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Garmin MS-RA800

Garmin Fusion Apollo MS-RA800 Marine Stereo User Manual

Model: MS-RA800

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Garmin Fusion Apollo MS-RA800 Marine Stereo. Please read this manual thoroughly before using the device to ensure proper functionality and to maximize your marine audio experience.

1.1 Product Overview

The Fusion Apollo MS-RA800 is an advanced marine stereo system designed for high-quality audio performance on watercraft. It features a premium touchscreen interface, built-in Wi-Fi connectivity, and an upgraded internal amplifier.



Figure 1.1: Front view of the Garmin Fusion Apollo MS-RA800 Marine Stereo.

1.2 Key Features

- **Sleek Design:** Edge-to-edge glass faceplate for a modern aesthetic.
- **High-Resolution Audio:** Supports lossless audio codecs via Wi-Fi for optimal sound.
- **Upgraded Internal Amplifier:** Class-D amplifier with 50% more power output than the RA770 model.
- **Faster Processor:** Provides quicker response times for the user interface.
- **Wi-Fi Connectivity:** Built-in Wi-Fi for AirPlay audio streaming from Apple devices and enhanced listening experience with MIMO technology.
- **Stereo Grouping:** Connect multiple Apollo Series stereos to share audio sources across different listening zones.
- **4.3" LCD Touchscreen:** Improved image sharpness, color saturation, viewing angles, and daylight readability.
- **True-Marine Design:** IPX6- and IPX7-rated water-resistant front face, tested against salt fog, temperature, vibration, and UV exposure.
- **NMEA 2000 Network Integration:** Wired networking for stereo control with compatible chartplotters and MFDs.
- **Wireless Remote Control:** Control via compatible smart devices and Garmin smartwatches, with over-the-air software updates via the Fusion Audio app.
- **Multiple Source Options:** AM/FM radio, Bluetooth connectivity, AUX inputs, USB connections, and available built-in DAB+ radio tuner.

2. SETUP

2.1 What's in the Box

Verify that all components are present before beginning installation:

- Fusion Apollo MS-RA800 marine stereo
- Mounting gasket
- Four 8-gauge self-tapping screws
- Two screw covers
- Power and speaker wiring harness
- Auxiliary-in, line-out and subwoofer-out wiring harnesses
- 6 ft (2 m) drop cable for the NMEA 2000 network
- Dust cover
- Documentation (this manual)

ACCESSORIES

COVERS AND MOUNTING KITS



RA800 DUST COVER



RA800 RETROFIT KIT



GARMIN SPECTRA™

Figure 2.1: Included accessories and optional retrofit kit.

2.2 Installation Guidelines

The MS-RA800 is designed for flush mounting and offers a plug-and-play upgrade for 12- or 24-volt installations, maintaining the same size and form factor as its predecessor unit. Ensure the mounting location is secure and provides adequate ventilation.

- **Power Connection:** Connect the power wiring harness to a 12V or 24V DC power source, ensuring correct polarity.
- **Speaker Connections:** Connect your marine speakers to the speaker wiring harness. The internal amplifier supports a 4-channel configuration.
- **Auxiliary and Line-Out Connections:** Use the provided harnesses for auxiliary audio input, line-out, and subwoofer-out connections as needed.
- **NMEA 2000 Network:** Connect the NMEA 2000 drop cable to integrate the stereo with compatible chartplotters and Multi-Function Displays (MFDs) on your vessel.
- **Mounting:** Secure the stereo using the four 8-gauge self-tapping screws and mounting gasket. Apply screw covers for a finished look.

3. OPERATING INSTRUCTIONS

3.1 Basic Operation

The MS-RA800 features a 4.3" LCD touchscreen for intuitive control. Power on the device using the dedicated power button. Navigate through menus and select audio sources using the touchscreen interface and rotary knob.



Figure 3.1: Touchscreen interface for audio selection and control.

3.2 Audio Sources and Playback

- **AM/FM Radio:** Select the radio source and use the touchscreen to tune stations.
- **Bluetooth:** Pair your compatible smart device via Bluetooth to stream audio wirelessly.
- **Wi-Fi (AirPlay):** Connect to a Wi-Fi network to enable AirPlay audio streaming from Apple devices for high-resolution lossless audio.
- **AUX Input:** Connect external audio devices using the auxiliary input.

- **USB:** Connect USB storage devices for audio playback.
- **DAB+ Radio:** If equipped, select the DAB+ source for digital radio broadcasts.

