

MOTOR VEHICLE

Specifications

METRIC (U.S. Customary)

Passenger Car

1985

Manufacturer Mazda Motor Corporation	Car Line MAZDA GLC	
Mailing Address 3-1, Shinchu, Fuchu-cho Aki-gun, Hiroshima, Japan	Issued Sept. /84	Revised

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

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

MVMA Specifications Form

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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 completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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Model Year 1985 Issued Sept./84 Revised (•) _____

Car Models

Model Description FWD/RWD	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)	
Mazda GLC	3-door Hatchback	BD323E5411 BD323E5511 BD323E5521 BD323E5551 BD323E5561	Manual	2/2	
		BD323E5T11 BD323E5T21 BD323E5T51 BD323E5T61	Automatic		
		5-door Hatchback	BD324E5511 BD324E5521		Manual
			BD324E5T11 BD324E5T21		Automatic
	4-door Sedan	BD322E5411 BD322E5511 BD322E5521 BD322E5551 BD322E5561	Manual		
		BD322E5T11 BD322E5T21 BD322E5T51 BD322E5T61	Automatic		

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

MVMA-C-85

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Engine Description/Carb.
Engine Code

1.4970 Liters

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Type : <u>Inline</u> Location : <u>Front</u> Engine installation position : <u>Transverse</u>
No. of cylinders	<u>4</u>
Bore	<u>77 mm</u>
Stroke	<u>80 mm</u>
Bore spacing (c/l to c/l)	<u>84 - 86 - 84 mm</u>
Cylinder block material	<u>Cast Iron</u>
Cylinder block deck height	<u>205</u>
Deck clearance (minimum) (above or below block)	<u>0</u>
Cylinder head material	<u>Aluminum Alloy</u>
Cylinder head volume (cm ³)	<u>35.2</u>
Head gasket thickness (compressed)	<u>1.20 mm</u>
Minimum combustion chamber total volume (cm ³)	<u>46.6</u>
Cyl. no. system (front to rear)*	L Bank <u>-</u>
	R. Bank <u>-</u>
Firing order	<u>1 - 3 - 4 - 2</u>
Recommended fuel (leaded, unleaded, diesel)	<u>Unleaded</u>
Fuel antiknock index $\frac{(R + M)}{2}$	<u>2</u>
Total dressed engine mass (wt) dry**	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Material : <u>Aluminum Alloy</u> Mass : <u>240</u>
--	---

Engine - Camshaft

Location	<u>In cylinder</u>
Material & mass kg (weight, lbs.)	<u>Cast Iron</u>
Drive type	Chain / belt <u>Chain</u>
	Width / pitch <u>Width : 23.5 , Pitch : 9.525</u>

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

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

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Engine Code

1.490 Liters

Engine - Valve System

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

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]	Material: Steel / Mass: 450
---------------------------------------	-----------------------------

Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]	Material: Cast Iron /
End thrust taken by bearing (no.)	5
Number of main bearings	-

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	350 - 450 kpa at 3000 rpm
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full flow, cartridge
Capacity of crank. less filter-refill-L (qt.)	3.7 Liters

Engine - Diesel Information

N.A.

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

N.A.

Turbo charger - manufacturer	
Super charger - manufacturer	
Charge cooler	

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Engine Description/Carb.
Engine Code

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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		
Coolant fill location (rad., bottle)		
Radiator cap relief valve pressure (kPa (psi))		75 - 105 kpa (11 - 15 psi)
Circulation thermostat	Type (choke, bypass)	Bypass
	Starts to open at °C (°F)	82° ± 1.5°
Water pump	Type (centrifugal, other)	Centrifugal
	GPM 1000 pump rpm	
	Number of pumps	1
	Drive (V-belt, other)	V - belt
	Bearing type	Ball
By-pass recirculation (type (inter., ext.))		Exist
Cooling system capacity	With heater—L.(qt.)	5.5 Liters
	With air cond.—L.(qt.)	5.0 Liters
	Opt. equipment (specify—L.(qt.))	
Water jackets full length of cyl. (yes, no)		No
Water all around cylinder (yes, no)		No
Radiator core	Describe (type, material, no. of rows)	
	Std., A/C, HD	
	Width	598 mm
	Height	300 mm
	Thickness	32 mm
	Fins per inch	
Fan	Std., elec., opt.	
	Number of blades & type (flex, solid, material)	Blades: 4 Type: Electric
	Diameter & projected width	300 mm (11.81 in.)
	Ratio (fan to crankshaft rev.)	
	Fan cutout type	
	Drive (type (direct, remote))	Electric
	RPM at idle (elec.)	2,000 rpm (Voltage 12V, Current 7.7A)
	Motor rating (wattage) (elec.)	
	Motor switch (type & location) (elec.)	
	Switch point (temp., pressure) (elec.)	
	Fan shroud (material)	

