

2012 MX-5 Miata

Engine & Mechanical



■ Standard
 ■ Package Option
 ■ Stand-Alone Option
 ■ Accessory
 --- Not Available



MX-5 MIATA AT A GLANCE



ENGINE TYPE

167-hp†, MZR 2.0L DOHC 16-valve 4-cylinder engine with variable valve timing (VVT)



CONVERTIBLE OPTIONS

Choice of soft top or Power Retractable Hard Top (PRHT)



FUEL EFFICIENCY

22/28 city/hwy — 5-speed MT‡

21/28 city/hwy — 6-speed MT‡

21/28 city/hwy — 6-speed AT‡



SAFETY FEATURES

Standard advanced front air bags and side-impact air bags**

2012 MX-5 Miata	Sport	Touring	Grand Touring
Engine			
Engine type	MZR 2.0L DOHC 16-valve 4-cylinder engine with VVT		
Horsepower			
- Manual transmission	167 hp @ 7000 rpm		
- Automatic transmission	158 hp @ 6700 rpm		
Torque	140 lb-ft @ 5000 rpm		
Redline			
- Manual transmission	7200 rpm		
- Automatic transmission	6700 rpm		
Displacement (cc)	1999		
Bore x stroke (mm)	87.5 x 83.1		
Compression ratio	10.8:1		
Fuel system	Electronically controlled multiport fuel injection with tuned air intake		
Recommended fuel	Premium unleaded		
Valve train	Chain-driven dual overhead cams, 4 valves per cylinder with variable intake valve timing (VVT)		
Ignition system	Direct coil-on-plug electronic ignition with platinum-tipped spark plugs		
Engine block	Aluminum alloy		
Cylinder head	Aluminum alloy		
Crankshaft	Forged steel		
Connecting rods	Forged steel		
Emission control type (Fed/Cal)	Tier2 - BIN5 / ULEV-2		
Fuel Economy			
Manual transmission (city/hwy)‡	22/28		21/28
Automatic transmission (city/hwy)‡		21/28	
Drivetrain			
Type	Rear-wheel drive (RWD)		
Manual transmission	5-speed with short-throw shifter		6-speed close-ratio with short-throw shifter
Automatic transmission	6-speed Sport with Adaptive Shift Logic and steering-wheel-mounted paddle shifters		
Differential	Available torque-sensing limited-slip (manual transmission only)		
Gear Ratios (:1)	5MT	6MT	6AT
1st	3.14	3.82	3.54
2nd	1.89	2.26	2.06
3rd	1.33	1.64	1.40

4th	1.00	1.18	1.00
5th	0.81	1.00	0.71
6th	--	0.79	0.58
Reverse	3.76	3.60	3.17
Final drive	4.10	4.10	4.10
Chassis			
Frame	Aluminum Power Plant Frame		
Brakes	4-wheel disc		
- Front	11.4-inch vented disc		
- Rear	11.0-inch solid disc with aluminum brake calipers		
- ABS	4-wheel, 4-channel with Electronic Brakeforce Distribution (EBD) and Brake Assist		
Steering type	Rack-and-pinion		
Power assist	Hydraulic Power Assist Steering (HPAS)		
Overall steering ratio	15.0:1		
Steering wheel turns, lock-to-lock	2.7		
Turning circle diameter, curb-to-curb (ft)	30.8		
Suspension	4-wheel independent		
- Front	Double wishbone, coil springs with stabilizer bar		
- Rear	Multilink with stabilizer bar		
- Stabilizer bar (front)	Hollow		
- Stabilizer bar (rear)	Solid		
- Springs	Available sport-tuned coil springs		
- Front strut tower brace	--	Standard	
Shock absorbers	Gas-filled, double acting; available Bilstein®		
Wheel size (in)	16 x 6.5	17 x 7.0	
Tire size	P205/50R16 V-speed-rated radial tires	P205/45R17 W-speed-rated radial tires	
Weights & Capacities			
Curb weight (lbs)			
- Manual transmission	2447	2480	2511
- Automatic transmission	-	2542	2542
Weight distribution (front/rear)	52/48		
Fuel capacity (gallons)	12.7		

