

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [PRV AUDIO](#) /

› [PRV Audio QS400.4 2 Ohm Mini Compact 4 Channel Car Audio Amplifier User Manual](#)

PRV AUDIO QS400.4 2 Ohm

PRV Audio QS400.4 2 Ohm Mini Compact 4 Channel Car Audio Amplifier User Manual

Model: QS400.4 2 Ohm | Brand: PRV AUDIO

INTRODUCTION

Thank you for choosing the PRV Audio QS400.4 Mini Compact 4 Channel Car Audio Amplifier. This amplifier is designed to deliver powerful and clear audio performance in a compact form factor, ideal for various car audio setups. This manual provides essential information for proper installation, operation, and maintenance of your amplifier.



Image: Front view of the PRV Audio QS400.4 amplifier, showcasing its compact design and branding.

SAFETY INFORMATION

Please read all safety instructions carefully before installing and operating the amplifier. Failure to follow these guidelines

may result in injury or damage to the product or vehicle.

- Always disconnect the vehicle's battery negative terminal before starting any electrical work.
- Ensure proper grounding for the amplifier to prevent electrical hazards and noise.
- Use appropriate gauge wiring for power, ground, and speaker connections as recommended.
- Install the amplifier in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
- Do not mount the amplifier where it may interfere with vehicle operation or safety devices.
- Seek professional assistance if you are unsure about any installation steps.

FEATURES

The PRV Audio QS400.4 amplifier boasts several key features designed for optimal performance and ease of use:

- **4 x 100 Watts TRUE RMS:** Certified full-range output with Digital Class D Brazilian Technology.
- **4 Channel Stability:** Stable at 2 Ohm, allowing flexible speaker wiring configurations.
- **High Efficiency:** Engineered for maximum efficiency to optimize vehicle electrical system usage.
- **Compact Design:** Small footprint (4" W x 5.40" L x 2" H) for easy installation in various vehicle locations.
- **Bridgeable Channels:** Capable of 2 Channel Bridged operation for double power output (2 x 200 Watts RMS at 4 Ohms minimum impedance).

QS SERIES



FR

Full Range

LP

Low Pass Filter

HP

High Pass Filter

CP

Circuit Protection

CD

Compact Design

QS400.4 2Ω

4 CHANNEL FULL RANGE CLASS D 12v AMPLIFIER

RMS POWER AT 2 OHM 14.0 V:

4x 100 Watts

Image: The amplifier highlighting its key features: Full Range (FR), Low Pass Filter (LP), High Pass Filter (HP), Circuit Protection (CP), and Compact Design (CD).

PACKAGE CONTENTS

Upon opening the package, ensure all items are present and in good condition:

- PRV Audio QS400.4 2 Ohm Mini Compact 4 Channel Car Audio Amplifier
- User Manual (this document)
- Mounting Hardware (screws, etc. - assumed, not explicitly listed in JSON but typical)



Image: The PRV Audio QS400.4 amplifier shown in its retail packaging.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your amplifier. Follow these steps carefully:

1. Mounting Location

Choose a mounting location that is dry, well-ventilated, and secure. Avoid areas exposed to direct sunlight, excessive heat, or moisture. Ensure there is enough space around the amplifier for air circulation.

2. Power Connections



Image: Close-up view of the power input, remote, ground, and speaker output terminals on the PRV Audio QS400.4 amplifier.

- **+12VDC (Power):** Connect a fused power cable (minimum 8 AWG recommended) directly from the positive terminal of your vehicle's battery to the +12VDC terminal on the amplifier. Install a fuse holder within 18 inches of the battery.
- **GND (Ground):** Connect a ground cable (same gauge as power cable) from the GND terminal on the amplifier to a clean, unpainted metal surface on the vehicle's chassis. Ensure a solid, low-resistance connection.
- **REMOTE (Remote Turn-On):** Connect a remote turn-on wire from your head unit's remote output to the REMOTE terminal on the amplifier. This wire signals the amplifier to turn on when the head unit is active.

3. Speaker Connections

The QS400.4 supports both 2 Ohm per channel and 4 Ohm bridged configurations. Refer to the terminal markings on the amplifier for correct wiring.

- **Standard (Stereo) Wiring:** Connect each speaker to its corresponding channel output (CH1+, CH1-, CH2+, CH2-, etc.). Ensure correct polarity (+ to + and - to -). Minimum impedance is 2 Ohms per channel.
- **Bridged Wiring:** To bridge channels (e.g., CH1 and CH2 for a single speaker), connect the speaker's positive (+) terminal to CH1+ and the speaker's negative (-) terminal to CH2-. The amplifier supports 2 x 200 Watts RMS when bridged at a minimum impedance of 4 Ohms per bridged channel. Note: For bridged operation, both RCA inputs for the bridged channels must be connected.