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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.		Caburator, Down draft, Two barrel	
Carburetor	Mtgr.		
	Choke (type)	Automatic	
	Idle spd. -rpm (spec. neutral or drive and propane if used)	Manual	850 (Neutral)
		Automatic	750 ("D" range)
Idle A/F mix.			
Fuel injection	Point of injection (no.)		
	Constant, pulse, flow		
	Control (electronic, mech.)		
	System pressure [kPa (psi)]		
Intake manifold heat control (exhaust or water thermostatic or fixed)		Water	
Air cleaner type	Standard	Oil permeated paper	
	Optional		
Fuel pump	Type (elec. or mech.)	Mechanical pump	
	Location (eng., tank)	Engine	
	Pressure range [kPa (psi)]	30 - 42 kpa	

Fuel Tank

Capacity (refill L (gallons))		42.0 Liters
Location (describe)		
Attachment		
Material		
Filler pipe	Location & material	
	Connection to tank	
Fuel line (material)		
Fuel hose (material)		
Return line (material)		
Vapor line (material)		
Extended range tank	Opt., n.a.	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	N.A.
	Capacity [L (gallons)]	-
	Location & material	-
	Attachment	-
	Selector switch or valve	-
	Separate fill	-

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection, Catalist, EGR
	Air Injection	Pump or pulse	Vane
		Driven by	Belt
		Air distribution (head, manifold, etc.)	
		Point of entry	Exhaust manifold & exhaust pipe
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow
		Exhaust source	Exhaust manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake manifold
	Catalytic Converter	Type	Tree way & Oxidation
		Number of	
		Location(s)	Under floor & behind of exhaust manifold
		Volume [L (in ³)]	1.120 Liters & 1.05 Liters
Substrate type		Monolith	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Closed 2 way system with control valve
	Energy source (manifold vacuum, carburetor, other)		Intake manifold
	Discharges (to intake manifold, other)		To intake manifold
	Air inlet (breather cap, other)		Air cleaner
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	Canister (Air vent solenoid valve)
	Vapor storage provision		Canister
Electronic system	Closed loop (yes/no)		
	Open loop (yes/no)		

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator)		1, Reverse flow
Resonator no. & type		-
Exhaust pipe	Branch o.d., wall thickness	
	Main o.d., wall thickness	38.1
	Material	Steel
Inter- mediate pipe	o.d. & wall thickness	38.1
	Material	Steel
Tail pipe	o.d. & wall thickness	38.1
	Material	Steel

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Engine Description/Carb.
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Transmissions/Transaxle

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

Manual Transmission/Transaxle		MT-4	MT-5
Number of forward speeds		4	5
Transmission ratios	In first	3.416	3.416
	In second	1.842	1.842
	In third	1.290	1.290
	In fourth	0.918	0.918
	In fifth	-	0.731
	In overdrive		
	In reverse	3.214	3.214
Synchronous meshing (specify gears)		1, 2, 3, 4	1, 2, 3, 4, 5
Shift lever location		Floor	
Lubricant	Capacity [L (pt.)]	3.2	
	Type recommended	All seasons: A.P.I. GL-4 or GL-5	
	SAE viscosity number	Summer	Above -18°C (0°F): SAE 90 or SAE 80W-90
		Winter	Below -18°C (0°F): A.T.F. M2C33-F
		Extreme cold	

Clutch (Manual Transmission)

