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› Roinvou Car Stereo User Manual for Mazda MX-5 Miata 2006-2015

Roinvou MX-5 Miata 2006-2015 Head Unit

Roinvou Car Stereo User Manual

Model: MX-5 Miata 2006-2015 Head Unit

1. PRODUCT OVERVIEW

The Roinvou Car Stereo is a sophisticated in-dash navigation and entertainment system designed specifically for Mazda MX-5 Miata models from 2006 to 2015. It features a 9-inch IPS touch screen, built-in Wireless/Wired CarPlay and Android Auto, DSP, Bluetooth, GPS navigation, FM/RDS radio, and Wi-Fi connectivity. This unit offers a seamless upgrade to your vehicle's infotainment system, providing enhanced functionality and user experience.



Figure 1.1: Roinvou Car Stereo and main components including the head unit, backup camera, microphone, and a smartphone displaying CarPlay/Android Auto.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any items are missing or damaged, contact customer support.

- Roinvou Car Stereo for Mazda MX-5 Miata
- Power Cable
- Original USB Cable
- RCA Harness
- GPS Antenna
- AHD Backup Camera

- External Microphone
- Rear Camera Input Cable
- Dual USB Cable
- Installation Tool



Figure 2.1: Visual representation of the package contents, including the main unit, various cables, antennas, and accessories.

3. SETUP AND INSTALLATION

This section provides detailed instructions for installing your new Roinvou Car Stereo. Professional installation is recommended.

3.1 Pre-Installation Checklist

- Ensure the vehicle's ignition is off and the battery is disconnected before starting installation.
- Confirm compatibility with your Mazda MX-5 Miata (2006-2015 model years).
- Gather all necessary tools (e.g., screwdrivers, wire strippers, electrical tape).

3.2 Wiring Connections

Proper wiring is crucial for the stereo's functionality. Refer to the wiring diagram below and connect each cable to its corresponding port.



Figure 3.1: Wiring Port diagram illustrating the connection points for various cables on the back of the head unit.

1. **Power Cable:** Connects to the vehicle's power harness.
2. **RCA Cable:** For audio/video output to external amplifiers or monitors.
3. **USB Cable:** For connecting USB devices and data transfer.
4. **Camera Input:** Dedicated input for the AHD Backup Camera.
5. **GPS Antenna:** Connect for GPS navigation functionality.

3.3 Backup Camera Connection

The backup camera provides a clear view of the rear surroundings. Ensure correct wiring for proper operation.



Figure 3.2: Instructions for connecting the backup camera, highlighting the red and black cable connections to the reverse light circuit.

- **Red Cable:** Connects to the positive terminal of the car's reverse light cable.
- **Black Cable:** Connects to the negative terminal of the car's reverse light cable.
- **Important:** The reverse input cable must be plugged in even if the reverse camera is not being used. Otherwise, it will affect Bluetooth and WiFi signal reception.

3.4 CANBUS Decoder Note

Depending on your vehicle's configuration, you may or may not have a CANBUS decoder. Follow the appropriate instructions below.



Figure 3.3: Guidance on CANBUS decoder connection and steering wheel control setup.

Without CANBUS Decoder:

Connect the plugs or the steering wheel control wires (Key1/Key2) in the power cable to the corresponding port or wire of your original car. Then, follow this path: **Settings > Car Settings > General (Enter SWC setting interface)** to manually match and activate the button function.

With CANBUS Decoder:

Connect the CANBUS before powering on the machine. Then, follow this path: **Settings > Car Settings > Factory (000000) > CarType Setting** to make SWC work properly. First, select the brand of the CANBUS decoder, then select the matching model and year according to the actual situation.

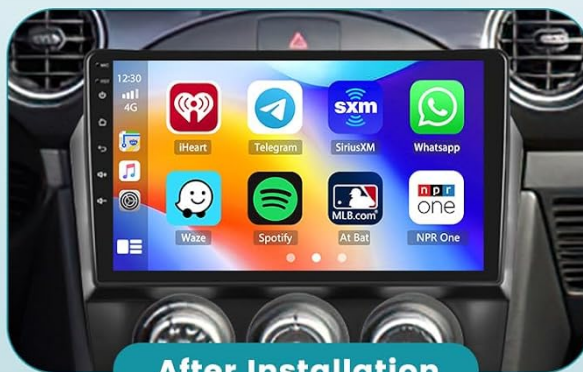
3.5 Post-Installation Check

After installation, reconnect the battery and power on the unit. Test all functions, including audio, touch screen response, GPS, Bluetooth, and camera input.

For Mazda MX-5 Miata 2006–2015



Before Installation



After Installation

Figure 3.4: Comparison of the car dashboard before and after the Roinevo Car Stereo installation.

4. OPERATING INSTRUCTIONS

4.1 Wired/Wireless CarPlay & Android Auto

The unit supports both wired and wireless connections for Apple CarPlay and Android Auto. This allows for seamless integration of your smartphone's navigation, music, and communication features.

- **Intelligent Switching:** Prioritizes wireless connection, with wired as a backup.
- **Automatic Wake-up:** CarPlay/Android Auto automatically activates when you enter the car.
- **Voice Assistant:** Supports Siri and Google Assistant for hands-free control.

Carplay & Android Auto & Mirror Link



Figure 4.1: Overview of CarPlay, Android Auto, and Mirror Link capabilities.

4.2 GPS Navigation & WiFi Connectivity

Navigate with ease using the built-in GPS and online/offline maps. The Wi-Fi connection enables access to online services and app downloads.

