Clarion M508

Clarion M508 Single DIN Digital Media Receiver

User Manual

Model: M508

1. Introduction

Thank you for choosing the Clarion M508 Single DIN Digital Media Receiver. This unit is designed to provide high-quality audio entertainment in a marine environment, featuring robust construction and advanced connectivity options. This manual provides essential information for the proper installation, operation, and maintenance of your M508 receiver to ensure optimal performance and longevity.
Key features include:

- Environmentally Tough Design
- Clearly Visible High Contrast LCD Display
- High Quality Bluetooth Audio Streaming powered by Qualcomm aptX and Hands-free Calling
- SiriusXM Satellite Radio Ready (with optional tuner)
- Global Radio Tuner with Weather Band

2. Safety Information

Please read all safety instructions carefully before installing and operating the M508 receiver. Failure to follow these instructions may result in injury, damage to the unit, or voiding of the warranty.

- **Power Supply:** Connect the unit only to a 12V DC power supply with a negative ground.
- **Wiring:** Ensure all wiring is correctly connected according to the wiring diagram. Incorrect wiring can cause fire or damage.
- **Installation Location:** Install the unit in a location that does not obstruct the driver's view or interfere with vehicle operation. Ensure adequate ventilation.
- **Water Exposure:** While designed for marine environments, avoid direct high-pressure water spray or submersion.

- **Professional Installation:** If you are unsure about installation procedures, consult a qualified technician.

3. Package Contents

Verify that all items are present in the package before proceeding with installation:

- Clarion M508 Digital Media Receiver Unit
- Wiring Harness
- Mounting Hardware (screws, mounting sleeve, trim ring)
- User Manual (this document)
- Warranty Information

4. Product Overview and Features

The Clarion M508 is engineered for durability and high-fidelity audio in challenging environments. Its intuitive interface and robust feature set make it an ideal choice for marine applications.



Figure 4.1: Angled view of the Clarion M508 Digital Media Receiver, highlighting its compact design and connection points.



Figure 4.2: Front panel of the Clarion M508, showing the high-contrast LCD display, rotary encoder, and control buttons.

Key Features Detailed:

- **High Contrast LCD Display:** Provides excellent visibility even in bright sunlight, crucial for outdoor use.
- **Bluetooth Connectivity:** Integrated Bluetooth for wireless audio streaming (A2DP) and hands-free calling (HFP) with Qualcomm aptX support for superior sound quality.

- **USB and Auxiliary Inputs:** Front-panel USB port for digital media playback and charging, along with a 3.5mm auxiliary input for connecting external audio devices.
- **SiriusXM Ready:** Connect an optional SiriusXM Connect Vehicle Tuner (SXV100/200/300, sold separately) for access to satellite radio programming.
- **Global Radio Tuner:** Supports various radio bands including AM/FM and Weather Band for comprehensive reception.
- **Marine Grade Construction:** Built to withstand harsh marine conditions, offering resistance to salt, fog, and UV exposure.

5. Installation Guide

Proper installation is critical for the performance and longevity of your M508 receiver. If you are not confident in performing the installation yourself, it is recommended to seek professional assistance.

5.1. Preparation

- Disconnect the vehicle's negative battery terminal to prevent short circuits.
- Ensure you have all necessary tools: wire strippers, crimpers, electrical tape, screwdrivers, etc.
- Identify a suitable mounting location, typically a single DIN opening in your dashboard or console.

5.2. Mounting the Unit

1. Insert the supplied mounting sleeve into the dashboard opening. Bend the tabs outward to secure it.
2. Slide the M508 unit into the mounting sleeve until it clicks into place.
3. Attach the trim ring around the front of the unit for a finished look.

5.3. Wiring Connections

Refer to the wiring diagram provided with your unit's wiring harness. Common connections include:

- **Yellow (Constant 12V):** Connect to a constant 12V power source.
- **Red (Accessory 12V):** Connect to a switched 12V power source (ignition).
- **Black (Ground):** Connect to a clean chassis ground point.
- **Blue/White (Remote Turn-On):** For external amplifiers or power antennas.
- **Speaker Wires:** Connect to your speakers, ensuring correct polarity (+/-).
- **Antenna Input:** Connect your marine antenna cable.
- **RCA Outputs:** For connecting external amplifiers (Front, Rear, Subwoofer).

