		1.839 (112.5)		1.839 (112.5)		
	Induction system (FI, Carb, etc.)	EFI		EFI		EFI		EFI		
	Compression ratio	9.3		8.9		9.0		8.9		
	SAE Net at RPM	Power kW (bhp)	82HP/5000RPM		103HP/5500RPM		125HP/6500RPM		103HP/5500RPM	
		Torque N • m (lb. ft.)	92 lb-ft/2500RPM		111 lb-ft/4000RPM		114 lb-ft/4500RPM		111 lb-ft/4000RPM	
Exhaust single, dual		Single		Single		Single		Single		
TRANS	Transmission/ Transaxle	5MT	4AT	5MT	4AT	5MT	4AT	5MT	4AT	
	Axle Ratio (std. first)	3.850	3.736	3.619	3.476	4.105	3.736	4.388	3.842	

2WD

2WD

4WD

Series Availability

Power Teams (A - B - C - D)

Model	Code	Standard	Optional
323 3-door Hatchback		A	B
323 4-door Sedan PROTEGE		C	D
		E	F
		G	

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda 323
Model Year 91 Issued Oct./'90 Revised (-)

Engine Description
Engine Code

B6E	BPE	BPD
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ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	SOHC-8V In-line, 4-cyl.	SOHC-16V In-line, 4-cyl.	DOHC-16V In-line, 4-cyl.
Manufacturer	Mazda	←	←
No. of cylinders	4	4	4
Bore	78 mm	83 mm	←
Stroke	83.6 mm	85 mm	←
Bore spacing (C/L to C/L)	86 mm	91 mm	←
Cylinder block material & mass kg (lbs.) (machined)	Cast iron	←	←
Cylinder block deck height	206.5 mm	←	←
Cylinder block length	373.5 mm	393.5 mm	←
Deck clearance (minimum) (above or below block)	—	—	—
Cylinder head material & mass kg (lbs.)	Cast aluminum alloy	←	←
per head volume (cm ³)	36.9	46.58	50.8
Cylinder liner material	—	—	—
Head gasket thickness (compressed)	1.25 mm	0.75 mm	←
Minimum combustion chamber total volume (cm ³)	47.45	56.9	57.0
Cyl. no. system (front to rear)*	L. Bank	—	—
	R. Bank	—	—
Firing order	1-3-4-2	←	←
Intake manifold material & mass [kg (lbs.)]**	Cast aluminum alloy	←	←
Exhaust manifold material & mass [kg (lbs.)]**	Cast iron	←	←
Fuel required unleaded, diesel, etc.	Unleaded	←	←
Fuel antiknock index (R + M) + 2	—	—	—
Engine mounts	Quantity	—	—
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	—	—
	Added isolation (sub-frame, crossmember, etc.)	—	—
total dressed engine mass (w) dry***	—	—	—

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Cast aluminum alloy 268 g	287 g	291 g
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Engine - Camshaft

Location	Over head	←	←
Material & mass kg (weight, lbs.)	Cast iron	←	←
Drive type	Chain / belt	←	←
	Width / pitch	22.0/8.007	←

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

** Finished state.

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

MVMA Specifications

Vehicle Line Mazda 323
Model Year '91 Issued Oct. / '90 Revised (-)

METRIC (U.S. Customary)

Engine Description
Engine Code

B6E	BPE	BPD
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Engine - Valve System

Hydraulic lifters (std., opt., NA)	Std.	←	←
Valves	Number intake / exhaust	1/1	2/2
	Head O.D. intake / exhaust	ø38/ø32	ø30/ø25
			ø33/ø28

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	Carbon steel	←	←
Length (axes & to E) mm	132-9 mm	←	←

Engine - Crankshaft

Material & mass (kg., (weight, lbs.))*	Nodular graphite cast iron	Carbon steel
End thrust taken by bearing (no.)	2	←
Length & 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 kPa (3000rpm)	←	←
Type oil intake (floating, stationary)	Stationary	←	←
Oil filter system (full flow, part, other)	full flow	←	←
Capacity of oil case, less filter-refill-L (qt.)	3.0 L	3.6 L	←

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.)	—
Oil cooler-type (oil to engine coolant; oil to ambient air)	—
Oil filter	—

Engine - Intake System

	NA
Turbo charger - manufacturer	—
Super charger - manufacturer	—
Intercooler	—

* Finished State

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda 323
Model Year 91 Issued Oct./90 Revised (-)

Engine Description
Engine Code

B6E	BPE	BPD
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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		std.	←	←
Coolant fill location (rad., bottle)		Rad.	←	←
Radiator cap relief valve pressure (kPa (psi))		74-103 kpa	←	←
Circulation thermostat	Type (choke, bypass)	BY PASS	←	←
	Starts to open at °C (°F)	Sub 85°C, MAIN 88°C	←	←
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	STEEL	←	←
	Housing material	ALUMINUM	←	←
By-pass recirculation (type (inter., ext.))		EXH	←	←
Cooling system	With heater - L(qt.)	MT:5.0 AT:6.0	←	←
	With air conditioner - L(qt.)	—	←	←
	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)		NO	←	←
Radiator core	Std., A/C, HD	std.	←	←
	Type (cross-flow, etc.)	Down-flow	←	←
	Construction (fin & tube mechanical, braze, etc.)	Corrugated fin	←	←
	Material, mass (kg (wgt., lbs.))	—	←	←
	Width	MT:568 AT:647	MT-AT:647	←
	Height	MT:400 AT:390	MT-AT:390	←
	Thickness	MT:16 AT:25	←	←
	Fins per inch	MT:20.3 AT:19.5	MT-AT:19.5	←
Radiator end tank material		—	←	←
Fan	Std., elec., opt.	elec.	←	←
	Number of blades & type (flex, solid, material)	4	←	←
	Diameter & projected width	320 mm	←	←
	Ratio (fan to crankshaft rev.)	—	←	←
	Fan cutout type	—	←	←
	Drive type (direct, remote)	remote	←	←
	RPM at idle (elec.)	—	←	←
	Motor rating (wattage) (elec.)	80 W	MT 80W AT 160W	←
	Motor switch (type & location) (elec.)	Thermo switch	←	←
	Switch point (temp., pressure) (elec.)	97 °C	MT 97°C, AT Low 97°C, High 105°C	←
	Fan shroud (material)	PP-R	←	←

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda 323
Model Year '91 Issued Oct./'90 Revised (-)

Engine Description
Engine Code

B6E	BPE	BPD
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Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		Fuel injection	←	←
Manufacturer		NIPPON DENSO	←	←
Carburetor no. of barrels		NA	←	←
Idle A/F mix.		—	←	←
Fuel injection	Point of injection (no.)	4	←	←
	Constant, pulse, flow	—	←	←
	Control (electronic, mech.)	Elec.	←	←
	System pressure [kPa (psi)]	—	←	←
Idle speed, rpm, spec. neutral or drive and propane if used)	Manual	750, Neutral	←	←
	Automatic	750, P-range	←	←
Intake manifold heat control (exhaust or water thermostatic or fixed)		—	←	←
Cleaner type		Wet	←	←
Fuel filter (type/location)		—	←	←
Fuel pump	Type (elec. or mech.)	Impeller	←	←
	Location (eng., tank)	Tank	←	←
	Pressure range [kPa (psi)]	441-637 kPa	←	←
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	80[L/Hr]min. @294 kPa	←	←
Fuel Tank		4 x 2	4 x 4	4 x 4
		4SD	3HB	4SD
Capacity (refill L (gallons))		55 L (14.5)	50 L (13.2)	60 L (15.9)
Location (describe)		Under floor of rear seat	←	←
Attachment		Strap	←	←
Material & Mass (kg (weight lbs.))		Steel	←	←
Filler pipe	Location & material	Left rear fender	←	←
	Connection to tank	Rubber hose	←	←
Fuel line (material)		Steel pipe & Rubber hose	←	←
Fuel hose (material)		Rubber	←	←
Return line (material)		Steel pipe & Rubber hose	←	←
Vapor line (material)		Steel pipe & Rubber hose	←	←
Extended range tank	Opt., n.a.	NA	←	←
	Capacity [L (gallons)]	—	←	←
	Location & material	—	←	←
	Attachment	—	←	←
Auxiliary tank	Opt., n.a.	NA	←	←
	Capacity [L (gallons)]	—	←	←
	Location & material	—	←	←
	Attachment	—	←	←
	Selector switch or valve	—	←	←
	Separate fill	—	←	←

