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Crunch PX-1000.2

Crunch PX-1000.2 1000 Watt 2-Channel Car Audio Amplifier Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Crunch PX-1000.2 1000 Watt 2-Channel Car Audio 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. Retain this manual for future reference.



Figure 1.1: Top-down view of the Crunch PX-1000.2 amplifier, showcasing its sleek black and red design.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- **Professional Installation Recommended:** If you are unsure about any aspect of installation, consult a qualified car audio technician.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits.
- **Proper Wiring:** Use appropriate gauge wiring for power, ground, and speaker connections as specified in this manual. Incorrect wiring can lead to overheating, fire, or damage to the amplifier and vehicle.
- **Fuse Protection:** Ensure the amplifier is properly fused. Do not bypass or use fuses with higher ratings than recommended.
- **Ventilation:** Install the amplifier in a location that allows for adequate air circulation to prevent overheating. Do not cover the amplifier or block its heatsink fins.
- **Moisture and Heat:** Avoid installing the amplifier in areas exposed to direct sunlight, excessive heat, or moisture.

- **Secure Mounting:** Mount the amplifier securely to prevent it from becoming a projectile in the event of a sudden stop or collision.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume responsibly.

3. SETUP AND INSTALLATION

Careful installation is crucial for optimal performance and longevity of your amplifier. Follow these steps for a successful setup.

3.1. Mounting Location

Choose a mounting location that is dry, well-ventilated, and away from direct heat sources. Common locations include the trunk, under seats, or behind rear seats. Ensure the amplifier is securely fastened to a solid surface.

3.2. Power and Ground Connections

Proper power and ground connections are essential for amplifier stability and performance.

- **Power (+12V):** Connect a heavy-gauge power cable (e.g., 8 AWG or larger, depending on total system power) directly from the positive terminal of the vehicle's battery to the +12V terminal on the amplifier. Install an in-line fuse holder within 18 inches (45 cm) of the battery.
- **Ground (GND):** Connect a heavy-gauge ground cable (same gauge as power cable) from the GND terminal on the amplifier to a clean, unpainted metal surface of the vehicle's chassis. Ensure a good electrical connection by scraping away any paint or rust.
- **Remote (REM):** Connect a remote turn-on wire (typically 18 AWG) from your head unit's remote output to the REM terminal on the amplifier. This wire turns the amplifier on and off with your head unit.



Figure 3.1: Rear panel connections for power, ground, remote, and speaker outputs.

3.3. Speaker Output Connections

Connect your speakers or subwoofers to the SPEAKER OUTPUT terminals. This is a 2-channel amplifier, allowing for stereo speaker connections or bridged mono operation for a single subwoofer.

- **Stereo Mode:** Connect the left speaker's positive (+) and negative (-) terminals to the LEFT speaker output, and the right speaker's positive (+) and negative (-) terminals to the RIGHT speaker output.
- **Bridged Mono Mode:** For a single subwoofer, connect the subwoofer's positive (+) terminal to the LEFT (+) speaker output and the subwoofer's negative (-) terminal to the RIGHT (-) speaker output. Ensure the subwoofer's impedance is compatible with bridged operation (typically 4 ohms minimum).

3.4. Input Connections and Audio Adjustments

Connect your head unit's RCA outputs to the LINE INPUT (RCA) terminals on the amplifier. If your head unit does not have RCA outputs, you may need a high-level input converter (not included).



Figure 3.2: Input and audio adjustment controls on the amplifier.

- **GAIN Control:** This adjusts the input sensitivity of the amplifier to match the output level of your head unit. Start with the gain at minimum (Min) and slowly increase it until you hear distortion, then back off slightly. Do not use the gain control as a volume knob.
- **SUPER BASS (Bass Boost):** This control allows you to boost bass frequencies (0-12dB). Use sparingly to avoid distortion and speaker damage.
- **X-OVER (Crossover) Controls:**
 - **LPF (Low Pass Filter):** Adjusts the upper frequency limit for signals passed to the speakers. Useful for subwoofers (e.g., 50Hz-250Hz).
 - **HPF (High Pass Filter):** Adjusts the lower frequency limit for signals passed to the speakers. Useful for full-range speakers to prevent low-frequency distortion (e.g., 120Hz-3kHz).
 - **FULL:** Bypasses the crossover filters, allowing the full frequency range to pass.

3.5. Installation Example



Figure 3.3: Example installation of the amplifier in a vehicle's trunk, positioned for optimal airflow.

4. OPERATING INSTRUCTIONS

Once installed, operating your Crunch PX-1000.2 amplifier is straightforward. The amplifier will power on automatically when your head unit is turned on, provided the remote wire is correctly connected.

- **Power Indicator:** A green LED labeled 'POWER' will illuminate when the amplifier is receiving power and operating correctly.
- **Protect Indicator:** A red LED labeled 'PROTECT' will illuminate if the amplifier detects a fault (e.g., short circuit, overheating, low voltage). If this light comes on, immediately turn off your audio system and investigate the cause.
- **Audio Adjustment:** Fine-tune the GAIN, SUPER BASS, and X-OVER controls as described in Section 3.4 to achieve your desired sound balance and prevent distortion. Make small adjustments and listen carefully to the changes.

5. MAINTENANCE

Your Crunch PX-1000.2 amplifier requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the heatsink fins are free of dust and debris to maintain efficient cooling.
- **Connection Checks:** Annually, inspect all power, ground, remote, and speaker connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure that the amplifier's mounting location remains clear of obstructions to allow for proper airflow.

6. TROUBLESHOOTING

If you encounter issues with your amplifier, refer to the following common problems and solutions before seeking professional service.