* ATF can be used for MTX

Make, type, engagement (describe)		Daikin, Single Dry Plate
Type pressure plate springs		Diaphragm Spring
Total spring load [N (lb.)]		3,340N
No. of clutch driven discs		one
Clutch lacing	Material	Semi mold
	Manufacturer	AKEBONO
	Part number	E502 16 460A
	Rivets/plate	
	Rivet size	4.0 ϕ mm
	Outside & inside dia.	190 x 132 mm (7.48 x 5.20 in.)
	Total eff. area [cm ² (in. ²)]	146 cm ²
	Thickness	3.5 mm (0.331 in.)
Engagement cushion method		Plate-Wave Spring
Release bearing	Type & method of lubrication	Ball Bearing permanently lubricated
Torsional damping	Method: springs, friction material	Coil Spring and Friction Washers

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Engine Description/Carb.
Engine Code

1.490 Liters

Automatic Transmission/Transaxle

Trade name		JATCO F3A
Type and special features (describe)		Torque Converter with automatically Operated Planetary Gear Transmission
Selector	Location	Floor
	Ltr./No. designation	-
Gear ratios	R	2.400
	D	2.841, 1.541, 1.000
	L ₃	-
	L ₂	1.541
	L ₁	2.841, 1.541
Max. upshift speed - drive range (km/h (mph))		110 km/h
Max. kickdown speed - drive range (km/h (mph))		98 km/h
Min. overdrive speed (km/h (mph))		-
Torque converter	Number of elements	3
	Max. ratio at stall	1.80-2.20 : 1
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	236
Lubricant	Capacity (refill L (pt.))	5.8 Liters
	Type Recommended	A.T.F. type F (M2C33-F)
Oil cooler (std., opt., NA, internal, external, air, liquid)		-

Axle or Front Wheel Drive Unit

Type (front, rear)		Front	
Description		Helical gear	
Limited slip differential (type)		N.A.	
Drive pinion offset		-	
Drive pinion (type)		-	
No. of differential pinions		2	
Pinion / differential adjustment (shim, other)		-	
Pinion / differential bearing adjustment (shim, other)		-	
Driving wheel bearing (type)		Tapred roller bearing	
Lubricant	Capacity [L (pt.)]		-
	Type recommended		-
	SAE viscosity number	Summer	-
		Winter	-
		Extreme cold	-

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

Axle ratio (or overall top gear ratio)		3.850 (Manual)	3.631 (Automatic)
No. of teeth	Pinion	20	19
	Ring gear or gear	77	69
Ring gear o.d.		200	180.1
Transaxle	Transfer gear ratio		
	Final drive ratio		

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Engine Description/Carb.
Engine Code

1.490 Liters

Axle Shafts - Front Wheel Drive

Number used		2	
Type (straight, solid bar, tubular, etc.)		Left	Solid bar
		Right	Solid bar
Outer diam. x length* x wall thickness	Manual transmission	Left	25 x 382 mm (0.98 x 15.04 in.)
		Right	25 x 661 mm (0.98 x 26.02 in.)
	Automatic transmission	Left	25 x 382 mm (0.98 x 15.04 in.)
		Right	25 x 661 mm (0.98 x 26.02 in.)
	Optional transmission	Left	-
		Right	-
Slip yoke	Type		-
	Number of teeth		-
	Spline o.d.		-
Universal joints	Make and mfg. no.	Inner	TOYO BEARING
		Outer	TOYO BEARING
	Number used		4
	Type, size, plunge	Inner	
		Outer	
	Attach (u-bolt, clamp, etc.)		Nut
	Bearing	Type (plain, anti-friction)	Anti-Friction
Lubrication (fitting, prepack)		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.

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Propeller Shaft – Conventional Drive N.A.

