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> Soundstream MR4.1400D Rubicon Nano Marine 1400W Class D 4-Channel Amplifier User Manual

Soundstream MR4.1400D

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Model: MR4.1400D | Brand: Soundstream

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Soundstream MR4.1400D Rubicon Nano Marine 1400W Class D 4-Channel Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage to the unit or your vehicle's audio system.



Figure 1.1: The Soundstream MR4.1400D Rubicon Nano Marine 1400W Class D 4-Channel Amplifier. This image displays the amplifier from a top-down, slightly angled perspective, showcasing its compact white casing and the layout of its controls and terminals on one side.

2. SAFETY INFORMATION

Observe the following safety precautions during installation and operation:

- **Power Source:** Ensure the amplifier is connected to a 12V DC power source with a proper ground connection. Incorrect wiring can cause severe damage or fire.
- **Fuse Protection:** Always use the correct fuse rating as specified. Never replace a fuse with one of a higher amperage.
- **Ventilation:** Install the amplifier in a location that allows for adequate air circulation to prevent overheating. Avoid mounting in enclosed spaces without ventilation.
- **Water Exposure:** While this is a marine-grade amplifier, avoid direct exposure to water jets or submersion. Ensure all connections are secure and protected from moisture.
- **Professional Installation:** If you are unsure about any aspect of the installation, seek assistance from a qualified professional.
- **Wiring:** Use appropriate gauge wiring for power, ground, and speaker connections to prevent voltage drops and overheating.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Soundstream MR4.1400D Amplifier
- User Manual
- Quick Disconnect High Level Wire Harness



Figure 3.1: The Soundstream MR4.1400D amplifier shown within its retail packaging. The box highlights key features such as "MAX POWER 1,400W" and "95% EFFICIENT".



Figure 3.2: A close-up image of the quick disconnect high-level wire harness, featuring multiple black and white wires terminating in two black connectors. This harness is used for high-level signal input connections.

4. SETUP AND INSTALLATION

4.1. Mounting the Amplifier

The MR4.1400D amplifier is designed for surface mounting. Choose a secure location that provides adequate ventilation and protection from direct water exposure. Ensure the mounting surface is stable and can support the amplifier's weight.

- Mark the mounting holes using the amplifier as a template.
- Drill pilot holes if necessary.
- Secure the amplifier using appropriate screws.

4.2. Wiring Connections

Refer to the diagram below for proper wiring connections. Ensure all connections are tight and insulated to prevent short circuits.



Figure 4.1: Rear panel view of the Soundstream MR4.1400D amplifier, showing all input and output terminals, fuses, and control knobs. From left to right, it displays Front and Rear input sections (Low-Input RCA, Hi-Input), Speaker Output terminals, Fuses, and Power terminals (DC12V, REM, GND).

4.2.1. Power Connections

- **GND (Ground):** Connect to a clean, solid chassis ground point. Use a wire of the same gauge as the power wire.
- **REM (Remote Turn-On):** Connect to the remote turn-on output of your head unit.
- **DC12V (Power):** Connect directly to the positive terminal of the vehicle's battery. An inline fuse (not supplied) should be installed within 18 inches of the battery.

The amplifier uses 4-gauge power input terminals and 12-gauge speaker output terminals.

4.2.2. Speaker Output Connections

Connect your speakers to the "SPEAKER OUT" terminals. The amplifier supports 2-ohm stereo and 4-ohm bridged configurations. Refer to the markings on the amplifier for correct positive and negative connections for each channel (Front and Rear) and for bridged mode.

4.2.3. Signal Input Connections

The amplifier supports both low-level RCA input and high-level input.

- **Low-Level Input (RCA):** Connect RCA cables from your head unit's pre-amp outputs to the "LOW-INPUT" RCA jacks on the amplifier (Front and Rear).
- **High-Level Input:** If your head unit does not have RCA outputs, use the supplied quick disconnect high-level wire harness. Connect the speaker wires from your head unit to the corresponding wires on the harness, then plug the harness into the "HI-INPUT" ports on the amplifier.



Figure 4.2: Close-up of the Front input section of the amplifier. It shows the Low-Input RCA jacks, the Hi-Input connector, and controls for X-OVER (FLAT, HPF), and HI-INPUT AUTO TURN ON switch.