3.3 Stereo Grouping and Zone Control

The MS-RA800 supports stereo grouping, allowing you to connect multiple Apollo Series stereos to create a synchronized audio experience across different listening zones on your boat. Use the system settings to configure zones and control individual or grouped volumes.

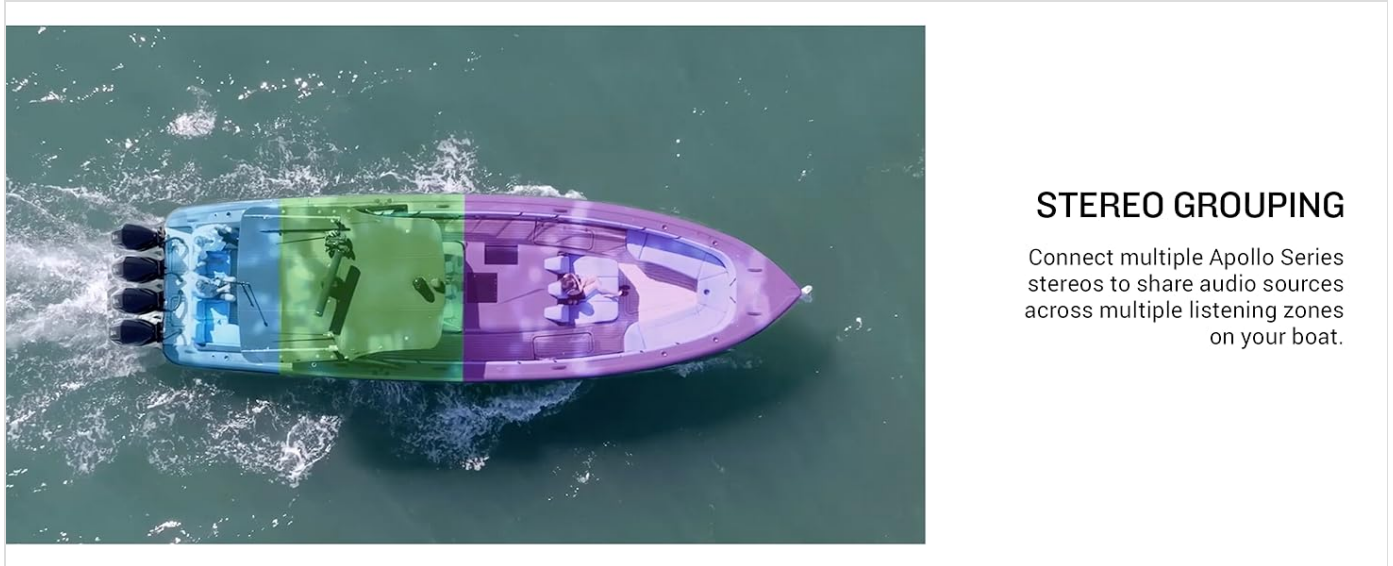


Figure 3.2: Visual representation of stereo grouping across different zones on a boat.

3.4 Remote Control and App Integration

Control your MS-RA800 stereo wirelessly using the Fusion Audio app on compatible smart devices or Garmin smartwatches. The app allows for remote audio control, volume adjustments, source selection, and over-the-air software updates.