Type (straight tube, tube-in-tube, internal-external damper, etc.)			
Outer diam. x length* x wall thickness	Manual 3-speed trans.		
	Manual 4-speed trans.		
	Manual 5-speed trans.		
	Overdrive		
	Automatic transmission		
Inter-mediate bearing	Type (plain, anti-friction)		
	Lubrication (fitting, prepack)		
Slip yoke	Type		
	Number of teeth		
	Spline o.d.		
Universal joints	Make and mfg. no.	Front Rear	
	Number used		
	Type (ball and trunnion, cross)		
	Rear attach (u-bolt, clamp, etc.)		
	Bearing	Type (plain, anti-friction)	
		Lubrication (fitting, prepack)	
Drive taken through (torque tube, arms or springs)			
Torque taken through (torque tube, arms or springs)			

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

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Body Type And/Or
Engine Displacement

1.490 Liters

Suspension - General

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

Suspension - Front

Type and description		Independent, Strut Coil Spring
Drive and torque taken through		
Travel	Full jounce	85 mm
	Full rebound	90 mm
Spring	Type (coil, leaf, other) & material	Coil Spring
	Insulators (type & material)	Chromium alloy steel
	Size (coil design height & i.d., bar length x dia.)	Free length x Coil diameter x No. of winding 379.0 x 114 x 7.25 mm
	Spring rate [N/mm (lb./in.)]	1.83 kg/mm
	Rate at wheel [N/mm (lb./in.)]	1.8 kg/mm
Stabilizer	Type (link, linkless, frameless)	Torsion bar
	Material & bar diameter	Carbon steel tube / 27.2 mm

Suspension - Rear

Type and description		Independent, Strut Coil Spring
Drive and torque taken through		-
Travel	Full jounce	90 mm
	Full rebound	120 mm
Spring	Type (coil, leaf, other) & material	Coil / Chromium alloy steel
	Size (length x width, coil design height & i.d., bar length & dia.)	364.5 x 114 (Saloon) 357.5 x 111.7 (Hatchback)
	Spring rate [N/mm (lb./in.)]	1.72 kg/cm ²
	Rate at wheel [N/mm (lb./in.)]	1.9
	Insulators (type & material)	Upper Rubber Cushion
	If leaf	No. of leaves
		Shackle (comp. or tens.)
		-
Stabilizer	Type (link, linkless, frameless)	Torsion bar
	Material & bar diameter	Carbon steel tube / 22.2 mm
Track bar (type)		-

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Body Type And/Or
Engine Displacement

1.490 Liters

Brakes - Service

Description			
Brake type (std., opt., n.a.)	Front (disc or drum)	Disc	
	Rear (disc or drum)	Drum	
Self-adjusting (std., opt., n.a.)		Std.	
Special valving	Type (proportion, delay, metering, other)	Proportion	
Power brake (std., opt., n.a.)		Power assist - Std.	
Booster type (remote, integral, vac., hyd., etc.)		Vacuum	
Vacuum source (inline, pump, etc.)			
Vacuum reservoir (volume in. ³)			
Vacuum pump-type (elec, gear driven, belt driven, if other so state)			
Anti-skid device type (std., opt., n.a.) (F/R)		N.A.	
Effective area [cm ² (in. ²)]*		342.4	
Gross lining area [cm ² (in. ²)]**(F/R)		346.2	
Swept area [cm ² (in. ²)]*** (F/R)		1296.2	
Rotor	Outerworking diameter	F: 227 mm	
	Inner working diameter	F: 11 mm	
	Thickness	F: 11 mm	
	Material & type (vented/solid)	F: R	
Drum	Diameter & width	R: 180 mm	
	Type and material	F: R	
Wheel cylinder bore		F: 53.97 mm R: 17.46 mm	
Master cylinder	Bore/stroke	F: R Bore: 20.64 mm	
Pedal arc ratio		4.62	
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))		96 kg/cm ²	
Lining clearance		F: 0.1 / R: 0.35	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Bonded
		Rivet size	-
		Manufacturer	Japan Brake Industry
		Lining code	B001 33 625
		Material	JB F 50 FF
		**** Primary or out-board	81 x 43.5 x 10 mm
	Rear wheel	Size Secondary or in-board	81 x 43.5 x 10 mm
		Shoe thickness (no lining)	14.5
		Bonded or riveted (rivets/seg.)	Bonded
		Manufacturer	Japan Brake Industry
		Lining code	B001 26 310
		Material	JB J-6020
		**** Primary or out-board	180 x 30 x 4 mm
		Size Secondary or in-board	180 x 30 x 4 mm
Shoe thickness (no lining)		5.6	

*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.

