



2006 MAZDA RX-8 SPECIFICATION DECK

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PRODUCTION TIMING:

Job #1: January, 2006
Job #1 "Shinka": February, 2006

LINEUP:

6-SPEED SPORT AUTOMATIC TRANSMISSION
6-SPEED MANUAL TRANSMISSION

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2006 MAZDA RX-8 PRODUCT CHANGES

OVERVIEW

New 6 speed automatic transmission with Adaptive Shift Logic
6 AT model power increase to 212 HP (ilo 197 HP)
Mazda Advanced Keyless Entry and Start System included with GT1/GT2 and SV1/SV2 packages
New leather/Alcantara seating with Shinka (SV1/SV2) packages
New SAE HP calculation method results in 232HP for MT models (ilo 238HP)

MODEL / SERIES / AVAILABILITY

- Shinka special edition now available as an option package rather than as a trim level

EXTERIOR CHANGES

- **Colors Added:**
 - Phantom Blue (32C)
 - Galaxy Gray (32S)
 - Copper Red (32V) *
- **Colors Deleted:**
 - Titanium Gray Metallic
 - Nordic Green Mica

INTERIOR CHANGES

- New leather / Alcantara® seating with "SHINKA" (SV1/SV2) packages
- New AT Shift Knob, leather wrapped w/silver accent (See picture)

FUNCTIONAL CHANGES

- Mazda advanced keyless entry and start system in 1GT / 2GT and 1SV/2SV packages
- New 6 speed automatic transmission with Adaptive Shift Logic
- Horsepower upgrade for A/T model (212 ilo 197)
- Horsepower adjustment for MT model (232 ilo 238)

SAFETY CHANGES

- No changes for 2006

NEW PACKAGE / OPTION CHANGES

- Shinka special edition now available as an option package rather than as a trim level

New 6AT



Old 4AT



* Copper Red exclusively available with 1SV / 2SV packages

Product Changes and Features Availability

Features, options and package content subject to change.

Alcantara® is non-woven suede made of Microfiber by TORAY INDUSTRIES, INC.

2006 MAZDA RX-8 PRODUCT SUMMARY

The 2006 RX-8 program adds exciting features like a new 6-speed automatic transmission and an optional Mazda advanced keyless entry and start system

The following equipment is standard as indicated. Each series includes the standard equipment of the previous series, except where additions / exceptions are noted:

<p><u>Functional / Powertrain</u></p> <ul style="list-style-type: none"> ● 1.3L Rotary engine with 212 horsepower ● 6-speed sport automatic transmission w/paddle shifters and Adaptive Shift Logic ● Anti-lock brake system w/EBD ● Direct drive electronically assisted steering ● Front and rear stabilizer bars ● Independent front double-wishbone suspension / rear multi-link suspension ● Power assist 4-wheel ventilated disc brakes ● Strut tower brace <p><u>Exterior</u></p> <ul style="list-style-type: none"> ● 16-inch aluminum alloy wheels with locks ● 225/55R16 tires ● Dual chrome tailpipe garnish ● Dual power mirrors ● Free style doors ● Rear window defogger ● Rear window integrated radio antenna ● Variable intermittent windshield wipers <p><u>Interior</u></p> <ul style="list-style-type: none"> ● Air conditioning ● AM/FM/CD stereo with 6-speakers ● Center console with power outlet ● Instrument panel display with clock, audio, HVAC, outside temp ● Cloth trimmed upholstery and door panels ● Cruise control ● Cup holders - 4 ● Floor mats - carpeted with RX-8 insignia ● Gauges - black w/chrome bezels & white lettering; blue LED with red nighttime gauge illumination ● Internal releases - fuel door, trunk, hood ● Rear bucket seats with rear seat trunk pass through ● Reclining front bucket seats ● Scuff plates - black w/aluminum accents ● Steering wheel mounted controls - audio, cruise ● Steering wheel - tilt, leather wrapped ● Shift knob - leather wrapped w/silver accent ● Overhead console with sunglasses holder ● Power door locks - driver / passenger w/illuminated switches ● Power windows - driver / passenger w/illuminated switches ● Tire pressure monitoring system ● Vanity mirrors - driver & passenger, illuminated <p><u>Safety</u></p> <ul style="list-style-type: none"> ● Air bags: front/side/curtain for driver & front passenger ● Alarm with immobilizer ● Front seatbelts - 3-point with pretensioners & force limiters 	<p><i>All 6-speed sport automatic content, plus or in place of:</i></p> <p><u>Functional / Powertrain</u></p> <ul style="list-style-type: none"> ● 1.3L Rotary engine with 232 horsepower ● 6-Speed manual overdrive transmission with short throw shifter ● Sport tuned suspension ● Tochigi Fuji torque sensing limited slip rear differential <p><u>Exterior</u></p> <ul style="list-style-type: none"> ● 18-inch aluminum alloy wheels with locks ● 225/45R18 tires <p><u>Interior</u></p> <ul style="list-style-type: none"> ● Foot pedals - aluminum (includes foot rest) ● Shift knob - leather wrapped aluminum <p><u>Safety</u></p>