FUSION® AUDIO APP

CONTROL YOUR STEREO
FROM A COMPATIBLE GARMIN
SMARTWATCH OR OTHER
SMART DEVICE



FOR SMARTWATCH OR
SMART DEVICE

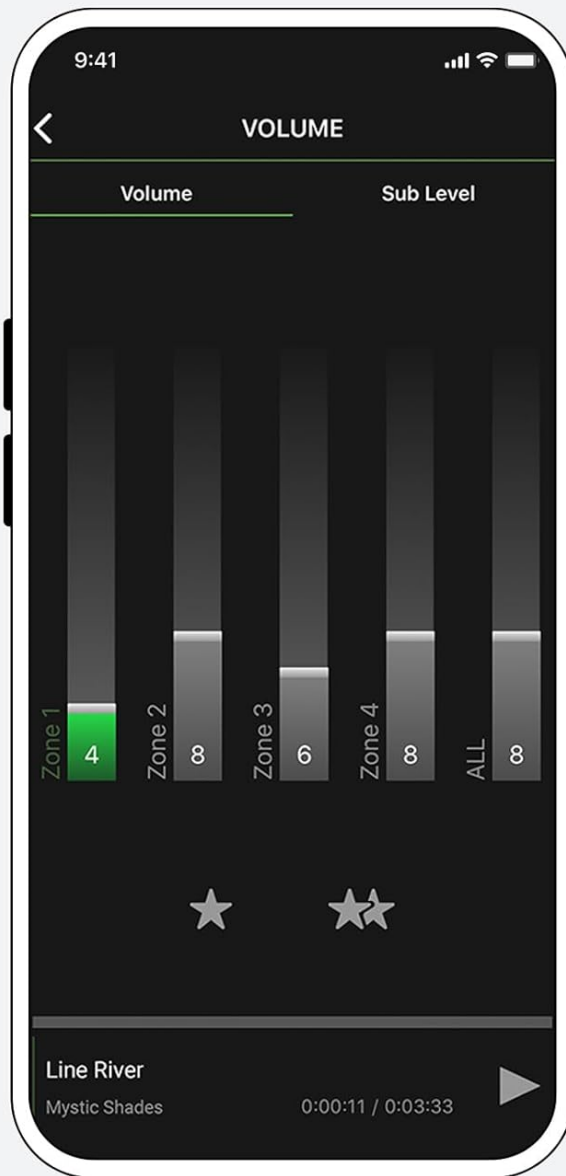
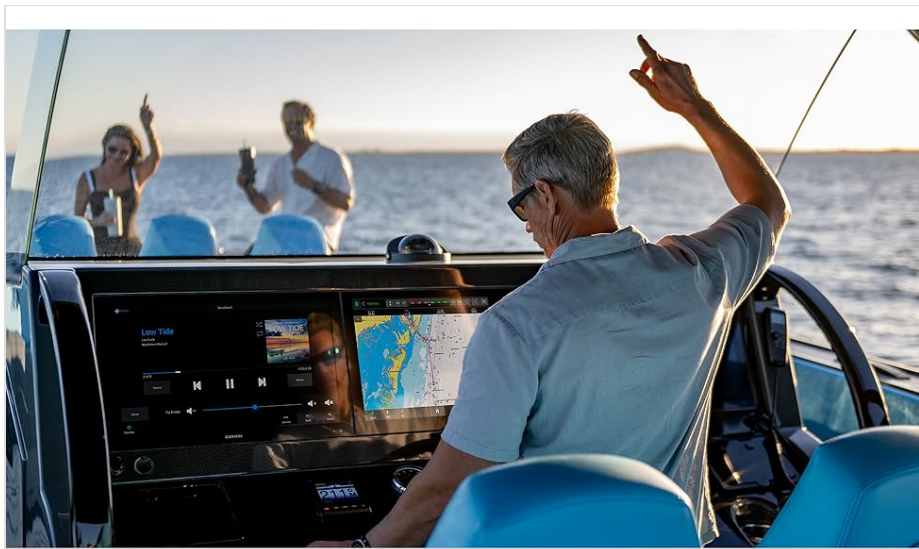


Figure 3.3: Remote control options via Fusion Audio App and Garmin smartwatch.

3.5 MFD Networking

Integrate the MS-RA800 with compatible Garmin Multi-Function Displays (MFDs) via the NMEA 2000 network for centralized audio control directly from your helm.



UPGRADED INTERNAL AMP

The built-in Class-D amplifier can deliver 4 x 40 watts RMS (all channels driven) with less than 0.1% total harmonic distortion at 4 ohms – producing over 50% more power output¹ than its predecessor.

¹Compared to predecessor RA770 model

Figure 3.4: MFD networking for integrated audio control.

3.6 Garmin Spectra Integration

If your boat is equipped with Garmin Spectra, you can control LED lights from your compatible chartplotter or smartphone. This allows for assigning and controlling different lighting groups or scenes, and even synchronizing lights with music.