Figure 4.3: Close-up of the Rear input section of the amplifier. It shows the Low-Input RCA jacks, the Hi-Input connector, and controls for X-OVER (FLAT, LPF), and HI-INPUT AUTO TURN ON switch.

5. OPERATING THE AMPLIFIER

5.1. Initial Power-Up

Once all connections are made and verified, turn on your head unit. The amplifier should power on automatically via the remote turn-on signal. Observe the power indicator light on the amplifier.

5.2. Adjusting Controls

The MR4.1400D features variable 12dB High Pass, Low Pass, and Subsonic Crossovers, as well as a 12dB Bass Boost.

- **X-OVER (Crossover):**
 - **HPF (High Pass Filter):** Used for full-range speakers to block low frequencies. Adjust the knob to set the cutoff frequency.
 - **LPF (Low Pass Filter):** Used for subwoofers to block high frequencies. Adjust the knob to set the cutoff frequency.
 - **FLAT:** Bypasses the crossover, allowing full-range audio to pass through.
- **Bass Boost:** Adjust this control to increase low octave harmonics for enhanced bass response. Use sparingly to avoid distortion.
- **Gain Control:** Adjust the gain to match the output voltage of your head unit. Start with the gain at minimum and slowly increase it until you achieve a clear, undistorted sound at your desired volume level.
- **HI-INPUT AUTO TURN ON:** If using high-level inputs, this switch enables the amplifier to turn on automatically when it detects an audio signal.

6. MAINTENANCE

To ensure optimal performance and longevity of your amplifier:

- **Cleaning:** Periodically clean the exterior of the amplifier with a soft, dry cloth. Avoid using harsh chemicals or abrasives.
- **Connections:** Regularly check all power, ground, and speaker connections to ensure they are secure and free from corrosion.
- **Ventilation:** Ensure that the amplifier's heatsink fins are free from dust and debris to maintain proper cooling.

- **Fuse Replacement:** If a fuse blows, replace it only with a fuse of the exact same type and amperage rating. Refer to the amplifier's specifications for the correct fuse rating.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	Blown fuse Loose power or ground connection No remote turn-on signal Faulty wiring	Check and replace fuses (use correct rating). Verify all power, ground, and remote connections are secure. Ensure head unit is providing a remote signal. Inspect wiring for breaks or shorts.
No Sound Output	Input signal issue Speaker wiring incorrect or disconnected Amplifier in protection mode Gain set too low	Check RCA or high-level input connections. Verify speaker wiring for correct polarity and secure connection. Check for shorted speaker wires or impedance mismatch. Increase gain slowly.
Distorted Sound	Gain set too high Improper crossover settings Poor ground connection Speaker impedance mismatch	Reduce gain setting. Adjust HPF/LPF settings appropriately for your speakers. Ensure ground connection is clean and secure. Verify speaker impedance matches amplifier's capabilities.
Amplifier Overheating	Insufficient ventilation Speaker impedance too low Extended high-volume operation	Relocate amplifier to a better ventilated area. Check speaker impedance. Reduce volume or allow amplifier to cool down.

8. SPECIFICATIONS

The following are the technical specifications for the Soundstream MR4.1400D amplifier:

Feature	Specification
Model Number	MR4.1400D
Output Power	1400 Watts (Max)
Number of Channels	4
Amplifier Class	Class D Full Range
Minimum Supply Voltage	9 Volts (DC)

Feature	Specification
Maximum Supply Voltage	16 Volts (DC)
Item Dimensions (L x W x H)	13.75 x 9.75 x 3.75 inches
Item Weight	5.85 pounds
Mounting Type	Surface Mount
Material	Protective coating (for marine environment)
Power Input Terminals	4 Gauge
Speaker Output Terminals	12 Gauge
Crossovers	Variable 12dB High Pass, Low Pass, & Subsonic
Bass Boost	12dB
Signal Input	200mV-6V Low Level RCA or High Level
Protection Circuits	Direct Short, Thermal, & Overload
Efficiency	High Efficiency Class D

9. WARRANTY INFORMATION

Soundstream products are designed and manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Soundstream website. Keep your purchase receipt as proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

If you have any questions or require technical assistance regarding your Soundstream MR4.1400D amplifier, please contact Soundstream customer support. Contact information can typically be found on the official Soundstream website or on the product packaging.

You can also visit the [Soundstream Store on Amazon](#) for more product information and support resources.

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