Garmin SG-F653W, MS-FM65KIT

Garmin Fusion Signature Series 3i Marine Speakers & Flush Mount Kit User Manual

Model: SG-F653W, MS-FM65KIT

Introduction

This manual provides essential information for the installation, operation, and maintenance of your Garmin Fusion Signature Series 3i 6.5" Marine Speakers and MS-FM65KIT Flush Mount Kit. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

The Fusion Signature Series 3i coaxial speakers are engineered for the harsh marine environment, delivering high-quality audio with enhanced durability. The accompanying flush mount kit provides a sleek, near-flat installation profile for a seamless aesthetic on your vessel.

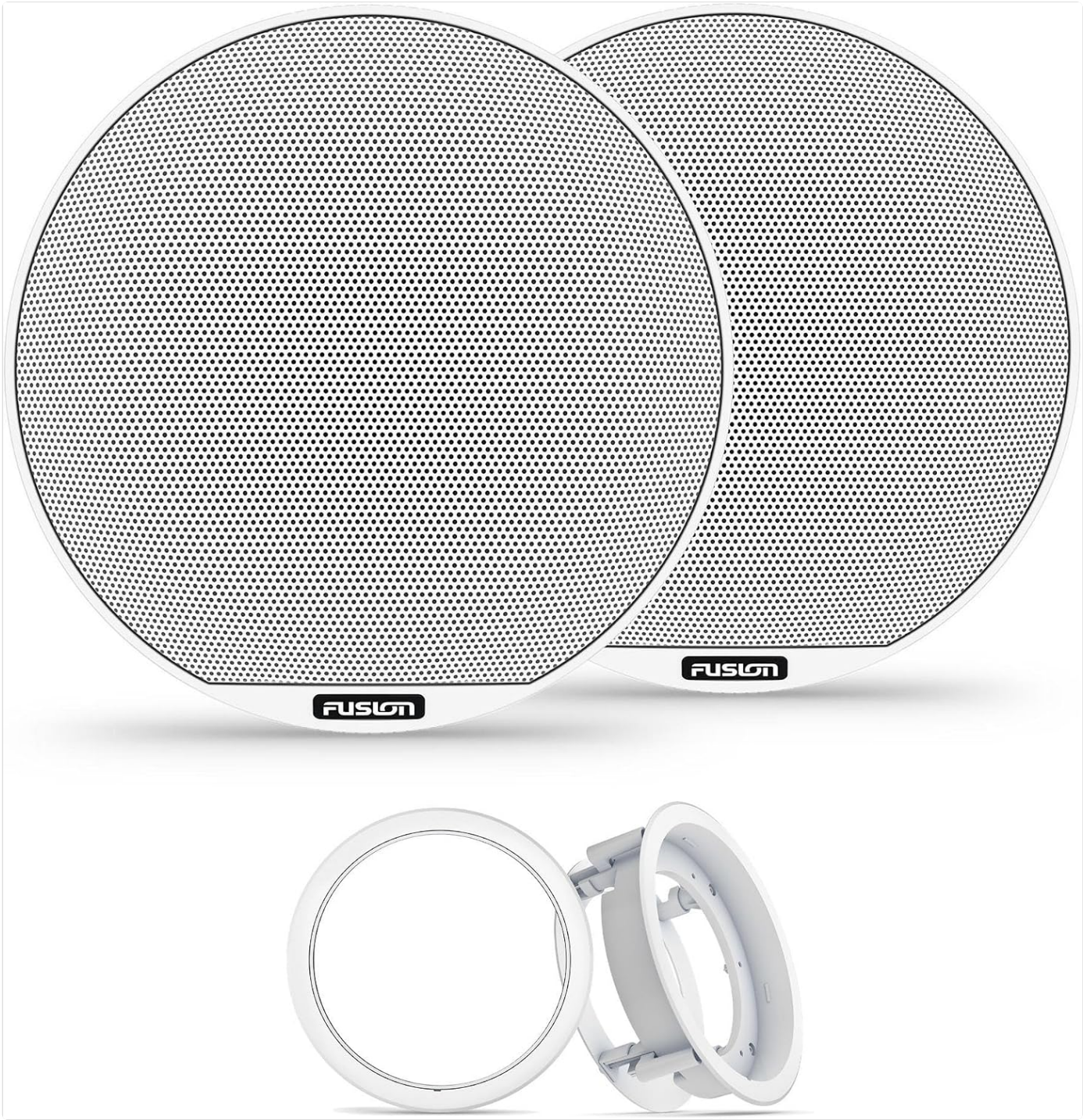


Image: Garmin Fusion Signature Series 3i Marine Speakers (white) shown with the MS-FM65KIT Flush Mount Kit components. The image displays two speakers with classic grilles and the two-part flush mount rings.

