

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

95
ES

1994

Manufacturer Mazda Motor Corporation	Vehicle Line Mazda 323 / Protege	
Mailing Address 3-1, Shinchu, Fuchu-cho, Aki-gun, Hiroshima	Issued December / 1993	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)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the 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

1994 MY MAZDA 323 / PROTEGE

METRIC (U.S. Customary)

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)	Make, Vehicle Models Series, Body type	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms	EPA Fuel Economy (City/Hwy)
Mazda 323 (FWD)	3-door Hatchback	2 / 3	-	29 / 37 (B6E, MT) 26 / 33 (B6E, AT)
Mazda Protege (FWD)	4-door Sedan	2 / 3	-	28 / 36 (BPE, MT) 24 / 31 (BPE, AT) 25 / 30 (BPD, MT) 24 / 29 (BPD, AT)

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
ENGINE	Engine Code		B6E	BPE	BPD	
	Displacement (Liters)		1.597	1.839	1.839	
	Induction system (FI, Carb, etc.)		EFI	EFI	EFI	
	Compression ratio		9.3	8.9	9.0	
	SAE Net at RPM	Power kW (bhp)	82 HP / 5000 rpm	103 HP / 5500 rpm	125 HP / 6500 rpm	
		Torque N·m (lb. ft.)	92 lb-ft / 2500 rpm	111 lb-ft / 4000 rpm	114 lb-ft / 4500 rpm	
	Exhaust (single, dual)		Single	Single	Single	
TRANS	Transmission / Transaxle		5MT & 4AT	5MT & 4AT	5MT & 4AT	
	Effective Final Drive / Axle Ratio		5MT: 3.850, 4AT: 3.736	5MT: 3.619, 4AT: 3.476	5MT: 4.105, 4AT: 3.736	

[illegible]

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Engine Cord / Description

B6E

BPE

BPD

ENGINE — GENERAL

Type & description	SOHC 16valve In-line 4 cylinder	SOHC 16valve In-line 4 cylinder	DOHC 16valve In-line 4 cylinder
Manufacturer	Mazda	←	←
Number of cylinders	4	←	←
Bore	78	83	←
Stroke	83.6	85	←
Bore spacing (C / L to C / L)	86	91	←
Cylinder block material & mass kg (lbs.)(machined)	Cast iron	←	←
Cylinder block deck height	206.5	←	←
Cylinder block length	373.5	393.5	←
Deck clearance (minimum)(above or below block)	-	-	-
Cylinder head material & mass kg (lbs.)	Cast aluminum alloy	←	←
Cylinder head volume cm3 (inches3)	36.5	46.58	50.8
Cylinder liner material	-	-	-
Head gasket thickness(compressed)	1.25 mm	0.75 mm	←
Minimum combustion chamber total volume cm3 (inches3)	49.94	57.6	57.7
Cyl. no. system (front to rear)*	L. Bank	1,2,3,4	←
	R. Bank	N/A	←
Firing order	1 - 3 - 4 - 2	←	←
Intake manifold material & mass kg (lbs.)**	Cast aluminum alloy	←	←
Exhaust manifold material & mass kg (lbs.)**	Cast iron	←	Stainless steel
Knock sensor (number & location)	-	-	-
Fuel required unleaded, diesel, etc.	-	-	-
Fuel antilock 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 (wt) dry***	-	-	-

Engine — Pistons

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

Engine — Camshaft

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

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Engine Cord / Description		B6E	BPE	BPD
Engine — Valve System				
Hydraulic lifters (std., opt., n.a.)		Standard	—	—
Valves	Number intake / exhaust	3 / 2	2 / 2	—
	Head O.D. intake / exhaust	29.5 / 23.5	30 / 25	33 / 28

Engine — Connecting Rods				
Material & mass kg., (weight, lbs.)*		Carbon steel	—	—
Length (axes C/L to C/L)		132.9	—	—

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 to 392 @ 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.)		3.0 L	3.6 L	—

Engine — Diesel Information		(Not applicable)		
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		(Not applicable)		
Turbo charger - manufacturer		-		
Super charger - manufacturer		-		
Intercooler		-		

