

MOTOR VEHICLE

Specifications

METRIC (U.S. Customary)

Passenger Car

1985

Manufacturer Mazda Motor Corporation	Car Line MAZDA RX-7	
Mailing Address 3-1, Shinchí, 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

Passenger Car

METRIC (U.S. Customary)

Table of Contents

1	Car Models
2	Power Teams
3-6	Engine
4	Lubrication System
4	Diesel Information
5	Cooling System
6	Fuel System
7	Vehicle Emission Control
7	Exhaust System
8-10	Transmission, Axles and Shafts
11	Suspension-Front and Rear
12-13	Brakes
13	Tires and Wheels
14-15	Steering
15-16	Electrical
17	Body - Miscellaneous Information
17	Glass
17	Frame
18	Restraint System
19	Convenience Equipment
20-22	Car and Body Dimensions
23	Vehicle Fiducial Marks
24	Lamps and Headlamps
25	Vehicle Mass (Weight)
26	Optional Equipment Differential Mass (Weight)
27-31	Car and Body Dimension Key Sheets
32	Index

NOTE:

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7
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 RX-7 (12B)	2-door Coupe	FB433N2511 FB433N2V11 FB433N2521 FB433N2V21 FB433N2561 FB433N2V61	Manual Automatic Manual Automatic Manual Automatic	2/0 40
Mazda RX-7	2-door Coupe	FB433N3551	Manual	2/0 40

METRIC (U.S. Customary)

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

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.91 in. Hg/100 kPa atmospheric pressure.

MVMA-C-85

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7
Model Year 1985 Issued Sept./84 Revised (•) _____

Engine Description/Carb.
Engine Code

0.573 Liters x 2	0.654 Liters x 2
------------------	------------------

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Type : Rotor Engine (2 rotors) Location : Front Engine Installation position : Longitudinal	
No. of cylinders	2 rotors	
Bore		
Stroke	105 x 15 x 70 mm	
Bore spacing (c/l to c/l)	105 x 15 x 80 mm	
Cylinder block material	Side housing : Cast Iron	
Cylinder block deck height		
Deck clearance (minimum) (above or below block)		
Cylinder head material	Rotor housing : Aluminium alloy	
Cylinder head volume (cm ³)		
Head gasket thickness (compressed)		
Minimum combustion chamber total volume (cm ³)	68	78
Cyl. no. system (front to rear)*	L Bank	
	R Bank	
Firing order	1 - 2	
Recommended fuel (leaded, unleaded, diesel)	Unleaded (Regular)	
Fuel antiknock index $\frac{(R + M)}{2}$	87	
Total dressed engine mass (wt) dry**		

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Rotor material : Cast Iron Rotor Weight : 4.4	Material : Cast Iron Weight :
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Engine - Camshaft

Location	
Material & mass kg (weight, lbs.)	
Drive type	Chain / belt
	Width / pitch

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

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7

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

Engine Description/Carb.
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Engine - Valve System

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

Engine - Connecting Rods

N.A.

Material & mass (kg., (weight, lbs.))		
---------------------------------------	--	--

Engine - Crankshaft

Material & mass (kg., (weight, lbs.))	Special Steel	Special Steel
End thrust taken by bearing (no.)	1	1
Number of main bearings		

Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	450-55- kpa at 3000 rpm	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full flow cartridge	
Capacity of oil sump, less filter-refill-L (qt.)	4.2 Liters	4.4 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