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Body Type And/Or
Engine Displacement

Hatchback & Saloon / 1.490 Liters

Tires And Wheels (Standard)

Tires	Size (load range, ply)		155 SR13
	Type (bias, radial, etc.)		Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front [kPa (psi)]	180 (26)
		Rear [kPa (psi)]	180 (26)
	Rev./mile—at 70 km/h (45 mph)		
Wheels	Type & material		WDC / Steel
	Rim (size & flange type)		4 1/2-J x 13
	Wheel offset		45
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	114.3 mm
		Number & size	4 / M12 x P1.5
Spare	Tire and wheel (same, if other describe)		Same or Temporary space saver
	Storage position & location (describe)		

Tires And Wheels (Optional)

Size (load range, ply)		155 - 13 / 6.15 - 13 4PR
Type (bias, radial, etc.)		Bias
Wheel (type & material)		WDC Steel
Rim (size, flange type and offset)		4 1/2J x 13 45mm
Size (load range, ply)		175 / 70 SR 13
Type (bias, radial, etc.)		Radial
Wheel (type & material)		WDC / Steel
Rim (size, flange type and offset)		5 - J x 13 45 mm
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		T105 / 70D14 - 4 - T x 14

Brakes - Parking

Type of control		Mechanical
Location of control		Floor
Operates on		Rear Wheels
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

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METRIC (U.S. Customary)

Car Line Mazda GLC

Model Year 1985 Issued Sept./84 Revised (e) _____

Body Type And/Or
Engine Displacement

Hatchback & saloon / 1.490 Liters

Steering

Manual (std., opt., n.a.)			Std.
Power (std., opt., n.a.)			N.A.
Adjustable steering wheel (tilt, swing, other)	Type and description		Tilt
	(Std., opt., n.a.)		Opt.
Wheel diameter	Manual		380 mm
	Power		
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	-
		Curb to curb (l. & r.)	912
	Inside rear	Wall to wall (l. & r.)	-
		Curb to curb (l. & r.)	-
Scrub Radius			
Manual	Gear	Type	Rack & Pinion
		Make	NIHON SEIKO
		Ratios	
		Overall	19.9
No. wheel turns (stop to stop)			3.6
Power	Type (coaxial, linkage, etc.)		-
	Make		-
	Gear	Type	-
		Ratios	-
		Overall	-
	Pump (drive)		-
No. wheel turns (stop to stop)			-
Linkage	Type		Rack & Pinion
	Location (front or rear of wheels, other)		Front
	Drag links (trans. or longit.)		-
	Tie rods (one or two)		2
Steering axis	Inclination at camber (deg.)		0° 55' ± 30'
	Bearings (type)	Upper	Ball
		Lower	Ball
		Thrust	None
Steering spindle & joint type			Ball
Wheel spindle	Diameter	Inner bearing	38
		Outer bearing	38
	Thread (size)		M20 x 1.5
	Bearing (type)		Tapered Roller

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Body Type And/Or
Engine Displacement

Hatchback & Saloon / 1.490 Liters

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	
		Camber (deg.)	
		Toe-in (outside track-mm (in.))	
	Service reset*	Caster	
		Camber	
		Toe-in	
	Periodic M.V. inspection	Caster	1° 55'
		Camber	0° 55'
		Toe-in	In 3 mm / Out 3 mm
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	
		Toe-in (outside track-mm (in.))	
	Service reset*	Camber	
		Toe-in	
	Periodic M.V. inspection	Camber	
		Toe-in	

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

Electrical—Instruments and Equipment

Speedometer	Type	Magnetic torque drive
	Trip odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		-
Charge indicator	Type	Lamp
	Warning device	-
Temperature indicator	Type	Bi-metal
	Warning device	-
Oil pressure indicator	Type	Lamp
	Warning device	-
Fuel indicator	Type	Bi-metal
	Warning device	-
Windshield wiper	Type (standard)	Electric, 2 - speed
	Type (optional)	Electric, 2 - speed with intermittent
	Blade length	
	Swept area (cm ² (in. ²))	
Windshield washer	Type (standard)	Electric pump
	Type (optional)	-
	Fluid level indicator	-
Horn	Type	Electric
	Number used	2
Other		

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Engine Description/Carb.
Engine Code