Product Changes and Features Availability

2006 MAZDA RX-8 EQUIPMENT AND FEATURES

	6-SPEED SPORT AUTOMATIC 1.3L Rotary - 212HP RX8 SA	6-SPEED MANUAL 1.3L Rotary - 232HP RX8 6P
POWERTRAIN		
Exhaust, single with dual outlets	Std.	Std.
Rear wheel drive	Std.	Std.
Transmission, 6-speed automatic with paddle shifters and Adaptive Shift Logic	Std.	-
Transmission, 6-speed manual overdrive (short throw shifter)	-	Std.
Variable dynamic effect intake system	Std.	Std.
Light weight carbon fiber driveshaft	-	Std.
SUSPENSION		
Brakes, anti-lock with electronic brakeforce distribution (ABS)	Std.	Std.
Brakes, 12.7" front	Pkg.	Std.
Brakes, power-assisted 4-wheel ventilated disc brakes	Std.	Std.
Dynamic Stability Control (DSC) with traction control	Pkg.	Pkg.
Front - independent double wishbone	Std.	Std.
Rear - independent multi-link suspension	Std.	Std.
Shock absorbers, gas filled front and rear	Std.	Std.
Sport tuned suspension, front & rear	Pkg.	Std.
Stabilizer bar, front	Std.	Std.
Stabilizer bar, rear	Std.	Std.
Steering, direct drive electronically assisted	Std.	Std.
Suspension cross members, urethane foam injected	Pkg.	Pkg.
Wheels / Tires, 16" aluminum alloy with 225/55 R16 tires	Std.	N/A
Wheels / Tires, 18" aluminum alloy with 225/45 R18 tires	Pkg.	Std.
Tochigi Fuji torque sensing limited-slip differential	Pkg.	Std.
Wheel locks	Std.	Std.
EXTERIOR FEATURES		
Antenna, mounted in rear glass	Std.	Std.
Body colored, front & rear bumpers, door handles	Std.	Std.
Fog lights, front	Pkg.	Pkg.
Headlights, halogen	Std.	Std.
Headlights, auto leveling gas-discharge (xenon)	Pkg.	Pkg.
Mazda advanced keyless entry and start system	Pkg.	Pkg.
Remote keyless illuminated entry	Std.	Std.
Mirrors, dual power remote / body colored	Std.	Std.
Mirrors, heated dual power remote / body colored	Pkg.	Pkg.
Windshield, heat absorbent glass / tinted with sunshade	Std.	Std.
Wipers, variable intermittent	Std.	Std.
INTERIOR FEATURES		
Alarm system with engine immobilizer	Std.	Std.
Air bags, driver and passenger front, side, head curtain	Std.	Std.
Air Conditioning, CFC-Free	Std.	Std.
Cigarette lighter with ash tray	Std.	Std.
Cruise control with steering wheel mounted controls	Std.	Std.
Cup holders, 2 front / 2 rear	Std.	Std.
Defogger, rear window with auto shutoff	Std.	Std.
Demisters, front side windows	Std.	Std.
Door locks, power with front passenger switch illumination	Std.	Std.
Foot pedals, aluminum including foot rest	-	Std.
Floor Mats, carpeted front/rear	Std.	Std.
Heater/Defroster, with rear duct	Std.	Std.
Ignition key illumination	Std.	Std.
Lamp courtesy, door / overhead dimming	Std.	Std.
Map lights	Std.	Std.
Mirror, vanity / driver & passenger / illuminated	Std.	Std.
Mirror, rear view day/night	Std.	Std.
Mirror, rear view autodim with HomeLink®	Pkg.	Pkg.
DVD Navigation system with retractable 7" LCD screen	Opt.	Opt.
Power windows, illuminated switches with driver's one-touch-down feature	Std.	Std.
Power outlet	Std.	Std.
Remote releases, trunk lid / fuel door / hood	Std.	Std.
Parking brake, urethane handle with bright button	Std.	Std.

