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Crunch PX1000.4

Crunch PX 1000.4 4-Channel 1000 Watt Car Audio Amplifier

Model: PX1000.4

INTRODUCTION

The Crunch PX 1000.4 is a versatile 4-channel car audio amplifier designed to enhance your vehicle's sound system. It features Class A/B technology for superior audio performance and can be configured for 4, 3, or 2-channel operation, providing flexibility for various audio setups. With a maximum power output of 1000 Watts, this amplifier delivers robust sound for an immersive listening experience.

CRUNCH

PX-1000.4

POWERX 4 CHANNEL 1000 WATT

A/B Class Car Audio Stereo Amplifier

A perfect entry level amplifier for your car audio needs

Full Class A/B technology in stereo and 4 channel amplifiers along with Class D in the mono

Quick Thermal Dispersion Technology



Preamp RCA outputs to daisy chain multiple arms

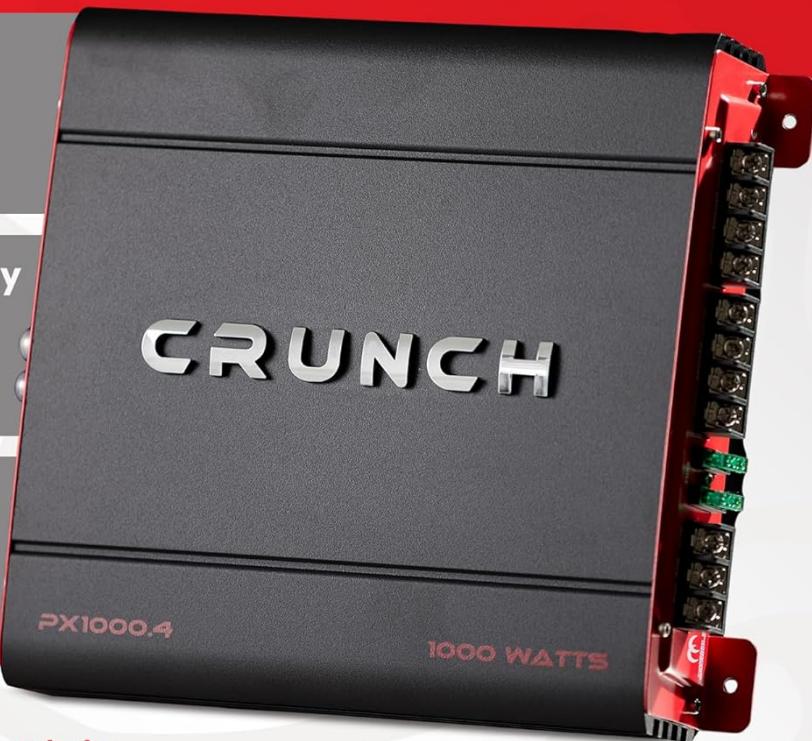


Image: Front view of the Crunch PX 1000.4 amplifier, showcasing its sleek black and red design.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. Ensure all connections are secure and correctly polarized. This amplifier features a Pulse Width Modulated power supply and a Slow Unmute Soft Start Turn-On circuit.

Power and Ground Connections

- **GND (Ground):** Connect to a clean, unpainted metal surface of the vehicle chassis. Ensure a strong, low-resistance connection.
- **REM (Remote Turn-On):** Connect to the remote turn-on lead from your head unit. This wire signals the amplifier to turn on and off with your car's audio system.
- **+12V (Power Input):** Connect directly to the positive terminal of your vehicle's battery using an appropriate gauge power cable and an inline fuse (not supplied) located within 18 inches of the battery.

Speaker Connections

The amplifier supports 4, 3, or 2-channel configurations. Connect your speakers to the 'OUTPUT' terminals, observing

correct polarity (positive to positive, negative to negative). For bridged mono operation, refer to the specific wiring diagram in the full product manual.

Input Connections

- **High Level Input:** For head units without RCA outputs, connect speaker-level signals directly to the high-level input terminals.
- **RCA Inputs (CH1, CH2):** Connect RCA cables from your head unit's preamp outputs to these inputs. The Preamp RCA outputs also allow you to daisy chain multiple amplifiers for an expanded audio system.