1.490 Liters

Electrical – Supply System

Battery	Make	
	Model, std., (opt.)	50D23L, 50D20L, N540ZAL (California)
	Voltage	12 Volts
	Amps at 0°F cold crank	
	Minutes-reserve capacity	
	Amp/hrs. - 20 hr. rate	60 AMP, 50AMP, or 33 AMP
Generator or alternator	Location	Left front fender
	Type and rating	A / C type
	Ratio (alt. crank/rev.)	1 : 2.4
Regulator	Optional (type & rating)	
	Type	IC

Electrical – Starting System

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

Electrical – Ignition System

Type	Conventional (std., opt., n.a.)		N.A.	
	Electronic (std., opt., n.a.)		Std.	
	Other (specify)		-	
Coil	Make			
	Model			
	Current	Engine stopped - A		
		Engine idling - A		
Spark plug	Make		NGK	MOTOCRAFT
	Model		BPR-5ES, BPR-6ES	ACR-32, AGR-22
	Thread (mm)			
	Tightening torque (N-m (lb., ft.))		15-23 N-m (11 - 17)	
	Gap		0.80 ± 0.05	
	Number per cylinder		-	
Distributor	Make		-	
	Model		-	

Electrical – Suppression

Locations & type	
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 Model Year 1985 Issued Sept./84 Revised (•) _____

Body Type

Hatchback & Sedan

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		
Hood	Hinge location (front, rear)	Front
	Type (counterbalance, prop)	None
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	
	Internal release control (elec., mech., n.a.)	Mech.
Hatch-back lid	Type (counterbalance, other)	
	Internal release control (elec., mech., n.a.)	Mech.
Bumper front	Bar material & mass, kg (weight, lbs.)	
	Reinforcement material & mass, kg (lbs.)	
Bumper rear	Bar material & mass, kg (weight, lbs.)	
	Reinforcement material & mass, kg. (lbs.)	
Vent window control (crank, friction, pivot, power)	Front	None
	Rear	None
Seat cushion type (e.g., 50/40, bucket, bench, wire, foam etc.)	Front	Spring
	Rear	Formed Urethane
	3rd seat	-
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Spring
	Rear	Formed Urethane
	3rd seat	-
Vehicle identification no. location		Left upper surface of the instrument-panel garnish

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)

Partially- unitized frame

Glass

Backlight slope angle (deg.)	H121	
Windshield slope angle (deg.)	H122	
Tumble-Home (deg.)	W122	
Windshield glass exposed surface area (cm ² (in. ²))	S1	
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	
Backlight glass exposed surface area (cm ² (in. ²))	S3	
Total glass exposed surface area (cm ² (in. ²))	S4	
Windshield glass (type)		
Side glass (type)		
Backlight glass (type)		

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Body Type

Hatchback & Sedan

Restraint System

Active restraint system	Standard/optional	Std.
	Type and description	Type 1 & Type 2 Seat Belt Ass'y
	Location	Front: Type 2 Seat Belt Ass'y Rear : Type 1 Seat Belt Ass'y
Passive seat belts	Standard/optional	-
	Power/manual	-
	2 or 3 point	-
	Knee bar/lap belt	-

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Body Type

Hatchback & Sedan

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

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

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mazda GLC

Model Year 1985

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

Body Type	SAE Ref. No.	Hatchback		
		3-door	5-door	Saloon
Width				
Tread (front)	W101	1390	1390	1390
Tread (rear)	W102	1395	1395	1395
Vehicle width	W103	1630	1630	1630
Body width at Sg RP (front)	W117	1590	1590	1590
Vehicle width (front doors open)	W120	3770	3222	3222
Vehicle width (rear doors open)	W121	-	3154	3154
Length				
Wheelbase	L101	2365	2365	2365
Vehicle length	L103	4040	4040	4235
Overhang (front)	L104	818	818	818
Overhang (rear)	L105	857	857	1052
Upper structure length	L123	2611	2611	2393
Rear wheel C/L "X" coordinate	L127	2611	2611	264
Cowl point "X" coordinate	L125	2611	2611	2611
Height*				
Passenger distribution (frt./rear)	PD1,2,3	2/2	2/2	2/2
Trunk/cargo load				
Vehicle height	H101	1375	1375	1375
Cowl point to ground	H114	892	892	892
Deck point to ground	H138	860	860	890
Rocker panel-front to ground	H112	185	185	185
Bottom of door closed-front to grd.	H133	254	254	254
Rocker panel-rear to ground	H111	185	185	185
Bottom of door closed-rear to grd.	H135	-		
Ground Clearance*				
Front bumper to ground	H102	365		
Rear bumper to ground	H104	342		
Bumper to ground (front at curb mass (wt.))	H103			
Bumper to ground (rear at curb mass (wt.))	H105			
Angle of approach (degrees)	H106			
Angle of departure (degrees)	H107			
Ramp breakover angle (degrees)	H147			
Rear axle differential to ground	H153			
Min. running ground clearance	H156			
Location of min. run. grd. clear.				