Setup and Installation

Safety Information

- Always disconnect power before beginning any installation.
- Ensure proper ventilation around the speakers.
- Use appropriate tools and safety gear.
- Consult a professional marine installer if you are unsure about any steps.

What's in the Box

- Two (2) Fusion Signature Series 3i 6.5" Marine Speakers (SG-F653W)

- Two (2) Fusion Signature Series 6.5" Flush Mount Kits (MS-FM65KIT)
- Mounting hardware
- Documentation

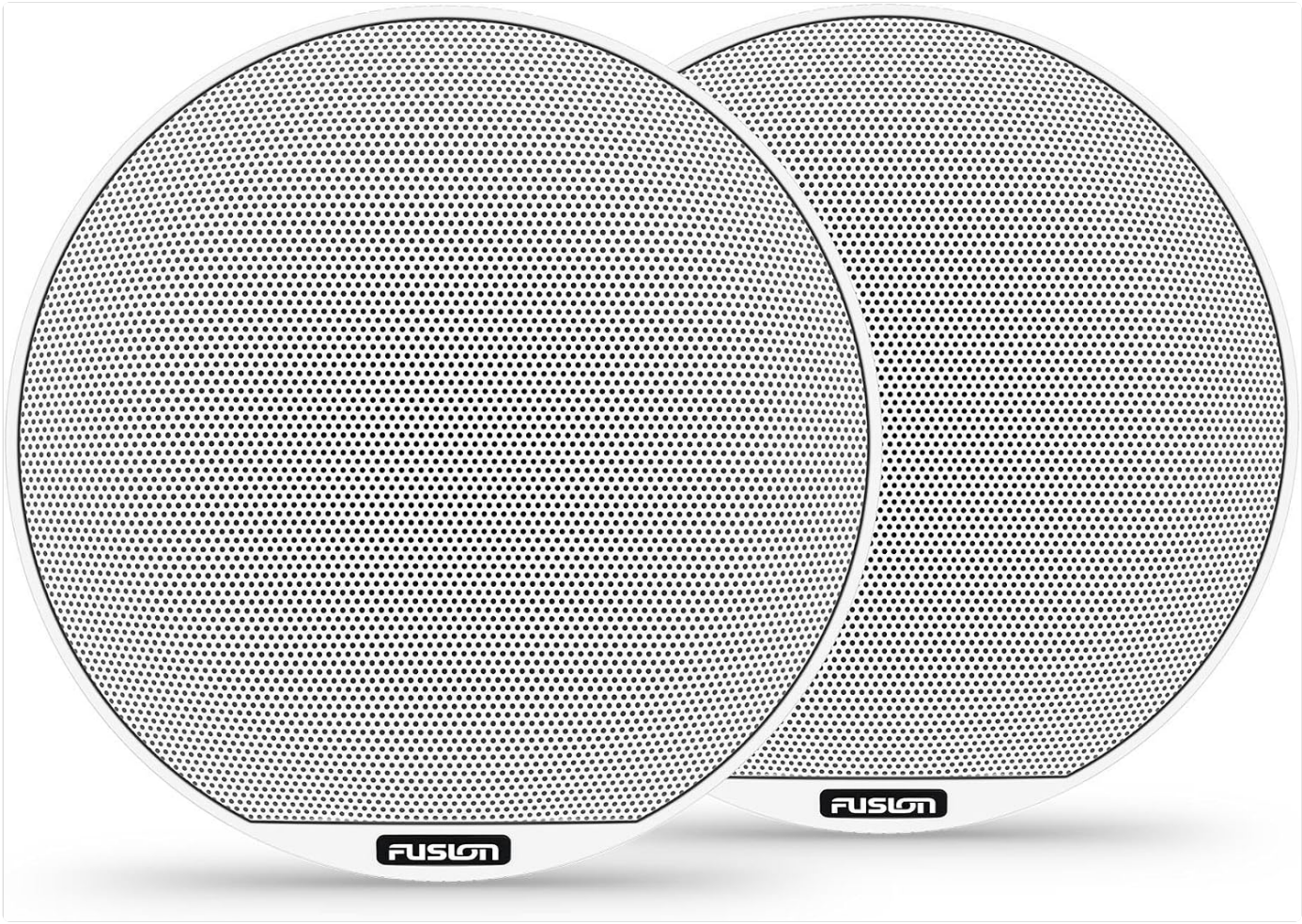


Image: A pair of Fusion Signature Series 3i 6.5" Marine Speakers, featuring the classic white grilles. These are the primary components of the audio system.