Warning: Incorrect wiring can cause severe damage to the unit or vehicle's electrical system. Double-check all connections before reconnecting the battery.

6. Operating Instructions

This section details the basic operation of your Clarion M508 receiver.

6.1. Basic Controls

Button/Control	Function
SRC (Source)	Press to cycle through available audio sources (Tuner, Bluetooth, USB, AUX, SiriusXM).

Button/Control	Function
Rotary Knob	Rotate to adjust volume. Press to access menu options or confirm selections.
BAND	In Tuner mode, press to switch between AM, FM, and Weather Band.
MENU	Access system settings and audio adjustments.
DISP (Display)	Change display information or adjust brightness.
SCAN / SEEK	Scan for radio stations or skip tracks.

6.2. Bluetooth Operation

1. **Pairing:**
    - Ensure Bluetooth is enabled on your mobile device.
    - Select "Bluetooth" as the source on the M508.
    - On your device, search for Bluetooth devices and select "Clarion M508".
    - Confirm the pairing code if prompted.
2. **Audio Streaming:** Once paired, audio from your device will stream to the M508. Use the M508 controls or your device to play/pause, skip tracks.
3. **Hands-Free Calling:** When a call comes in, the M508 will display caller information. Use the M508 controls to answer or end calls.

6.3. USB Playback

1. Insert a USB flash drive into the front USB port.
2. The unit will automatically switch to USB source and begin playback of compatible audio files.
3. Use the track skip buttons to navigate through songs.

7. Maintenance

Regular maintenance will help preserve the appearance and functionality of your M508 receiver.

- **Cleaning:** Use a soft, dry cloth to wipe the unit's surface. For stubborn dirt, dampen the cloth with a mild, non-abrasive cleaner. Do not use harsh chemicals or abrasive materials.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion, especially in marine environments.
- **Environmental Care:** While designed for marine use, prolonged exposure to direct sunlight or extreme temperatures should be minimized when possible.

8. Troubleshooting

If you encounter issues with your M508 receiver, refer to the following common problems and solutions before contacting support.

Problem	Possible Cause	Solution
No Power	Blown fuse; Incorrect wiring; Loose power connection.	Check vehicle fuse and unit fuse. Verify all power and ground connections.

Problem	Possible Cause	Solution
No Sound	Volume too low; Mute activated; Incorrect speaker wiring; Amplifier not powered.	Increase volume. Check mute setting. Verify speaker connections and amplifier power.
Bluetooth Not Connecting	Device not in pairing mode; M508 not in Bluetooth source; Interference.	Ensure both devices are in pairing mode. Select Bluetooth source on M508. Try re-pairing.
USB Playback Error	Incompatible file format; Corrupted USB drive; USB drive not properly inserted.	Check file formats. Try a different USB drive. Reinsert USB drive firmly.

If the problem persists after trying these solutions, please contact Clarion customer support.

9. Specifications

Technical specifications for the Clarion M508 Digital Media Receiver:

Model Number: M508

Display Type: LCD (High Contrast)

Connectivity Technology: Bluetooth, Auxiliary, USB

Controller Type: Keypad, Rotary Knob, Bluetooth

Compatible Devices: Smartphone, Speaker

Connector Type: USB, 3.5mm Jack

Audio Output Mode: Stereo

Color: Black

Output Power: 18 Watts (RMS per channel, typical)

Item Weight: Approximately 3 pounds (1.36 kg)

Package Dimensions: Approximately 12.01 x 9.37 x 3.39 inches (30.5 x 23.8 x 8.6 cm)

Manufacturer: Clarion

10. Warranty and Support

Clarion products are manufactured to the highest quality standards and are backed by a limited warranty. Please refer to the separate warranty card included in your package for specific terms and conditions, including warranty period and coverage details.

For technical support, troubleshooting assistance, or warranty claims, please contact Clarion customer service. You can find contact information on the official Clarion website or through your authorized dealer.

For more information about Clarion products, visit the Clarion Store on Amazon.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question