* Finished State

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Engine Cord / Description		B6E	BPE	BPD
ENGINE — Cooling System				
Coolant recovery system (std., opt., n.a.)		Standard	←	←
Coolant fill location (rad., bottle)		Radiator	←	←
Radiator cap relief valve pressure kPa (psi)		74-103 kPa	←	←
Circulation thermostat	Type (choke, bypass)	Bypass	←	←
	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	Aluminium	←	←
By-pass recirculation type (inter., ext.)		External	←	←
Cooling system capacity	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	Standard	←	←
	Type (cross-flow, etc.)	Down-flow	←	←
	Construction (fin & tube mechanical, braze, etc.)	Corrugated Fin	←	←
	Material, mass kg (wgt., lbs.)	Aluminum	←	←
	Width	MT: 568, AT: 647	647	←
	Height	MT: 400, AT: 390	390	←
	Thickness	MT: 16, AT: 25	←	←
Fan	Fins per inch	MT: 20.3, AT: 19.5	←	←
	Radiator end tank material	Nylon	←	←
	Std., elec., opt.	Electronic	←	←
	Number of blades & type (flex, solid, material)	4	←	←
	Number & location (front, rear of radiator)	1/Rear of Radiator	←	←
	Diameter & projected width	320 mm	←	←
	Ratio (fan to crankshaft rev.)	-	-	-
	Fan cutout type	-	-	-
	Drive type (direct, remote)	Motor Drive	←	←
	RPM at idle (elec.)	2050	MT: 2050, AT: 1660-2200	←
	Motor rating (wattage / elec.)	80W	MT: 80W, AT: 160W	←
	Motor switch (type & location / elec.)	Thermo Switch	←	←
	Switch point (temp., / pressure / elec.)	Water Temp.	←	←
	Fan shroud (material)	P-PR	←	←

MVMA Specifications

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Engine Code / Description		B6E	BPE	BPD
Engine -- Fuel System				
Induction type		Fuel injection	←	←
Manufacturer		Nippon denso	←	←
Carburetor no. of barrels		N/A	←	←
Idle A/F mix.		14.7	←	←
Fuel injection	Point of injection (no.)	4	←	←
	Constant, pulse, flow	Calif.: Pulse (sequential) Fed.: Pulse (2-group)	Pulse (2-group)	←
	Control (electronic, mech.)	Elec.	←	←
	System pressure kPa (psi)	284	←	←
Idle speed - rpm	Manual	750 rpm, Neutral	←	←
	Automatic	750 rpm, P-range	←	←
Intake manifold heat control		N/A	←	←
Air cleaner type		Wet	←	←
Fuel filter (type/location)		Paper element	←	←
Fuel pump	Type (elec. or mech.)	Elec.	←	←
	Location (eng., tank)	Tank	←	←
	Pressure range kPa (psi)	637 kPa (max.)	←	←
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	80 L / hr (min.) @ 294 kPa	←	←

Fuel Tank

Capacity refill L (gallons)		50	55	←
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.	N/A	N/A	N/A
	Capacity L (gallons)	N/A	N/A	N/A
	Location & material	N/A	N/A	N/A
	Attachment	N/A	N/A	N/A
Auxiliary tank	Opt., n.a.	N/A	N/A	N/A
	Capacity L (gallons)	N/A	N/A	N/A
	Location & material	N/A	N/A	N/A
	Attachment	N/A	N/A	N/A
	Selector switch or valve	N/A	N/A	N/A
separate fill		N/A	N/A	N/A

MVMA Specifications

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Engine Cord / Description

B6E

BPE

BPD

Vehicle Emission Control

Exhaust Emission Control	Type		3-way catalyst + Feed back control	←	←
	Air Injection	Pump or pulse	N/A	←	←
		Driven by	N/A	←	←
		Air distribution	N/A	←	←
		Point of entry	N/A	←	←
	Exhaust Gas Recirculation	Type	N/A	←	←
		Exhaust source	N/A	←	←
		Point of exhaust injection	N/A	←	←
	Catalytic Converter	Type	TWC	←	←
		Number of	1	←	←
		Location(s)	Under Floor	←	←
		Volume L (in3)	1.6 L	1.8 L	←
		Substrate type	Monolith	←	←
		Noble metal type	Rh/Rh = 5/1	←	←
		Noble metal concentration (g/cm3)	0.0016	←	←
Crankcase Emission Control	Type		Induction	←	←
	Energy source		Manifold vacuum	←	←
	Discharges to		Intake manifold	←	←
	Air inlet		N/A	←	←
Evaporative Emission Control	Vapor vented to (ex. crankcase)	Fuel tank	Canister	←	←
		Carburetor	N/A	←	←
	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 / Material & Mass kg (weight lbs)		1/Reverse Flow	←	←
Resonator no. & type		1/Expansion	←	1/Absorption
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		42.7X1.6-45X2.0-45X1.6 mm	48.6 X 1.6
	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
	Material & Mass kg (weight lbs)		Al. Coated Steel	←

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Engine Code / Description

B6E	BPE	BPD
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Transmissions/Transaxle (Std., Opt., N.A.)

