

M A Z D A

— M X - 5 —

MIATA

ROADSTER

1993



EAT

**THE CLASSIC ROADSTER.
AN AUTOMOBILE
MAGAZINE "ALL STAR"
THREE YEARS RUNNING.**

It has long been felt that the perfect driving experience involved a direct connection between the road, the wind, the car, and the sky. Only one type of car could provide it: the classic roadster. But in recent years, that kind of car disappeared. The driving enthusiasts at Mazda asked, "Why?" and set out to recreate the classic sports car experience in a modern car—the Mazda MX-5 Miata. A car that has earned unanimous critical praise and has been, since its introduction, the best-selling sports car in America.

Picture yourself on the most perfect two-lane country road you know of, your closest friend in the passenger's seat and the music from the throaty Miata exhaust making you forget all about those CDs you brought along. And suddenly you come to that sharp curve you've always wondered about.

But then, quickly, it's gone. Shifting, braking, steering, and accelerating are all so quick, so direct and natural, that you're out



of the turn, back on the straight almost without realizing it. Clutch, shift, gas, clutch, brake, steer, gas, clutch, shift, clutch, gas. It seemed to be just a series of thoughts.

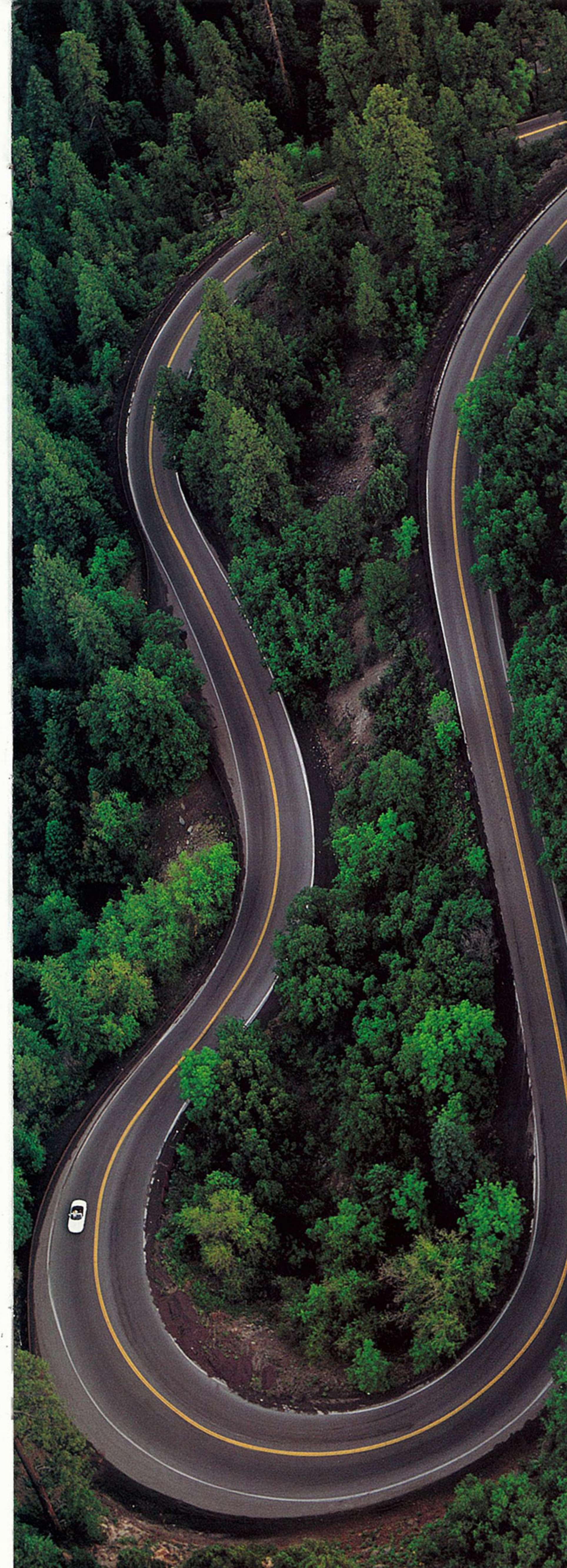
A car that feels this good when driven this enthusiastically isn't something that just happens. Like every car we make, the Miata was designed using Kansei Engineering, our deeply held philosophy demanding that a car must go beyond merely performing right; it must also feel right. Using Kansei Engineering we learn things we could never learn from a computer. Things like how much "road feel" the driver gets through the steering wheel; if the

▲ Go beyond merely eyeing the place you're driving your Miata through. Drop the top, and experience it.