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Exterior

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2012 MX-5 Miata	Sport	Touring	Grand Touring
Body			
Halogen headlights	■	■	■
Xenon High-Intensity-Discharge (HID) low-beam headlights	--	--	■
Halogen fog lights	■††	■	■
Chrome grille surround	--	■	■
Lightweight aluminum-alloy hood and trunk lid	■	■	■
Variable-intermittent windshield wipers	■	■	■
Vinyl convertible top	■	■	--
Cloth convertible top	--	--	■
Dual power side mirrors	■	■	■
Body-color door handles	■	■	■
Glass rear window with defogger	■	■	■
Rear-fender-mounted antenna	■	■	■
Dual exhaust outlets with chrome tips	■	■	■
Wheels & Tires			
16-inch aluminum-alloy wheels	■	--	--
17-inch aluminum-alloy wheels	--	■	■
P205/50R16 high-performance radial tires	■	--	--
P205/45R17 high-performance radial tires	--	■	■
Tire puncture repair kit (includes compressor, tire sealant, injection hose, spare valve core, valve core tool)	■	■	■
Exterior Dimensions			
Wheelbase (in)		91.7	
Track, front (in)		58.7	
Track, rear (in)		58.9	
Length (in)		157.3	
Width (in)		67.7	
Height (in)		49.0	
Minimum ground clearance, laden (in)		4.6	

Interior

S Standard
 P Package Option
 D Stand-Alone Option
 A Accessory
 -- Not Available

2012 MX-5 Miata	Sport	Touring	Grand Touring
Comfort & Convenience			
Air conditioning	S	S	--
Automatic climate control	--	--	S
Power windows with driver's one-touch-down feature	S	S	S
Passenger window one-touch-down feature	D ††	S	S
Power door locks with 2-stage unlocking	D ††	S	S
Cruise control with steering-wheel-mounted controls	D ††	S	S
Bluetooth® hands-free phone capability††	--	--	D
Remote keyless entry with retractable key	D ††	S	S
Mazda Advanced Keyless Entry & Start System	--	--	D
Auto-dimming rearview mirror with HomeLink®	--	S	S
Tilt steering wheel	S	S	S
Interior illumination — dome light, ignition switch and trunk	S	S	S
Driver and passenger visor vanity mirrors	S	S	S
Retractable wind blocker	S	S	S
12-volt power outlet	S	S	S
Rear window defogger with timer	S	S	S
Storage			
Lockable glove compartment	S	S	S
Center console storage with cup holder	S	S	S
Door net pockets with bottle holders	S	S	S
Lockable rear storage	S	S	S
Driver and passenger behind-seat storage — covered	S	S	S
Driver's seatback storage pocket	S	S	S
Seating & Trim			
2-passenger seating	S	S	S
6-way adjustable driver's seat	S	S	S
4-way adjustable passenger seat	S	S	S
Heated seats	--	--	S
Cloth-trimmed seats	S	S	--
Leather-trimmed seats	--	--	S
Leather-wrapped steering wheel	S	S	S
Leather-wrapped shift knob	--	S	S
Leather-wrapped parking brake handle	--	--	S
Silver interior accents	--	--	S
Silver seatback bar accents	D ††	S	S
Padded center console and door armrests	S	S	S
Carpet floor mats	S	S	S
Audio			
AM/FM/CD/MP3-compatible stereo with 6 speakers	S	--	--
AM/FM/in-dash 6-disc CD/MP3-compatible changer with 6 speakers	--	S	--
Bose® audio system with AudioPilot® 2, AM/FM/in-dash 6-disc CD/MP3-compatible changer and 7 speakers	--	--	S
SiriusXM Satellite Radio-compatible audio system***	S	S	S
SiriusXM Satellite Radio with free 4-month subscription	D	D	D
Auxiliary-audio input jack	S	S	S
Steering-wheel-mounted audio controls	D ††	S	S
Instrumentation			
Speedometer, tachometer, oil pressure, coolant temperature and fuel gauge	S	S	S
Dual trip odometers	S	S	S
Trip computer	D ††	S	S
Interior Dimensions & Capacities			

Headroom (in)	37.4
Shoulder room (in)	53.2
Hip room (in)	50.6
Legroom (in)	43.1
Cargo volume (cu ft)	5.3

Safety & Security

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2012 MX-5 Miata	Sport	Touring	Grand Touring
Safety			
Advanced front air bags** with seat belt-use, passenger-weight and driver's seat-position sensors and passenger-side deactivation switch	■	■	■
Side-impact air bags**	■	■	■
3-point seat belts with pretensioners and force limiters	■	■	■
Anti-lock Brake System (ABS) with Electronic Brakeforce Distribution (EBD) and Brake Assist	■	■	■
Dynamic Stability Control (DSC)+++ and Traction Control System (TCS)	■	■	■
Side-impact door beams	■	■	■
Collapsible steering column	■	■	■
Security			
Engine-immobilizer antitheft system	■	■	■
Antitheft alarm system	--	--	■
Keyless remote panic button (on key fob)	■++	■	■
Tire-Pressure Monitoring System (TPMS)	■	■	■
Tire puncture repair kit (includes compressor, tire sealant, injection hose, spare valve core, valve core tool)	■	■	■