Manual 4-speed (manufacturer/country)	N/A	←	←
Manual 5-speed (manufacturer/country)	Standard	←	←
Manual 6-speed (manufacturer/country)	N/A	←	←
Automatic (manufacturer/country)	N/A	←	←
Automatic overdrive (manufacturer/country)	Standard	←	←

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
	4th	0.916	←	1.030
	5th	0.731	←	0.795
	6th	-	-	-
	Reverse	3.214	←	3.166
Synchronous meshing (specify gears)		All forward gears	←	←
Shift lever location		Floor	←	←
Trans. case mat'l. & mass kg (lbs)*		Aluminum, 11 kg	←	Aluminum
Lubricant	Capacity L (pt.)	2.68	←	←
	Type recommended	75W - 90	←	←

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 N (lbs)	Depressed	-	-	-
	Released	-	-	-
Assist (spring, power/percent, nominal)		-	-	-
Type pressure plate springs		Diaphragm	←	←
Total spring load (nominal) N (lbs)		370 kg	440 kg	392 kg
Clutch facing	Facing mfg. & material coding	Valeo & F202	←	←
	Facing material & construction	Semimold	←	←
	Rivets per facing	16	←	←
	Outside x inside dia. (nominal)	190 x 130	200 x 130	215 x 150
	Total eff. area cm2 (in.2)	151	181	186
	Thickness (pressure plate side/ty wheel side)	3.8 / 3.5	←	←
	Rivet depth (pressure plate side/ty wheel side)	1.7 / 1.4	←	←
	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

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Engine Cord / Description		B6E	BPE	BPD
Automatic Transmission/Transaxle				
Trade Name		F4A	—	—
Type and special features (describe)		Lock-up torque converter	—	—
Shift mechanics		—	—	—
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	—	—
	Final drive ratio	3.736	3.476	3.736
Max. upshift vehicle speed - drive range km/h (mph)		52 - 58 (1 - 2) 92 - 100 (2 - 3) 156 - 166 (3 - 4)	56 - 62 (1 - 2) 99 - 107 (2 - 3) 168 - 178 (3 - 4)	59 - 65 (1 - 2) 101 - 109 (2 - 3) 167 - 177 (3 - 4)
Max. upshift Engine speed RPM		—	—	—
Max. kickdown speed - drive range km / h (mph)		142 - 152 (4 - 3) 82 - 90 (3 - 2) 42 - 48 (2 - 1)	153 - 163 (4 - 3) 88 - 96 (3 - 2) 42 - 48 (2 - 1)	155 - 165 (4 - 3) 94 - 102 (3 - 2) 52 - 58 (2 - 1)
Min. overdrive speed km / h (mph)		25 - 35	—	—
Torque converter	Type	—	—	—
	Torus design	—	—	—
	Number of elements	3	—	—
	Max. ratio at stall	2.2	2.1	—
	Type of cooling (air, liquid)	Liquid	—	—
	Nominal diameter	236 mm	—	—
	Capacity factor "K"	258	238	—
Pump type		—	—	—
Lubricant	Capacity refill L (pt.)	6.3 L	—	—
	Type recommended	ATF M-III	—	—
Oil cooler		—	—	—
Transmission mass kg (lbs) & case material**		—	—	—

All Wheel / 4 Wheel Drive

(Not applicable)

Description & type		—
Transfer case	Manufacturer and model	—
	Type and location	—
Low-range gear ratio		—
System disconnect (describe)		—
Center differential	Type	—
	Torque split (% front/rear)	—

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

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

MVMA Specifications

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Engine Cord / Description			B6E	BPE	BPD
Axle Ratio and Tooth Combinations					
Effective final drive ratio			4.105 (MT), 3.736 (AT)	3.619 (MT), 3.476 (AT)	4.105 (MT), 3.736 (AT)
Transfer ratio and method (chain, gear, etc.)			-	-	-
Front drive unit	Ring gear o.d.		-	-	-
	No. of teeth	Pinion	19 (MT), - (AT)	21 (MT), - (AT)	19 (MT), - (AT)
		Ring gear	78 (MT), - (AT)	76 (MT), - (AT)	78 (MT), - (AT)