2006 MAZDA RX-8 EQUIPMENT AND FEATURES

6-SPEED SPORT AUTOMATIC

1.3L Rotary - 212HP

RX8 SA

6-SPEED MANUAL

1.3L Rotary - 232HP

RX8 6P

INTERIOR FEATURES (cont.)

Seats, bucket type with integrated head restraints	Std.	Std.
Seats, heated (front)	Pkg.	Pkg.
Seats, power driver seat (8 way)	Pkg.	Pkg.
Seat upholstery, cloth with cloth door trim	Std.	Std.
Seat upholstery, leather with faux leather door trim	Pkg.	Pkg.
Seat upholstery, leather with Alcantara® inserts and faux leather door trim	Pkg.	Pkg.
Scuff plates, black with aluminum accents	Std.	Std.
Shift knob:		
Shift knob, aluminum and leather wrapped	-	Std.
Shift knob, leather wrapped w/silver accent	Std.	-
Steering Wheel, leather wrapped with tilt	Std.	Std.
Storage console, overhead with sunglasses holder	Std.	Std.
Glove box, illuminated & locking	Std.	Std.
Rear storage console with lid	Std.	Std.
Tire pressure monitoring system	Std.	Std.
Trip odometer, two resettable	Std.	Std.
Warning lamps: air bags, battery, brake, engine, fuel, high-beam, oil, seat belt, tire pressure	Std.	Std.
AUDIO FEATURES		
AM/FM stereo w/single CD player and six speakers	Std.	Std.
Bose® 9-speaker sound system	Pkg.	Pkg.
Cassette player	PIO	PIO
In-dash 6-CD changer	PIO/Pkg.	PIO/Pkg.
SIRIUS Satellite Radio System with 1 year free subscription	PIO/Pkg.	PIO/Pkg.

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2006 MAZDA RX-8
PACKAGES AND OPTIONS

	6-SPEED SPORT AUTOMATIC 1.3L Rotary - 212HP RX8 SA	6-SPEED MANUAL 1.3L Rotary - 232HP RX8 6P
Sports Package Xenon headlights DSC with traction control Fog lamps Tochigi Fuji Limited Slip Differential* 18" alloy wheels and 225/45R18 tires* Larger brakes* Sport Tuned suspension*	Opt. (2SP)	Opt. (1SP)
Touring Package Contents of Sports Package (1SP/2SP) plus: BOSE® 9-speaker audio system Autodim mirror with HomeLink® Moonroof	Opt. (2TR)	Opt. (1TR)
Grand Touring Package Contents of Touring Package (1TR/2TR) plus: Leather trimmed upholstery Faux leather door trim 8-way power driver's seat Heated front seats Driver's seat lumbar support Heated mirrors Mazda advanced keyless entry and start system	Opt. (2GT)	Opt. (1GT)
"SHINKA" Special Edition Package Contents of Grand Touring Package (1GT/2GT) plus: SIRIUS Satellite Radio System with 1 year subscription (N/A Hawaii/Alaska) Urethane foam injected suspension cross members Unique combination leather/Alcantara® seating surfaces 6-Disc in dash CD changer Bright finish alloy wheels Leather wrapped parking brake handle with bright tip "Shinka" B-pillar applique	Opt (2SV)	Opt (1SV)
Navigation System	Opt (NV1) SV1/SV2	Opt (NV1) N/A with SV1/SV2

