

**IMPORTANT:**  
Refer to [www.extron.com](http://www.extron.com) for the complete user guide and installation instructions before connecting the product to the power source.

# XTRA™ Full Rack Series • Setup Guide

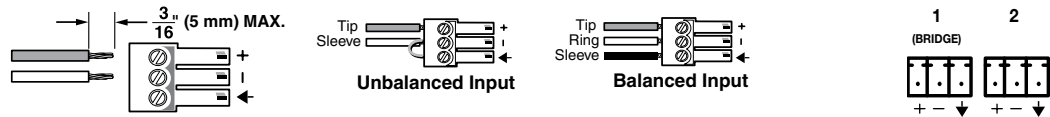
This guide provides basic instructions for an experienced installer to set up and operate the Extron XTRA Full Rack Series of power amplifiers. All user guide references refer to the *XTRA Full Rack Series User Guide*.

- 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 2002-100V outputs 200 watts rms per channel on channels 1 and 2 for 100 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 2003C-100V outputs 200 watts per channel (4-ohm speakers) or 100 watts per channel (8-ohm speakers) on channels 1 and 2, and 200 watts (100 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).
- XPA 4002 outputs stereo audio at 400 watts rms per channel (4-ohm speakers) or 200 watts rms per channel (8-ohm speakers) on channels 1 and 2. Output is 800 watts bridged mono (8-ohm speaker).
- XPA 4002-70V outputs 400 watts rms per channel on channels 1 and 2 for 70 V systems.

## Installation

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

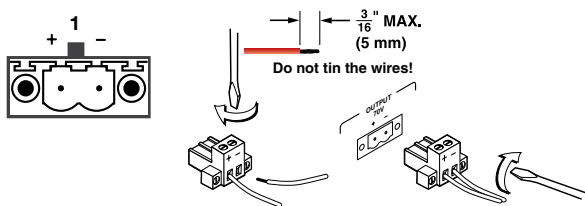
**NOTE:** Control signal ground pins may be labeled as  $\oplus$  or “G”. Audio ground pins may be labeled as  $\ominus$  or  $\downarrow$ . The wiring and function are the same, whichever way your product is labeled.



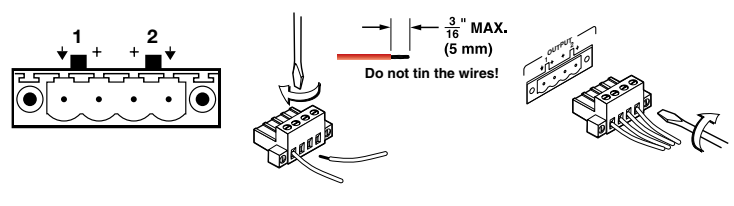
**NOTE:** The wires **must not be tinned**: tinned wire does not hold tight in the captive screws and can break easily after several bends.

- 4. Wire the outputs** — Wire speakers to the output connectors of the amplifier using the included 2-pole (70 V or 100 V) or 4-pole (8 ohm or 4 ohm) screw lock plug.

2-pole (70 V or 100 V) output connector wiring:



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



**CAUTION:** Do not short the “+” and “-” outputs to each other. Doing so may damage the amplifier.

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

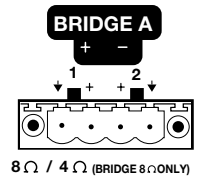
# XTRA™ Full Rack Series • Setup Guide (Continued)

5. **Bridge outputs (XPA 2002, XPA 2004, and XPA 4002)** — Bridging the output of input 1 (XPA 2002 and XPA 4002) or inputs 1 and 3 (XPA 2004) doubles the output of those inputs (see “Bridged Mode Output” in the user guide for further details). The bridge output mode toggle switch is shown at right.



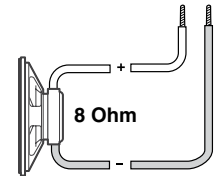
**Bridge mode: XPA 2002 and XPA 4002**

Bridging takes the signal from input 1 and outputs the combined output of 400 watts (XPA 2002) or 800 watts (XPA 4002) from the + terminals of output channels 1 and 2 (see the diagram at right). Toggle the bridged output mode switch up (bridged) or down (unbridged).



**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 (see the diagram at right). Toggle the bridged output mode switch up (bridged) or down (unbridged) for the appropriate input channel.

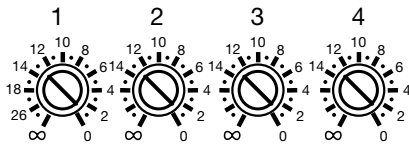


**NOTE:** When bridging outputs, the minimum load impedance is 8 ohms.

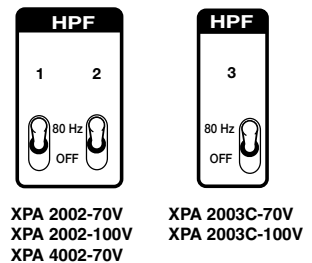
6. Reconnect all power cords and switch on all other equipment before powering up the power amplifier. The amplifier must be powered up last. The front panel LED of the amplifier should light green.

**NOTE:** Adjust the attenuation level to ∞ before powering the amplifier back up in step 6. See “Rear Panel Features and Operation” in the user guide for details. On some models, this adjustment is referred to as “level”, but the function is the same, whichever way your product is labeled.

7. Adjust the attenuation level using the rear panel adjustment screws.



8. **Set the high pass filter** — Use a small screwdriver to toggle this switch between off (no filtering) and 80 Hz (default). The XPA 2002-70V, XPA 2002-100V, and XPA 4002-70V have two switches, one for each output channel. The XPA 2003C-70V and the XPA 2003C-100V have one switch for the 70 V (XPA 2003C-70V) or 100 V (XPA 2003C-100V) line distribution output channel (channel 3). Setting the switch to 80 Hz prevents the saturation of speaker input transformers by low frequency signals (see the diagram at right).



9. 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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