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› Retoo 1 DIN Car Radio M024-1: Bluetooth, USB, SD, AUX, FM/RDS Tuner Instruction Manual

Retoo M024-1

Retoo 1 DIN Car Radio M024-1 Instruction Manual

Bluetooth, USB, SD, AUX, FM/RDS Tuner

1. INTRODUCTION

Thank you for choosing the Retoo 1 DIN Car Radio M024-1. This manual provides essential information for the safe and efficient operation of your new car radio. Please read it thoroughly before installation and use, and retain it for future reference.

This car radio features a Bluetooth hands-free system, dual USB ports for music playback and device charging, an SD card slot, AUX input, and an FM/RDS radio tuner with customizable RGB lighting. It is designed to enhance your in-car audio experience and connectivity.

2. SAFETY INFORMATION

- **Power Supply:** Ensure the car radio is connected to a 12V DC power supply with negative grounding. Incorrect voltage can damage the unit.
- **Installation:** Professional installation is recommended. Incorrect wiring can cause damage to the vehicle's electrical system or the radio.
- **Wiring:** Before connecting, ensure all wires are properly insulated to prevent short circuits. Refer to the wiring diagram.
- **Driving Safety:** Do not operate the radio in a way that distracts you from driving. Always prioritize road safety.
- **Temperature:** Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.
- **Moisture:** Keep the unit dry. Exposure to moisture can cause malfunction or electric shock.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Retoo 1 DIN Car Radio M024-1
- Remote Control
- ISO Wiring Harness (Power and Speaker)
- Mounting Frame
- Disassembly Keys (2 pcs)

- User Manual (this document)



Image: The Retoo 1 DIN Car Radio M024-1 shown with its remote control, wiring harness, and disassembly keys.