Front Drive Unit

Description (integral to trans., etc.)		Incorporated in transaxle	←	←
Limited slip differential (type)		N/A	←	←
Drive pinion	Type	-	-	-
	Offset	-	-	-
No. of differential pinions		2	←	←
Pinion / differential	Adjustment (shim, etc.)	-	-	-
	Bearing adjustment	Shim	←	←
Driving 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, etc.)		Left	Solid Bar	←	←
		Right	Solid Bar	←	←
Outer diam. x length* x wall thickness	Manual transaxle	Left	21.5 X 385.2 mm	23.0 X 382.5 mm	23.0 X 365.5 mm
		Right	21.5 X 663.7 mm	23.0 X 668.5 mm	23.0 X 427.5 mm
	Automatic transaxle	Left	21.5 X 385.2 mm	23.0 X 382.5 mm	23.0 X 387.0 mm
		Right	21.5 X 663.7 mm	23.0 X 668.5 mm	23.0 X 427.5 mm
	Optional transaxle	Left	-	-	-
		Right	-	-	-
Slip yoke	Type		-	-	-
	Number of teeth		-	-	-
	Spine o.d.		-	-	-
Universal joints	Make and mfg. no.	Inner	-	-	-
		Outer	-	-	-
	Number used		-	-	-
	Type, size, plunger	Inner	Tripod Joint	←	←
		Outer	Ball Joint	←	←
	Attach (u-bolt, clamp, etc.)		-	-	-
	Bearing	Type	-	-	-
		Lubrication	-	-	-
Drive taken through (torque tube, arms or springs)			-	-	-
Torque aken through (torque tube, arms or springs)			-	-	-

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

MVMA Specifications

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Model or Engine Code / Description

B6E

BPE

BPD

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.)	-	—	—
	sensors	Lateral acceleration	-	—	—
		Deceleration	-	—	—
		Acceleration	-	—	—
		Road surface	-	—	—
Shock absorber (front & rear)		Type	Cylindrical Double Acting	—	—
		Make	TOKICO, KAYABA	—	—
		Piston diameter	-	—	—
		Rod diameter	20 mm	—	—

Suspension — Front

Type and description		Strut	—	—
Travel	Full bounce (define load condition)	85	—	—
	Full rebound	90	—	—
Spring	Type (coil, leaf, other & material)	Coil	—	—
	Insulators (type & material)	-	—	—
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	-	—	—
	Spring rate [N/mm (lb/in.)]	-	—	—
	Rate at wheel [N/mm (lb/in.)]	-	—	—
Stabilizer	Type (link, linkless, frameless)	-	Link	—
	Material & O.D. bar/tube, wall thickness	-	19.1 mm	22.0 mm

Suspension — Rear

Type and description		Strut	—	—
Travel	Full bounce (define load condition)	100	—	—
	Full rebound	120	—	—
Spring	Type (coil, leaf, other & material)	Coil	—	—
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	-	—	—
	Spring rate [N/mm (lb/in.)]	-	—	—
	Rate at wheel [N/mm (lb/in.)]	-	—	—
	Insulators (type & material)	-	—	—
	No. of leaves	-	—	—
	Shackle (comp. or tens.)	-	—	—
Stabilizer	Type (link, linkless, frameless)	Link	—	—
	Material & O.D. bar/tube, wall thickness	20 mm	—	21.0 mm
Track bar (type)			—	—

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Model or Engine Cord / Description

B6E

BPE

BPD

Brakes — Service

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.)			Standard	←	←	
Booster type (remote, integral, vac., hyd., etc.)			Vacuum	←	←	
Vacuum	Source (inline, pump, etc.)		Inline	←	←	
	Reservoir (volume in.3)		-	←	←	
	Pump-type (elec, gear driven, belt driven)		-	←	←	
Traction assist	Operational speed range		-	←	←	
	Type (Engine or brake intervention)		-	←	←	
Anti-lock device	Front / rear (std., opt., n.a.)		N/A	←	←	
	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)			Front: 38.0 X 4.0 cm2 Rear: 647.0 X 4.0 cm2	←	Front: 43.0 X 4.0 cm2 Rear: 26.0 X 4.0 cm2	
Swept area cm2 (in.2)*** (F/R)			501 cm2 / 220 cm2	←	639 cm2 / 432 cm2	
Rotor	Outer working diameter	F/R	235 mm / 200 mm	←	257 mm / 251 mm	
	Inner working diameter	F/R	Front: 144 mm(inner), 146 mm(outer)/Rear: N/A	←	Front: ← / Rear: 152 mm	
	Thickness	F/R	Front: 22 mm , Rear: N/A	←	Front: 22 mm, Rear: 9 mm	
	Material & type (vented/solid)	F/R	Front: Vented, Rear: N/A	←	Front: Vented, Rear: Solid	
Drum	Diameter & width	F/R	Front: N/A, Rear: 200 X 35	←	N/A	
	Type and material	F/R	-	←	N/A	
Wheel cylinder bore			54.0 mm / 17.4 mm	←	54.0 mm / 30.2 mm	
Master cylinder	Bore/stroke	F/R	22.2 mm X 30.0 mm	←	←	
Pedal arc ratio			4.1	←	←	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]			1.0 X 107	MT: 1.0 X 107, AT: 1.2 X 107	←	
Lining clearance		F/R	Self Adjusting	←	←	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Bonded	←	←
		Rivet size		-	←	←
		Manufacturer		NIHON BRAKE	←	←
		Linig code*****		JB KC80 FF	←	←
		Material		Resin Mold	←	←
		****	Primary or out-board	91.1 X 49.0 X 10.0	←	91.1 X 54.5 X 10.0
		Size	Secondary or in-board	91.1 X 49.0 X 10.0	←	91.1 X 54.5 X 10.0
		Shoe thickness (no lining)		-	←	←
	Rear wheel	Bonded or riveted (rivets/seg.)		Bonded	←	←
		Manufacturer		NISSHINBO BRAKE	←	NIHON BRAKE
		Linig code*****		NBK D9067 FF	←	JB ND85 FF
		Material		Resin Mold	←	←
		****	Primary or out-board	191.9 X 35.0 X 4.0	←	99.0 X 31.5 X 8.0
		Size	Secondary or in-board	191.9 X 35.0 X 4.0	←	99.0 X 31.5 X 8.0
Shoe thickness (no lining)		-	←	←		