MVMA Specifications

Vehicle Line: Mazda 323

Model Year: '91

Issued Oct./'90

Revised (-)

METRIC (U.S. Customary)

Engine Description
Engine Code

2WD (FF)				4WD
B6E	BPE	BPD		BPE

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Three way catalyst + Feed back control				
	Air Injection	Pump or pulse	NA	←	←	←	
		Driven by	NA	←	←	←	
		Air distribution (head, manifold, etc.)	NA	←	←	←	
		Point of entry	NA	←	←	←	
	Exhaust Gas Recircula- tion	Type (controlled flow, open orifice, other)	NA	←	←	←	
		Exhaust source Point of exhaust injection (spacer, carburetor, manifold, other)	NA	←	←	←	
	Catalytic Converter	Type	TWC	←	←	←	
		Number of	1	←	←	←	
		Location(s)	Under floor	←	←	←	
		Volume [L (in³)]	1.6	1.8	←	2.1	
		Substrate type	Monolith	←	←	←	
		Noble metal type	Pt/Rh = 5/1	←	←	←	
		Noble metal concentration (g/cm²)	0.0016	←	←	←	
	Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction	←	←	←
		Energy source (manifold vacuum, carburetor, other)		Manifold- vacuum	←	←	←
Discharges (to intake manifold, other)		Intake- manifold	←	←	←		
Air inlet (breather cap, other)		NA	←	←	←		
Evapora- tive Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	←	←	←		
		Carburetor					
Electronic system	Vapor storage provision						
	Closed loop (yes/no)						
	Open loop (yes/no)						

Engine - Exhaust System

T ₁ (single, single with cross-over, dual, other)		Single	←	←	←
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		1 / Reverse Flow	←	←	←
Resonator no. & type		1 / Expansion	←	1 / Absorption	1 / Expansion
Exhaust pipe	Branch o.d., wall thickness	-	-	-	-
	Main o.d., wall thickness	50.8 x 2.0 mm	←	←	←
	Material & Mass [kg (weight lbs)]	Stainless	←	←	←
Intermediate pipe	o.d. & wall thickness	*	48.6 x 1.6 mm	←	←
	Material & Mass [kg (weight lbs)]	Al coated steel	←	←	←
Tail pipe	o.d. & wall thickness	38.1 x 1.2 mm	42.7 x 1.2 mm	31.8 x 1.2 mm	45 x 1.2 mm
	Material & Mass [kg (weight lbs)]	Al coated stainless	←	←	←

* 42.7 x 1.6 - 45 x 2.0 - 45 x 1.6 mm

MVMA Specifications

Vehicle Line Mazda 323

Model Year '91 Issued Oct./'90 Revised (-)

METRIC (U.S. Customary)

Engine Description
Engine Code

2WD (FF)				4WD
B6E	BPE	BPD		BPE

Transmissions/Transaxle (Std., Opt., N.A.)

Manual 3-speed (manufacturer/country)	NA	←	←	←
Manual 4-speed (manufacturer/country)	NA	←	←	←
Manual 5-speed (manufacturer/country)	Std.	←	←	←
Automatic (manufacturer/country)	Opt.	←	←	←
Automatic overdrive (manufacturer/country)	-	-	-	-

Manual Transmission/Transaxle

Number of forward speeds		5	←	←	←
Gear ratios	1st	3.416	←	3.307	←
	2nd	1.842	←	1.833	←
	3rd	1.290	←	1.310	1.233
	4th	0.918	←	1.030	0.914
	5th	0.731	←	0.795	0.717
	Reverse	3.214	←	3.166	←
Synchronous meshing (specify gears)		All forward gears	←	←	←
Shift lever location		Floor	←	←	←
Trans. case mat'l. & mass kg (lbs)*		Aluminum	←	←	←
Lubricant	Capacity [L (pt.)]	2.68 L	←	3.35 L	2.6-L
	Type recommended	75W-90	←	ATF	75W-90 or
				ATF (DEXRON II, M III)	ATF (DEXRON II, M III)

Clutch (Manual Transmission)

Clutch manufacturer		DAIKIN MFG. CO., LTD			
Clutch type (dry, wet; single, multiple disc)		Dry single plate	←	←	←
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic	←	←	←
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed	-	-	-	-
	Released	-	-	-	-
Assist (spring, power/percent, nominal)		-	-	-	-
Type pressure plate springs		Diaphragm	←	←	←
Total spring load (nominal, new) N (lbs)		370 kg	440 kg	392 kg	←
Clutch facing	Facing mfg. & material coding	VALQUA / NK50	←	←	VALEO / F202
	Facing material & construction	Semimold	←	←	←
	Rivets per facing	16	←	←	←
	Outside x inside dia. (nominal)	190 x 132 mm	200 x 130 mm	215 x 150 mm	225 x 150 mm
	Total eff. area (cm ² (in. ²))	147	181	186	221
	Thickness (pressure plate side/fly wheel side)	3.5 / 3.5 mm	3.8 / 3.5 mm	←	4.1 / 3.5 mm
	Rivet depth (pressure plate side/fly wheel side)	1.4 / 1.4 mm	1.7 / 1.4 mm	←	2.0 / 1.4 mm
	Engagement cushion method	Cushion spring	←	←	←
Release bearing type & method lub.		Ball bearing & grease			
Torsional damping method, springs, hysteresis		Rubber			

* Includes shift linkage, lubricant, and clutch housing, if other specify.