4. PRODUCT OVERVIEW

Front Panel Layout

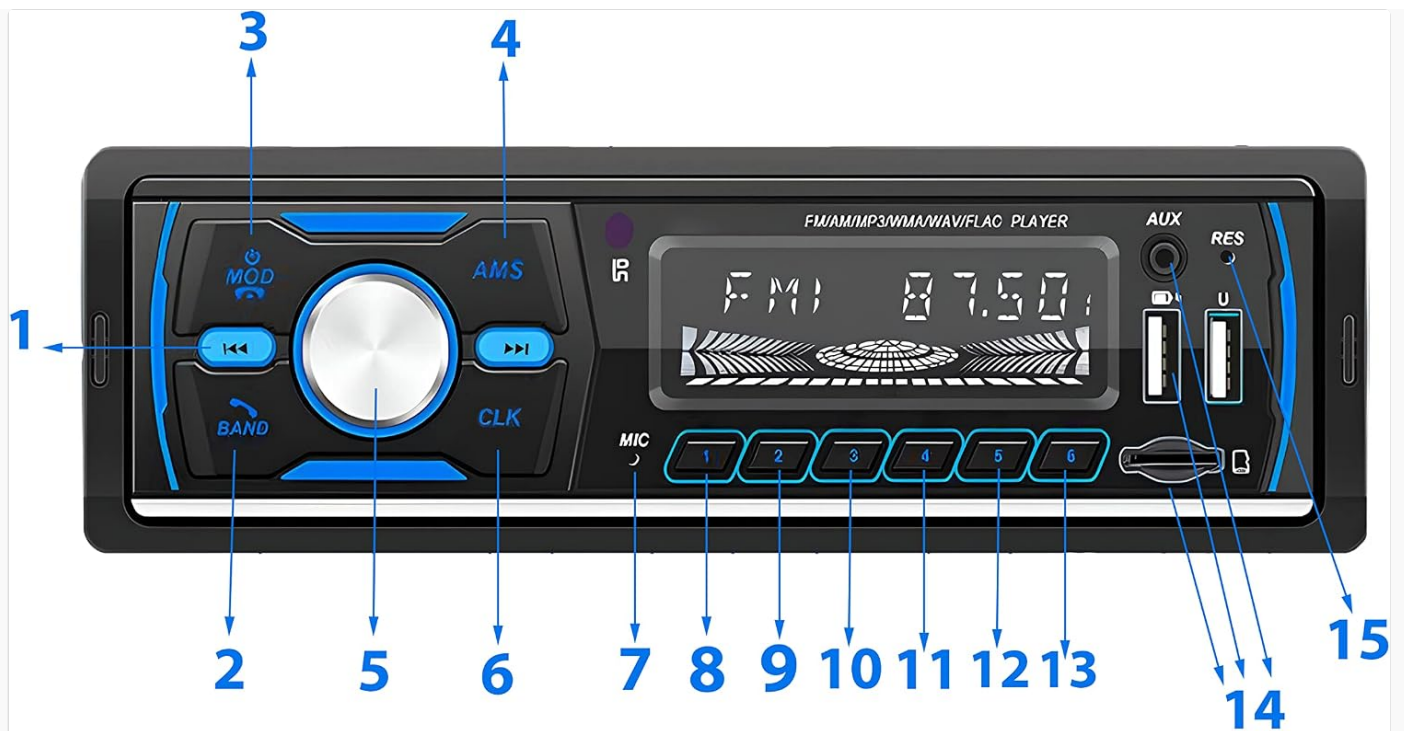


Image: Detailed view of the car radio's front panel with numbered components for identification.

1. **Power/Mode (MOD) Button:** Press to turn on/off, switch between modes (FM/USB/SD/AUX/Bluetooth).
2. **Band Button:** Selects radio bands (FM1, FM2, FM3).
3. **Previous Track/Tune Down Button:** Short press for previous track/station, long press for fast reverse/manual tuning.
4. **AMS (Automatic Memory Store) Button:** Auto-scan and store FM stations.
5. **Volume Knob/Select (SEL) Button:** Rotate to adjust volume. Press to cycle through audio settings (Bass, Treble, Balance, Fader, EQ, Loud, etc.).
6. **Next Track/Tune Up Button:** Short press for next track/station, long press for fast forward/manual tuning.
7. **CLK (Clock) Button:** Displays time. Long press to set time.
8. **Microphone (MIC):** Built-in microphone for hands-free calls.
9. **Preset Buttons (1-6):** Store and recall radio stations. Also function as playback controls (e.g., Play/Pause, Repeat).
10. **AUX Input:** 3.5mm jack for external audio devices.
11. **Reset (RES) Button:** Small button to reset the unit to factory settings (requires a pointed object).
12. **USB Port (Charging):** Dedicated USB port for charging mobile devices.
13. **USB Port (Media):** USB port for connecting USB flash drives for music playback.

14. **SD Card Slot:** Slot for MicroSD/TF cards for music playback.

