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Pioneer TS-MR2040 8-inch Marine Speakers Instruction Manual

1. INTRODUCTION

Thank you for choosing Pioneer TS-MR2040 8-inch Marine Speakers. These speakers are engineered to provide high-quality audio performance in demanding marine environments. Designed with water-resistant and UV-protected materials, they offer durability and clear sound for your boat, UTV, ATV, SXS, or other outdoor applications. This manual provides essential information for proper installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your speakers.



Image 1.1: Pioneer TS-MR2040 8-inch Marine Speakers (Pair)

2. SAFETY INFORMATION

Please read all safety instructions before installing or operating the speakers. Failure to follow these instructions may result in damage to the product, property, or personal injury.

- **Power Source:** Ensure the power source is disconnected before installation to prevent electrical shock.
- **Wiring:** Use appropriate gauge wiring for connections. Incorrect wiring can lead to overheating and potential fire hazards.
- **Mounting:** Securely mount speakers in a stable location to prevent detachment during vehicle operation or rough water conditions.
- **Water Exposure:** While water-resistant, avoid submerging the speakers. Ensure all connections are properly sealed to prevent water ingress.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Operate at safe listening levels.

3. PACKAGE CONTENTS

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

- Two 2-way speakers with fixed grilles
- Eight M5x30mm Stainless steel machine screws
- 8 Speed clips
- Warranty information
- Specifications and template on box

4. SETUP AND INSTALLATION

The Pioneer TS-MR2040 speakers are designed for surface mounting and easy integration into existing marine audio systems. Follow these steps for proper installation:

1. **Preparation:** Disconnect power to the audio system. Choose a suitable mounting location that allows for adequate clearance behind the speaker and is structurally sound.
2. **Marking and Cutting:** Use the provided template (found on the box) to mark the cutout area. Carefully cut the opening, ensuring a clean edge.
3. **Drilling Pilot Holes:** Drill pilot holes for the mounting screws. It is recommended to start with a smaller diameter drill bit than the screw size to ensure a snug fit and secure adhesion, especially in fiberglass.
4. **Wiring:** Connect the speaker wires to the appropriate terminals. The TS-MR2040 features gold tinsel wire and gold-plated wire terminals for improved current transfer and corrosion resistance. Note that the positive and negative speaker connectors may differ in size; adjust existing connectors if necessary for a secure fit.
5. **Mounting:** Place the speaker into the cutout. Ensure the water-resistant urethane gasket is properly seated to create a seal. Secure the speaker using the eight M5x30mm stainless steel machine screws and speed clips. Do not overtighten.
6. **Final Check:** Once mounted, reconnect power to the audio system and test the speakers.

Versatile Product Lineup – Factory upgrades to full custom builds,



Image 4.1: TS-MR2040 Speaker Dimensions. Speaker grille diameter: 9 inches (230 mm). Speaker diameter: 8.75 inches (222 mm). Mounting depth: 3 inches (75 mm). Tweeter diameter: 0.75 inches (20 mm).



Image 4.2: Speakers designed for marine applications.

5. OPERATING INSTRUCTIONS

The Pioneer TS-MR2040 speakers are designed to deliver clear and powerful audio. For optimal performance, ensure your audio source and amplifier are compatible and properly configured.

- **Power Handling:** These speakers have a maximum power handling of 200 Watts and a nominal power handling of 40 Watts. For best results and to prevent distortion, especially at higher volumes, it is recommended to use an amplifier that matches or slightly exceeds the nominal power rating.
- **Sound Quality:** The dual-cone design, Reflex Horn tweeter technology, and IMPP composite cone

woofers work together to produce rich bass, clear highs, and a wide frequency response.

- **Audio Source:** Use high-quality audio sources (e.g., streaming services, FLAC files) to fully appreciate the sound capabilities of these speakers. Lower quality sources may not do justice to the speaker's performance.

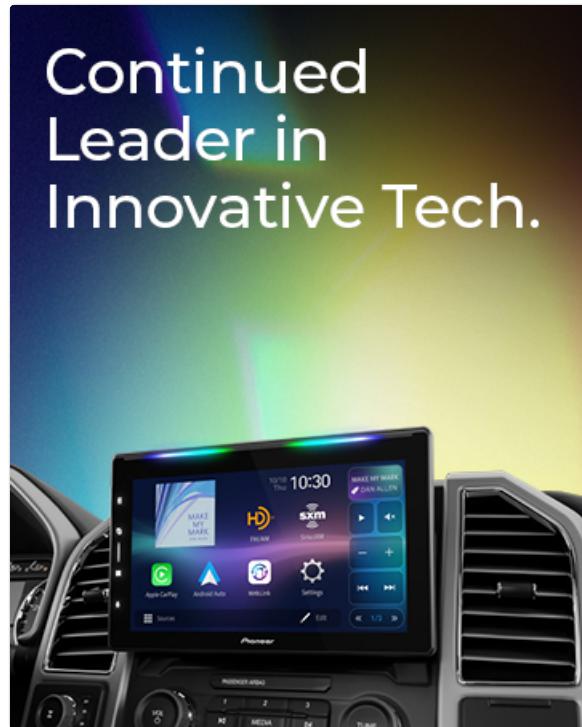


Image 5.1: Speaker power handling details.



3/4" Reflex Horn Tweeter

Experience crystal-clear high frequencies with Pioneer's innovative Reflex Horn design. Built for performance and durability, it also shields the tweeter from moisture, ensuring long-lasting quality sound.