MVMA Specifications

Vehicle Line Mazda 323

Model Year '91 Issued Oct./'90 Revised (-)

METRIC (U.S. Customary)

Engine Description
Engine Code

2WD (FF)				4WD
B6E	BPE	BPD		BPE

Automatic Transmission/Transaxle

Trade Name		Transaxle (F4A)	←	←	EC-AT (G4A-EL)
Type and special features (describe)		Lock-up Torque converter	←	←	Elec. Control
Gear selector	Location (column, floor, other)	Floor	←	←	←
	Ltr./No. designation (e.g. PRND21)	PRNDSL	←	←	←
	Shift interlock (yes, no, describe)	Yes	←	←	←
Gear ratios	1st	2.800	←	←	←
	2nd	1.540	←	←	←
	3rd	1.000	←	←	←
	4th	0.700	←	←	←
	Reverse	2.333	←	←	←
x. upshift speed - drive range (km/h (mph))		1→2 52 - 58	56 - 62	59 - 65	50
		2→3 92 - 100	99 - 107	101 - 109	95
		3→4 156 - 166	168 - 178	167 - 177	148
		4→5 142 - 152	153 - 163	155 - 165	138
Max. backdown speed - drive range (km/h (mph))		3→2 82 - 90	88 - 96	94 - 102	90
		2→1 42 - 48	42 - 48	52 - 58	39
Min. overdrive speed (km/h (mph))		25 - 35	25 - 35	25 - 35	40
Torque converter	Number of elements	3	←	←	←
	Max. ratio at stall	2.2	2.1	←	2.7
	Type of cooling (air, liquid)	Liquid	←	←	←
	Nominal diameter	236 mm	←	←	←
	Capacity factor "K"	258	234	←	260
Lubricant	Capacity (refill L (pt.))	5.8 L	←	←	6.6 L
	Type recommended	ATF M-III	←	←	←
Oil cooler (std., opt., N.A., internal, external, air, liquid)		-	-	-	-
Transmission mass (kg (lbs)) & case material **		-	-	-	-

All Wheel / 4 Wheel Drive

MT

AT

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		Full time	←
Transfer	Manufacturer and model	Mazda / G5MX	Mazda / G4EX
	Type and location	Incorporated in transaxle	←
Low gear ratio		NA	←
System disconnect (describe)		NA	←
Center differential	Type (bevel, planetary, w or w/o viscous bias, torson, etc.)	Double planetary pinion	←
	Torque split (% front/rear)	50 / 50	←

* Input speed + $\sqrt{\text{torque}}$

** Dry weight including torque converter. If other, specify.

MVMA Specifications

Vehicle Line Mazda 323
 Model Year '91 Issued Oct./'90 Revised (-) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

BPE (4x4, 4-door Sedan)

⑦ Axle Ratio and Tooth Combinations (See "Power Teams" for axle ratio usage)

Axle ratio (or overall top gear ratio)	3.909
Ring gear o.d.	162.16
No. of teeth	
Pinion	11
Ring gear	43

⑦ Rear Axle Unit

Description	IRS
Limited slip differential (type)	NA
Drive pinion	Type Offset
	Hypoid gear 25
No. of differential pinions	2
Pinion / differential	Adjustment (shim, etc.) Bearing adjustment
	- -
Driving wheel bearing (type)	-
Lubricant	Capacity [L (pt.)] Type recommended
	0.65 L API GL-4 (SAE 90, SAE 80), GL-5 (SAE 90, SAE 80)

⑦ Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)		Mazda Straight tube	
Outer diam. x length* x wall thickness	Manual 3-speed transmission		NA
	Manual 4-speed transmission		NA
	Manual 5-speed transmission		① $\phi 75 \times 834 \text{ mm} \times 1.6 \text{ mm}$ ③ $\phi 57 \times 437 \text{ mm} \times 1.6 \text{ mm}$ ② $\phi 57 \times 634 \text{ mm} \times 1.6 \text{ mm}$
	Overdrive		NA
	Automatic transmission		① $\phi 75 \times 836 \text{ mm} \times 1.6 \text{ mm}$ ③ $\phi 57 \times 437 \text{ mm} \times 1.6 \text{ mm}$ ② $\phi 57 \times 634 \text{ mm} \times 1.6 \text{ mm}$
Inter- mediate bearing	Type (plain, anti-friction)		-
	Lubrication (fining, prepack)		-
Slip yoke	Type		Spline
	Number of teeth		MT : 23 , AT : 19
	Spline o.d.		MT : 26.07 , AT : 22.42
Universal joints	Make and mfg. no.	Front	HIKARI SEIKO CO. M003-25-060
		Rear	HIKARI SEIKO CO. M003-25-060
	Number used		3
	Type (ball and trunnion, cross)		MT : VJ + Hook joint AT : DOJ + Hook joint
	Rear attach (u-bolt, clamp, etc)		Flange
	Bearing	Type (plain, anti-friction)	Needle bearing
		Lubrication (fining, prepack)	Sealed grease
Drive taken through (torque tube, arms or springs)			-
Torque taken through (torque tube, arms or springs)			-

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line
Model Year

Mazda 323

'91

Issued

Oct. / '90

Revised (-)

Engine Description
Engine Code

2WD (FF)			4WD
B6E	BPE	BPD	BPE

⊗ Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage)

Effective final drive ratio (for overall top gear ratio)		MT/AT	4.105/3.736	3.619/3.476	4.105/3.736	4.388/3.842
Transfer ratio and method (chain, gear, etc.)			-	-	-	1.000
Front drive unit	Ring gear o.d.		ø202.5 h10	ø197.5 h10	ø202.5 h10	ø205.0 h10
	No. of teeth		19	21	19	18
	Pinion		78	76	78	79

⊗ Front Drive Unit

Description (integral to trans., etc.)		Incorporated in transaxle			
Limited slip differential (type)		NA	-	←	←
Drive pinion	Type	-	-	-	-
	Offset	-	-	-	-
No. of differential pinions		2	←	←	←
Pinion / differential	Adjustment (shim, etc.)	-	-	-	-
	Bearing adjustment	Shim	←	←	←
ing wheel bearing (type)		-	-	-	-
Lubricant	Capacity (L (pt.))	-	-	-	-
	Type recommended	-	-	-	-

⊗ Axle Shafts - Front Wheel Drive

Manufacturer and number used			NTN / 2	NSK / 2	NTN / 2	
Type (straight, solid bar, tubular, etc.)			Left	solid bar	←	←
			Right	solid bar	←	←
Outer diam. x length* x wall thickness	Manual transaxle	Left	ø21.5x385.2 mm	ø23x382.5 mm	ø23x365.5 mm	ø23x308 mm
		Right	ø21.5x663.7 mm	ø23x668.5 mm	ø23x427.5 mm	ø23x388.0 mm
	Automatic transaxle	Left	ø21.5x385.2 mm	ø23x382.5 mm	ø23x387 mm	ø23x331.6 mm
		Right	ø21.5x663.7 mm	ø23x668.5 mm	ø23x427.5 mm	ø23x388.0 mm
	Optional transaxle	Left	-	-	-	-
		Right	-	-	-	-
Y- J	Type		-	-	-	-
	Number of teeth		-	-	-	-
	Spline o.d.		-	-	-	-
Universal joints	Make and mfg. no.	Inner	-	-	-	-
		Outer	-	-	-	-
	Number used		-	-	-	-
	Type, size, plunge	Inner	Tripod joint	←	←	Double offset joint
		Outer	Ball joint	←	←	
	Attach (u-bolt, clamp, etc)		-	-	-	←
	Bearing	Type (plain, anti-friction)	-	-	-	-
		Lubrication (filing, 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 attachment.