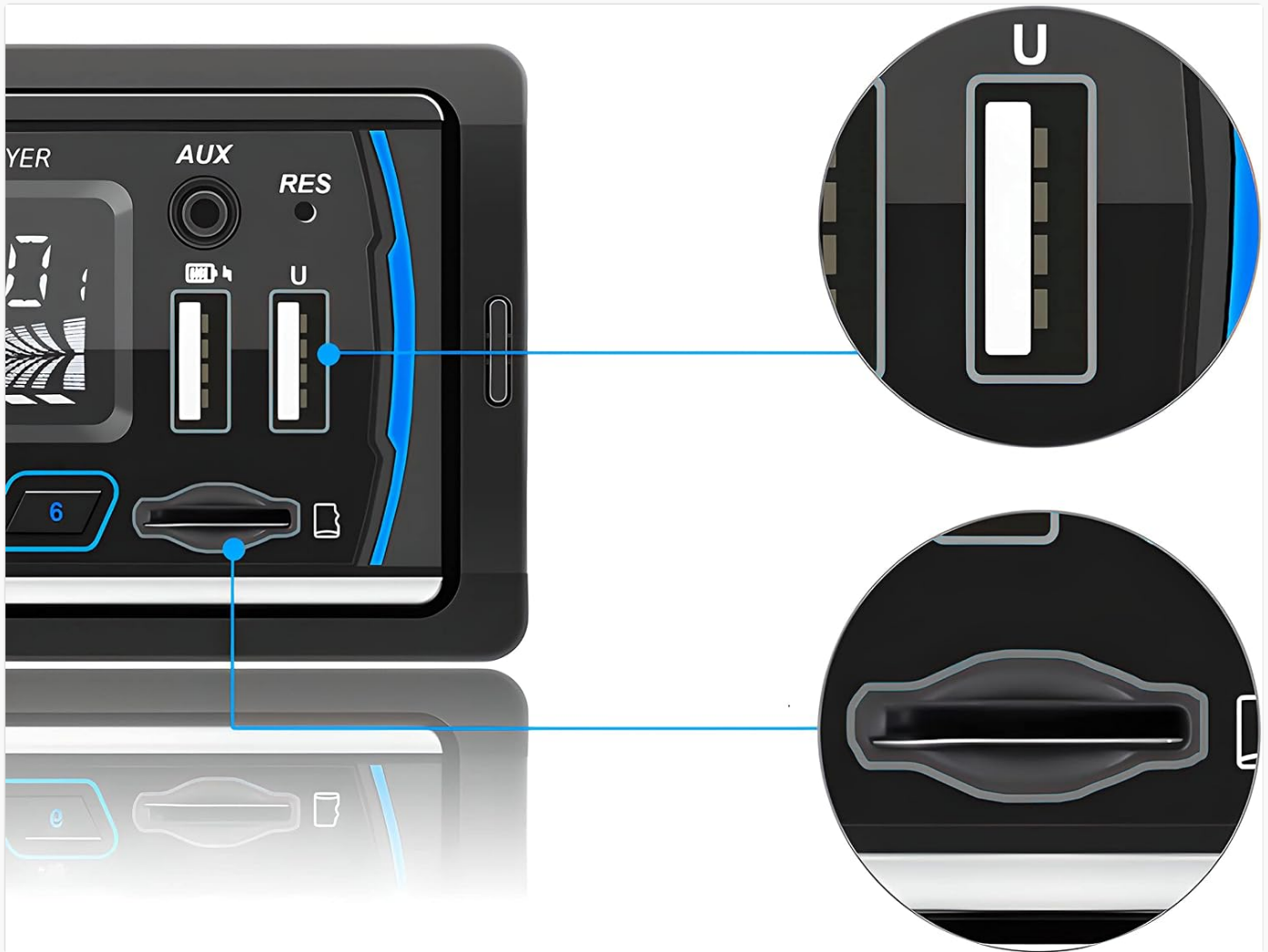


Image: A close-up view highlighting the dual USB ports and the SD card slot on the front panel of the car radio.

Rear Panel Connections



Image: The rear panel of the car radio, displaying the main wiring harness connector, antenna input, and RCA audio outputs.

The rear panel includes the main ISO connector for power and speaker wiring, an antenna input, and RCA outputs for connecting external amplifiers.

5. INSTALLATION

Warning: Incorrect installation can cause damage to the unit or vehicle. If you are unsure, seek professional assistance.

Wiring Diagram

The included ISO wiring harness simplifies connection. Match the wires according to the standard ISO color codes:

- **Yellow (B+):** Constant 12V (Battery)
- **Red (ACC):** Switched 12V (Ignition)
- **Black (GND):** Ground
- **Blue (ANT):** Power Antenna/Amplifier Remote (12V when radio is on)
- **Speaker Wires:**
 - White/White-Black: Front Left Speaker (+/-)
 - Grey/Grey-Black: Front Right Speaker (+/-)
 - Green/Green-Black: Rear Left Speaker (+/-)
 - Purple/Purple-Black: Rear Right Speaker (+/-)

Note: Some vehicles may require swapping the Yellow (B+) and Red (ACC) wires for proper operation. Consult your vehicle's wiring diagram if necessary.

Installation Steps

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your car battery to prevent electrical shorts.
2. **Remove Old Radio:** Use the appropriate tools to carefully remove your existing car radio.
3. **Install Mounting Sleeve:** Insert the metal mounting sleeve into the dashboard opening and bend the tabs to secure it.
4. **Connect Wiring:** Connect the included ISO wiring harness to your vehicle's wiring. Ensure all connections are secure and insulated. Connect the antenna cable.
5. **Test Connections:** Reconnect the car battery and briefly test the radio's basic functions (power on/off, sound, radio reception) before fully inserting it.
6. **Insert Radio:** Carefully slide the car radio into the mounting sleeve until it clicks into place.
7. **Final Check:** Test all functions thoroughly.



Image: The Retoo car radio, its mounting cage, and the wiring harness, illustrating the components involved in installation.



Image: The Retoo car radio seamlessly integrated into a vehicle's dashboard, demonstrating a typical installation.

6. OPERATION

6.1 Basic Functions

- **Power On/Off:** Press the **MOD** button to turn the unit on. Long press to turn off.
- **Volume Control:** Rotate the **Volume Knob** to adjust the sound level.
- **Mode Selection:** Press the **MOD** button repeatedly to cycle through available modes: FM, USB, SD, AUX, Bluetooth.
- **Audio Settings:** Press the **Volume Knob (SEL)** to access audio settings like Bass, Treble, Balance, Fader, EQ (Equalizer presets), and Loudness. Rotate the knob to adjust values.
- **Clock Setting:** Press **CLK** to display time. Long press **CLK** to enter time setting mode. Use the **Previous/Next Track** buttons to adjust hours/minutes, and **SEL** to confirm.

