IN MOTION

Mazda RX-3 | Rotary Power

Mazda RX-3 coupe and sedan.
The rotary engine is standard and so is its beautifully crafted interior.

Whichever body version of Mazda RX-3 you choose, you'll be getting the greatest automotive innovation of the century along with it.

A Mazda rotary engine.

Our rotary engine is simpler and smoother, yet far more efficient, than anything you've driven before.

You'll probably feel too, that it's the quietest and most vibration-free small engine you've ever driven.

But that's not all.

In addition to exceptional going power, Mazda RX-3 also has exceptional stopping power. It comes from having power-assisted disc brakes at front with drums at the rear. We put in dual brake circuits too for extra safety (so if one should fail, the other will still operate).

Standard equipment includes reclining front bucket seats with integral head restraints. Roomy rear seat. Full carpeting. Flow-through ventilation.

Non-reflect tachometer and speedometer with trip odometer. Ammeter, temperature and fuel gauges. Smooth four-speed floor shift. Responsive, variable ratio steering. Radial-ply tires. Even a cigar lighter.

So you can see that in addition to being a smoother and quieter car.

The new RX-3 is a more complete car, too.
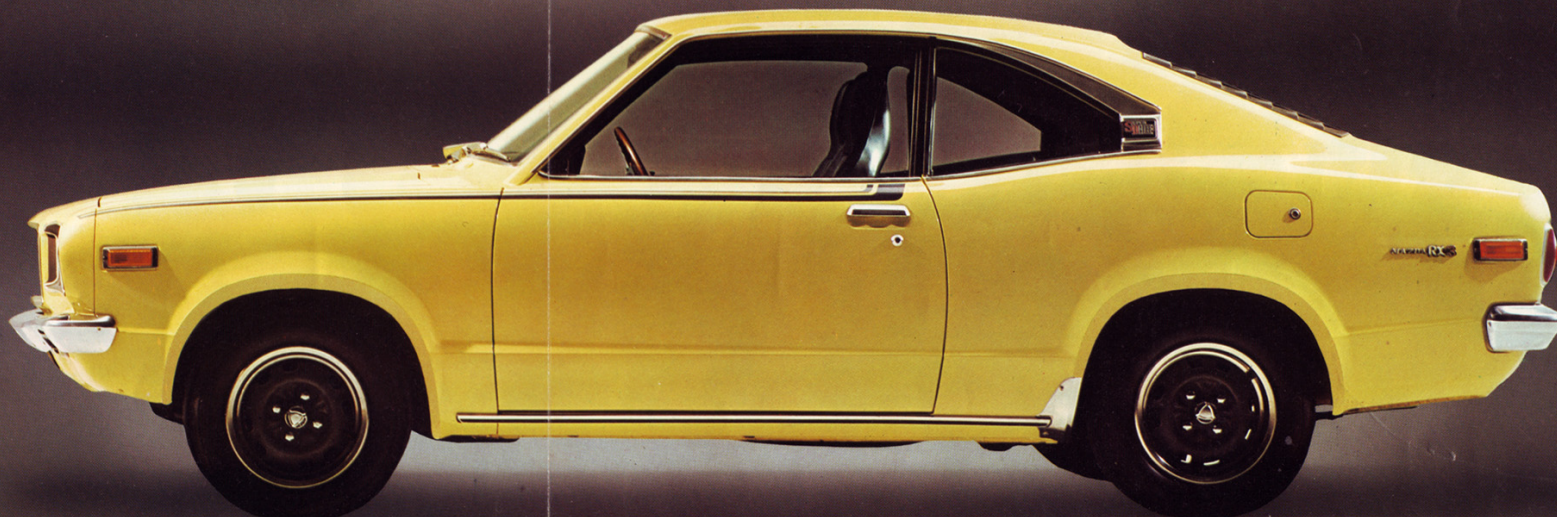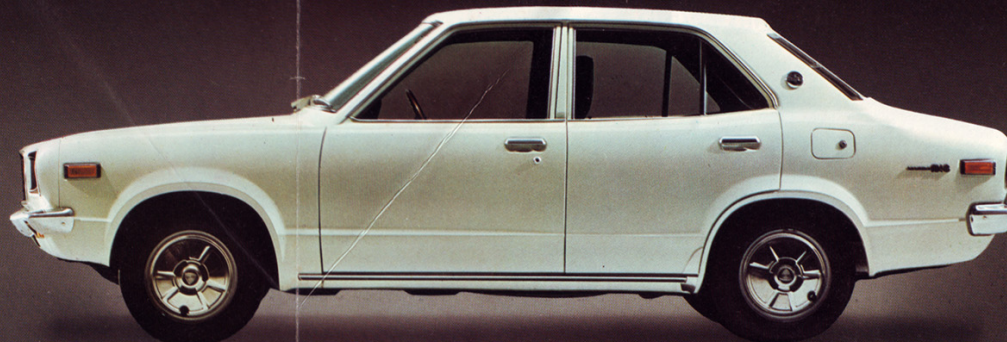
Shown: Super De-luxe Coupe and De-luxe Sedan
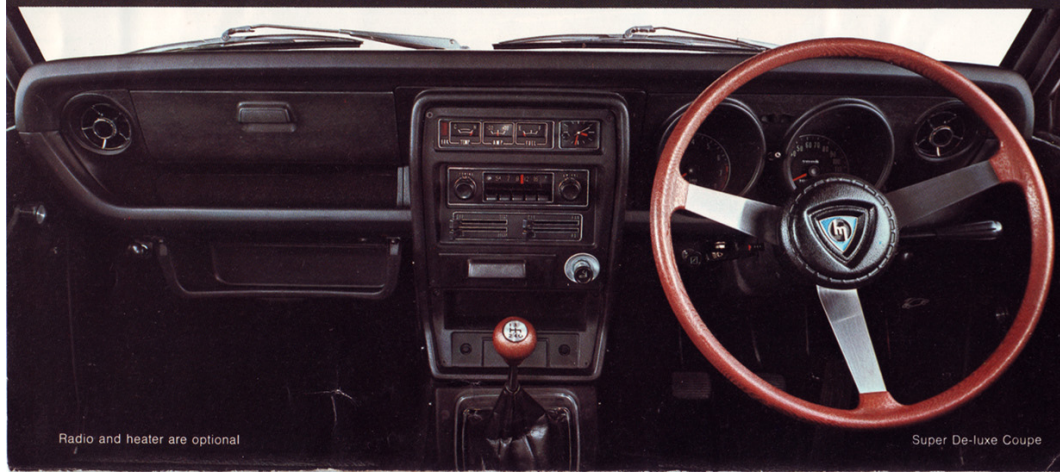
Radio and heater are optional