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* standard with the 6-speed manual transmission

2006 MAZDA RX-8

ACCESSORIES

		6-SPEED SPORT AUTOMATIC 1.3L Rotary - 212HP RX8 SA	6-SPEED MANUAL 1.3L Rotary - 232HP RX8 6P
AUDIO / VISUAL ELECTRONICS			
SAX	Satellite Radio Credit	PIO (Alaska/Hawaii Only)	PIO (Alaska/Hawaii Only)
CDC	In-Dash 6-Disc CD Changer	PIO (N/A with 2SV)	PIO (N/A with 1SV)
CAS	Cassette Player	PIO	PIO
EXTERIOR			
SSU	Alarm Shock Sensor Upgrade	PIO	PIO
2AP	Appearance Package Front air dam Side aero flares Rear aero flares	PIO (N/A with MGB)	PIO (N/A with MGB)
DEG	Door Edge Guards	PIO	PIO
MND	Moonroof Wind Deflector	PIO (Requires 2TR, 2GT, or 2SV)	PIO (Requires 1TR, 1GT, or 1SV)
RSW	Rear Wing Spoiler	PIO	PIO
2RP	Rotary Accent Package Polished front rotary accent Polished rear rotary accent Polished fender strakes	PIO	PIO
MGB	Splash Guards, Front/Rear	PIO (N/A with 2AP)	PIO (N/A with 2AP)
INTERIOR			
STR	Spare Tire Kit	PIO	PIO
FLA	All Weather Floor Mats	PIO	PIO
CGN	Cargo Net	PIO	PIO
CGO	Cargo Organizer	PIO	PIO
CGT	Cargo Tray	PIO	PIO
CGC	Collapsible Cargo Carrier	PIO	PIO

2006 MAZDA RX-8 COLOR AND TRIM

INTERIOR TRIM TYPE		INTERIOR TRIM COLORS			
		Black	Black / Red	Black / Chaparral	Sand (Shinka)
	Cloth	FF6	--	--	--
1GT / 2GT	Leather	FF3	FF4	FF5	--
1SV / 2SV	Leather / Alcantara®	--	--	--	FF9
CODE	EXTERIOR COLOR	AVAILABILITY			
22V	Sunlight Silver Metallic	●	●	★	
25D	Snowflake White Pearl	●	●		★
27A	Velocity Red Mica	●	●	●	
32V	Copper Red				★
27B	Winning Blue Metallic	●			
32C	Phantom Blue Mica	★			
32S	Galaxy Gray Mica	★	★	★	★
A3F	Brilliant Black Clearcoat	●	●	●	★

LEGEND:
★ = New for this model year
● = Available

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Shinka is available in 4 exterior colors, Snowflake White Pearl, Copper Red, Galaxy Gray Mica, and Brilliant Black Clearcoat