6.2 FM Radio Operation

- **Select Band:** In FM mode, press **BAND** to switch between FM1, FM2, and FM3.
- **Automatic Scan:** Long press **AMS** to automatically scan and store strong stations into the preset buttons (1-6).
- **Manual Tuning:** Long press the **Previous/Next Track** buttons to manually tune frequencies.
- **Preset Stations:** Short press **Previous/Next Track** buttons to jump between stored stations. Press preset buttons (1-6) to recall specific stored stations. Long press a preset button to store the current station.

6.3 Bluetooth Connectivity

The car radio supports Bluetooth for wireless audio streaming and hands-free calling.

- **Pairing:**
 - a. Switch the radio to Bluetooth mode (BT). The display will show "BT".
 - b. On your mobile device, enable Bluetooth and search for available devices.
 - c. Select "CAR BT" (or similar) from the list. If prompted for a PIN, enter "0000".
 - d. Once paired, the display will show "CONNECTED".
- **Hands-Free Calling:**
 - **Answer Call:** Press the **MOD** button (or green call button on remote) to answer an incoming call.
 - **End Call:** Press the **MOD** button (or red call button on remote) to end a call.
 - **Dialing:** Dial from your phone; audio will automatically transfer to the car speakers.
- **Audio Streaming:** Play music from your paired device. Use the **Previous/Next Track** buttons on the radio or remote to control playback.



Image: Illustration of two smartphones wirelessly connected to the car radio, demonstrating Bluetooth audio streaming and hands-free capabilities.

6.4 USB/SD Card Playback

Insert a USB flash drive into the media USB port or an SD card into the SD slot. The unit will automatically switch to USB/SD mode and begin playback.

- **Supported Formats:** MP3, WMA.
- **Playback Controls:** Use the **Previous/Next Track** buttons for track navigation. Preset button **1** typically functions as Play/Pause.

6.5 AUX Input

Connect external audio devices (e.g., MP3 players, older smartphones) to the 3.5mm AUX input on the front panel using an audio cable. Switch the radio to AUX mode using the **MOD** button.

6.6 RGB Color Customization

The car radio features customizable RGB lighting. The specific method for changing colors may vary. Typically, a long press on the **BAND** button or a dedicated button on the remote control cycles through available colors or color modes.



Image: The car radio's display illuminated in different RGB colors, showcasing the customizable lighting feature.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the unit's front panel. Do not use abrasive cleaners, solvents, or chemical sprays.
- **Dust:** Regularly remove dust from the unit's vents to ensure proper heat dissipation.
- **Fuse Replacement:** If the unit does not power on, check the fuse located on the rear panel. Replace it with a fuse of the same rating (e.g., 10A).

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power	Incorrect wiring; Blown fuse; Loose connection	Check power (Yellow, Red, Black) connections. Verify fuse. Ensure battery is connected.
No sound	Speaker wires disconnected; Volume too low; Mute function active	Check speaker wiring. Increase volume. Deactivate mute.
Radio reception poor	Antenna not connected; Weak signal area; Damaged antenna	Ensure antenna is securely connected. Try a different location. Check antenna for damage.
Bluetooth not connecting	Device not in pairing mode; Incorrect PIN; Already connected to another device	Ensure radio is in BT mode. Make sure phone's Bluetooth is on and discoverable. Forget device on phone and re-pair.
USB/SD not playing	Unsupported file format; Corrupted files; Drive/card not inserted correctly	Ensure files are MP3/WMA. Reinsert USB/SD. Try a different USB/SD.
Remote control not working	Dead battery; Obstruction; Not pointed at IR sensor	Replace remote battery. Remove obstructions. Point remote directly at the radio's IR sensor.

If problems persist after attempting these solutions, please contact customer support.

9. SPECIFICATIONS

- **Model:** M024-1
- **Type:** 1 DIN Car Radio
- **Power Output:** 4 x 50 Watts (Max)
- **Tuner:** FM/RDS
- **Connectivity:** Bluetooth, Dual USB (Media & Charging), SD Card Slot, AUX Input (3.5mm)
- **Supported Audio Formats:** MP3, WMA
- **Hands-Free:** Yes, with built-in microphone
- **Display:** LCD with RGB color options
- **Power Supply:** DC 12V (Negative Ground)
- **Dimensions (Product):** 18.5 x 12 x 5.3 cm (approx.)
- **Weight:** 400 g (approx.)



Image: A technical diagram illustrating the precise dimensions of the Retoo car radio in millimeters.

10. WARRANTY AND SUPPORT

For warranty information, please refer to the terms and conditions provided at the point of purchase or contact your retailer. Keep your proof of purchase for any warranty claims.

For technical support or further assistance, please contact Retoo customer service through the retailer's platform or the official Retoo website.

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