# 2012 MX-5 Miata Engine & Mechanical



#### standard option = not available



- 91.7" --





MX-5 Miata at a Glance:

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

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**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 cont	rolled 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	1/28
Automatic transmission (city/hwy)‡	21/28		
Drivetrain			
Туре	Rear-wheel drive (RWD)		

Manual transmission	5-speed with short-throw shifter			
Automatic transmission	6-speed Sport with Adaptive	6-speed Sport with Adaptive Shift Logic and steering-wheel-mounted paddle shifters		
Differential	Available torque-	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	e	
Brakes		4-wheel disc		
- Front		11.4-inch vented disc		
- Rear	11.0-inch	11.0-inch solid disc with aluminum brake calipers		
- ABS	4-wheel, 4-channel with El	4-wheel, 4-channel with Electronic Brakeforce Distribution (EBD) and Brake Assist		
Steering type		Rack-and-pinion		
Power assist	Hydra	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 w	Double wishbone, coil springs with stabilizer bar		
- Rear		Multilink with stabilizer bar		
- Stabilizer bar (front)		Hollow		
- Stabilizer bar (rear)		Solid		
- Springs	A	Available sport-tuned coil springs		
- Front strut tower brace		Standard		
Shock absorbers	Gas-fill	Gas-filled, double acting; available Bilstein®		
Wheel size (in)	16 x 6.5	16 x 6.5 17 x 7.0		
Tire size	P205/50R16 V-speed- rated radial tires			
Weights & Capacities				
Curb weight (lbs)				
- Manual transmission	0.1.17	2480	2511	
	2447			
- Automatic transmission		2542	2542	
- Automatic transmission Weight distribution (front/rear)	-			

#### Exterior



standard option = not available

		Starte	
2012 MX-5 Miata	Sport	Touring	Grand Touring
Body			
Halogen headlights	5	5	5
Xenon High-Intensity-Discharge (HID) low-beam headlights			
Halogen fog lights	<b>□</b> ††	5	5
Chrome grille surround		5	5
Lightweight aluminum-alloy hood and trunk lid	5	5	5
Variable-intermittent windshield wipers	5	5	5
Vinyl convertible top	5	5	
Cloth convertible top			5
Dual power side mirrors	5	5	5
Body-color door handles	5	5	5
Glass rear window with defogger	5	5	5
Rear-fender-mounted antenna	5	5	5
Dual exhaust outlets with chrome tips	5	5	5
Wheels & Tires			
16-inch aluminum-alloy wheels	5		
17-inch aluminum-alloy wheels		5	5
P205/50R16 high-performance radial tires	5		
P205/45R17 high-performance radial tires		5	5
Tire puncture repair kit (includes compressor, tire sealant, injection hose, spare valve core, valve core tool)	5	5	5
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