MVMA Specifications

Vehicle Line Mazda 323
Model Year '91 Issued Oct. / '90 Revised (-)

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

2WD (FF)			4WD
B6E	BPE & BPD		BPE

Suspension - General Including Electronic Controls

Car leveling	Standard/optional not avail.	N.A	←	←
	Manual/automatic control	-	←	←
	Type (air/hydraulic)	-	←	←
	Primary/assist spring	-	←	←
	Rear only/4 wheel leveling	-	←	←
	Single/dual rate spring	-	←	←
	Single/dual ride heights	-	←	←
	Provision for jacking	-	←	←
Shock absorber damping controls	Standard/option/not avail.	N.A	←	←
	Manual/automatic control	-	←	←
	Number of damping rates	-	←	←
	Type of actuation (manual/electric motor/air, etc.)	-	←	←
	s e n s o r s	Lateral acceleration	-	←
		Deceleration	-	←
		Acceleration	-	←
		Road surface	-	←
Shock absorber (front & rear)	Type	Cylindrical Double-Acting	←	←
	Make	TOKIKO , KAYABA	←	←
	Piston diameter	-	←	←
	Rod diameter	φ 20	←	←

Suspension - Front

Type and description		Strut	←	←
Travel	Full bounce	85	←	←
	Full rebound	90	←	←
Spring	Type (coil, leaf, other) & material	Coil	←	←
	Insulators (type & material)	-	←	←
	Size (coil design height & I.d.)	-	←	←
	Spring rate [N/mm (lb./in.)]	-	←	←
	Rate at wheel [N/mm (lb./in.)]	-	←	←
Stabilizer	Type (link, linkless, frameless)	-	Link	←
	Material & bar diameter	-	BPE:φ19.1 , BPD:φ22	φ19

Suspension - Rear

Type and description		Strut	←	←
Travel	Full bounce	100	←	←
	Full rebound	120	←	←
Spring	Type (coil, leaf, other) & material	Coil	←	←
	Size (length x width, coil design height & I.d.)	-	←	←
	Spring rate [N/mm (lb./in.)]	-	←	←
	Rate at wheel [N/mm (lb./in.)]	-	←	←
	Insulators (type & material)	-	←	←
	If leaf	No. of leaves	-	←
		Shackle (comp. or tens.)	-	←
Stabilizer	Type (link, linkless, frameless)	Link	←	←
	Material & bar diameter	φ 20	BPE:φ20 , BPD:φ21	φ19.1
Track bar (type)				

* Define load condition:

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda 323
Model Year '91 Issued Oct./'90 Revised (•) _____

Body Type And/Or
Engine Displacement

Brakes - Service

B6E & BPE (4 x 2)	BPD & BPE (4 x 4)
---------------------	---------------------

Description			Four wheel hydraulic actuated system	←
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		Disc (Std.)	←
	Rear (disc or drum)		Drum (Std.)	Disc (Std.)
Valving type (proportion, delay, metering, other)			Proportion	←
Power brake (std., opt., n.a.)			Std.	←
Booster type (remote, integral, vac., hyd., etc.)			Vac.	←
Vacuum	Source (inline, pump, etc.)		Inline	←
	Reservoir (volume in.³)		-	-
	Pump-type (elec. gear driven, belt driven)		-	-
Traction control	Operational speed range		-	-
	Type engine intervention (electronic, mech.)		-	-
Anti-lock	Front / rear (std., opt., n.a.)		NA	←
	Manufacturer		-	-
	Type (electronic, mech.)		-	-
	Number sensors or circuits		-	-
	Number anti-lock hydraulic circuits		-	-
	Integral or add-on system		-	-
	Yaw control (yes, no)		-	-
	Hydraulic power source (elec., vac. mtr., pwr. strg.)		-	-
Effective area (cm²(in.²))*			-	-
Gross lining area (cm²(in.²))** (F/R)			38 x 4 / 66 x 4	43 x 4 / 26 x 4
Swept area (cm²(in.²))*** (F/R)			501 / 215	639 / 432
Rotor	Outerworking diameter	F/R	235 / 228.6	257 / 251
	Inner working diameter	F/R	144(in), 146(out) / NA	← / 152
	Thickness	F/R	22 / NA	← / 9
	Material & type (vented/solid)	F/R	Vented / NA	Vented / Solid
Drum	Diameter & width	F/R	NA / 228.6 x 30	NA / NA
	Type and material	F/R	-	NA
Wheel cylinder bore			654 / 617.4	← / 30.2
Master cylinder	Bore/stroke	F/R	622.2 x 30	←
Pedal arc ratio			4.1	←
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			MT:1.0 x 10³, AT:1.2 x 10³	←
Lining clearance			F/R Self adjusting	←
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Ronded	←
		Rivet size	-	-
		Manufacturer	NIHON BRAKE	←
		Lining code*****	JB KC80 FF	←
		Material	Resin mould	←
		**** Primary or out-board	91.1 x 49 x 10	91.1 x 54.5 x 10
		Size Secondary or in-board	91.1 x 49 x 10	91.1 x 54.5 x 10
		Shoe thickness (no lining)	-	-
	Rear wheel	Bonded or riveted (rivets/seg.)	Ronded	←
		Manufacturer	NIHON BRAKE	←
		Lining code*****	JB NI 60 FF	JB ND83 FF
		Material	Resin mould	←
		**** Primary or out-board	191.9 x 25 x 5	99 x 31.5 x 8
		Size Secondary or in-board	191.9 x 25 x 5	99 x 31.5 x 8
		Shoe thickness (no lining)	-	-

* 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 for formulation designation and coefficient of friction classification.

MVMA Specifications

Vehicle Line Mazda 323

Model Year '91 Issued Oct./'90 Revised (-)

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

B6E	BPE	BPD
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Tires And Wheels (Standard)

Tires	Size (load range, ply)	P155/80R13 79S	P175/80R13 82S	P185/60R14 32H
	Type (bias, radial, steel, nylon, etc.)	Steel radial	←	←
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)] 216 (32)	←	←
		Rear [kPa (psi)] 216 (32)	←	←
	Rev./mile-at 70 km/h (45 mph)	-	-	-
Wheels	Type & material	WDC / Steel	Steel, Alloyed	←
	Rim (size & flange type)	13 x 5J	←	14 x 5 1/2 JJ
	Wheel offset	45 mm	←	←
	Attachment	Type (bolt or stud)	Nut	←
		Circle diameter	100	←
		Number & size	4	←
	Tire and wheel	T115/70 D14/14x4-T	←	←
	Storage position & location (describe)	In trunk room	←	←

Tires And Wheels (Optional)

Tire size (load range, ply)	P175/70R13 82S	P185/60R14 82H	-
radial, steel, nylon, etc.)	Steel radial	←	-
Wheel (type & material)	Steel	Steel, Alloyed	-
Rim (size, flange type and offset)	5 J-13	5 1/2 JJ-14	-
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Tire size (load range, ply)			
Type (bias, radial, steel, nylon, etc.)			
Wheel (type & material)			
Rim (size, flange type and offset)			
Spare tire and wheel size (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)			

Brakes - Parking

Type of control	Hand operated	←	←
Location of control	Between front seats	←	←
Operates on	Rear service brake	←	←
If separate from service brakes	Type (internal or external)	NA	←
	Drum diameter	NA	←
	Lining size (length x width x thickness)	NA	←

MVMA Specifications

Vehicle Line Mazda 323

Model Year '91

Issued Oct./'90

Revised (-)

METRIC (U.S. Customary)

Body Type And/Or
Engine Displacement

3-door Hatchback & 4-door Sedan

FF

4WD

Steering

Manual (std., opt., n.a.)			Std.		
Power (std., opt., n.a.)			Opt.		
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt		NA	
	Manufacturer	NIHON SEIKO			
	(std., opt., n.a.)	Opt.		Std.	
Wheel diameter** (W9) SAE J1100	Manual	ø 370 mm			
	Power	ø 370 mm			
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	-		
		Curb to curb (l. & r.)	4.82 m (3HB) , 4.91 m (4NB)	5.14 m (3HB) - 5.23 m (4NB)	
	Inside rear	Wall to wall (l. & r.)	-		
		Curb to curb (l. & r.)	-		
Scrub Radius*			-		
Manual	Gear	Type	Rack & pinion	NA	
		Manufacturer	NIHON POWER STEERING	NA	
		Ratios	Gear	23.72	NA
			Overall	-	NA
	No. wheel turns (stop to stop)		4.30	NA	
	Type (coaxial, elec., hyd., etc.)		Hyd.		
Power	Manufacturer		NIHON POWER STEERING		
	Gear	Type	Rack & Pinion		
		Ratios	Gear	16.95	
			Overall	-	
	Pump (drive)		-		
	No. wheel turns (stop to stop)		3.07	2.76	
	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/knuckle & joint type			-		
Wheel spindle/hub	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.