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

*** Total swept area for four brakes. (Drum brake: Widest lining contact width each brake x its contact circumference.)

(Disc brake: Squar 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

1994 MY MAZDA 323 / PROTEGE

Model or Engine Code / Description

B6E

BPE

BPD

Tires And Wheels (Standard)

Tires	Size (service description)		P155/80R13 78S	P175/70R13 82S	P185/60R14 82H
	Type (bias, radial, steel, nylon, etc.)		Steel Radial	—	—
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	216 kPa (32 psi)	—	—
		Rear kPa (psi)	216 kPa (32 psi)	—	—
	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)	Nut	—	—
		Circle diameter	100	—	—
		Number & size	4	—	—
Spare	Tire and Wheel		T115/70 D14/14 X 4-T	—	—
	Storage position & location(describe)		Trunk Room	—	—

Tires And Wheels (Optional)

Tire size (service description)		P175/70R13 82S	P185/60R14 82H	—
Type (bias, radial, steel, nylon, etc.)		Steel Radial	—	—
Wheel (type & material)		Steel, Alloyed	—	—
Rim (size, flange type and offset)		13 X 5J	14 X 5 1/2 JJ	—
Tire size (service description)				
Type (bias, radial, steel, nylon, etc.)				
Wheel (type & material)				
Rim (size, flange type and offset)				
Tire size (service description)				
Type (bias, radial, steel, nylon, etc.)				
Wheel (type & material)				
Rim (size, flange type and offset)				
Tire size (service description)				
Type (bias, radial, steel, nylon, etc.)				
Wheel (type & material)				
Rim (size, flange type and offset)				
Spare tire and wheel size				

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)	N/A	—	—
	Drum diameter	N/A	—	—
	Lining size (length x width x thickness)	N/A	—	—

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Model or Engine Cord / Description

All models

Steering

Manual (std., opt., n.a.)			Standard	
Power (std., opt., n.a.)			Option	
Speed-sensitive(std, opt., n.a.)			N/A	
4-wheel steering (std., opt., n.a.)			N/A	
Adjustable steering wheel/column (tilt, telescope, other)		Type	Tilt	
		Manufacturer	NIHON SEIKO	
		(std, opt., n.a.)	Option	
Wheel diameter** (W9) SAE J1100		Manual	370 mm	
		Power	370 mm	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	-	
		Curb to curb (l. & r.)	9.6 mm (3HB), 9.8 mm (4NB)	
	Inside rear	Wall to wall (l. & r.)	-	
		Curb to curb (l. & r.)	-	
Scrub Radius*			-	
Manual	Gear	Type	Rack & Pinion	
		Manufacturer	NIHON SEIKO	
		Ratios	Gear	∞
			Overall	-
	No. wheel turns (stop to stop)		4.3	
Power	Type (coaxial, elec., hyd., etc.)		Hydraulic	
	Manufacturer		NIHON POWER STEERING	
	Gear	Type	Rack & Pinion	
		Ratios	Gear	∞
			Overall	16.9
	Pump (drive)		-	
	No. wheel turns (stop to stop)		3.0	
Linkage	Type		Rack & Pinion	
	Location (front or rear of wheels, other)		Rear	
	Tie rods (one or two)		Two	
Steering axis	Inclination at camber (deg.)		-	
	Bearings (type)	Upper	-	
		Lower	-	
		Thrust	-	
Steering spindle/knuckle & joint type			-	