Problem	Possible Cause	Solution
No Power (Power LED off)	<ul style="list-style-type: none"> • Blown fuse (in-line or amplifier) • Loose power or ground connection • No remote turn-on signal 	<ul style="list-style-type: none"> • Check and replace fuses if necessary. • Verify all power and ground connections are secure. • Check remote wire connection at head unit and amplifier.
Protect LED is on	<ul style="list-style-type: none"> • Short circuit in speaker wiring • Overheating • Speaker impedance too low • Low or high voltage 	<ul style="list-style-type: none"> • Check speaker wiring for shorts. • Ensure adequate ventilation; allow amplifier to cool. • Verify speaker impedance is within amplifier's specifications. • Check vehicle's battery voltage.
No Sound Output	<ul style="list-style-type: none"> • Gain set too low • RCA cables disconnected or faulty • Speaker wires disconnected • Head unit output issue 	<ul style="list-style-type: none"> • Increase gain gradually. • Check RCA cable connections and integrity. • Verify speaker wire connections. • Test head unit with another audio source.
Distorted Sound	<ul style="list-style-type: none"> • Gain set too high • Bass boost set too high • Improper crossover settings • Poor ground connection 	<ul style="list-style-type: none"> • Reduce gain. • Lower bass boost. • Adjust LPF/HPF settings. • Ensure ground connection is clean and secure.

Problem	Possible Cause	Solution
Amplifier Overheats	<ul style="list-style-type: none"> Insufficient ventilation Speaker impedance too low Gain set too high 	<ul style="list-style-type: none"> Relocate amplifier for better airflow or clear obstructions. Verify speaker impedance. Reduce gain.

7. SPECIFICATIONS

The following table details the technical specifications for the Crunch PX-1000.2 amplifier.

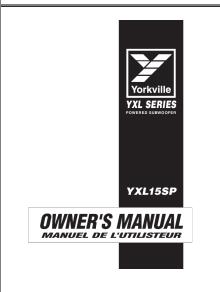
Figure 7.1: Visual summary of key amplifier specifications.

Feature	Specification
Model Number	PX 1000.2
Maximum Power Output	1000 Watts
Channels	2-Channel (Class A/B)
Product Dimensions (L x W x H)	11.4 x 10.8 x 3.7 inches
Weight	4.6 Pounds
Signal-to-Noise Ratio	>98dB
Frequency Response	20Hz - 2000Hz
Variable Bass Boost	0-12dB
Voltage (DC)	14.4 Volts (Nominal)
Manufacturer	Crunch

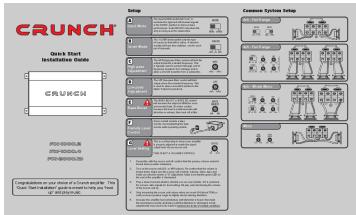
8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Crunch Audio website. Keep your proof of purchase for warranty claims. For additional assistance, you may contact Crunch customer service through their official channels.

Related Documents - PX-1000.2

	<p>AIYIMA D05 Bluetooth 5.0 Digital Amplifier User Manual AIYIMA AUDIO</p> <p>AIYIMA D05 Bluetooth 5.0 Digital Amplifier User Manual: Get detailed instructions on setup, operation, specifications, and troubleshooting for your AIYIMA D05 2.0/2.1 channel stereo HiFi amplifier. Covers front/rear panel layout, remote functions, PC-USB connectivity, sound settings, and FAQs.</p>
	<p>Yorkville YXL10SP, YXL15SP, YXL18SP Service Manual</p> <p>Comprehensive service manual for Yorkville YXL10SP, YXL15SP, and YXL18SP 1000 Watt Active Subwoofer Enclosures, detailing safety instructions, specifications, rear panel controls, block diagrams, and access to schematics.</p>
	<p>Yorkville YXL15SP Powered Subwoofer Owner's Manual</p> <p>Owner's manual for the Yorkville YXL15SP 1000 Watt Active Subwoofer Enclosure, detailing features, specifications, safety instructions, and warranty information.</p>
	<p>Pyle PT694BT Amplifier: Frequently Asked Questions and Troubleshooting</p> <p>Find answers to common questions about the Pyle PT694BT 5.2-Channel Hi-Fi Bluetooth Stereo Amplifier, covering audio output, Bluetooth compatibility, remote control, and troubleshooting the PROTECT mode.</p>
	<p>Sinilink XY-S100L 2.1 Channel Bluetooth Audio Power Amplifier Board User Manual and Specifications</p> <p>Comprehensive guide to the Sinilink XY-S100L 2.1 channel Bluetooth audio power amplifier board, detailing its features, technical specifications, installation, connection methods, and usage instructions for optimal audio performance.</p>
	<p>PYLE PTA1000 Wireless BT Pro Audio Power Amplifier User Manual</p> <p>Comprehensive user manual for the PYLE PTA1000 Wireless BT Pro Audio Power Amplifier. Learn about its features, operation, safety instructions, and troubleshooting for this 1000 Watt, 2-Channel Rack Mount amplifier.</p>

[pdf] Installation Guide Guide



Crunch Car Amplifiers Installation Guide amplifiers car class a b d mono 2 channel 4 bridgeable variable filter bass CARiD px maxxsonics installation guide images card crunch items |||

Quick Start Installation Guide Congratulations on your choice of a Crunch amplifier. This Quick Sta ... copper cable. Cable size recommendations for multi amp systems are available on our website. Model **PX-1000.2** PX-1000.4 PX-2000.1D Fuse Size 1-40A 2-30A 2-40A Cable Size 4ga Installation 1 Disconne...

lang:en score:37 filesize: 1.76 M page_count: 2 document date: 2018-01-24