** See Page 22.

MVMA Specifications

Vehicle Line Mazda 323
 Model Year '91 Issued Oct. / '90 Revised (-)

METRIC (U.S. Customary)

Body Type And/Or
 Engine Displacement

2WD (FF)	4WD
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Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	2° 05'	2° 40'
		Camber (deg.)	-0° 05'	-0° 39'
		Toe-in (outside track-mm (in.))	2	←
	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.))	-0° 20'	←
	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 (analog, digital, std., opt.)	Analog
	Trip odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		
Charge indicator	Type	NA
	Warning device (light, audible)	Light
Temperature indicator	Type	Gauge
	Warning device (light, audible)	NA
Oil pressure indicator	Type	NA
	Warning device (light, audible)	NA
Fuel indicator	Type	Gauge
	Warning device (light, audible)	Light
Wind-shield wiper	Type (standard)	2 speed with intermittent (Semi-concealed)
	Type (optional)	NA
	Blade length	-
	Swept area (cm² (in.²))	-
Wind-shield washer	Type (standard)	Elec. pump, 2-nozzle (4-jet)
	Type (optional)	NA
	Fluid level indicator (light, audible)	NA
Rear window wiper, wiper/washer (std., opt., n.a.)		Opt.
Horn	Type	Elec.
	Number used	2
Other		

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda 323
Model Year '91 Issued Oct. / '90 Revised (-)

Engine Description
Engine Code

	B6E	BPE	BPD
Electrical - Supply System		4 x 2	4 x 4
Battery	Manufacturer: NIPON BATTERY, MATSUSHITA BATTERY Model, std., (opt.): 50D20L(Std.), 55D23L(cold) Voltage: 12 V Amperes at 0°F cold crank: 306 A 356 A Minutes-reserve capacity: 78 min. 99 min. Amperes-hrs.-20 hr. rate: 50 AH 60 AH Location: Engine room	← ← ← ← ← ←	← 55D23L ← 356 A 99 min. 60 AH ←
Alternator	Manufacturer: MITSUBISHI Rating (idle/max. rpm): 12 V - 65 A Ratio (alt. crank/rev.): 2.21 Output at idle (rpm, park): - Optional (type & rating): -	← ← ← ← ←	← ← ← ← ←
Regulator	Type: IC-Type	←	←

Electrical - Starting System

Motor	Manufacturer: MITSUBISHI Current drain _____ A Power rating (kw (hp)): 0.85	← ← 0.95(MT), 1.4(AT)	← ← ←
Motor drive	Engagement type: Magnetic Pinion engages from (front, rear): -	← ←	← ←

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)		Std.		←		←	
	Other (specify)		NA		←		←	
Coil	Manufacturer		HANSHIN, MITSUBISHI		←		←	
	Model		-		-		-	
	Current	Engine stopped - A	-		-		-	
		Engine idling - A	-		-		-	
Spark plug	Manufacturer		NGK	NIPPON DENSO	NGK	NIPPON DENSO	NGK	NIPPON DENSO
	Model		*1		*2		*3	
	Thread (mm)		M14 x 1.25		←		←	
	Tightening torque [N·m (lb. ft)]		15 - 23 N·m		←		←	
	Gap		1.0-1.1 mm		←		←	
	Number per cylinder		1		←		←	
	Distributor		Manufacturer		MITSUBISHI		←	
	Model		ESA					

Electrical - Suppression

Locations & type	High tension cord & Spark plug
------------------	--------------------------------

- *1 BPR5ES11, BPR6ES11 / W16EXR-U11, W20EXR-U11
 *2 BKR5ES11, BKR6ES11 / K16PR-U11, K20PR-U11
 *3 BKR5E11, BKR6E11, BKR7E11 / K16PR-U11, K20PR-U11, K22PR-U11

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda 323
Model Year '91 Issued Oct. / '90 Revised (•) _____

Body Type

All models

Body

Structure

Utilized all steel welded body with energy absorbing front and rear structures.

Bumper system
front - rear

5-MPH bumper (front & rear)

Anti-corrosion treatment

Major exterior and structural sheet metal components.

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		Lacquer
Hood	Material & mass	Steel, 11 kg
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Material & mass	Steel, 10 kg
	Type (counterbalance, other)	Counterbalance
	Internal release control (elec., mech., n.a.)	Mech.
Hatch-back lid	Material & mass	Steel, 40 kg
	Type (counterbalance, other)	Counterbalance
	Internal release control (elec., mech., n.a.)	Mech.
Gate	Material & mass	NA
	Type (drop, lift, door)	-
	Internal release control (elec., mech., n.a.)	-
Vent window control (crank, friction, pivot, power)	Front	NA
	Rear	NA
Window regulator type (cable, tape, flex drive, etc.)	Front	NA
	Rear	NA
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Bucket
	Rear	Bench
	3rd seat	NA
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bucket
	Rear	Bench
	3rd seat	NA

MVMA Specifications

Vehicle Line Mazda 323
Model Year '91 Issued Oct./'90 Revised (-)

METRIC (U.S. Customary)

Body Type

All models

Restraint System

Seating Position		Left		Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap belt	NA	Lap belt
	Standard / optional	Second seat	Lap & Shoulder belt	Lap belt	Lap & Shoulder belt
		Third seat	NA	NA	NA
Passive	Type & description (air bag, motorized 2-point belt, fixed belt, knee bolster, manual lap belt)	First seat	Motorized-2-point belt	NA	Motorized-2-point belt
	Standard / optional	Second seat	NA	NA	NA
		Third seat	NA	NA	NA

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)		Laminated
Side glass (type)		Tempered
Backlight glass (type)		Tempered

Headlamps

Description - sealed beam, halogen, replaceable bulb, etc.	Halogen, Replaceable bulb
Shape	Rectangulate
Lo-beam type (2A1, 2B1, 2C1, etc.)	NA
Quantity	2
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	NA
Quantity	2

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized construction
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MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line Mazda 323
Model Year '91 Issued Oct./'90 Revised (+)

Body Type

All models

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

Electronic	Air conditioning (manual, auto, temp control)	Manual (Opt.)
	Clock (digital, analog)	Digital (Opt.)
	Compass / thermometer	NA
	Console (floor, overhead)	Floor (Std.)
	Defroster, elec. backlight	Defroster (Std.)
	Diagnostic monitor (integrated, individual)	NA
	Instrument cluster (list instruments)	NA
	Keyless entry	NA
	Tripmeter (avg. spd., fuel)	NA
	Voice alert (list items)	NA
	Other	Headlamp on reminder buzzer
	Fuel door lock (remote, key, electric)	Remote
	Auto head on / off delay, dimming	NA
	Cornering	NA
	Courtesy (map, reading)	Opt.
Lamps	Door lock, ignition	Ignition (Opt.)
	Engine compartment	NA
	Fog	NA
	Glove compartment	Std.
	Trunk	Opt.
	Illuminated entry system (list lamps, activation)	NA
	Other	-
Mirrors	Day / night (auto, man.)	Manual
	L.H. (remote, power, heated)	Power (Opt.)
	R.H. (convex, remote, power, heated)	Convex (Std.) , Power (Opt.)
	Visor vanity (RH / LH, illuminated)	Opt. / Opt.
Navigation system (describe)		NA
Parking brake-auto release (warning light)		NA