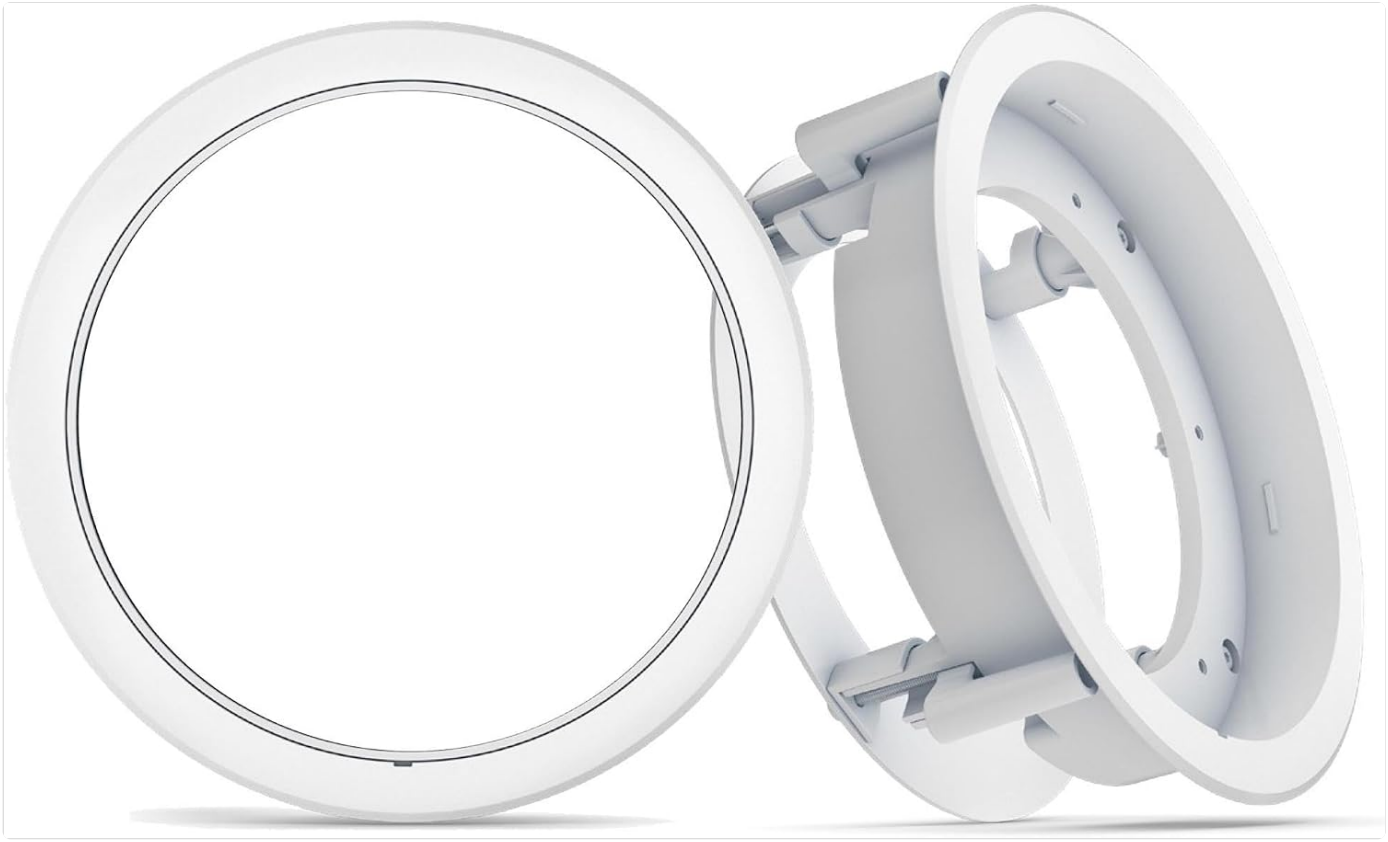


Image: The components of the Fusion Signature Series 6.5" Flush Mount Kit. This image shows the two main parts of the flush mount ring, designed for a low-profile installation.

Installation Steps

1. **Choose Mounting Location:** Select a flat, stable surface on your vessel that can support the speakers and provides adequate clearance behind for wiring and speaker depth. Ensure the location is free from obstructions and allows for optimal sound dispersion.
2. **Prepare the Cutout:** Using the provided template (if applicable) or the speaker's dimensions, carefully mark and cut the mounting hole. For the flush mount kit, ensure the cutout is precise to allow for the kit's secure fit.