Super De-luxe Coupe

Super De-luxe Coupe

Super De-luxe Coupe

MAZDA·ROTARY ENGINE: LICENSED BY NSU/WANKEL

Mazda RX-3's rotary engine: Simple, silent and smooth.

As we said before, the RX-3's rotary engine is different from anything you have driven before. It is also simpler and more efficient than anything you've driven before.
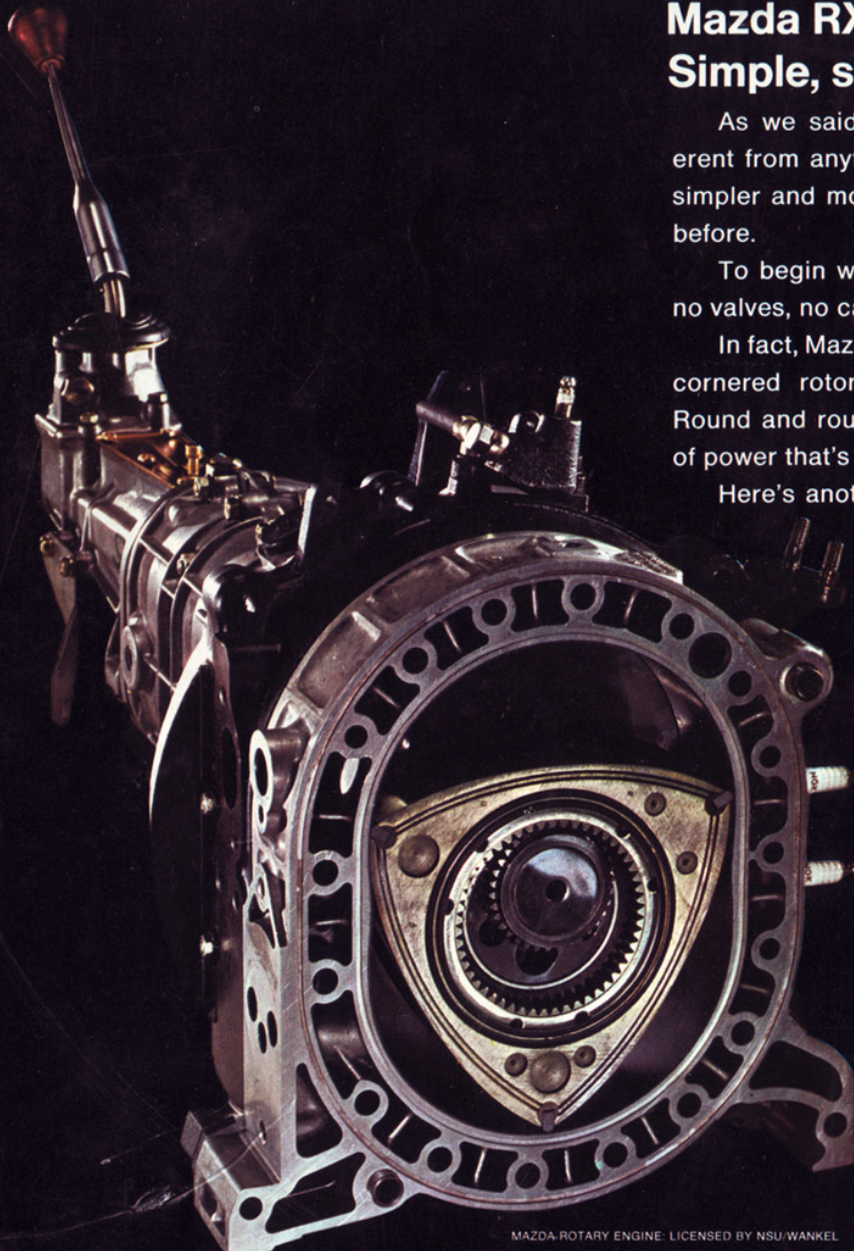
To begin with, it has less to go wrong. No pistons, no valves, no camshaft, no chains.

