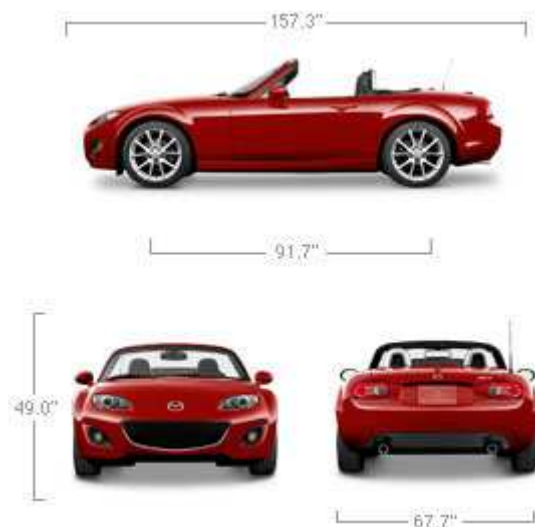


# 2012 MX-5 Miata

## Engine & Mechanical



standard option 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
<b>Engine</b>			
Engine type	MZR 2.0L DOHC 16-valve 4-cylinder engine with VVT		
<b>Horsepower</b>			
- Manual transmission	167 hp @ 7000 rpm		
- Automatic transmission	158 hp @ 6700 rpm		
Torque	140 lb-ft @ 5000 rpm		
<b>Redline</b>			
- 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		
<b>Fuel Economy</b>			
Manual transmission (city/hwy)‡	22/28	21/28	
Automatic transmission (city/hwy)‡	21/28		
<b>Drivetrain</b>			
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)		
<b>Gear Ratios (:1)</b>	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		

## Exterior

S standard   
□ option   
-- not available

2012 MX-5 Miata	Sport	Touring	Grand Touring
<b>Body</b>			
Halogen headlights	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Xenon High-Intensity-Discharge (HID) low-beam headlights	--	--	<span style="color: blue;">□</span>
Halogen fog lights	<span style="color: blue;">□</span> ††	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Chrome grille surround	--	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Lightweight aluminum-alloy hood and trunk lid	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Variable-intermittent windshield wipers	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Vinyl convertible top	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	--
Cloth convertible top	--	--	<span style="color: orange;">S</span>
Dual power side mirrors	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Body-color door handles	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Glass rear window with defogger	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Rear-fender-mounted antenna	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Dual exhaust outlets with chrome tips	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
<b>Wheels &amp; Tires</b>			
16-inch aluminum-alloy wheels	<span style="color: orange;">S</span>	--	--
17-inch aluminum-alloy wheels	--	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
P205/50R16 high-performance radial tires	<span style="color: orange;">S</span>	--	--
P205/45R17 high-performance radial tires	--	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
Tire puncture repair kit (includes compressor, tire sealant, injection hose, spare valve core, valve core tool)	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>	<span style="color: orange;">S</span>
<b>Exterior Dimensions</b>			
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  
 □ option  
 == not available

2012 MX-5 Miata	Sport	Touring	Grand Touring
<b>Comfort &amp; Convenience</b>			
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	□††	S	S
Power door locks with 2-stage unlocking	□††	S	S
Cruise control with steering-wheel-mounted controls	□††	S	S
Bluetooth® hands-free phone capability††	==	==	□
Remote keyless entry with retractable key	□††	S	S
Mazda Advanced Keyless Entry & Start System	==	==	□
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
<b>Storage</b>			
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
<b>Seating &amp; Trim</b>			
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	□††	S	S
Padded center console and door armrests	S	S	S
Carpet floor mats	S	S	S
<b>Audio</b>			

AM/FM/CD/MP3-compatible stereo with 6 speakers	Ⓢ	--	--
AM/FM/in-dash 6-disc CD/MP3-compatible changer with 6 speakers	--	Ⓢ	--
Bose® audio system with AudioPilot® 2, AM/FM/in-dash 6-disc CD/MP3-compatible changer and 7 speakers	--	--	Ⓢ
SiriusXM Satellite Radio-compatible audio system***	Ⓢ	Ⓢ	Ⓢ
SiriusXM Satellite Radio with free 4-month subscription	□	□	□
Auxiliary-audio input jack	Ⓢ	Ⓢ	Ⓢ
Steering-wheel-mounted audio controls	□††	Ⓢ	Ⓢ
<b>Instrumentation</b>			
Speedometer, tachometer, oil pressure, coolant temperature and fuel gauge	Ⓢ	Ⓢ	Ⓢ
Dual trip odometers	Ⓢ	Ⓢ	Ⓢ
Trip computer	□††	Ⓢ	Ⓢ
<b>Interior Dimensions &amp; Capacities</b>			
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

S standard  
 □ option  
 == not available

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

# 2012 MX-5 Miata



## Options & Packages

standard option not available

2012 MX-5 Miata	Sport	Touring	Grand Touring
<b>Packages &amp; Options</b>			
<b>Convenience Package</b> - 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	††	S	S
<b>Suspension Package</b> - Sport-tuned suspension - Bilstein® shock absorbers - Limited-slip differential (manual transmission only)	--	□	□
<b>Premium Package</b> - 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	--	--	□
<b>Exterior</b>			
<b>Appearance Package</b> (not available with splash guards) - Front air dam - Side sill skirts - Rear under skirt	□	□	□
Door edge guards	□ /  R	□ /  R	□ /  R
Chrome fuel-filler door	□ /  R	□ /  R	□ /  R
Splash guards front and rear (not available with Appearance Pkg)	□ /  R	□ /  R	□ /  R
Rear spoiler	□ /  R	□ /  R	□ /  R
Wheel locks	□ /  R	□ /  R	□ /  R
<b>Interior</b>			
Carpet Floor mats	□ /  R	□ /  R	□ /  R
All-weather floor mats	□ /  R	□ /  R	□ /  R
Cargo net	□ /  R	□ /  R	□ /  R †††
Antitheft alarm with shock sensor	□ /  R ††	□ /  R	□ /  R †††
<b>Audio</b>			
In-Dash 6-disc CD/MP3-compatible changer	□ /  R	--	--
SiriusXM Satellite Radio with free 4-month subscription	□ /  R	□ /  R	□ /  R †††

† 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](http://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.