- **Online Maps:** Supports real-time navigation with internet connection.
- **Offline Maps:** Comes with pre-loaded North American maps for navigation without internet.
- **Wi-Fi:** Fast, stable, and reliable connection for downloading apps and streaming content.

GPS Navigation & WiFi Connection

You can purchase directly from play store for offline navigation. With wifi connected, Google Maps can be used perfectly, you can go anywhere you want and never get lost again.



Figure 4.2: GPS Navigation and Wi-Fi connection interface.

4.3 FM/RDS Radio & DSP/EQ Settings

Enjoy clear radio reception with RDS features and customize your audio experience with DSP and EQ settings.

- **RDS:** Automatically receives station names, traffic conditions, and news.
- **Intelligent Channel Memory:** Save frequently listened to radio stations.
- **DSP:** Digital Sound Processing for enhanced audio quality.
- **EQ Settings:** Multi-mode one-key switching and manual adjustment for high/medium/low frequency bands.

Hands-free Bluetooth & FM/RDS Radio

Support Bluetooth hands-free calling, Bluetooth music playback and auto-loading phone book. Stable FM/RDS radio provides channel broadcasting, weather forecasts, and real-time traffic conditions.



Figure 4.3: FM/RDS Radio and Bluetooth hands-free interface.

4.4 Bluetooth Hands-free & Mirror Link

Stay connected and safe with Bluetooth hands-free calling and mirror your smartphone screen directly to the head unit.

- **Bluetooth:** Supports multi-device switching for calls and music playback.
- **Mirror Link:** Seamlessly projects your phone's interface, allowing touch control for navigation, music, and apps.

4.5 Steering Wheel Control & AHD Reversing Camera

Control your stereo conveniently using existing steering wheel buttons and enhance safety with the included AHD reversing camera.

- **Steering Wheel Control (SWC):** Supports learning original steering wheel buttons for easy control.
- **AHD Reversing Camera:** Provides a 170-degree ultra-wide field of view for clear rear visibility.

Steering Wheel Control & AHD Rear View Camera

Upgrade your driving with steering wheel control and AHD reversing screen display with precision and safety in your hands.



Previous



Next



HangUP



Answer



Volume+



Volume-

Figure 4.4: Steering Wheel Control interface and AHD Rear View Camera display.

4.6 UI Themes & EQ Settings

Personalize your stereo's appearance and audio output with a variety of UI themes and detailed equalizer settings.

- **26 UI Themes:** Switch between various desktop themes to match your preference.
- **EQ Options:** Multiple preset EQ modes and manual adjustment for a superior music listening experience.

26UI Themes & EQ Settings

Support multiple EQ options and 26 desktop themes, allows you to enjoy a superior music listening experience and switch your favorite user interface style.



Figure 4.5: Examples of different UI themes and the audio equalizer interface.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Roinvou Car Stereo, follow these maintenance guidelines:

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touch screen. Avoid abrasive cleaners or solvents.
- **Dust Removal:** Periodically clean dust from vents and ports using compressed air or a soft brush.
- **Software Updates:** Check for and install any available software updates to ensure the system runs efficiently and has the latest features.
- **Avoid Extreme Temperatures:** Do not expose the unit to extreme heat or cold, as this can affect electronic components.
- **Cable Inspection:** Periodically check all connected cables for any signs of wear or damage.

6. TROUBLESHOOTING

If you encounter issues with your Roinvou Car Stereo, refer to the following common problems and their solutions.

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, blown fuse, vehicle battery issue.	Check power cable connections. Inspect vehicle fuses. Ensure car battery is charged.
No sound from speakers.	Speaker wires disconnected, volume too low, mute activated, incorrect audio settings.	Verify speaker wire connections. Increase volume. Check if mute is on. Adjust audio output settings.
GPS signal lost or inaccurate.	GPS antenna obstructed or disconnected, unit in an area with poor signal.	Ensure GPS antenna is properly connected and has a clear view of the sky. Move to an open area.
Bluetooth/WiFi signal weak.	Reverse input cable not connected (even if camera not used).	Ensure the reverse input cable is plugged into the unit.
Steering Wheel Controls not working.	Incorrect wiring, CANBUS setting issue, not programmed.	Check SWC wiring. If no CANBUS, manually program via settings. If CANBUS, verify CANBUS settings (refer to Section 3.4).
CarPlay/Android Auto not connecting.	Incorrect USB cable, phone settings, software glitch.	Use original USB cable. Check phone's CarPlay/Android Auto settings. Restart phone and stereo.

If the problem persists after attempting these solutions, please contact Roinvou customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Display Size	9 Inches
Resolution	1024 x 600
Operating System	Android (Latest Android version as of product release)
RAM	2GB
ROM	64GB
Connectivity	Bluetooth, Wi-Fi, USB
Special Features	CarPlay, Android Auto, Touchscreen, FM RDS Radio, Mirror Link, GPS Navigation, DSP, EQ, SWC, 26 Desktop Themes
Map Type	North America (Offline Maps)
Audio Output Mode	Stereo
Item Weight	3.19 pounds

Feature	Detail
Package Dimensions	11.02 x 9.65 x 3.94 inches
Country of Origin	China

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The Roinvou Car Stereo comes with a **1 Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by improper installation, accident, misuse, abuse, neglect, or unauthorized modification.

Extended protection plans may be available for purchase:

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly subscription covering eligible past and future purchases)

8.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your Roinvou Car Stereo, please contact Roinvou customer support.

- **Online Support:** Visit the official Roinvou store on Amazon or their website for FAQs and support resources.
- **Contact via Amazon:** You can send a message to the seller "Roinvou" through your Amazon order details.

Please have your product model number (MX-5 Miata 2006-2015 Head Unit) and purchase date ready when contacting support.