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

** See Page 23.

MVMA Specifications

1994 MY Mazda 323/PROTEGE

Model or Engine Code / Description

All models

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	2° 05'
		Camber (deg.)	-0° 05'
		Toe-in outside track-mm (in.)	2
	Service reset*	Caster (deg.)	-
		Camber (deg.)	-
		Toe-in -mm (in.)	-
	Periodic M.V. inspection	Caster (deg.)	-
		Camber (deg.)	-
		Toe-in -mm (in.)	-
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-0° 20'
		Toe-in outside track-mm (in.)	2
	Service reset*	Camber (deg.)	-
		Toe-in -mm (in.)	-
	Periodic M.V. inspection	Camber (deg.)	-
		Toe-in -mm (in.)	-

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

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Analog (Standard)
	Trip odometer (std., opt., n.a.)	Standard
Head-up display	Standard, optional, not available	NA
	Type	Secondary, opto-electronic
	Speedometer	Digital
	Status / warning indicators	Turn signals, high beam, low fuel, check gauges
	Brightness control	Day / night mode, adjustable
	EGR maintenance indicator	NA
Charge indicator	Type	NA
	Warning device (light, audible)	-
Temperature indicator	Type	Gauge
	Warning device (light, audible)	NA
Oil pressure indicator	Type	NA
	Warning device (light, audible)	Light
Fuel indicator	Type	Gauge
	Warning device (light, audible)	Light
Windshield wiper	Type (standard)	2-speed with intermittent
	Type (optional)	NA
	Blade length	-
	Swept area cm ² (in. ²)	-
Windshield washer	Type (standard)	Elec. Pump, 2 Nozzle (4-jet)
	Type (optional)	NA
	Fluid level indicator (light, audible)	Light (Option)
Rear window wiper, wiper/washer (std., opt., n.a.)		Wiper (Standard)
Horn	Type	Electric
	Number used	1
Other		

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Model or Engine Cord / Description		B6E	BPE	BPD
Electrical - Supply System				
Battery	Manufacturer	Nihon battery, Matsushita battery	←	←
	Model, std., (opt.)	55D 23L	←	←
	Voltage	12 V	←	←
	Amps at 0 °F cold crank	356 A	←	←
	Minutes-reserve capacity	99 min.	←	←
	Amps/hrs.-20 hr. rate	60	←	←
	Location	Engine room	←	←
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 _____ °C(°F)	-	-	-
	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.)	Standard	←	←
	Other (specify)	N/A	N/A	N/A
Coil	Manufacturer	Hanshin, Mitsubishi	←	←
	Model	-	-	-
	Current	Engine stopped - A	-	-
		Engine idling - A	-	-
Spark plug	Manufacturer	NGK, Nippon denso	←	←
	Model	BPR5ES11, BPR6ES11 / W16EXR-U11, W20EXR-U11	BKR5E11, BKR6E11 / K16PR-U11, K20PR-U11	BKR5E11, BKR6E11, BKR7E11 / K16PR-U11, K20PR-U11, K22PR-U11
	Thread (mm)	M14 x 1.25	←	←
	Tightening torque N·m (lb.-ft.)	15 to 23 N·m	←	←
	Gap	1.0 to 1.1 mm	←	←
	Number per cylinder	1	←	←
Distributor	Manufacturer	Mitsubishi	←	←
	Model	ESA	←	←
Electrical - Suppression				
Locations & type		High tension cord & spark plug	←	←

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Model or Engine Cord / Description

All models

Body

Structure	Unitized 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.
Tailgate	Material & mass	-
	Type (drop, lift, door)	-
	Internal release control (elec., mech., n.a.)	-
Vent window control (crank, friction, pivot, power)	Front	-
	Rear	-
Window regulator type (cable, tape, flex drive, etc.)	Front	-
	Rear	-
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Bucket
	Rear	Bench
	3rd seat	N/A
Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Bucket
	Rear	60 / 40 split fplding (Protege ; std., 323 ; opt.)
	3rd seat	N/A

Frame

Type and description	Unitized frame
----------------------	----------------

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Model or Engine Cord / Description

All models

Restraint System

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

Glass	SAE Ref. No.	
Windshield glass exposed surface area cm2	S1	-
Side glass exposed surface area cm2 - total 2-sides	S2	-
Backlight glass exposed surface area cm2	S3	-
Total glass exposed surface area cm2	S4	-
Windshield glass (type / thickness)		Laminated
Side glass (type / thickness)		Tempered
Backlight glass (type / thickness)		Tempered
Tinted (yes / no, location)		-
Solar control (yes / no, coated /batched, location)		No

Headlamps

Description (sealed beam, halogen, replaceable bulb, etc.)	Halogen, Replaceable bulb
Shape	Rectangle
Lo-beam type (2A1, 2B1, 2C1, etc.)	HB1
Quantity	2
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB1
Quantity	2