Turbo charger - manufacturer	
Super charger - manufacturer	
Charge cooler	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7
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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		N.A.
Coolant fill location (rad., bottle)		
Radiator cap relief valve pressure (kPa (psi))		90 ± 15 kpa
Circulation thermostat	Type (choke, bypass)	Wax pellet
	Starts to open at °C (°F)	82 ± 15°C
Water pump	Type (centrifugal, other)	Centrifugal impeller
	GPM 1000 pump rpm	150 - 160 Liters / min. at 6500 rpm
	Number of pumps	1
	Drive (V-belt, other)	v - Belt
	Bearing type	Ball
By-pass recirculation [type (inter., ext.)]		Internal
Cooling system capacity	With heater-L.(qt.)	9.5 Liters
	With air cond.-L.(qt.)	8.5 Liters
	Opt. equipment (specify-L.(qt.))	
Water jackets full length of cyl. (yes, no)		Yes
Water all around cylinder (yes, no)		Yes
Radiator core	Describe (type, material, no. of rows)	
	Std., A/C, HD	
	Width	
	Height	
	Thickness	
	Fins per inch	
Fan	Std., elec., opt.	
	Number of blades & type (flex, solid, material)	8
	Diameter & projected width	390 mm
	Ratio (fan to crankshaft rev.)	Less than 900 rpm at 3400 rpm of engine
	Fan cutout type	Fluid coupling
	Drive [type (direct, remote)]	Belt drive --- 1
	RPM at idle (elec.)	
	Motor rating (wattage) (elec.)	
	Motor switch (type & location) (elec.)	
	Switch point (temp., pressure) (elec.)	
	Fan shroud (material)	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7
Model Year 1985 Issued Sept./84 Revised (•) _____

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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.			Carburetor	Fuel injection system
Carburetor	Mfr.			-
	Choke (type)		Manual (Automatic choke release)	-
	Idle spd., rpm (spec. neutral or drive and propane if used)	Manual	750 rpm	-
		Automatic	750 rpm	-
Idle A/F mix.			-	
Fuel injection	Point of injection (no.)		-	2
	Constant, pulse, flow		-	Pulse
	Control (electronic, mech.)		-	Electric
	System pressure (kPa (psi))		-	
Intake manifold heat control (exhaust or water thermostatic or fixed)			Water	N.A.
Air cleaner type	Standard		Paper element	Paper element
	Optional		-	-
Fuel pump	Type (elec. or mech.)		Electrical	Electrical
	Location (eng., tank)		Left side vender floor	Left side vender floor
	Pressure range (kPa (psi))		20 - 25 kpa	343 - 490 kpa

Fuel Tank

Capacity (refill L (gallons))		63	63
Location (describe)			
Attachment			
Material			
Filler pipe	Location & material	Left side rear fender	Left side rear fender
	Connection to tank		
Fuel line (material)			
Fuel hose (material)			
Return line (material)			
Vapor line (material)			
Extended range tank	Opt., n.a.		
	Capacity (L (gallons))		
	Location & material		
	Attachment		
Auxiliary tank	Opt., n.a.		
	Capacity (L (gallons))		
	Location & material		
	Attachment		
	Selector switch or valve		
Separate fill			

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

Car Line Mazda RX-7
 Model Year 1985 Issued Sept./84 Revised (•) _____

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air injection & Catalyst	Air injection & Catalyst
	Air Injection	Pump or pulse	Vane type	Vane type
		Driven by	Air pump drive belt	Air pump drive type
		Air distribution (head, manifold, etc.)	Rotor housing & Catalyst	Rotor housing & Catalyst
		Point of entry	Exhaust port & Catalyst	Exhaust port & Catalyst
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	N.A.	N.A.
		Exhaust source	N.A.	N.A.
		Point of exhaust injection (spacer, carburetor, manifold, other)	N.A.	N.A.
	Catalytic Converter	Type	3-Way & Oxd.	3-Way & Oxd.
		Number of	3	3
		Location(s)	Under floor	Under floor
		Volume [L (in ³)]	2.2, 1.4	2.2, 1.4
		Substrate type		
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Close 2 way system with control valve	Closed 2 way system with control valve
	Energy source (manifold vacuum, carburetor, other)		Ported vacuum	Ported vacuum
	Discharges (to intake manifold, other)		To Intake manifold	To intake manifold
	Air inlet (breather cap, other)		Air cleaner	Air cleaner
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Crankcase & Charcoal canister	
		Carburetor	Crankcase & Charcoal canister	
	Vapor storage provision		Crankcase & Charcoal canister	
Electronic system	Closed loop (yes/no)		No	Yes
	Open loop (yes/no)		Yes	Yes