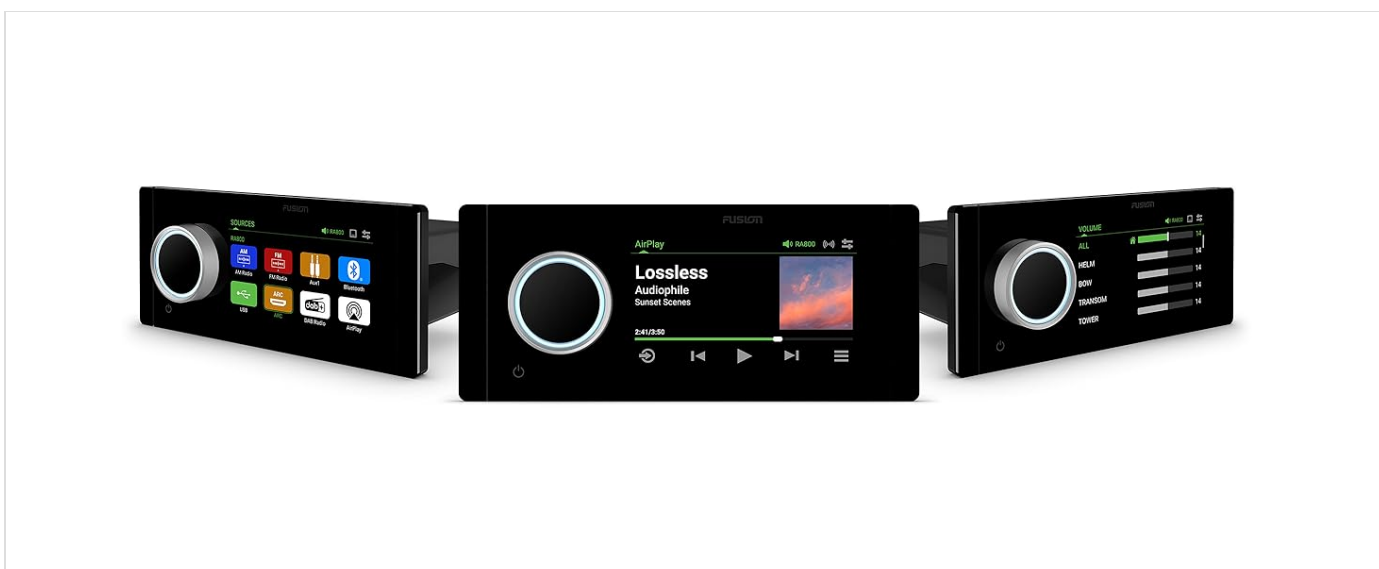


Figure 3.5: Garmin Spectra controlling boat interior lighting.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your MS-RA800 marine stereo.

- **Cleaning:** Use a soft, damp cloth to clean the touchscreen and exterior. Avoid abrasive cleaners or solvents.
- **Dust Cover:** Utilize the provided dust cover when the stereo is not in use to protect it from environmental elements.
- **Software Updates:** Keep the stereo's software updated via the Fusion Audio app to ensure access to the latest features and performance enhancements.
- **Connections:** Periodically check all wiring connections for corrosion or looseness, especially in a marine environment.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your MS-RA800 marine stereo.

Problem	Possible Cause	Solution
No power	Loose power connection, blown fuse, incorrect wiring.	Check power cable connections. Inspect and replace any blown fuses. Verify wiring against installation instructions.
No audio output	Incorrect source selected, speaker wires disconnected, volume too low, amplifier issue.	Ensure the correct audio source is selected. Check all speaker wire connections. Increase volume. If using external amplifier, check its power and connections.
Bluetooth/Wi-Fi connectivity issues	Device out of range, interference, incorrect pairing/network settings.	Ensure device is within range. Minimize interference from other electronic devices. Re-pair Bluetooth device or re-connect to Wi-Fi network.
Touchscreen unresponsive	Temporary software glitch, screen dirty.	Restart the stereo. Clean the screen with a soft, damp cloth.

If you continue to experience issues, refer to the support section for further assistance.

6. SPECIFICATIONS

Feature	Detail
Model Number	010-02937-00
Product Dimensions	4.7 x 3.23 x 7.56 inches
Item Weight	1.65 pounds
Connectivity Technologies	Bluetooth, HDMI, Wi-Fi
Wireless Communication	Bluetooth, Wi-Fi
Special Features	AM Tuner, Built-In Bluetooth, Built-In Wi-Fi, Digital Display Screen, FM Tuner
Display Features	Wireless
Color	Black
Controller Type	Android, iOS
Compatible Devices	Smartphone, Tablet
Total HDMI Ports	1
Connector Type	RCA, USB Type-C
Audio Output Mode	Stereo
Surround Sound Channel Configuration	4
Manufacturer	Garmin Fusion

7. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official Garmin website. For technical support, product registration, or to find authorized service centers, please visit Garmin Support.

You can also download the Fusion Audio app for software updates and additional product information.