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mazda GLC

Model Year 1985 Issued Sept./84 Revised (•) _____

Body Type

SAE Ref. No.	Hatchback		
	3-door	5-door	Saloon

Front Compartment

Sg RP front, "X" coordinate	L31			
Effective head room	H61	963	963	963
Max. eff. leg room (accelerator)	L34	1054	1054	1054
Sg RP (front to heel)	H30	245	245	245
Design H-point front travel	L17	179	179	179
Shoulder room	W3	1320	1320	1320
Hip room	W5	1320	1320	1320
Upper body opening to ground	H50	1228	1228	1228
Steering wheel angle	H18	24° 53'	24° 53'	24° 53'
Back angle	L40	24°	24°	24°

Rear Compartment

Sg RP Point couple distance	L50	730	730	730
Effective head room	H63	940	940	940
Min. effective leg room	L51	876	876	876
Sg RP (second to heel)	H31	307	307	307
Knee clearance	L48	-6	-6	-6
Compartment room	L3	646	646	646
Shoulder room	W4	1320	1320	1320
Hip room	W6	1200	1200	1130
Upper body opening to ground	H51	-	1226	1226
Back angle	L41	-	-	-

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	-	-	363
Liftover height	H195	708	708	748

Interior Volumes (EPA Classification)

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

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line Mazda GLC

Model Year 1985 Issued Sept./84 Revised (•) _____

Body Type

SAE
Ref.
No.

3-door H/B

5-door H/B

4-door Saloon

Station Wagon - Third Seat

N.A.

Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Effective T-point head room	H89	
Seat facing direction	S01	
Back angle	L88	

Station Wagon - Cargo Space

N.A.

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index (m ³ (ft. ³))	V2	
Hidden cargo volume (m ³ (ft. ³))	V4	
Cargo volume, index-rear of 2-seat	V10	

Hatchback - Cargo Space

Front seat back to load floor height	H197	360	360	N.A.
Cargo length at front seat back height	L208	1248	1248	N.A.
Cargo length at floor (front)	L209	1467	1467	N.A.
Cargo volume index (m ³ (ft. ³))	V3	0.64	0.64	N.A.
Hidden cargo volume (m ³ (ft. ³))	V4	0.018	0.018	N.A.
Cargo volume index-rear of 2-seat	V11	-	-	-

Aerodynamics*

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

* Describe measurement method.

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Body Type

Hatchback & Saloon

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front	
Rear	
Fiducial Mark Number	
Front	W21 L54 H81 H161 H163
Rear	W22 L55 H82 H162 H164

* Reference - SAE Recommended Practice, J192a, Motor Vehicle Fiducial Marks - September, 1973.
 All linear dimensions are in millimeters (inches).

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Body Type	SAE Ref. No.	3-door H/B	5-door H/B	4-door Saloon
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Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	627	625	624
		Lowest			
	Taillamp (H128)	Highest**	650	644	705
		Lowest			
	Sidemarkers	Front	628	626	625
		Rear	608	602	697
	Headlamp	Inside	486	486	486
		Outside**			
Distance from C/L of car to center of bulb	Taillamp	Inside	435	435	435
		Outside**	577	577	577
	Directional	Front	688	688	688
		Rear	677	677	677
	Headlamp shape		Rectangle	Rectangle	Rectangle

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

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* Reference - SAE J1100a, Motor vehicle dimensions, curb weight definition.
** Shipping mass (weight) definition -

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