MVMA Specifications

Vehicle Line Mazda 323
 Model Year '91 Issued Oct. / '90 Revised (+) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

All models

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

Power equipment	Deck lid (release, pull down)		NA
	Door locks (manual, automatic, describe system)		Automatic (Opt.)
	Seats	2 - 4 - 6 way, etc.	NA
		Reclining (R.H., L.H.)	NA
		Memory (R.H., L.H., present, recline)	NA
		Lumbar, hip, thigh, support	NA
		Heated (R.H., L.H., other)	NA
	Side windows		Opt.
	Vent windows		NA
	Rear windows		NA
Radio systems	Antenna (location, whip, w / shield, power)		Manual
	Standard		None
	Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM radio with stereo cassette tape player.
	Speaker (number, location)		2 : Front door , 2 : Rear quarter trim
	Roof: open air or fixed (flip-up, sliding, "T")		Sliding sun-roof (Opt.)
	Speed control device		Opt.
	Speed warning device (light, buzzer, etc.)		NA
	Tachometer (rpm)		None : L & LX grade , Std. : GLX & GT grade
	Telephone system (describe)		NA
	Theft deterrent system		NA

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line Mazda 323

Model Year '91 Issued Oct./'90 Revised (-)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each vehicle 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 Hatchback

4-door Sedan

2WD

4WD

Width

	SAE Ref. No.	3-door Hatchback	4-door Sedan	4WD
Tread (front)	W101	1435	←	←
Tread (rear)	W102	1435	←	←
Vehicle width	W103	1675	←	←
Body width at Sg RP (front)	W117	1662	1656	←
Vehicle width (front doors open)	W120	3920	3421	←
Vehicle width (rear doors open)	W121	—	3430	←
Tumble-home (deg.)	W122	22.5°	22°	←
Outside mirror width	W410	—	—	←

Length

Wheelbase	L101	2450	2500	←
Vehicle length	L103	4155	4355	←
Overhang (front)	L104	856	←	←
Overhang (rear)	L105	851	999	←
Upper structure length	L123	2737	2602	←
Rear wheel C/L "X" coordinate	L127	2450	2500	←

Height*

Passenger distribution (front/rear)	PD1,2,3	2 / 1	←	←
Trunk/cargo load	—	—	—	—
Vehicle height	H101	1345	1340	1355
Cowl point to ground	H114	889	883	903
Deck point to ground	H138	856	943	952
Rocker panel-front to ground	H112	158	←	178
Rocker panel-rear to ground	H111	158	←	171
Windshield slope angle	H122	58.5°	←	←
Backlight slope angle	H121	53.5°	56°	←

Ground Clearance*

Front bumper to ground	H102	203	203	227
Rear bumper to ground	H104	266	←	273
Front bumper to ground (front curb mass (wt.))	H103	—	—	—
Bumper to ground (rear curb mass (wt.))	H105	—	—	—
Angle of approach (degrees)	H106	16.5°	16.5°	17.5°
Angle of departure (degrees)	H107	17°	15°	15.5°
Ramp breakover angle (degrees)	H147	—	—	—
Axle differential to ground (front/rear)	H153	—	—	—
Min. running round clearance	H156	130	130	135
Location of min. run. grd. clear.	—	Eng. Mounting Member	←	←

* All vehicle height and ground clearances are measured at the Manufacturer's Design Load Weight. Manufacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load, unless otherwise specified. All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Vehicle Line Mazda 323
Model Year '91 Issued Oct / '90 Revised (-)

Body Type

3-door Hatchback

4-door Sedan

2WD

4WD

SAE
Ref.
No.

Front Compartment

SgRP front, "X" coordinate	L31	1325	←	←
Effective head room	H61	N/R 981 / S/R 946	N/R 975 / S/R 938	←
Max. eff. leg room (accelerator)	L34	1058	←	←
SgRP to heel point	H30	254	←	←
SgRP to heel point	L53	850	←	←
Back angle	L40	20°	←	←
Hip angle	L42	90.6°	←	←
Knee angle	L44	123°	←	←
Foot angle	L46	87°	←	←
Design H-point front travel	L17	220	←	←
Normal driving & riding seat track trvl.	L23	210	←	←
Shoulder room	W3	1361	1365	←
Hip room	W5	1304	1292	←
Upper body opening to ground	H50	1221	1218	1234
Steering wheel maximum diameter	W9	370	←	←
Steering wheel angle	H18	23.8°	←	←
Accel. heel pt. to steer. whl. cntr	L11	469	←	←
Accel. heel pt. to steer. whl. cntr	H17	633	←	←
Undepressed floor covering thickness	H67	23	←	←

Rear Compartment

SgRP point couple distance	L50	756	768	←
Effective head room	H63	N/R 954 / S/R 918	N/R 942 / S/R 919	N/R 923 / S/R 899
Min. effective leg room	L51	869	880	886
SgRP (second to heel)	H31	300	295	315
Knee clearance	L48	+15	+28	+19
Shoulder room	W4	1356	1364	←
Hip room	W6	1210	1307	1291
Upper body opening to ground	H51	—	1225	1239
Back angle	L41	27°	26°	←
Hip angle	L43	87°	86°	88.5°
Knee angle	L45	84.5°	86.5°	87.5°
Foot angle	L47	121°	123°	122°
Depressed floor covering thickness	H73	10	←	←

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	—	370	309
Liftover height	H155	—	—	—

Interior Volumes (EPA Classification)

Vehicle class		—	—	—
Interior volume index (cu. ft.)**		—	—	—
Trunk / cargo index (cu. ft.)		—	—	—

* See page 14.

** Includes passenger and trunk / cargo index - see definition page 32.

N/R : Normal Roof

S/R : With Sun Roof

MVMA Specifications

Vehicle Line Mazda 323
 Model Year '91 Issued Oct. / '90 Revised (*)

METRIC (U.S. Customary)
 Vehicle Dimensions See Key Sheets for definitions

Body Type

3-door Hatchback

4-door Sedan

2WD

4WD

Station Wagon - Third Seat

SAE Ref. No.	NA	NA	NA
Seat facing direction	SD1	-	-
SgRP couple distance	L85	-	-
Shoulder room	W85	-	-
Hip room	W86	-	-
Effective leg room	L86	-	-
Effective head room	H86	-	-
SgRP to heel point	H87	-	-
Knee clearance	L87	-	-
Back angle	L88	-	-
Hip angle	L89	-	-
Knee angle	L90	-	-
Foot angle	L91	-	-

Station Wagon - Cargo Space

	NA	NA	NA
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	-	-
Min. 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 index [m ³ (ft. ³)]	V4	-	-
Cargo volume index-rear of 2-seat	V10	-	-

Hatchback - Cargo Space

	NA	NA
Cargo length at front seatback height	L208	-
Cargo length at floor (front)	L209	-
Cargo length at second seatback height	L210	443
Cargo length at floor (second)	L211	816
Front seatback to load floor height	H197	-
Second seatback to load floor height	H198	522
Cargo volume index [m ³ (ft. ³)]	V3	-
Hidden cargo volume index [m ³ (ft. ³)]	V4	-
Cargo volume index-rear of 2-seat	V11	0.446

METRIC (U.S. Customary)

Model Year '91 Issued Oct./'90 Revised (-) _____

[illegible]

** ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certifications. Refer to ETWC code legend below for test weight class.