Image 5.2: Detail of the 3/4-inch Reflex Horn Tweeter, designed for clear high frequencies and moisture protection.

6. MAINTENANCE

The Pioneer TS-MR2040 speakers are built with durable, weather-resistant materials to withstand harsh marine conditions. Regular maintenance will help preserve their appearance and performance.

- **Cleaning:** Gently wipe the speaker grilles and cones with a soft, damp cloth to remove salt residue, dirt, or dust. Avoid using harsh chemicals or abrasive cleaners.
- **UV Protection:** The AES (Acrylonitrile-Elastomer Styrene) glass fiber reinforced basket and magnet cover, along with the pure white AES grilles, are designed to resist fading and yellowing from direct sunlight and heat.
- **Water Resistance:** The water-resistant IMPP (Injection Molded Polypropylene) composite cones and elastomer surrounds resist the effects of saltwater and humidity. Ensure the mounting area remains sealed to prevent water damage to internal components.
- **Inspection:** Periodically inspect the speaker surrounds for any signs of cracking or deterioration. The elastomer surround is designed to resist color fading and running, extending product longevity.



Image 6.1: Speaker construction for durability in marine environments.



Durable AES Fiber Reinforced Cover

The AES reinforced cover protects the magnetic circuit for peak performance. Pure white grilles resist sunlight and heat, preventing fading and yellowing over time.

Image 6.2: Durable AES Fiber Reinforced Cover protects the magnetic circuit and resists environmental damage.



Image 6.3: Water-resistant IMPP Composite Cone for outstanding mid-bass response and environmental resistance.

7. TROUBLESHOOTING

If you experience issues with your Pioneer TS-MR2040 speakers, refer to the following common problems and solutions:

- **No Sound:**

- Check all wiring connections at both the speaker and the audio source/amplifier. Ensure they are secure and correctly polarized (+ to +, - to -).
- Verify that the audio source (head unit, amplifier) is powered on and functioning correctly.
- Confirm that the volume is turned up and not muted.

- **Distorted Sound:**

- Reduce the volume level. Distortion often occurs when the amplifier or speakers are overdriven.
- Check for loose connections or damaged speaker wires.
- Ensure the speakers are receiving adequate power. For optimal performance, especially at higher volumes, an external amplifier is highly recommended.
- Inspect the speaker cones and surrounds for any physical damage.

- **Intermittent Sound:**

- Check for loose or corroded wiring connections.
- Ensure the audio source is stable and not experiencing interruptions.

8. SPECIFICATIONS

Detailed technical specifications for the Pioneer TS-MR2040 8-inch Marine Speakers:

Feature	Specification
Model Name	TS-MR2040
Speaker Type	Marine, Coaxial
Speaker Size	8 Inches
Woofer Cone Material	Water-Resistant White IMPP Composite
Tweeter	3/4" PI (Poly Imide) Reflex Horn
Maximum Power Handling	200 Watts
Nominal Power Handling	40 Watts
Frequency Response	25Hz-30kHz
Sensitivity	92dB
Ohm Rating	4 Ohm
Water Resistance Level	Water Resistant
Product Dimensions	8"D x 8"W x 3"H
Item Weight	8.73 Pounds (Pair)
Color	White
Mounting Type	Surface
Corrosion-Resistant Parts	Yes (Gold-Plated Lead Wire and Connection Terminals)

9. WARRANTY AND SUPPORT

The Pioneer TS-MR2040 speakers come with a Limited Warranty. For specific warranty terms and conditions, please refer to the warranty information included in your product package.

For technical support, product inquiries, or service, please visit the official Pioneer website or contact Pioneer customer service. You can also find additional resources and product information on the [Pioneer Brand Store](#).

	<p>Pioneer TS-MR1640 6.5-Inch 2-Way Marine Speakers - Waterproof, Durable Audio</p> <p>Discover the Pioneer TS-MR1640, a robust 6.5-inch 2-way marine speaker system. Featuring waterproof design, UV resistance, and 160W max power, these speakers are built for marine environments. Includes detailed specifications and installation guidance.</p>
	<p>Pioneer 2009 In-Car Entertainment Guide: Advanced Audio & Navigation</p> <p>Explore Pioneer's comprehensive 2009 catalog of in-car entertainment systems, featuring advanced navigation, high-fidelity audio components, headunits, speakers, and subwoofers. Discover solutions designed for superior sound quality, customization, and an enhanced driving experience.</p>
	<p>Pioneer TS-A1300C Component Car Speakers Instruction Manual</p> <p>Comprehensive instruction manual for the Pioneer TS-A1300C 2-way component car speakers, detailing features, safety precautions, specifications, and installation.</p>
	<p>Pioneer TS-A693CH A-Series 6x9 Inch 2-Way Car Speaker System Instruction Manual</p> <p>Official instruction manual for the Pioneer TS-A693CH A-Series 6x9 inch 2-way car speaker system. Covers safety warnings, features, installation guide, specifications, and limited warranty information.</p>
	<p>Pioneer TS-A709 2-Way Car Speaker Instruction Manual and Specifications</p> <p>Comprehensive instruction manual and specifications for the Pioneer TS-A709 2-way car speaker, including features, installation guide, and limited warranty information.</p>
	<p>Pioneer TS-A879 2-Way Speaker Instruction Manual</p> <p>Instruction manual for the Pioneer TS-A879 2-way speaker, detailing installation, features, and specifications. Includes safety warnings and compatibility information.</p>