▼ The past, present, and future of automobile design combine perfectly in an organic, sensuous form.



▲ We have accurate reconstructions of 20 different road surfaces from all around the world at the Global Road Circuit on our Miyoshi Proving Ground in Japan. Our engineers use it to fine-tune our vehicles for any type of driving you might encounter.



exhaust sounds just right when downshifting; even how a driver feels when resting an elbow on the window sill. This devotion to designing vehicles based on the needs and emotions of the people driving them, leads Mazda to solve problems in unique ways.

When our research showed us, for example, that the Miata would feel right only if it had perfect, 50/50 front/rear weight distribution, we did critical design work with the car suspended from its exact center on a single steel cable. This permitted ideas effecting weight distribution to be immediately seen and evaluated. Among other things, this resulted in giving the Miata a light, but strong, aluminum hood, and mounting the low-weight battery in the trunk.

▼ The optional hardtop turns your roadster into a gorgeous coupe. Its glass window with defroster makes the Miata a four-season delight.



When our engineers and designers were done, the classic roadster was back. But with modern technology and reliability, and a special feeling behind the wheel that could only have come from Mazda. Drop the top and let the wind blow through your hair. These are the good old days.

Automobile Magazine "All-Star" award, 1991, 1992, 1993.

DESIGNED FOR THE PURE PLEASURE OF SERIOUS DRIVING.

You don't even have to be out on the road to appreciate the thought and understanding that went into creating the MX-5 Miata interior. Just sitting still, you'll realize that everything is designed to provide an astonishing feeling of command and control.

Slip behind the thick, padded steering wheel, and settle into the contoured, high-back bucket seats. Notice the gentle cradling that will keep you from sliding as you fully enjoy a sharp turn. Your feet discover that the pedals are arranged in the perfect position for heel-and-toe driving, and your hand falls naturally on the short-throw shifter. In front of you, arranged to be quickly read with one smooth sweep of your eyes, is a

full complement of white-on-black analog gauges, ringed in the classic chrome. Every gauge and control is strategically positioned for instant visibility and ease of operation.

You'll find it's extremely easy to use the softtop, also. It can be easily raised or lowered in just a moment by one person, should the weather suddenly change. With the softtop up, you'll enjoy the warm, dry cabin.

Everything in a Mazda Miata serves the sole purpose of amplifying the classic sports car experience. Whether it's the way the car handles the road, or the way the driver handles the car, there's never any doubt about who's in control. In a Miata, you are always in command.

▶ The optional Mazda Sensory Sound System (MSSS) greatly adds to the enjoyment of all music sources. In addition to upgraded door and headrest speakers, the MSSS adds tweeters in the forward door edge panels, and special bass transducers in the seats to improve low frequency sound response even with the top down.