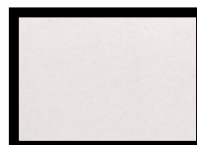
Sunlight Silver Metallic



Winning Blue Metallic



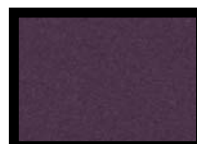
Phantom Blue Mica



Snowflake White Pearl



Brilliant Black Clearcoat



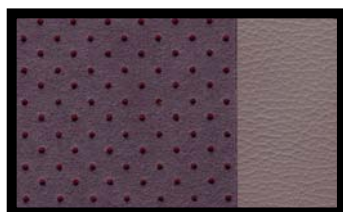
Galaxy Gray Mica



Velocity Red Mica



Copper Red



Sand Leather / Alcantara®

2006 MAZDA RX-8 SPECIFICATIONS

	6-SPEED SPORT AUTOMATIC	6-SPEED MANUAL
	1.3L Rotary - 212HP	1.3L Rotary - 232HP
	RX8 SA	RX8 6P
ENGINE		
Engine Type	1.3 liter RENESIS 2-rotor rotary	1.3 liter RENESIS 2-rotor rotary
Horsepower, SAE net	212 @ 7,500	232 @ 8,500
Torque, SAE net (lb./ft.)	159 @ 5,500	159 @ 5,500
Redline	7,500	9,000
Displacement (L)	0.654L x 2	0.654L x 2
Bore x Stroke (inches)	N/A	N/A
Compression Ratio	10.0 : 1	10.0 : 1
Cylinder Heads	N/A	N/A
0-60mph Acceleration (sec)	8.4	6
FUEL SYSTEM		
Fuel Injection	Multi-port electronic fuel injection	
Recommended Fuel	Premium Unleaded	
Minimum Fuel Requirement (rating)	91 octane	
Emission Control	LEV2-B CAL / Bin5-B Federal	
IGNITION SYSTEM		
System	Pointless electronic	
Alternator	12V - 100A	
Battery	75D/23L	
Starter	12V-2.0kw	12V-2.0kw
DRIVETRAIN		
Type	Rear-Wheel Drive (RWD)	
Transmissions	6-speed electronic automatic	6-speed manual
Clutch Type for Manual Transmission	N/A	Single dry plate with diaphragm spring
Clutch Size	N/A	236x160
Gear Ratios (:1)		
1st	3.358	3.760
2nd	2.060	2.269
3rd	1.404	1.645
4th	1.000	1.187
5th	0.713	1.000
6th	0.582	0.843
Reverse	3.168	3.564
Final Drive	4.300	4.444
CHASSIS		
Body Type	Unibody with front and rear suspension subframe	
Front Suspension	Double wishbone	
Rear Suspension	Multi-link	
Steering Type	Rack-and-pinion	
Power Assist	Direct-drive electronic power steering	
Overall Steering Ratio	16.43:1	
Steering Wheel Turns-to-Lock	2.99	
Turning Circle, Curb-to-Curb (feet)	34.8	
Turning Circle, Wall-to-wall (feet)	36.8	
Braking System	Power assist; 4-wheel Anti-Lock Brake System with Electronic Brakeforce	
Front Brakes	Ventilated discs (11.9 inches)	Ventilated discs (12.7 inches)
Rear Brakes	Ventilated discs (11.9 inches)	
Parking Brake	Mechanical (lever-type)	
TIRES & WHEELS		
Tires	225/55R16	225/45R18
Wheels	16x7.5J	18x8JJ
Tire Brand	Bridgestone	
Temporary Spare Tire	N/A	
Temporary Spare Wheel	N/A	

2006 MAZDA RX-8 SPECIFICATIONS

	6-SPEED SPORT AUTOMATIC	6-SPEED MANUAL
	1.3L Rotary - 212HP	1.3L Rotary - 232HP
	RX8 SA	RX8 6P
INTERIOR DIMENSIONS		
Seating Capacity	4	
Headroom without Moonroof, front/rear (inches)	38.2 / 36.8	
Headroom with Moonroof, front/rear (inches)	36.7 / 36.5	
Shoulder Room, front/rear (inches)	54.8 / 54.9	
Leg Room, front/rear (inches)	42.7 / 32.2	
Hip Room, front/rear (inches)	53.3 / 48.1	
EXTERIOR DIMENSIONS		
Wheelbase (inches)	106.4	
Track, front (inches)	58.9	
Track, rear (inches)	59.3	
Length (inches)	174.3	
Width (inches)	69.7	
Height (inches)	52.8	
Minimum Ground Clearance, laden (inches)	4.7	
Coefficient of Drag (cd)	0.31	
WEIGHTS		
Weight Distribution, % front: rear	50 / 50	
Curb Weight, Federal Spec (lbs.)	3075	3045
GVWR (lbs.)	3854	3810
CAPACITIES		
Oil (U.S. quarts)	6.7	6.7
Engine Coolant (U.S. quarts)	8.7	
Fuel Tank (gallons)	15.9	
Passenger Volume, EPA (cubic feet)	89	
Cargo Volume, SAE (cubic feet)	7.575	
EPA Vehicle Size Category	Subcompact	
FUEL ECONOMY		
EPA Mileage, City/Highway (mpg)	18 / 25	18 / 24