Engine - Exhaust System

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

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7

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

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Transmissions/Transaxle

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

Manual Transmission/Transaxle

Number of forward speeds		5-speed	5-speed
Transmission ratios	In first	3.622	3.622
	In second	2.186	2.186
	In third	1.419	1.419
	In fourth	1.000	1.000
	In fifth	0.807	0.711
	In overdrive	-	-
	In reverse	3.493	3.493
Synchronous meshing (specify gears)		1, 2, 3, 4, 5	1, 2, 3, 4, 5
Shift lever location		Floor	Floor
Lubricant	Capacity (L (pt.))	2.0 Liters	2.0 Liters
	Type recommended	A.P.I. Service GL-4 or GL-5	
	SAE viscosity number	Summer	Above -18°C : SAE 90 or 80W-90
		Winter	Below -18°C : SAE 80 or 80W-90
		Extreme cold	

Clutch (Manual Transmission)

Make, type, engagement (describe)		DAIKIN, Dry Disc	DAIKIN, Dry Disc
Type pressure plate springs		Diaphragm	Diaphragm
Total spring load (N (lb.))		445 kg	490 kg
No. of clutch driven discs		1	1
Clutch facing	Material	Woven Asbestos	Semi-mold
	Manufacturer	HITACHI KASEI	ASAHI SEKIMEN
	Part number	N203 16 460A	N204 16 460A
	Rivets/plate	-	-
	Rivet size	4.0 ϕ mm	4.0 ϕ mm
	Outside & inside dia.	225 x 150 mm	225 x 150 mm
	Total erf. area (cm ² (in. ²))	221 cm ²	221 cm ²
	Thickness	3.5	3.5, 4.1
Engagement cushion method		Plate-Wave Spring	Plate-Wave Spring
Release bearing	Type & method of lubrication	Ball Bearing permanently lubricated	
Torsional damping	Method: springs, friction material	Coil Spring and Friction Washers	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7
Model Year 1985 Issued Sept./84 Revised (•) _____

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Automatic Transmission/Transaxle

Trade name		JATCO 3N71B
Type and special features (describe)		Torque Converter with automatically operated Planetary Gear Transmission
Selector	Location	Floor
	Ltr./No. designation	-
Gear ratios	R	2.181
	D	2.458, 1.458, 1.000, 0.720
	L ₁	-
	L ₂	1.458
	L ₃	2.458, 1.458
Max. upshift speed - drive range (km/h (mph))		106 km/h (66 mil/h) at D2 3
Max. kickdown speed - drive range (km/h (mph))		96 km/h (60 mil/h) at D3 2
Min. overdrive speed (km/h (mph))		52 km/h (32 mil/h)
Torque converter	Number of elements	3
	Max. ratio at stall	2.000
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	236
Lubricant	Capacity (refill L (pt.))	7.5 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)		Rear
Description		Hypoid Gear Semi-floating
Limited slip differential (type)		
Drive pinion offset		35
Drive pinion (type)		
No. of differential pinions		2
Pinion / differential adjustment (shim, other)		Shim.
Pinion / differential bearing adjustment (shim, other)		Other
Driving wheel bearing (type)		
Lubricant	Capacity [L (pt.)]	1.2 Liters
	Type recommended	A.P.I. Service GL-5
	SAE viscosity number	Summer Above -18°C : SAE 90
		Winter Below -18°C : SAE 80
Extreme cold		

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

Axle ratio (or overall top gear ratio)		3.933	4.076
No. of teeth	Pinion	15	13
	Ring gear or gear	59	53
Ring gear o.d.		184.15	184.15
Transaxle	Transfer gear ratio		
	Final drive ratio		
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MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7

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

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Axle Shafts – Front Wheel Drive

N.A.