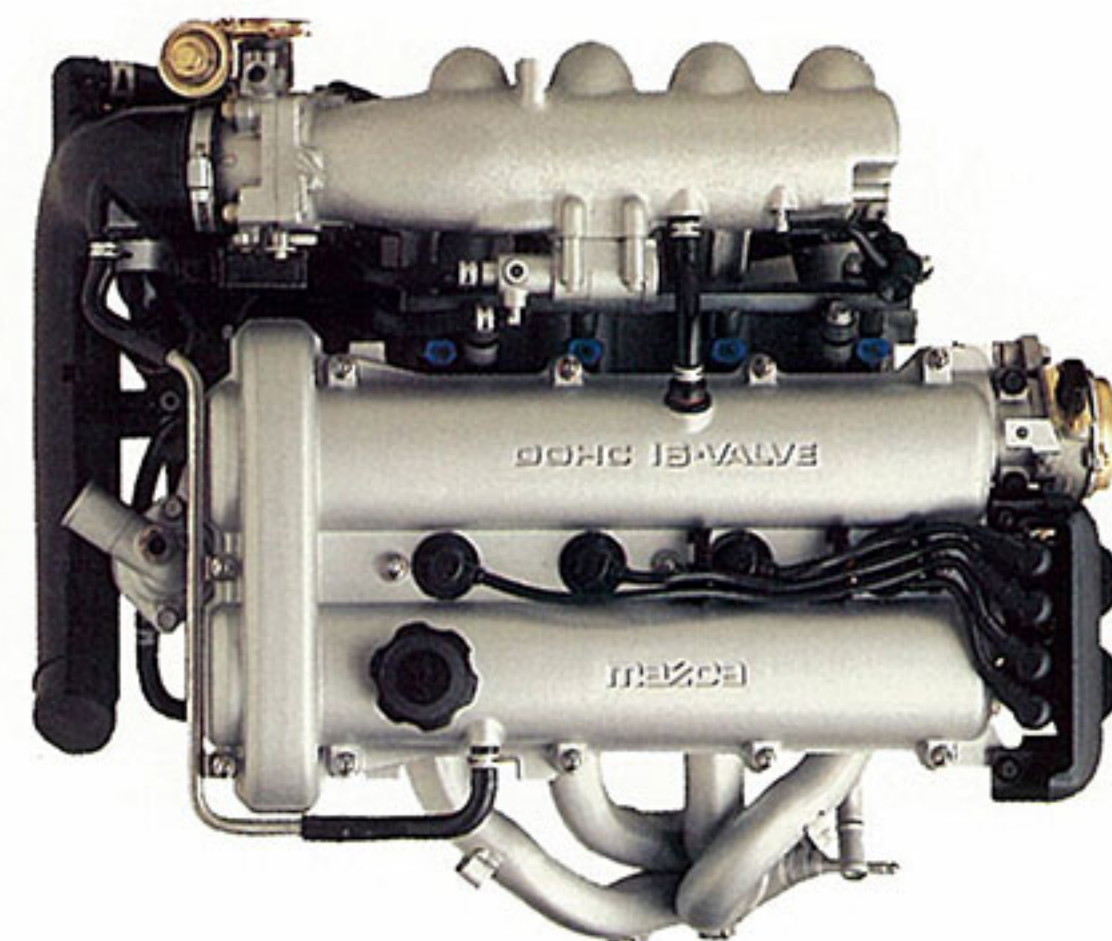
▲ If your Miata will be cruising the boulevards as well as straightening out those back country roads, consider option Package C. Tan leather seating surfaces, a leather-

wrapped steering wheel, tan softtop, alloy wheels, and other performance and convenience features make this a Miata that's even more personal.

SCIENCE, AND THE DRIVING EXPERIENCE.

Everywhere you drive, you're accompanied by a deep, throaty growl. That truly glorious sound comes from the high-revving, DOHC, 16-valve, fuel-injected MX-5 Miata engine. It

▶ Race-bred intake and exhaust systems let the DOHC 16-valve Miata engine deliver instant throttle response across a wide rpm range.



provides quick throttle response thanks to a race-bred induction system, distributorless ignition, and lightweight flywheel. Helping the motor breathe deeply is a tuned, exhaust system with stainless steel "headers," just like the setup used on high-performance exotics. And, to make sure the Miata experience

sounded just right, Mazda engineers tried over 100 different exhaust notes before finding the one that said "sports car." After a while, that exhaust note will tell you when to shift.

The shifter feels so good, you'll try to find excuses to run through the gears. Controlling a 5-speed, close-ratio overdrive transmission, the shifter's compact linkage has slick, precise throws of only 1.8 inches. *Car and Driver* said it "feels like a toggle switch." A four-speed automatic transmission with overdrive is also available.

The Miata is rock-solid, with little of the body flex that degraded handling and comfort in classic roadsters. Mazda engineers used Dynamic Modal Analysis software and a Cray supercomputer to analyze body stress at 8900 points, and created a chassis/body so rigid, the additional bracing used in most convertibles was not needed. To keep the three



◀ The 5-speed's shifter uses a specially designed compact linkage to provide immediate control. It's quick, slick, and precise.

▼ The Power Plant Frame (PPF) locks the engine, transmission, and differential into a single rigid unit. The result is immediate throttle response, and a noticeable lack of drivetrain vibration, shudder, and slack.



major drivetrain components as rigid as the chassis, Mazda examined the technology used in some of the world's most exotic sports cars and created an ingenious lightweight subframe called the Power Plant Frame (PPF). Refining the classic front-engine/rear-drive layout, the PPF locks engine, transmission, and differential into one solid piece of machinery. You'll notice a near absence of vibration, shudder, or slack even if you're changing gears, braking, and turning all at the same time.