Image: A side profile view of a Fusion Signature Series 3i marine speaker, illustrating its depth and the structure behind the grille. This view helps in understanding the required mounting clearance.

3. **Install Flush Mount Kit (if applicable):** If using the MS-FM65KIT, insert the kit into the prepared cutout. The kit is designed for non-intrusive installation.



Image: An angled view of one part of the Fusion flush mount ring, highlighting the securing clips or tabs that tighten against the panel to hold the speaker in place without additional screw holes.

4. **Wire the Speakers:** Connect the speaker wires to your marine audio system's amplifier or head unit. Ensure correct polarity (+ to + and - to -) for optimal sound performance. The speakers feature new marinized connectors for enhanced durability in the marine environment.
5. **Mount the Speakers:** Place the speakers into the flush mount kit (or directly into the cutout if not using the kit). Secure them using the provided mounting hardware. For the flush mount kit, tightening the screws will engage the tabs, securing the speaker firmly.
6. **Attach Grilles:** Securely attach the classic grilles to the speakers. The redesigned grille ensures easy installation and superior protection.

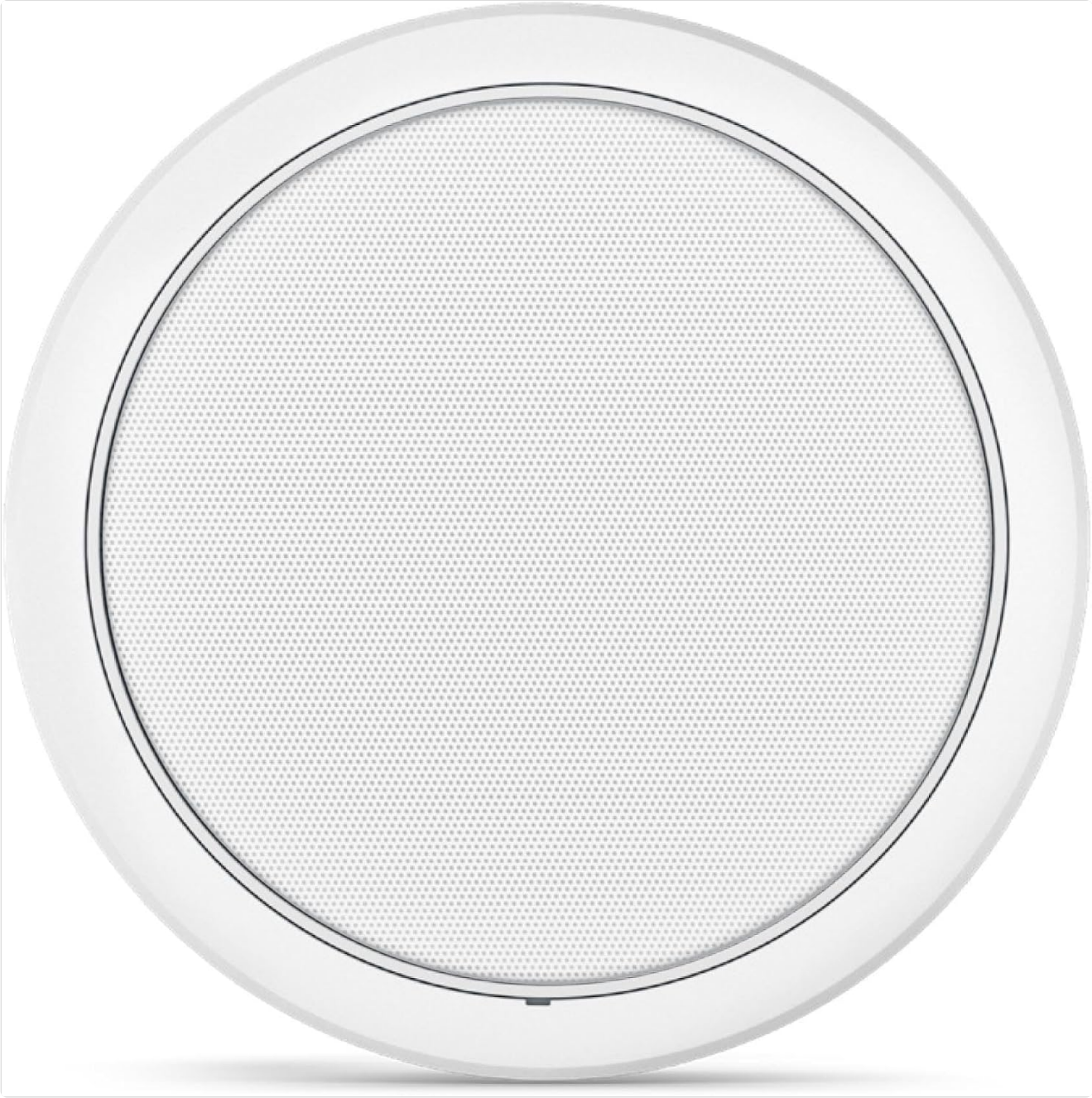


Image: A top-down view of a single Fusion Signature Series 3i marine speaker with its classic white grille attached. This shows the finished appearance of the speaker once installed.