Number used		
Type (straight, solid bar, tubular, etc.)	Left	
	Right	
Outer diam. x length* x wall thickness	Manual transmission	Left
		Right
	Automatic transmission	Left
		Right
	Optional transmission	Left
		Right
Spline yoke	Type	
	Number of teeth	
	Spline o.d.	
Universal joints	Make and mfg. no.	Inner
		Outer
	Number used	
	Type, size, plunge	Inner
		Outer
	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 attachment.

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

Car Line Mazda RX-7
 Model Year 1985 Issued Sept./84 Revised (•) _____

Engine Description/Carb.
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Propeller Shaft – Conventional Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans.		N.A.
	Manual 4-speed trans.		N.A.
	Manual 5-speed trans.		
	Overdrive		
	Automatic transmission		
Inter-mediate bearing	Type (plain, anti-friction)		
	Lubrication (fitting, prepack)		
Slip yoke	Type		Sliding Spline
	Number of teeth		
	Spline o.d.		
Universal joints	Make and mfg. no.	Front	HIKARI SEIKO
		Rear	HIKARI SEIKO
	Number used		2
	Type (ball and trunnion, cross)		Cross
	Rear attach (u-bolt, clamp, etc.)		Bolt
	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 rear attachment.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7

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Body Type And/Or
Engine Displacement

0.574 liters x 2

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Suspension – General

Car leveling	Std./opt./n.a.	N.A.	N.A.
	Type (air, hyd., etc.)		
	Manual/auto. controlled		
Provision for brake dip control		Front suspension geometry	Front suspension geometry
Provision for accel. squat control		Rear suspension geometry	Rear suspension geometry
Provisions for car jacking		None	None
Shock absorber (front & rear)	Type	Cylindrical double acting	Cylindrical acting
	Make	F: KAYABA R: TOKIKO	F: KAYABA R: TOKIKO
	Piston diameter	F: 30 R: 35	F: 30 R: 35
	Rod diameter	F: 20 R: 11	F: 20 R: 11

Suspension – Front

Type and description		Independent, strut coil spring	
Drive and torque taken through			
Travel	Full jounce	70	57
	Full rebound	115	115
Spring	Type (coil, leaf, other) & material	Coil / Spring steel	Coil / Spring steel
	Insulators (type & material)		
	Size (coil design height & i.d., bar length & dia.)	RH: 11.0 x 123 x 327.5-4.47 LH: 11.0 x 123 x 336.5-4.47	RH: 11.2 x 123 x 314-4.74 LH: 11.2 x 123 x 323.5-4.74
	Spring rate (N/mm (lb./in.))	2.16 kg/mm	2.16 kg/mm
	Rate at wheel (N/mm (lb./in.))	1.9 kg/mm	1.9 kg/mm
Stabilizer	Type (link, linkless, frameless)	Torsion bar	Torsion bar
	Material & bar diameter	Carbon steel / 23	Carbon steel / 23

Suspension – Rear

Type and description		4 link and watt link	4 link and watt link
Drive and torque taken through			
Travel	Full jounce	70	57
	Full rebound	97	97
Spring	Type (coil, leaf, other) & material	Coil / Spring steel	Coil / Spring steel
	Size (length x width, coil design height & i.d., bar length & dia.)	10.2 x 104.7 x 340.5-5.9	10.2 x 104.7 x 340.5-5.9
	Spring rate (N/mm (lb./in.))	1.6 kg/mm	1.6 kg/mm
	Rate at wheel (N/mm (lb./in.))	1.8 kg/mm	1.8 kg/mm
	Insulators (type & material)	Under rubber cushion	Under rubber cushion
	If leaf	No. of leaves	-
		Shackle (comp. or tens.)	-
Stabilizer	Type (link, linkless, frameless)	Torsion bar	Torsion bar
	Material & bar diameter	Carbon steel / 17 or 15	Carbon steel / 17 or 15
Track bar (type)			