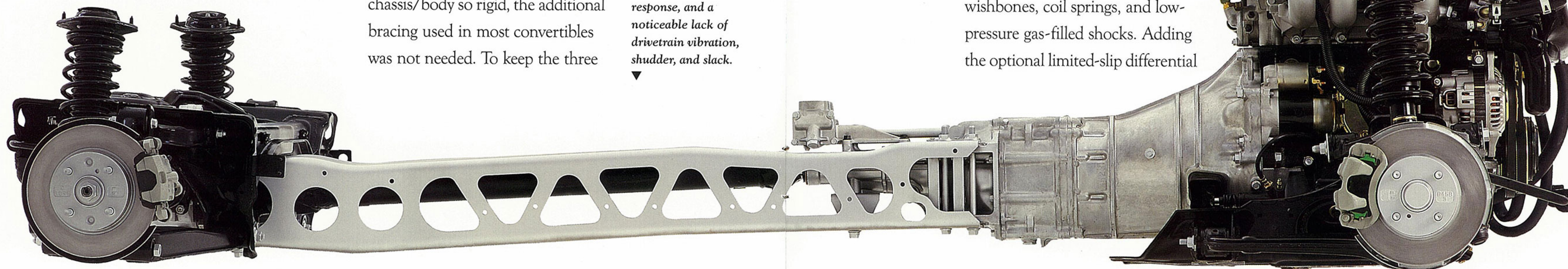
What there's no absence of is road feel. You'll know exactly what your wheels are doing, and they'll respond instantly to your command through the quick rack-and-pinion steering system. All four wheels are independently suspended on double wishbones, coil springs, and low-pressure gas-filled shocks. Adding the optional limited-slip differential

can further improve handling on wet or slippery road surfaces.

Unfortunately, there are times when you have to slow down, or even bring your Miata to a complete stop. Handling that job are power-assisted 4-wheel disc brakes, with the front discs ventilated for increased fade resistance. The optional Anti-lock Brake System (ABS) provides reassuring stability and steering control under hard braking.

While any car is the sum of its parts, those in the Miata seem to add up a whole lot better. You may not remember why a Miata feels the way it does, but after even one drive you'll never forget the feeling.

▲ Legendary Miata handling is further improved for 1993. Thanks to revised suspension tuning, riding comfort is even better, with no reduction in sports car performance.





S P E C I F I C A T I O N S

Engine

Availability	Manual transmission	Automatic transmission
Type	Inline 4-cylinder	Inline 4-cylinder
Displacement	1597cc (97 cu. in.)	1597cc (97 cu. in.)
Valve gear	DOHC 16-valve	DOHC 16-valve
Bore and stroke	3.07 x 3.29 inches	3.07 x 3.29 inches
Compression ratio	9.4:1	9.0:1
Horsepower, SAE net	116 @ 6500 rpm	105 @ 6000 rpm
Torque, SAE net lb.-ft.	100 @ 5500 rpm	100 @ 4000 rpm
Fuel system	Multi-port electronic fuel injection	Multi-port electronic fuel injection
Ignition system	Distributorless electronic	Distributorless electronic

Transmission

Type	5-speed manual with overdrive. 4-speed automatic with overdrive and lockup torque converter. (Optional)
------	---

Dimensions (inches)

Wheelbase	89.2	Track: front/rear	55.5/56.2
Length	155.4	Headroom	37.1
Width	65.9	Legroom	42.7
Height	48.2	Shoulder room	50.4

EPA Mileage Estimates (mpg)

Manual transmission	25 city, 30 highway
Automatic transmission	24 city, 28 highway

Chassis

Frame	Unit body
Suspension	Fully independent, double-wishbone type with coil springs, gas-filled shock absorbers, and front and rear stabilizer bars
Steering	Rack-and-pinion type. Engine-rpm-sensing variable power assist (optional). Steering ratio: 18.0:1; 15.0:1 (power assist). Steering wheel turns, lock-to-lock: 3.3; 2.8 (power assist) Turning circle diameter, curb-to-curb: 30.8 feet
Brakes	Power-assisted with dual hydraulic circuits 9.3-inch ventilated front discs and 9.1-inch rear discs. Anti-lock Brake System (ABS) (optional)
Tires	P185/60R14 82H steel-belted radials
Fuel capacity	11.9 gallons
Curb weight	2222 pounds; 2280 (automatic transmission)

Standard Features

1.6L DOHC 16-valve engine with multi-port electronic fuel injection
Sport-tuned exhaust system with stainless steel tubular header
5-speed manual transmission with overdrive
Rack-and-pinion steering
Power-assisted 4-wheel disc brakes