Image: Angled view of the amplifier, clearly showing the power input, remote, ground, and speaker output terminals, including markings for bridged configurations.

4. RCA Input Connections



Image: Close-up view of the RCA input jacks (CH1, CH2, CH3, CH4) and control knobs (Min/Max Level, Crossover switches) on the PRV Audio QS400.4 amplifier.

Connect RCA cables from your head unit's pre-amp outputs to the corresponding RCA inputs on the amplifier (CH1, CH2,

CH3, CH4). Ensure a secure connection to prevent signal loss or noise.

OPERATING INSTRUCTIONS

1. Gain Level Adjustment (MIN/MAX LEVEL)

The gain control matches the amplifier's input sensitivity to the output level of your head unit. Start with the gain set to minimum (fully counter-clockwise). Play a familiar track at about 75% of your head unit's maximum volume. Slowly increase the amplifier's gain until you hear distortion, then back off slightly until the sound is clear. This ensures maximum clean output.

2. Crossover Settings (HPF/LPF/OFF)

The QS400.4 features built-in crossovers to optimize sound output for different types of speakers:

- **HPF (High Pass Filter):** Allows frequencies above the set point to pass through, blocking lower frequencies. Ideal for full-range speakers or tweeters to prevent distortion from bass.
- **LPF (Low Pass Filter):** Allows frequencies below the set point to pass through, blocking higher frequencies. Ideal for subwoofers to ensure they only reproduce bass.
- **OFF (Full Range):** Disables the crossover, allowing all frequencies to pass through. Use this setting if your head unit or external processor handles the crossovers.

Adjust the crossover frequency according to your speaker's specifications and desired sound. Experiment with settings to find the best balance for your system.

MAINTENANCE

To ensure long-lasting performance from your PRV Audio QS400.4 amplifier, follow these simple maintenance tips:

- Keep the amplifier clean and free of dust and debris. Use a soft, dry cloth for cleaning.
- Ensure proper ventilation around the amplifier. Do not block cooling fins or vents.
- Periodically check all wiring connections for tightness and corrosion. Loose connections can cause performance issues or damage.
- Avoid exposing the amplifier to extreme temperatures or moisture.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse Loose power or ground connection No remote turn-on signal Vehicle battery low	Check and replace fuse if necessary. Verify all power, ground, and remote connections are secure. Check remote wire connection at head unit and amplifier. Charge or replace vehicle battery.

Problem	Possible Cause	Solution
No Sound Output	Loose RCA cables Incorrect speaker wiring Amplifier in protection mode Head unit volume too low or muted	Ensure RCA cables are securely connected at both ends. Verify speaker wiring for correct polarity and impedance. Check for short circuits in speaker wires or overloaded speakers. Increase head unit volume and check mute settings.
Distorted Sound	Gain level set too high Incorrect crossover settings Poor quality audio source Speaker impedance mismatch	Adjust gain level down until distortion disappears. Review and adjust HPF/LPF settings for your speakers. Try a different audio source. Ensure speakers match amplifier's impedance requirements.
Excessive Noise (Hiss, Whine)	Poor grounding RCA cable interference Engine noise (alternator whine)	Ensure ground connection is solid and to bare metal. Route RCA cables away from power wires. Consider a ground loop isolator or professional diagnosis.

SPECIFICATIONS

Detailed technical specifications for the PRV Audio QS400.4 amplifier:

Specification	Value
Model Number	QS400.4 2 Ohm
Brand	PRV AUDIO
Number of Channels	4
Output Power (RMS)	4 x 100 Watts RMS at 2 Ohm (400 Watts Total)
Bridged Output Power (RMS)	2 x 200 Watts RMS at 4 Ohm
Voltage	12 Volts (DC)
Dimensions (L x W x H)	5.4 x 4 x 2 inches
Item Weight	1.34 pounds
Mounting Type	Surface Mount
Color	Black
UPC	810075523898

QS SERIES

Depth: 5.40"

Width: 4.00"



Height: 2.00"



4 CHANNEL AMPLIFIER

Image: The PRV Audio QS400.4 amplifier with its dimensions (Depth: 5.40", Width: 4.00", Height: 2.00") clearly marked.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact PRV Audio Group directly. Refer to the product packaging or the official PRV Audio website for the most current contact details and warranty terms. You can visit the official PRV Audio store on Amazon for more information:[PRV AUDIO Store](#)