MVMA Specifications Form

Passenger Car

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Car Line Mazda RX-7

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

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Brakes - Service

Description					
Brake type (std., opt., n.a.)		Front (disc or drum)	Disc	Disc	Disc
		Rear (disc or drum)	Disc	Drum	Disc
Self-adjusting (std., opt., n.a.)			N.A.	Std.	Std.
Soecial valving	Type (proportion, delay, metering, other)		Defferential Proportioning Valve		
Power brake (std., opt., n.a.)			Std.	Std.	Std.
Booster type (remote, integral, vac., hyd., etc.)			Integral	Integral	Integral
Vacuum source (inline, pump, etc.)					
Vacuum reservoir (volume in. ³)					
Vacuum pumo-type (elec. gear driven, belt driven, if other so state)					
Anti-skid device type (std., oot., n.a.) (F/R)			N.A.	N.A.	N.A.
Effective area [cm ² (in. ²)]*			266.4 cm ²	539.6 cm ²	-
Gross lining area [cm ² (in. ²)]**(F/R)			275.4 cm ²	542.2 cm ²	-
Swept area [cm ² (in. ²)]*** (F/R)			1191 cm ²	1408 cm ²	-
Rotor	Outerworking diameter	F/R	F: 227 R: 236	F: 227 R: N.A.	F: 250 R: 257
	Inner working diameter	F/R	-	-	-
	Thickness	F/R	F: 18 R: 10	F: 18 R: N.A.	F: 22 R: 20
	Matenal & type (vented/solid)	F/R	Cast Iron	Cast Iron	Cast Iron
Drum	Diameter & width	F/R	N.A.	F: N.A. R: 200	N.A.
	Type and material	F/R	N.A.	Leading & Training Shoes Cast Iron	N.A.
Wheel cylinder bore			F: 50.8 R: 34.93	F: 50.8 R: 19.05	F: 50.8 R: 34.9
Master cylinder	Bore/stroke	F/R	20.64 x 31	20.64 x 31	22.2 x 15
Pedal arc ratio			4.77	4.77	-
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))			8.08	8.08	-
Lining clearance			(F/R) F: 0.1 R: 0.1	F: 0.1 R: 0.15	F: 0.1 R: 0.1
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Integral molded	Integral molded	Integral molded
		Rivet size	N.A.	N.A.	N.A.
		Manufacturer	JAPAN BRAKE KOGYO	JAPAN BRAKE KOGYO	JAPAN BRAKE KOGYO
		Lining code	8871 33 625/725	8871 33 625/725	
		Material	Molded Asbestos	Molded Asbestos	Molded Asbestos
		**** Primary or out-board	85 x 46 x 9	85 x 46 x 9	-
		Size Secondary or in-board	85 x 46 x 9	85 x 46 x 9	
		Shoe thickness (no lining)	14	14	14
	Rear wheel	Bonded or riveted (rivets/seg.)	Integral Molded	Bonded	Integral Molded
		Manufacturer	AKEBONO	JAPAN BRAKE KOGYO	JAPAN BRAKE KOGYO
		Lining code	FA18 26 625/725	FA01 26 310	
		Material	Molded Asbestos	Molded Asbestos	Molded Asbestos
		**** Primary or out-board	84 x 37.4 x 8	200 x 32 x 4	-
		Size Secondary or in-board	84 x 37.4 x 8	200 x 32 x 4	-
		Shoe thickness (no lining)	13	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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Passenger Car
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Car Line Mazda RX-7
 Model Year 1985 Issued Sept./84 Revised (•) _____

Body Type And/Or
 Engine Displacement

0.573 Liters x 2	0.654 Liters x 2
------------------	------------------

Tires And Wheels (Standard)