F E A T U R E S

Standard Features (continued)

14-inch styled steel wheels with bright center caps
Dual body-color mirrors
2-speed windshield wipers with intermittent and 1-wipe features
Tinted glass
Black cloth upholstery
Lockable glove box and map pocket on back of passenger's seat
Full center console with lockable storage compartment
Remote fuel-door and trunk releases
Driver's-side air bag Supplemental Restraint System (SRS)
AM/FM/cassette stereo with integral digital clock and anti-theft coding

Optional Features

Package A: Power-assisted steering, leather-wrapped steering wheel, power mirrors, aluminum alloy wheels, and headrest speakers
Package B: Package A items, plus cruise control, power windows, and automatic power antenna
Package C: Package B items, plus Tan interior with leather seating surfaces** and Tan vinyl top (n/a with Mariner Blue)
Anti-lock Brake System (ABS) (requires Package B or C)
4-speed automatic transmission with overdrive
Viscous-type limited-slip differential (requires manual transmission)
Removable hardtop with rear window defroster (requires Package A, B, or C)
Air conditioning
Mazda Sensory Sound System with compact disc player (requires Package B or C)

Warranty

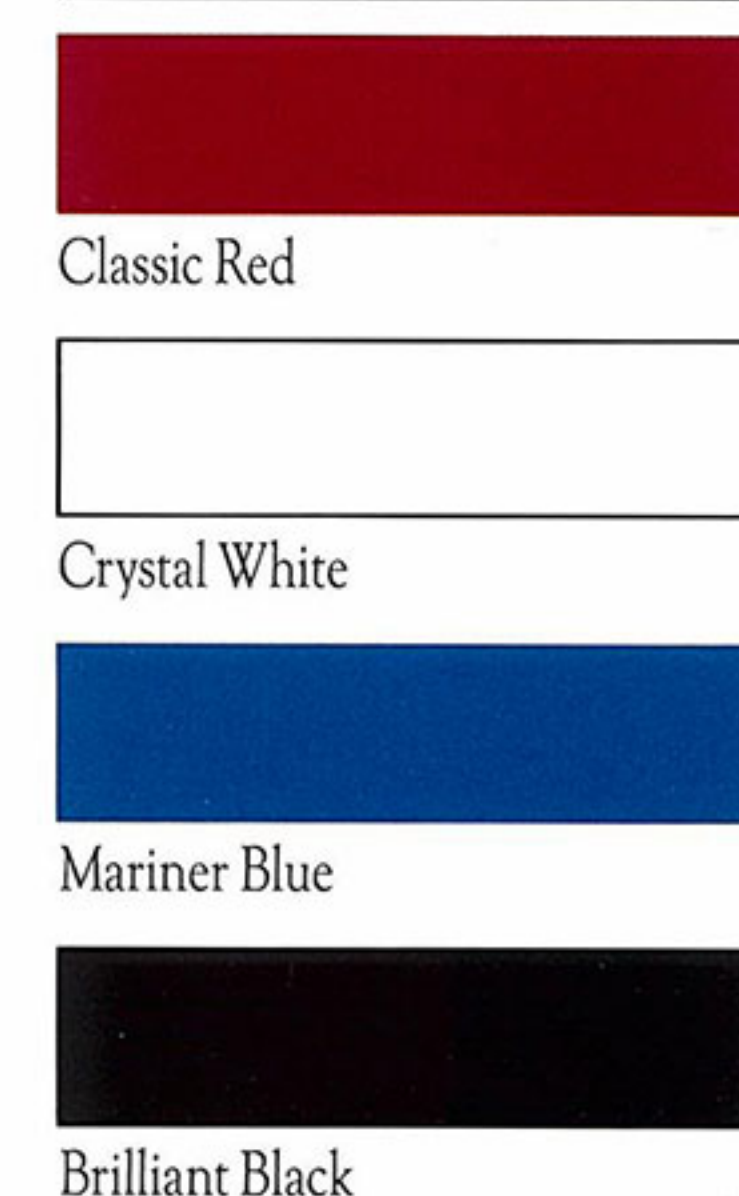
The Mazda 36-Month/50,000-Mile Limited Warranty. Mazda warrants that the Mazda vehicle will be free of defects with normal use and prescribed maintenance for 36 months or 50,000 miles, whichever comes first, or Mazda will repair any problem without charge. Ordinary maintenance items or adjustments, parts subject to normal wear and replacement, and certain other items are excluded. This transferable "limited warranty" is free on all new 1993 Mazda vehicles sold and serviced in the United States. See your Mazda Dealer for details.
The Mazda Parts and Accessories Limited Warranty. Mazda warrants that each Genuine Mazda Part and Accessory, when used normally and properly maintained, will be free from defects for 12 months from the time of sale, or a Mazda Dealer will repair or replace it without charge. Labor charges are covered only if the Part or Accessory was installed by a Mazda Dealer. Under some circumstances, Mazda Accessories that are installed by a Mazda Dealer will be covered for more than 12 months under the vehicle warranty. Parts and Accessories that are improperly installed by a party other than Mazda or a Mazda Dealer, parts subject to normal wear and replacement, and certain other exclusions apply. This transferable "limited warranty" is free on all new Genuine Mazda Parts and Accessories sold by a Mazda Dealer in the United States. See your Mazda Dealer for details.