Refer to ETWC code legend below for test weight class.

ETWC LEGEND

I	= 1000	J	= 2000	Q	= 3000	Y	= 4000
B	= 1125	K	= 2125	R	= 3125	Z	= 4125
C	= 1250	L	= 2250	S	= 3250	AA	= 4500
D	= 1375	M	= 2375	T	= 3375	BB	= 4750
E	= 1500	N	= 2500	U	= 3500	CC	= 5000
F	= 1625	O	= 2625	V	= 3625	DD	= 5250
G	= 1750	P	= 2750	W	= 3750	EE	= 5500
H	= 1875		= 2875	X	= 3875	FF	= 5750

SHIPPING MASS (weight) Calculation (Kg. (lbs.))

Shipping Mass (weight) = Curb Weight Less:

MVMA Specifications

Vehicle Line Mazda 323

Model Year '91 Issued Oct. / '90 Revised (-)

[illegible]

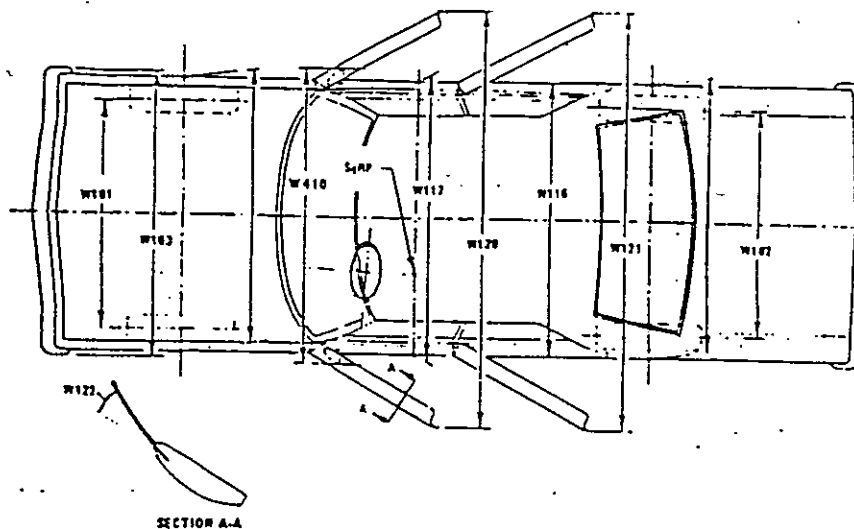
* Also see Engine - General Section for dressed engine mass (weight).

MVMA Specifications

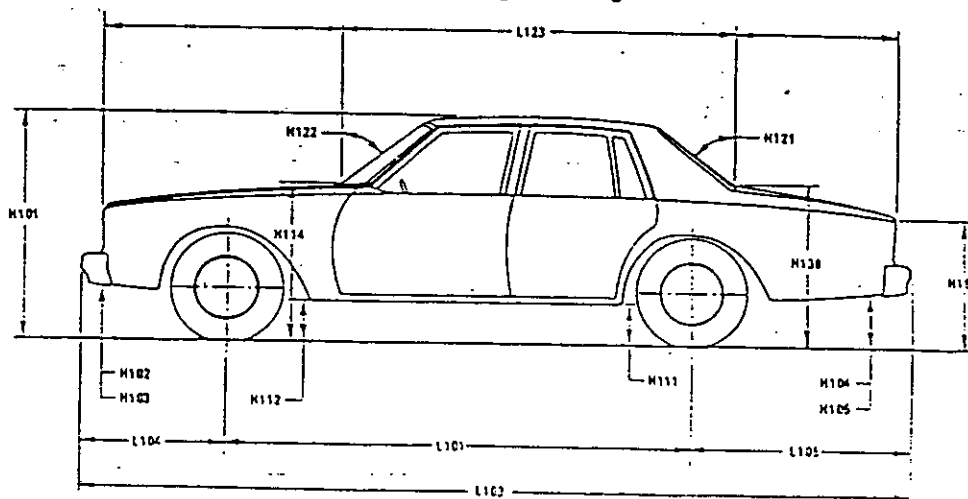
METRIC (U.S. Customary)

Exterior Vehicle And Body Dimensions - Key Sheet

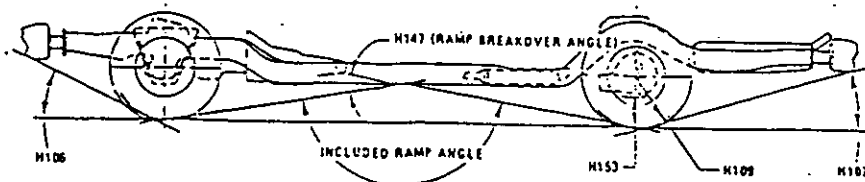
Exterior Width



Exterior Length & Height

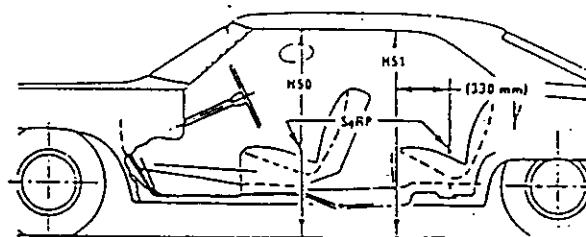
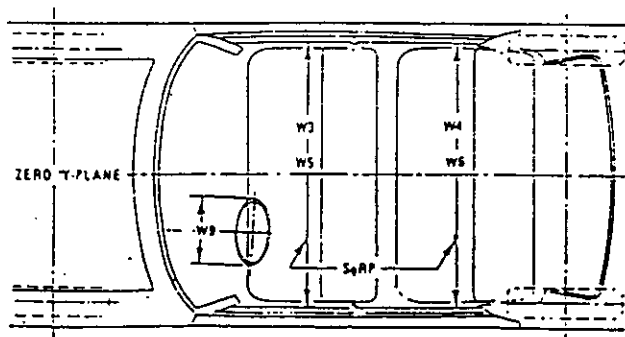
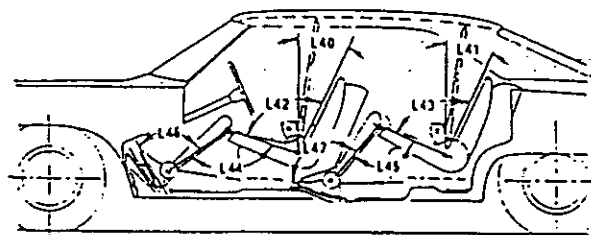
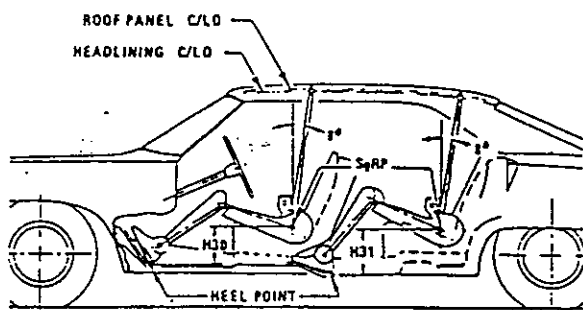
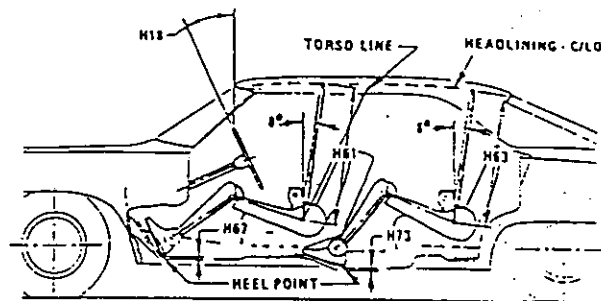
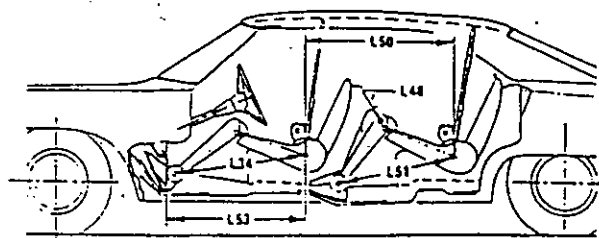