Tires	Size (load range, ply)		185/70HR 13	205/60VR14
	Type (bias, radial, etc.)		Radial	Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	27 psi	28 psi
		Rear (kPa (psi))	27 psi	28 psi
	Rev./mile—at 70 km/h (45 mph)			
Wheels	Type & material		Disc, Steel	Disc, Aluminum Alloy
	Rim (size & flange type)		5 - J x 13	5 1/2 - JJ x 14
	Wheel offset		25	
	Attachment	Type (bolt or stud)	Bolt	
		Circle diameter	110	
		Number & size	4, M12 x 15	
Spare	Tire and wheel (same, if other describe)		Other	
	Storage position & location (describe)		Trunk room	

Tires And Wheels (Optional)

Size (load range, ply)	165 HR13	205/60VR14
Type (bias, radial, etc.)	Radial	Radial
Wheel (type & material)	Disc, Steel	Disc, Steel
Rim (size, flange type and offset)	185 HR13	
Size (load range, ply)	Radial	
Type (bias, radial, etc.)	Disc, Aluminum Alloy	
Wheel (type & material)	5 1/2 - JJ x 13	
Rim (size, flange type and offset)		
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)	T135 / 70D15, 4 - T x 15	

Brakes - Parking

Type of control		Hand operated parking lever
Location of control		Right side of driver's seat on the floor
Operates on		Rear wheels
If separate from service brakes	Type (internal or external)	-
	Drum diameter	-
	Lining size (length x width x thickness)	-

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

Car Line Mazda RX-7
 Model Year 1985 Issued Sept./84 Revised (•) _____

Body Type And/Or
 Engine Displacement

2 - door Coupe

Steering

Manual (std., opt., n.a.)		Std.	
Power (std., opt., n.a.)		Opt.	
Adjustable steering wheel (tilt, swing, other)	Type and description	-	
	(Std., opt., n.a.)	N.A.	
Wheel diameter	Manual	380 mm	
	Power	380 mm	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	-
		Curb to curb (l. & r.)	9.6
	Inside rear	Wall to wall (l. & r.)	-
		Curb to curb (l. & r.)	-
Scrub Radius			
Manual	Gear	Type	Recirculating ball nut type
		Make	KOYO SEIKO
		Ratios	17 - 20
	Overall	18.5	
		No. wheel turns (stop to stop)	
Power	Type (coaxial, linkage, etc.)		
	Make		
	Gear	Type	
		Ratios	
		Overall	
	Pump (drive)		
No. wheel turns (stop to stop)			
Linkage	Type		Parallelogram, trailing, equal length tie rods
	Location (front or rear of wheels, other)		Rear
	Drag links (trans. or longit.)		Transverse center links
	Tie rods (one or two)		Two
Steering axis	Inclination at camber (deg.)		10° 45'
	Bearings (type)	Upper	Ball bearing
		Lower	Ball joint
		Thrust	None
	Steering spindle & joint type		Ball joint
Wheel spindle	Diameter	Inner bearing	28
		Outer bearing	17.462
	Thread (size)		M16 x P1.5
	Bearing (type)		Tapered roller

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7

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

Body Type And/Or
Engine Displacement

2 - door Coupe
0.573 x 2 & 0.654 x 2

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	Right: 4°10' 30', Left: 3°40' 30'
		Camber	1° 00' 30'
		Toe-in	0 - 6 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	Light
	Warning device	-
Temperature indicator	Type	Bi-metal
	Warning device	-
Oil pressure indicator	Type	Light
	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	
	Sweep area (cm ² (in. ²))	
Windshield washer	Type (standard)	Electric pump
	Type (optional)	
	Fluid level indicator	
Horn	Type	Electric
	Number used	2
Other		

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7
Model Year 1985 Issued Sept./84 Revised (•) _____

Engine Description/Carb.
Engine Code

0.573 Liters x 2 & 0.654 Liters x 2

Electrical – Supply System

Battery	Make	
	Model, std., (opt.)	50D20R, 65D23R
	Voltage	12 Volt
	Amps at 0°F cold crank	
	Minutes-reserve capacity	
	Amp/hrs. - 20 hr. rate	50 amp, 55 amp
Generator or alternator	Location	Left front fender
	Type and rating	12 v - 50 amp
	Ratio (alt. crank/rev.)	1 : 2.08
Regulator	Optional (type & rating)	
	Type	Voltage Control (IC)