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Model or Engine Code / Description		B6E	BPE	BPD
Climate Control System				
Air conditioning (std., opt., man., auto.)		Manual (opt.)	←	←
Condenser	Type	Serpentine	←	←
	Eff. face area (sq.mm.)	181485	←	←
	Fins per inch	14	←	←
Evaporator	Type	DRON - Cup	←	←
	Eff. face area (sq.mm.)	52640	←	←
	Fins per inch	12	←	←
Heater core	Material	Cu	←	←
	Eff. face area (sq.mm.)	24990	←	←
	Fins per inch	28	←	←
Compressor	Type	Rotary	←	←
	Displacement (cc.)	115	←	←
	Manufacturer	MEI	←	←
	A/C pulley ratio	1.083	←	0.963
Accumulator	Type	-	-	-
	Height (mm.)	-	-	-
	Diameter (mm.)	-	-	-
Receiver	Type	Cylinder type	←	←
	Height (mm.)	145	←	←
	Diameter (mm.)	63.5	←	←
Refrigerant control (CCOT, TVS, etc.)		TVS	←	←
Heater water valve (yes/not)		No	←	←
Refrigerant (R - 12, R - 134a, etc.)		R - 12	←	←
Charge level (lbs. - oz.)		1 lb - 10.5 oz	←	←
Cold engine lockout switch(yes/no)		No	←	←
Wide open throttle cutout switch (yes/no)		-	-	-

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Model or Engine Code / Description

All models

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

Clock (digital, analog)		Digital (323: Option, PROTEGE: Standard)
Compass/thermometer		N/A
Console (floor, overhead)		Floor (Standard)
Defroster, electric windshield		N/A
Defroster, electric backlight		Standard
Electronic	Diagnostic monitor (integrated, individual)	N/A
	Instrument cluster (list instruments)	N/A
	Keyless entry	N/A
	Trip/finder (avg. spd., fuel)	N/A
	Voice alert (list items)	N/A
	Other	Headlamp on Reminder Buzzer
Fuel door lock (remote, key, electric)		Remote
Lamps	Auto head on/off delay, dimming	N/A
	Cornering	N/A
	Courtesy (map, reading)	Option
	Door lock, ignition	Ignition (Option)
	Engine compartment	N/A
	Fog	N/A
	Glove compartment	Standard
	Trunk	Option
	Illuminated entry system (list lamps, activation)	N/A
	Other	N/A
Mirrors	Day/night (auto. man.)	Manual
	L.H. (remote, power, heated)	Power (Option)
	R.H. (convex, remote, power, heated)	Convex (Standard), Power (Option)
	Visor vanity (RH/LH, illuminated)	Option/Option
Navigation system (describe)		NA
Parking brake-auto release (warning light)		NA

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Model or Engine Cord / Description

All models

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

Power equipment	Deck lid (release, pull down)		Cable Release (Standard)
	Door locks (manual, automatic, describe system)		Option
	Seats	2 - 4 - 6 way, etc.	N/A
		Reclining (R.H., L.H.)	N/A
		Memory (R.H., L.H., preset recline)	N/A
		Support (lumbar, hip, thigh, etc.)	N/A
		Heated (R.H., L.H., other)	N/A
	Side windows		Option
Radio system	Vent windows		N/A
	Rear windows		N/A
	Antenna (location, whip, w/shield, power)		LH Roof (Manual)
	Standard		None
	Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM / FM Radio & Cassette Stereo Sound System
	Speaker (number, location)		2-Front Door, 2-Rear Quarter Trim
	Roof: open air or fixed (flip-up, sliding, "T")		Sliding Sun-roof (Option)
	Speed control device		Option
	Speed warning device (light, buzzer, etc.)		N/A
	Tachometer (rpm)		Standard (Except 323 L model)
	Telephone system (describe)		N/A
	Theft deterrent system		N/A

Taller Towing

Towing capable	Yes / No	N/A
Engine/transmission/axle	Std / Opt	-
Tow class (I, II, III)*	Std / Opt	-
Max. gross trailer wgt. (lbs.)	Std / Opt	-
Max. trailer tongue load (lbs.)	Std / Opt	-
Towing package available	Yes / No	-

*Class I - 2,000 lbs. Class II - 3,500 lbs. Class III - 5,000 lbs.