Fuse Installation

The amplifier is equipped with two 30A fuses for protection. Ensure these are correctly installed before operation.



Image: Close-up view of the amplifier's control panel, showing input and output terminals, fuses, and adjustment knobs.



Image: The Crunch PX 1000.4 amplifier installed in a car trunk, connected to speakers.

OPERATING CONTROLS

The PX 1000.4 amplifier features several controls to fine-tune your audio output:

- **Level (Min/Max):** Adjusts the input sensitivity of the amplifier to match the output level of your head unit. Start at minimum and slowly increase until desired volume is achieved without distortion.
- **Sub Sonic (10Hz-40Hz):** A filter that removes extremely low frequencies that are inaudible and can cause damage to subwoofers. Adjust to protect your speakers.
- **LPF (Low Pass Filter) (40Hz-300Hz):** Allows only frequencies below the set point to pass through to the speakers. Useful for subwoofers to reproduce only bass frequencies.
- **Bass Boost (0dB, 6dB, 12dB):** Provides an adjustable boost to bass frequencies. Use sparingly to avoid distortion.
- **Phase (0°, 180°):** Adjusts the phase of the subwoofer output relative to the main speakers. This helps to ensure that bass frequencies from the subwoofer blend seamlessly with the rest of the audio system.
- **Remote (MAXX-U-01):** Connects to the included remote bass control knob, allowing convenient adjustment of bass levels from the driver's seat.

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Specifications

LENGTH WIDTH HEIGHT
 **12.6in x 10.8in x 3.7in**

WEIGHT
 **5.4lbs**



SIGNAL TO NOISE
 **>98db**

FREQUENCY RESPONSE
 **20-2000Hz**

VARIABLE BASS BOOST
 **0-12db**

Image: Top view of the amplifier highlighting key specifications and control labels.

MAINTENANCE

To ensure the longevity and optimal performance of your Crunch PX 1000.4 amplifier, follow these maintenance guidelines:

- Cleaning:** Periodically clean the exterior of the amplifier with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- Ventilation:** Ensure the amplifier has adequate ventilation. Do not block the cooling fins. Proper airflow prevents overheating, which can lead to performance degradation or damage.
- Connections:** Regularly check all power, ground, remote, and speaker connections to ensure they are tight and free from corrosion. Loose connections can cause intermittent operation or damage.

TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common troubleshooting steps:

- No Power:** Check the main power fuse near the battery and the fuses on the amplifier itself. Verify the ground

connection is secure and the remote turn-on wire is receiving +12V when the head unit is on.

- **Distortion/Poor Sound Quality:** Check input level settings (Min/Max) to ensure they are not set too high, causing clipping. Verify speaker wiring for correct polarity and impedance. Inspect speaker cones for damage.
- **Amplifier Goes into Protection Mode:** This usually indicates overheating, a short circuit in the speaker wiring, or an impedance mismatch. Allow the amplifier to cool down. Check speaker wires for shorts to ground or each other. Ensure the speaker impedance matches the amplifier's specifications.
- **No Sound:** Verify all input and output connections. Check the head unit's settings and ensure the volume is up. Test with a known working audio source.

SPECIFICATIONS

Feature	Specification
Model Number	PX1000.4
Brand	Crunch
Number of Channels	4
Output Power (Peak)	1000 Watts
RMS Power (4 Ohms)	4 x 125 Watts
RMS Power (2 Ohms)	4 x 250 Watts
RMS Power (Mono Bridged at 4 Ohms)	2 x 500 Watts
Dimensions (L x W x H)	12.6 x 10.8 x 3.7 inches
Weight	5.4 pounds
Minimum Supply Voltage	10 Volts (DC)
Mounting Type	Car Mount
Material	Aluminum, Metal/Plastic
Signal to Noise Ratio	>98dB
Frequency Response	20-2000Hz
Variable Bass Boost	0-12dB

WARRANTY AND SUPPORT

For warranty information and support regarding your Crunch PX 1000.4 amplifier, please contact the manufacturer directly. Details on how to reach customer service are typically provided in the packaging or on the official Crunch website. Keep your purchase receipt as proof of purchase for any warranty claims.