Electrical – Starting System

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

Electrical – Ignition System

Type	Conventional (std., opt., n.a.)	N.A.
	Electronic (std., opt., n.a.)	Std.
	Other (specify)	-
Coil	Make	MANSHIN, DIAMOND
	Model	CB-84, FTC-3
	Current	Engine stooped - A Engine idling - A
Spark plug	Make	NGK NIPPON DENSO
	Model	BR7EQ14, BR8EQ14, BP9EQ14 W22, W25, W27EDR14
	Thread (mm)	14 mm
	Tightening torque (N-m (lb., ft.))	13 - 18 N-m
	Gap	1.4 0.05
Distributor	Number per cylinder	
	Make	
	Model	

Electrical – Suppression

Locations & type

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line Mazda RX-7
Model Year 1985 Issued Sept./84 Revised (•) _____

Body Type

2 - door Coupe

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.)	
Hatch-back lid	Type (counterbalance, other)	
	Internal release control (elec., mech., n.a.)	
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., 60/40, bucket, bench, wire, foam etc.)	Front	Spring Type
	Rear	None
	3rd seat	None
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Spring
	Rear	None
	3rd seat	None
Vehicle identification no. location		Left upper surface of instrument-panel garnish

Frame

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

Glass

Backlight slope angle (deg.)	H121	67°
Windshield slope angle (deg.)	H122	59°
Tumble-Home (deg.)	W122	28°
Windshield glass exposed surface area (cm ² (in. ²))	S1	7840
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	6280
Backlight glass exposed surface area (cm ² (in. ²))	S3	8890
Total glass exposed surface area (cm ² (in. ²))	S4	23010
Windshield glass (type)		Single, curved, laminated safety glass
Side glass (type)		Curved safety glass
Backlight glass (type)		Single, curved, heat-treated safety glass

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

Car Line Mazda RX-7
 Model Year 1985 Issued Sept./84 Revised (•) _____

Body Type

2 - door Coupe

Restraint System

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

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

Car Line Mazda RX-7
 Model Year 1985 Issued Sept./84 Revised (*) _____

Body Type

2-door Coupe

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

Air conditioning (manual, auto, temp control)		Opt.
Clock (digital, analog)		Std.
Compass / thermometer		N.A.
Console (floor, overhead)		
Defroster, elec. backlight		Def./Std.
Electronic	Diagnostic warning (integrated, individual)	
	Instrument cluster (list instruments)	
	Keyless entry	
	Trip/finder (avg. sod., fuel)	
	Voice alert (list items)	
	Other	
Fuel door lock (remote, key, electric)		Std. (electric)
Lamps	Auto head on / off delay, dimming	Opt.
	Cornering	N.A.
	Courtesy (map, reading)	
	Door lock, ignition	Opt.
	Engine compartment	
	Fog	N.A.
	Glove compartment	
	Trunk	
	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	
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	Seat (2-way) Lumber/Std. Reclining/Std.
	Side windows	Opt.
	Vent windows	
	Rear window	
Radio systems	Antenna (location, whip, w/shield, power)	Std.
	AM, FM, stereo, tape, CB	Opt. (AM/FM, Stereo)
	Speaker (number, location) Premium sound	
Roof open air: fixed (flip-up, sliding, "T")		Opt. (Detachable)
Speed control device		Opt.
Speed warning device (light, buzzer, etc.)		N.A.
Tachometer (rpm)		Std.
Theft protection-type		Steering Lock

MVMA Specifications Form

Passenger Car

Car Line Mazda RX-7

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

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

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

Body Type

SAE
Ref.
No.