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Cruise control with steering wheel-mouned controlsIt isIt is<	Passenger window one-touch-down feature		5	S
Bluetooth@hands-free phone capability##ImageImageImageImageRemote kayless entry with retractable kayImageImageImageImageImageMacda Advanced Kayless Entry & Start SystemImageImageImageImageImageImageAuto-dimming rearview mirror with HorneLink@Image <td>Power door locks with 2-stage unlocking</td> <td></td> <td>5</td> <td>S</td>	Power door locks with 2-stage unlocking		5	S
Barbon	Cruise control with steering-wheel-mounted controls	<b>□</b> ††	5	5
Macda Avoned Keyless Entry & Start SystemImageImageImageImageImageImageAuto-dimming rearview mirror with HomeLink®ImageI	Bluetooth® hands-free phone capability‡‡			
masses number of white You with HomeLink®Image of the second interior illumination — dome light, ignition switch and trunkImage of the second image of t	Remote keyless entry with retractable key	<b>□</b> ††	5	5
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Interior illumination — done light, ignition switch and trunkImage of the set of the	Auto-dimming rearview mirror with HomeLink®		5	5
Inclusion databasesImageImageImageDriver and passenger visor vanity mirrorsImageImageImage12-volt power outletImageImageImage12-volt power outletImageImageImageRear window defogger with timerImageImageImageStorageImageImageImageLockable glove compartmentImageImageImageCenter console storage with cup holderImageImageImageDoor net pockets with bottle holdersImageImageImageLockable rear storageImageImageImageImageDriver and passenger behind-seat storage — coveredImageImageImageImageDriver seatback storage pocketImageImageImageImagePassenger seatingImageImageImageImageImage6-way adjustable passenger seatImageImageImageImage4-way adjustable passenger seatImageImageImageImage4-way adjustable passenger seatImageImageImageImage14aeter seatsImageImageImageImageImage14aeter seatsImageImageImageImageImage14aeter seatsImageImageImageImageImage14aeter seatsImageImageImageImageImage14aeter seatsImageImageImageImageImage14ae	Tilt steering wheel	5	5	5
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Lockable glove compartmentIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Rear window defogger with timer	5	5	5
Center console storage with cup holderImage: Construction of the construction of	Storage			
Concert outside initiality i	Lockable glove compartment	5	5	5
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Driver's seatback storage pocketImage: seatback storage pocket storage	Lockable rear storage	5	5	5
Direct is statubule storage pocketImage and the statubule storage pocketSeating & Trim2-passenger seatingImage and the storage seatingImage and the storage and	Driver and passenger behind-seat storage — covered	5	5	5
2-passenger seatingImage: Seating seating seatingImage: Seating seat	Driver's seatback storage pocket	5	5	5
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Notice batisImage: Constant of the set of	4-way adjustable passenger seat	5	5	5
Leather-trimmed seatsLeather-wrapped steering wheelLeather-wrapped shift knobLeather-wrapped parking brake handleSilver interior accentsSilver seatback bar accentsPadded center console and door armrestsCarpet floor mats	Heated seats			5
Leather-wrapped steering wheelImage: Comparison of the steering wheelImage: Comparison of th	Cloth-trimmed seats	S	5	
Leather wrapped shift knobImage: second shift knobImage: second shift knobLeather-wrapped parking brake handleImage: second shift knobImage: second shift knobSilver interior accentsImage: second shift knobImage: second shift knobSilver seatback bar accentsImage: second shift knobImage: second shift knobPadded center console and door armrestsImage: second shift knobImage: second shift knobCarpet floor matsImage: second shift knobImage: second shift knob	Leather-trimmed seats			5
Leather-wrapped parking brake handleImage: marking brake handleImage: marking brake handleSilver interior accentsImage: marking brake handleImage: marking brake handleSilver seatback bar accentsImage: marking brake handleImage: marking brake handlePadded center console and door armrestsImage: marking brake handleImage: marking brake handleCarpet floor matsImage: marking brake handleImage: marking brake handleImage: marking brake handle	Leather-wrapped steering wheel	S	5	5
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Silver seatback bar accentsImage: seatbac	Leather-wrapped parking brake handle			5
Padded center console and door armrestsIIICarpet floor matsIIII	Silver interior accents			5
Carpet floor mats S S S	Silver seatback bar accents	<b>•</b> ††	5	5
	Padded center console and door armrests	5	5	5
	Carpet floor mats	5	5	5

AM/FM/CD/MP3-compatible stereo with 6 speakers	5		
AM/FM/in-dash 6-disc CD/MP3-compatible changer with 6 speakers		5	
Bose® audio system with AudioPilot® 2, AM/FM/in-dash 6-disc CD/MP3-compatible changer and 7 speakers			5
SiriusXM Satellite Radio-compatible audio system***	5	5	5
SiriusXM Satellite Radio with free 4-month subscription			
Auxiliary-audio input jack	5	5	5
Steering-wheel-mounted audio controls	<b>□</b> ††	5	5
Instrumentation			
Speedometer, tachometer, oil pressure, coolant temperature and fuel gauge	5	5	5
Dual trip odometers	5	5	5
Trip computer	<b>•</b> ††	5	5
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



standard option option option

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	5	5	5
Side-impact air bags**	5	5	5
3-point seat belts with pretensioners and force limiters	5	5	5
Anti-lock Brake System (ABS) with Electronic Brakeforce Distribution (EBD) and Brake Assist	5	5	5
Dynamic Stability Control (DSC)††† and Traction Control System (TCS)	5	5	5
Side-impact door beams	5	5	5
Collapsible steering column	5	5	5
Security			
Engine-immobilizer antitheft system	5	5	5
Antitheft alarm system			
Keyless remote panic button (on key fob)	<b>□</b> ††	5	5
Tire-Pressure Monitoring System (TPMS)	5	5	5
Tire puncture repair kit (includes compressor, tire sealant, injection hose, spare valve core, valve core tool)	5	5	5

#### **Options & Packages**



standard option --- not available

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	<b>□</b> ††	5	5
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			

† 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.