

SSA-R2-8400.4

Starsound SSA-R2-8400.4 Raptor Series 4-Channel Amplifier Instruction Manual

Model: SSA-R2-8400.4

INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your Starsound SSA-R2-8400.4 Raptor Series 4-Channel Amplifier. Please read this manual thoroughly before using the product to ensure optimal performance and safety.



Image: Starsound SSA-R2-8400.4 Raptor Series 4-Channel Amplifier. This image displays the top-down view of the amplifier, showcasing its black casing with silver fins, the 'DIGITAL STAR SOUND' logo, and the model number 'SSA-R2-8400.4' clearly visible.

SAFETY PRECAUTIONS

- Ensure the vehicle's battery is disconnected before installation to prevent electrical shorts.
- Mount the amplifier securely in a dry, well-ventilated area, away from direct sunlight or heat sources.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified in the installation section.
- Do not expose the amplifier to moisture or extreme temperatures.
- Seek professional assistance if you are unsure about any installation steps.

SETUP AND INSTALLATION

1. Unpacking

Carefully remove the amplifier from its packaging. Verify that all components listed in the package contents are present. The package includes: 1 x Starsound SSA-R2-8400.4 Amplifier, 1 x EvoTuning 300W Super Tweeters, 1 x Gel Key

Holder.

2. Mounting Location

Choose a mounting location that provides adequate ventilation for the amplifier's heat sinks. Avoid mounting in enclosed spaces or areas prone to vibration. Common locations include under seats, in the trunk, or behind panels.

3. Wiring Connections

Power Connection: Connect a heavy-gauge power cable (e.g., 4-gauge) from the vehicle's positive battery terminal to the amplifier's +12V terminal. Install an in-line fuse holder (not included) within 18 inches (45 cm) of the battery.

Ground Connection: Connect a heavy-gauge ground cable of the same length as the power cable from the amplifier's GND terminal to a clean, unpainted metal surface on the vehicle chassis. Ensure a good electrical contact.

Remote Turn-On: Connect a thin wire from your head unit's remote output to the amplifier's REM terminal. This wire turns the amplifier on and off with your head unit.

RCA Input: Connect RCA cables from your head unit's pre-amp outputs to the amplifier's RCA input jacks.

Speaker Output: Connect your speakers to the amplifier's speaker terminals. Ensure correct polarity (+ to + and - to -) for each speaker. This is a 4-channel amplifier, allowing connection of up to four speakers or two speakers in bridged mode.

OPERATING INSTRUCTIONS

1. Initial Power-Up

After all connections are made and verified, reconnect the vehicle's battery. Turn on your head unit. The amplifier's power indicator LED should illuminate.

2. Gain Adjustment

Start with the amplifier's gain control set to minimum. Play a familiar piece of music at a moderate volume on your head unit. Slowly increase the amplifier's gain until you hear distortion, then back it off slightly. This sets the amplifier's input sensitivity to match your head unit's output.

3. Crossover Settings

The SSA-R2-8400.4 amplifier typically features built-in crossovers (High-Pass Filter, Low-Pass Filter). Adjust these settings based on the type of speakers connected:

- **Full-Range Speakers:** Set to FULL or OFF.
- **Tweeters/Mid-Range:** Set to HPF (High-Pass Filter) and adjust the frequency to prevent low bass from reaching them.
- **Subwoofers:** Set to LPF (Low-Pass Filter) and adjust the frequency to only allow bass frequencies.

4. Bass Boost

Use the bass boost control sparingly. Excessive bass boost can lead to distortion and potential speaker damage. Adjust to taste, ensuring sound clarity.

MAINTENANCE

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's cooling fins are free from dust and debris to maintain proper heat dissipation.
- **Connections:** Occasionally check all wiring connections for tightness and corrosion. Loose connections can cause

performance issues or damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power / Amplifier not turning on	Blown fuse, loose power/ground/remote wire, faulty remote turn-on signal.	Check in-line fuse, verify all power, ground, and remote connections. Test remote wire for 12V signal.
No Sound	Loose RCA cables, incorrect gain settings, speaker wires disconnected, amplifier in protection mode.	Check RCA connections, adjust gain, verify speaker wiring, check for protection LED (usually red).
Distorted Sound	Gain set too high, incorrect crossover settings, faulty speakers, poor ground connection.	Reduce gain, adjust crossover frequencies, inspect speakers, ensure solid ground connection.
Amplifier Overheating	Insufficient ventilation, impedance mismatch (too low), prolonged high volume use.	Ensure proper airflow around the amplifier. Check speaker impedance. Reduce volume or allow cooling time.

SPECIFICATIONS

Model: SSA-R2-8400.4

Series: Raptor Series

Channels: 4-Channel

Max Power Output: 8400 Watts

Product Dimensions (L x W x H): 25L x 17W x 9H centimetres

Included Components: 1 x Starsound SSA-R2-8400.4 Amplifier, 1 x EvoTuning 300W Super Tweeters, 1 x Gel Key Holder

UPC: 759649119351

WARRANTY INFORMATION

This Starsound SSA-R2-8400.4 amplifier comes with a **6 Months** warranty from the date of purchase. This warranty covers manufacturing defects and faulty workmanship under normal use. It does not cover damage caused by improper installation, abuse, accidents, modifications, or unauthorized repairs. Please retain your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, troubleshooting, or warranty inquiries, please contact your retailer or the manufacturer's customer support. Refer to your purchase documentation for specific contact details.