2 - door Coupe

Width

Tread (front)	W101	1420
Tread (rear)	W102	1400
Vehicle width	W103	1675(with side protector) 1650(without side protector)
Body width at Sg RP (front)	W117	
Vehicle width (front doors open)	W120	3740
Vehicle width (rear doors open)	W121	-

Length

Wheelbase	L101	2420
Vehicle length	L103	4320
Overhang (front)	L104	935
Overhang (rear)	L105	965
Upper structure length	L123	
Rear wheel C/L "X" coordinate	L127	
Cowl point "X" coordinate	L125	

Height*

Passenger distribution (frt./rear)	PD1.2.3	2 / 0
Trunk/cargo load		40 lbs
Vehicle height	H101	1260
Cowl point to ground	H114	
Deck point to ground	H133	
Rocker panel-front to ground	H112	
Bottom of door closed-front to grd.	H133	
Rocker panel-rear to ground	H111	
Bottom of door closed-rear to grd.	H135	

Ground Clearance*

Front bumper to ground	H102	
Rear bumper to ground	H104	
Bumper to ground (front at curb mass (wt.))	H103	
Bumper to ground (rear at curb mass (wt.))	H105	
Angle of approach (degrees)	H106	
Angle of departure (degrees)	H107	
Ramp breakover angle (degrees)	H147	
Rear axle differential to ground	H153	
Min. running ground clearance	H156	160
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 RX-7

Model Year 1985

Issued Sept./84

Revised (•) _____

Body Type

SAE
Ref.
No.

2 - door Coupe

Front Compartment

Sg RP front, "X" coordinate	L31	2555	
Effective head room	H61	945	935 (with Detachable Top)
Max. eff. leg room (accelerator)	L34	1055	
Sg RP (front to heel)	H30	-	
Design H-point front travel	L17	-	
Shoulder room	W3	1305	
Hip room	W5	1265	
Upper body opening to ground	H50	-	
Steering wheel angle	H18	-	
Back angle	L40	24°	

Rear Compartment

N.A.

Sg RP Point coupe distance	L50		
Effective head room	H63		
Min. effective leg room	L51		
Sg RP (second to heel)	H31		
Knee clearance	L48		
Compartment room	L3		
Shoulder room	W4		
Hip room	W6		
Upper body opening to ground	H51		
Back angle	L41		

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	
Liftover height	H195	

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 RX-7

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

Body Type

SAE
Ref.
No.

Station Wagon - Third Seat

Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Effective T-point head room	H89	
Seat facing direction	SD1	
Back angle	L88	

Station Wagon - Cargo Space

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
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	
Cargo length at front seat back height	L208	
Cargo length at floor (front)	L209	
Cargo volume index (m ³ (ft. ³))	V3	
Hidden cargo volume (m ³ (ft. ³))	V4	
Cargo volume index-rear of 2-seat	V11	

Aerodynamics*

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

* Describe measurement method.

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

Car Line Mazda RX-7
 Model Year 1985 Issued Sept./84 Revised (•) _____

Body Type

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, J182a, Motor Vehicle Fiducial Marks - September, 1973.
 All linear dimensions are in millimeters (inches).

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

Car Line Mazda RX-7
 Model Year 1985 Issued Sept./84 Revised (•) _____

Body Type

SAE Ref. No.	2 - door Coupe
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Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (H127)	Highest**	703 (Automatic)	696 (Manual)
		Lowest	-	
	Taillamp (H128)	Highest**	635 (Automatic)	638 (Manual)
		Lowest	-	
	Sidemarker	Front	509 (Automatic)	502 (Manual)
		Rear	524 (Automatic)	527 (Manual)
Distance from C.L. of car to center of bulb	Headlamp	Inside	-	
		Outside**	555	
	Taillamp	Inside	-	
		Outside**	537	
	Directional	Front	655	
		Rear	642	
Headlamp shape			Circle	

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

METRIC (U.S. Customary)

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

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

METRIC (U.S. Customary)

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

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