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Packages & Options

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2012 MX-5 Miata	Sport	Touring	Grand Touring
Packages & Options			
Convenience Package - Fog lights - Remote keyless entry and retractable key - Power door locks - Cruise control - Steering-wheel-mounted audio and cruise controls - One-touch-down passenger window - Trip computer - Silver seatback bars	□ ††	■	■
Suspension Package - Sport-tuned suspension - Bilstein® shock absorbers - Limited-slip differential (manual transmission only)	--	□	□
Premium Package - Xenon High-Intensity-Discharge (HID) low-beam headlights - Mazda Advanced Keyless Entry & Start System - Bluetooth® hands-free phone capability †† - SiriusXM Satellite Radio with free 4-month subscription - Antitheft alarm	--	--	□
Exterior			
Appearance Package (not available with splash guards) - Front air dam - Side sill skirts - Rear under skirt	□	□	□
Door edge guards	□ / ■	□ / ■	□ / ■
Chrome fuel-filler door	□ / ■	□ / ■	□ / ■
Splash guards front and rear (not available with Appearance Pkg)	□ / ■	□ / ■	□ / ■
Rear spoiler	□ / ■	□ / ■	□ / ■
Wheel locks	□ / ■	□ / ■	□ / ■
Interior			
Carpet Floor mats	□ / ■	□ / ■	□ / ■
All-weather floor mats	□ / ■	□ / ■	□ / ■
Cargo net	□ / ■	□ / ■	□ / ■ †††
Antitheft alarm with shock sensor	□ / ■ ††	□ / ■	□ / ■ †††
Audio			
In-Dash 6-disc CD/MP3-compatible changer	□ / ■	--	--
SiriusXM Satellite Radio with free 4-month subscription	□ / ■	□ / ■	□ / ■ †††

Warranty

Every new Mazda comes with a comprehensive limited warranty that provides coverage in the unlikely event a repair is needed in the first years after your vehicle's purchase. We'll be right there with you all the time, wherever you go by providing warranty coverage and roadside assistance so that the total enjoyment of driving a Mazda never stops.

2012 Mazda Vehicles:
Mazda Limited Warranty Coverage:

3-year/36,000-mile*	"Bumper-to-Bumper" Limited Warranty
5-year/60,000-mile*	Limited Powertrain Warranty
3-year/36,000-mile*	24/7 Roadside Assistance Program

*Whichever comes first.

BUMPER-TO-BUMPER LIMITED WARRANTY

Mazda warrants that new Mazda cars and trucks will be free of defects with normal use and prescribed maintenance for 36 months or 36,000 miles, whichever comes first. Ordinary maintenance items or adjustments, parts subject to normal wear and replacement and certain other items are excluded. This transferable "limited warranty" is included on all new Mazda vehicles sold and serviced in the United States.

POWERTRAIN LIMITED WARRANTY

Mazda warrants that the [Powertrain Components](#) of new Mazda cars and trucks will be free of defects with normal use and prescribed maintenance for 60 months or 60,000 miles, whichever comes first. Ordinary maintenance items or adjustments, parts subject to normal wear and replacement and certain other items are excluded. This "limited warranty" is transferable during the warranty period on all new Mazda vehicles sold and serviced in the United States.

24/7 ROADSIDE ASSISTANCE

If Mazda vehicle is not driveable due to a warranted part failure during the coverage period of the New Vehicle Limited Warranty (36 months/36,000 miles), towing service will be covered to the nearest Mazda Dealer. In addition, if a Mazda vehicle is not driveable due to the failure of a warranted powertrain component, then towing service will be covered during the coverage period of the Powertrain Limited Warranty (60 months/60,000 miles).

Call 1-800-866-1998



Or [download](#) the free Mazda Assist mobile app to your iPhone®*.

* iPhone is a registered trademark of Apple Computer, Inc.

† 158 hp — 6-speed Sport automatic transmission.

‡ EPA-estimated mileage. Actual results may vary.

** Always wear your seat belt and deactivate passenger-side air bag when using a child- or infant-safety seat.

†† Requires Convenience Package on MX-5 Sport with 5-speed manual transmission. Standard on MX-5 Sport with 6-speed Sport automatic transmission.

‡‡ The Bluetooth® system functions only with select manufactured devices. Please consult www.MazdaUSA.com/bluetooth for device compatibility.

*** SiriusXM Satellite Radio-compatible audio system requires additional dealer-installed hardware and subscription.

††† Dynamic Stability Control (DSC) is an electronic system to help the driver maintain control under adverse conditions. It is not a substitute for safe driving practices. Factors including speed, road conditions and driver steering input can all affect whether DSC will be effective in preventing loss of control. Please see the Owners Manual for further details.

‡‡‡ Not available with Premium Package.