In fact, Mazda's simple rotary engine uses two three-cornered rotors which rotate in air-tight chambers. Round and round and round. In a steady, circling flow of power that's turbine-smooth at any speed.

Here's another fact you may like about the Mazda rotary engine. We were also able to make it smaller and lighter—yet much more powerful—than the engines of most other comparably-sized cars.

So you don't simply get a smoother, quieter engine in your Mazda RX-3.

You get one of the smoothest, quietest and *quickest* small engines you've ever experienced.

SPECIFICATIONS OF MAZDA RX-3

	SEDAN (Model: S102A)	COUPE (Model: S102A)
DIMENSIONS		
Length	4,065 mm (160″)	4,065 mm (160″)
Width	1,595 mm (63″)	1,595 mm (63″)
Height	1,375 mm (54″)	1,350 mm (53″)
Wheelbase	2,310 mm (91″)	2,310 mm (91″)
Tread (front)	1,300 mm (51″)	1,300 mm (51″)
Tread (rear)	1,290 mm (51″)	1,290 mm (51″)
Road clearance	165 mm (7″)	165 mm (7″)
CURB WEIGHT		
	STD: 885 kg (1,950 lbs.)	DX: 885 kg (1,950 lbs.)
	DX: 895 kg (1,975 lbs.)	S-DX: 900 kg (1,985 lbs.)

PERFORMANCE
Climbing ability (tan θ) 0.53
Turning circle ....8.6 m (28′6″)
Braking distance ....13.5m (44′) at initial speed of 50 km/h (31.2 mph)

ENGINE
Type ....Rotary engine
Number of rotors ....2 rotors, in-line
Displacement ....491 cc (30.0 cu. in.) x 2
Compression ratio 9.4
Brake horsepower (SAE) ....110 HP at 7,000 rpm.
Torque (SAE)............................100 lb-ft at 4,000 rpm.
Fuel ....Regular gasoline

FUEL SYSTEM
Carburettor ....Stromberg, 4-barrel type
Fuel pump ....Electric pump
Air cleaner ....Paper filter type
Fuel tank capacity ....60 lit. (13.2 Imp. gal.)

LUBRICATION SYSTEM
Type ....Full forced type
Oil pump..................................Trochoid gear type
Oil strainer ....Paper filter type

TRANSMISSION SYSTEM
Clutch ....Dry, single plate
Transmission ....4-forward speeds, reverse 1 speed, synchromesh on all forward gears

Gear Ratio	1st	3.737
	2nd	2.202
	3rd	1.435
	Top	1.000
	Rev.	4.024

Shift Lever...Floor shift

FINAL REDUCTION GEAR
Type of gear ....Hypoid
Gear ratio 3.700

STEERING SYSTEM
Type of gear ....Recirculating ball-type
Gear ratio..................................17.0—19.0 (variable)

SUSPENSION
Front suspension ....Strut type with coil springs
Rear suspension ....Semi-elliptic leaf springs
Axle (rear) ....Semi-floating type

BRAKES
Foot brake (front) ....Hydraulically-operated disc brakes with power assist
(rear) ....Hydraulic drum brakes with power assist
Hand brake ....Mechanical, internal expanding type on rear wheels

TIRES
Front ....155 SR 13 (155 HR 13)
Rear ....155 SR 13 (155 HR 13)

FRAME
Semi-monocoque with front and rear sub-frame assemblies

The above specifications are subject to change without notice.

Lamps and other equipment specifications vary according to locale.

MAZDA
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Printed in Japan

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