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Vehicle 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 vehicle line. SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Model or Engine Cord / Description		323	Protege
Width	SAE Ref. No.		
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	NA	3430
Tumble-home (degrees)	W122	22.5°	22.0°
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		NA	←
Vehicle height	H101	1345	1340
Cowl point to ground	H114	889	883
Deck point to ground	H138	856	943
Rocker panel-front to ground	H112	158	←
Rocker panel-rear to ground	H111	158	←
Windshield slope angle (degrees)	H122	58.5°	←
Backlight slope angle (degrees)	H121	58.5°	56.0°
Ground Clearance*			
Front bumper to ground	H102	203	203
Rear bumper to ground	H104	266	←
Bumper to ground front at curb mass (wt.)	H103	-	←
Bumper to ground rear at curb mass (wt.)	H105	-	←
Angle of approach (degrees)	H106	16.5°	←
Angle of departure (degrees)	H107	17.0°	15.0°
Ramp breakover angle (degrees)	H147	-	←
Axle differential to ground (front/rear)	H153	-	←
Min. running ground clearance	H156	130	←
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

1994 MY MAZDA 323 / PROTEGE

Vehicle Dimensions

See Key Sheets for definitions

Model or Engine Cord / Description		323	Protege
SAE Ref. No.			
Front Compartment			
SgRP front, "X" coordinate	L31	1325	—
Effective head room	H61	981 (946 with sliding roof)	975 (938 with sliding roof)
Max. eff. leg room (accelerator)	L34	1058	—
SgRP to heel point	H30	254	—
SgRP to heel point	L53	850	—
Back angle (degrees)	L40	20.0°	—
Hip angle (degrees)	L42	90.6°	—
Knee angle (degrees)	L44	123.0°	—
Foot angle (degrees)	L46	87.0°	—
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
Steering wheel maximum diameter*	W9	370	—
Steering wheel angle (degrees)	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	954 (918 with sliding roof)	942 (919 with sliding roof)
Min. effective leg room	L51	869	880
SgRP (second to heel)	H31	300	295
Knee clearance	L48	+15	+28
Shoulder room	W4	1356	1364
Hip room	W6	1210	1307
Upper body opening to ground	H51	N/A	1225
Back angle (degrees)	L41	27.0°	26.0°
Hip angle (degrees)	L43	87.0°	86.0°
Knee angle (degrees)	L45	84.5°	86.5°
Foot angle (degrees)	L47	121.0°	123.0°
Depressed floor covering thickness	H73	10	—

Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	—	370
Liftover height	H195	—	—

Interior Volumes (EPA Classification)

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

*See page 14.

**See definition page 33.

All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Vehicle Dimensions

See Key Sheets for definitions

Model Cord / Description

Station Wagon/MPV* - Third Seat

SAE
Ref. No.

323

Protege

(Not applicable)

(Not applicable)

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 (degrees)	L88	-	-
Hip angle (degrees)	L89	-	-
Knee angle (degrees)	L90	-	-
Foot angle (degrees)	L91	-	-

Station Wagon/MPV* - Cargo Space

(Not applicable)

(Not applicable)

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 m3(ft.3)	V2	-	-
Hidden cargo volume index m3(ft.3)	V4	-	-
Cargo volume index-rear of 2-seat	V10	-	-
Cargo volume index*	V6	-	-
Cargo width at floor*	W500	-	-
Maximum cargo height*	H505	-	-

Hatchback - Cargo Space

(Not applicable)

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 m3(ft.3)	V3	-	-
Hidden cargo volume index m3(ft.3)	V4	-	-
Cargo volume index-rear of 2-seat	V11	0.446	-

All linear dimensions are in millimeters (inches) unless otherwise noted.

*MPV - Multipurpose Vehicle

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

Model Cord /
Description

323

Protege

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location	
Front(1)			
Front(2)			
Rear(1)			
Rear(2)			
Note: Provide 3 of 4 Fiducial Mark Locations			
Front	W21**	-	-
	L54**	-	-
	H81**	-	-
	H161**	-	-
	H163**	266	-
Rear	W22**	-	-
	L55**	-	-
	H82**	-	-
	H162**	266	-
	H164**	-	-

*Reference - SAE Recommended Practice J182a, Motor Vehicle Fiducial Marks.

**Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.

All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

[illegible]

*Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.

****ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certifications.**

Refer to ETWC code legend below for test weight class.

***shipping Mass (weight) = Curb Weight Less:

ETWC LEGEND

A=1000	I=2000	Q=3000	Y=4000
B=1125	J=2125	R=3125	Z=4250
C=1250	K=2250	S=3250	AA=4500
D=1375	L=2375	T=3375	BB=4750
E=1500	M=2500	U=3500	CC=5000
F=1625	N=2625	V=3625	DD=5250
G=1750	O=2750	W=3750	EE=5500
H=1875	P=2875	X=3875	FF=5750

MVMA Specifications

1994 MY MAZDA 323 / PROTEGE

[illegible]

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