7. **Test the System:** Once all connections are secure and speakers are mounted, power on your audio system and test the speakers to ensure they are functioning correctly.

Operating Your Speakers

Your Fusion Signature Series 3i marine speakers are designed to deliver crystal-clear audio. To ensure the best listening experience and prolong the life of your speakers, follow these guidelines:

- **Volume Control:** Adjust the volume gradually. Avoid prolonged listening at maximum volume, which can cause distortion and potential damage to the speakers.
- **Amplifier Matching:** Ensure your amplifier's power output matches the recommended RMS power of the speakers (30-90 Watts RMS per channel). Underpowering or overpowering can lead to poor sound quality or speaker damage.
- **Audio Settings:** Utilize your audio system's equalizer and balance controls to fine-tune the sound to your preference. Avoid excessive bass or treble boosts that can strain the speakers.
- **Environmental Considerations:** While designed for marine environments, avoid directing high-pressure water jets

directly at the speakers.

Maintenance

Regular maintenance will help preserve the performance and appearance of your Fusion marine speakers.

- **Cleaning:** Clean the speaker grilles and surrounds with a soft, damp cloth. For stubborn dirt, use a mild soap solution and rinse thoroughly with fresh water. Avoid abrasive cleaners or solvents.
- **Saltwater Exposure:** After exposure to saltwater, rinse the speakers with fresh water to prevent salt buildup and corrosion.
- **Inspection:** Periodically inspect the speaker cones, surrounds, and grilles for any signs of damage or wear. Check all connections for corrosion or looseness.
- **Storage:** If the vessel is stored for an extended period, ensure the speakers are clean and dry. Consider covering them to protect from dust and UV exposure.

Troubleshooting

If you experience issues with your Fusion marine speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound from Speakers	Power off/disconnected Loose or incorrect wiring Amplifier issue Speaker damage	Check power to audio system and amplifier. Verify all speaker wire connections are secure and correctly polarized. Test amplifier with another speaker or device. Inspect speaker for visible damage.
Distorted Sound	Volume too high Improper amplifier gain settings Damaged speaker cone/surround Incorrect impedance match	Reduce volume. Adjust amplifier gain settings according to manufacturer's instructions. Inspect speaker for physical damage. Ensure amplifier impedance matches speaker (4 Ohms).
Intermittent Sound	Loose connections Corroded terminals Faulty wiring	Check and secure all wiring connections. Clean any corroded terminals. Inspect wiring for breaks or shorts.

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

Specifications

Detailed specifications for the Fusion SG-F653W Signature Series 3i 6.5" Marine Speakers:

Feature	Specification
Water and Dust Rating	IP65
Configuration	Coaxial

Feature	Specification
Peak Power	230 Watts
RMS Power	75 Watts
Sensitivity (1 Watt @ 3.3 ft)	90 dB
Frequency Response	70 Hz – 22 kHz
Nominal Impedance	4 Ohms
Recommended Amplifier Power (RMS)	30-90 Watts/Channel
Operating Temperature Range	32-122 degrees F (0-50 degrees C)
Voice Coil Diameter	1.2 inches
Cone Material	CURV Cone Technology with Rubber Surround
Tweeter Type	Silk Dome
Compass Safe Distance	122 inches (310 cm)

Detailed specifications for the Fusion MS-FM65KIT Flush Mount Kit:

Feature	Specification
Compatible Speaker Size	6.5" and 7.7" Signature Series 3i speakers
Mounting Profile Thickness	No thicker than 0.079" (0.08")
Mounting System	Non-intrusive, tab-based securing

Warranty Information

Garmin products are backed by a limited warranty. For specific warranty terms and conditions applicable to your Fusion Signature Series 3i Marine Speakers and Flush Mount Kit, please refer to the warranty card included with your product or visit the official Garmin website. Keep your proof of purchase for warranty claims.

Customer Support

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Garmin customer support:

- **Website:** Visit www.garmin.com/support for FAQs, manuals, and software updates.
- **Phone:** Refer to the Garmin website for regional support contact numbers.
- **Online Resources:** Explore the Garmin support center for additional resources and community forums.

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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