

XTRA™ Full Rack Series • Setup Guide

This guide provides basic instructions for an experienced installer to set up and operate the Extron® XTRA Full Rack Series of power amplifiers. All references refer to the *XTRA Full Rack Series: XPA 2002, XPA 2002-70V, 2003C-70V, and 2004 User Guide*.

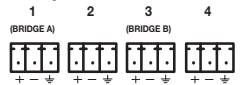
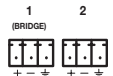
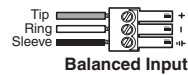
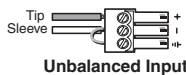
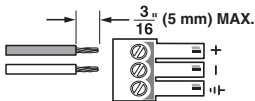
IMPORTANT:
Refer to www.extron.com for the complete user guide and installation instructions.

- XPA 2002 outputs stereo audio at 200 watts rms per channel (4-ohm speakers) or 100 watts rms per channel (8-ohm speakers) on channels 1 and 2. Output is 400 watts bridged mono (8-ohm speaker).
- XPA 2002-70V outputs 200 watts rms per channel on channels 1 and 2 for 70 V systems.
- XPA 2003C-70V outputs 200 watts per channel (4-ohm speakers) or 100 watts per channel (8-ohm speakers) on channels 1 and 2, and 200 watts (70 V line, mono) on channel 3.
- XPA 2004 outputs stereo audio at 200 watts per channel (4-ohm speakers) or 100 watts per channel (8-ohm speakers) on channels 1, 2, 3, and 4. Output is 400 watts per bridge in bridged mono (8-ohm speakers) on bridge A (channels 1 and 2) and bridge B (channels 3 and 4).

Installation

NOTE: Adjust the audio level to ∞ prior to the amplifier being powered back up in step 5. See “Rear Panel Features and Operation” in the user guide.

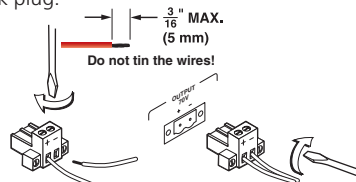
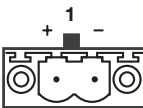
1. Turn off all equipment including the XPA amplifier by toggling the power off and **disconnecting the power cords**. Verify that the amplifier is disconnected from the power source before proceeding.
2. **Mount the amplifier** — For diagrams of typical application examples, see “Application Examples” in the user guide. For further mounting instructions, see “Mounting the XTRA Series of Power Amplifiers” in the user guide.
3. Wire input to the 3.5 mm input connectors of the amplifier, as shown in the following illustration. See “Rear Panel Features and Operation” in the user guide for bridging information.



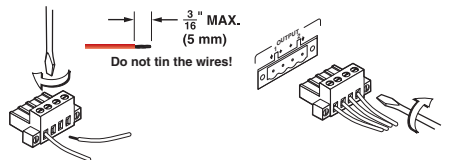
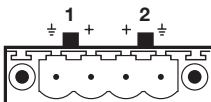
NOTE The wires **must not be tinned**: tinned wire does not hold tight in the captive screws and can break easily after several bends.

4. **Wire the outputs** — Wire speakers to the output connectors of the amplifier using the included 2-pole (XPA 2002, XPA 2002-70V and XPA 2003C-70V) or 4-pole (XPA 2003C-70V and XPA 2004) screw lock plug.

2-pole (70 V) output connector wiring:



4-pole (8 ohm or 4 ohm) output connector wiring:



XTRA Full Rack Series • Setup Guide, cont'd

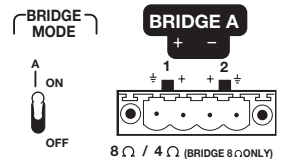
WARNING: Do not short the “+” and “≡” outputs to each other. Doing so will short the outputs and may damage the amplifier.

For complete wiring details, see “Rear Panel Features and Operation” in the user guide.

- Bridge outputs (XPA 2002, XPA 2004)** — Bridging the output of input 1 (for the XPA 2002) or inputs 1 and 3 (for the XPA 2004) doubles the output of those inputs. See “Bridged mode output” in the user guide for further details.

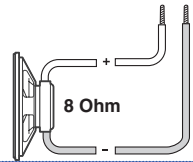
Bridge mode: XPA 2002

Bridging takes the signal from input 1 and outputs the combined output of 400 watts from the + terminals of output channels 1 and 2. Toggle the bridged output mode switch up (bridged) or down (unbridged). See the diagram at right.



Bridge mode: XPA 2004

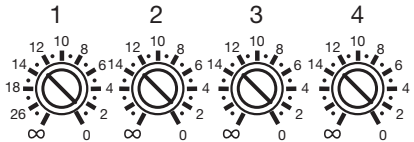
Bridging takes the signal from input 1 or input 3 or both and outputs the combined output of 400 watts from the + terminals of output channels 1 and 2 (Bridge A), or output channels 3 and 4 (Bridge B), or both. Toggle the bridged output mode switch up (bridged) or down (unbridged) for the appropriate input channel. See the diagram at right.



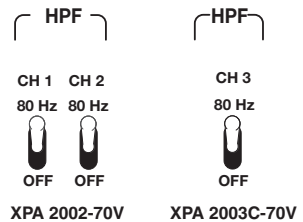
NOTE: When bridging outputs, the minimum load impedance is 8 ohms.

- Reconnect all power cords and switch on all other equipment before powering up the power amplifier. The amplifier must be powered up last. The front panel LED of the amplifier should light green.

- Adjust the audio level using the rear panel adjustment screws, shown at right.



- Set the high pass filter** — Use a small screwdriver to toggle this switch between off (no filtering) and 80 Hz. The XPA 2002-70V has two switches, one for each output channel. The XPA 2003C-70V has one switch for the 70V line distribution output channel (channel 3). Setting the switch to 80 Hz prevents the saturation of 70V speaker input transformers by low frequency signals.



- If desired, wire a contact closure device to the remote standby connector. Connecting pin 2 to ground (pin 1) places the amplifier in standby mode. Standby mode turns off all outputs, although the amplifier is still receiving power.

Use the included 2-pin, 3.5 mm captive screw connector to jumper the pins.



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