*Available early 1993. Availability limited to 1500 vehicles. See your Mazda Dealer for details.
**Seats upholstered in leather except for vinyl on rear side of seatback and other minor areas.
†Available only with option Package C.

1993 Miata Limited Edition*

This limited edition Miata comes in Brilliant Black with red leather upholstery.** Features include BBS 14-inch alloy wheels, Nardi leather shift knob, Sports Suspension Package, Mazda Sensory Sound System with compact disc player, and much more. Your Mazda Dealer has complete information.

Exterior Colors



Color Combinations (Interior/Exterior)

Black/Classic Red, Crystal White, Mariner Blue
Tan Leather*/Classic Red,** Crystal White, Brilliant Black

A C C E S S O R I E S

Now that you've got the vehicle you want, make it uniquely yours with Genuine Mazda Accessories. You can choose from a variety of top-quality items, each of which is designed to fit right and look great. See your Mazda Dealer today and discover how easy it is to personalize, protect, and enhance your new 1993 Mazda with Genuine Mazda Accessories.

Hardtop. It's been designed to increase the all-weather versatility and style of the Miata. Painted to match the body color, it includes all mounting hardware.



Rear Wing. Available in select body colors, its aggressive design adds to the sporty appeal of the Miata.



Compact Disc Player. The concert quality, full-featured sound system adds to the overall enjoyment of owning a Miata.



At Mazda, designing and building your MX-5 Miata to feel just right is only the beginning. We're determined to ensure that owning a Mazda feels just right, also. That's why our commitment extends to every area of sales and service.

For added peace of mind, your new Miata, like every Mazda, comes with the added value and increased security of an outstanding 36-month/50,000-mile, "bumper-to-bumper," no-deductible warranty.* It's one of the best in the business and it's fully transferable—a great advantage should you decide to sell your Miata while it's still under warranty.

It's also comforting to know that your Miata is backed by the nationwide family of Mazda Dealers. That means that no matter where you travel throughout the continental United States and Canada, you'll never be far from a high quality source of service and support.

Through every Mazda Dealer's Parts and Service Department you can count on ready access to Genuine Mazda Parts, our factory-trained mechanics, and quick, convenient repairs and maintenance. All of which can keep your new Miata feeling just right.

We've even made it easier for you to own a Miata. Through our financial subsidiary Mazda American Credit, you'll have the ease and convenience of one-stop shopping for a loan that's designed to meet your particular needs. Or, if it's to your advantage, you can arrange a Mazda Personal Lease.™ Your local Mazda Dealer is ready with all the details.**

Total customer satisfaction is our number one priority. That's why, starting the day you drive your new Miata roadster home, you can count on us to do everything possible to make you glad you decided to be a Mazda owner.

mazda
IT JUST FEELS RIGHT.®

*See your Mazda Dealer for limited-warranty details. **Retail and lease financing subject to approval of Mazda American Credit.

© 1992 Mazda Motor of America, Inc. • 7755 Irvine Center Drive, Irvine, California 92718 • Printed 12/92, (179M) in U.S.A., Part No. 9999-92-0205-93

Information and illustrations in this brochure are based on the latest competitive and Mazda product information available at the time of publication. Some equipment shown is optional at extra cost; specific options may be available only in combination with other options. Specific combinations of colors, interiors, equipment, or features may vary from time to time and by geographic area; colors in illustrations may vary from actual upholstery or paint colors due to reproduction and printing processes. Mazda reserves the right to make changes without notice in product content and price at any time.