Exterior Ground Clearance



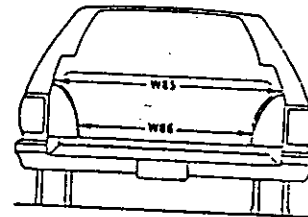
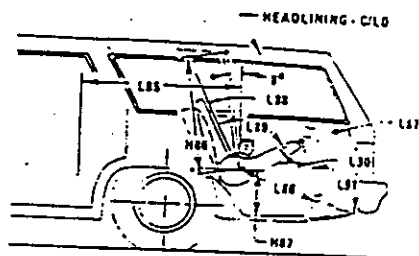
MVMA Specifications Form
METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions – Key Sheet

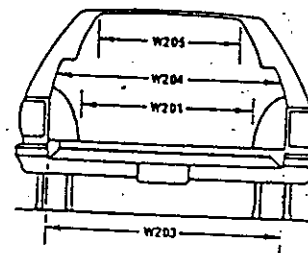
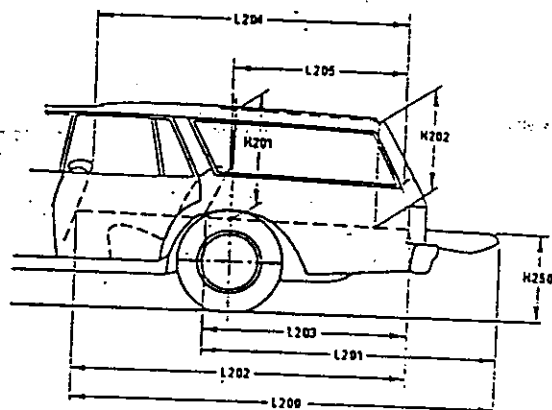


Interior Vehicle And Body Dimensions - Key Sheet

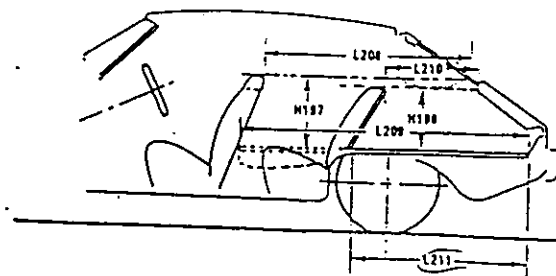
Third Seat



Cargo Space



Station Wagon



Hatchback

Exterior Vehicle 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.
- 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.
- W410 OUTSIDE MIRROR WIDTH. The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" 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 OVERHAND – 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 the midpoint of the distance between the rear axle centerlines.

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.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD – TIRE RADIUS – REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

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.
- 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 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.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

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
- .55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- .52 Height "Z" coordinate to ground at curb weight.
- Height "Z" coordinate to ground.

Front Compartment Dimensions

- 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. (See SAE J1100).
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. 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. (See SAE J1100).
- 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.
- H7 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.
- 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.

Rear Compartment Dimensions

- L41 BACK ANGLE - SECOND. The angle measured between a vertical line through the SgRP - second and the torso line.
- L43 HIP ANGLE - SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE - SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE - SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE - SECOND. The minimum dimension measured from the knee pivot center to the back of the 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 254 mm (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.
- 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.

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

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.

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

- L1 **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 51 mm (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. from the SgRP - third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- HE **SgRP - THIRD TO HEEL POINT**.
- 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.
- 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 pickup 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:

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

MVMA Specifications

METRIC (U.S. Customary)

Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

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:

$$\frac{L506 \times W505 \times H503}{1728} = \text{ft}^3$$

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 electronically 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.

L2C 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 "X" 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 seatback 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

METRIC (U.S. Customary)

Index

Subject	Page No.
Alternator	16
Axle Drive, Front, Rear, All Four	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
Carburetor	2, 6
Caster	15
Clutch - Pedal Operated	8
Coil, Ignition	16
Connecting Rods	4
Convenience Equipment	19-20
Firing System	5
Kshaft	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
Filters - Engine Oil, Fuel System	4
Four Wheel Drive	10
Frame	18
Front Suspension	11
Front Wheel Drive Unit	10
Fuel System	6
Fuel Injection	6
Fuel Tank	6
s	16
Headlamps	18
Headroom - Body	22, 23
Heights	21
Horns	15
Horsepower - Brake	2
Ignition System	16
Inflation - Tires	13
Interior Volumes	22
Instruments	15
Legroom	22, 23
Lengths	21
Leveling, Suspension	11
Lifters, Valve	4
Linings - Clutch, Brake	8, 12
Lubrication - Engine Transmission / Transaxle	4, 8, 9
Luggage Compartment	22
Models	1
Motor Starting	16
Muffler	7
Origin	1

Subject	Page No.
Passenger Capacity	1
Passenger Mass Distribution	25
Pistons	3
Power Brakes	12
Power, Engine	2
Power Steering	14
Power Teams	2
Propeller Shaft	10
Pumps - Fuel	6
Water	5
Radiator - Cap, Hoses, Core	5
Ratios - Axle, Transaxle	2, 9, 10
Compression	2
Steering	14
Transmission / Transaxle	2, 8, 9
Rear Axle	2, 10
Regulator - Alternator	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	20
Thermostat, Cooling	5
Tires	
Toe-In	
Torque Converter	9
Torque - Engine	2, 8, 9
Transaxle	9
Transmission - Types	2, 8, 9
Transmission - Automatic	2, 9
Transmission - Manual	2, 8
Transmission - Ratios	2, 8, 9
Tread	21
Trunk Cargo Load	1
Trunk Luggage Capacity	22
Turning Diameter	14
Unitized Construction	16
Universal Joints, Propeller Shaft	10
Valve System	4
Vehicle Dimensions	
Width	21
Length	21
Height	21
Ground Clearance	21
Front Compartment	22
Rear Compartment	22
Luggage Compartment	22
Station Wagon - Third Seat	23
Station Wagon - Cargo Space	23
Hatchback - Cargo Space	23
Fiducial Marks	24
Voltage Regulator	16
Water Pump	5
Weights	25, 26
Wheel Alignment	15
Wheelbase	21
Wheels & Tires	13
Wheel Spindle	14
Widths	21
Windshield	16
Windshield Wiper and Washer	15