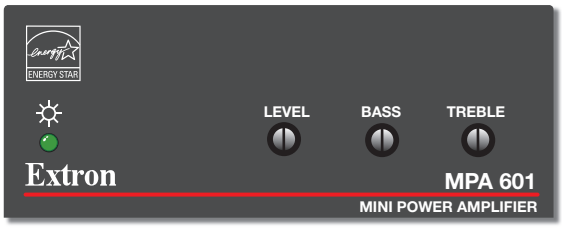
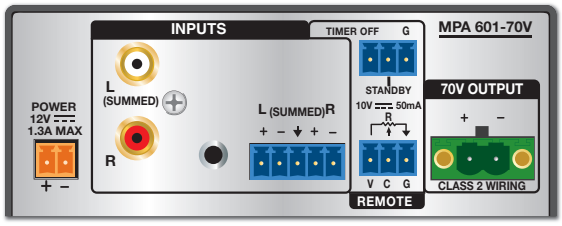
Extron Electronics
INTERFACING, SWITCHING AND CONTROL

IMPORTANT:
Go to www.extron.com for the complete user guide, installation instructions, and specifications before connecting the product to the power source.

MPA 601-70V and MPA 601-100V • Setup Guide

This guide provides basic instructions for an experienced installer to install and configure the Extron MPA 601-70V and MPA 601-100V mini power amplifiers. See below for front and back panel of the MPA 601-70V.





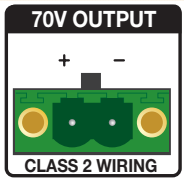
Step 1 — Turn all of the equipment off and disconnect all power sources.

Step 2 — Mount the amplifier in either a plenum space, on a rack, under a desk, or on a projector.

ATTENTION:

- Although the amplifier is plenum rated, the power supply provided with it is not. The power supply must not be placed in the plenum space. Cables to and from the amplifier must be plenum rated.
- Bien que l'amplificateur soit conforme à la norme relative aux faux plafonds, la source d'alimentation fournie avec ne l'est pas. La source d'alimentation ne doit pas être placée dans l'espace plenum. Les câbles depuis et vers l'amplificateur doivent aussi être classés plenum.
- Use only the two round mounting holes for mounting the MPA 601. The other four (hexagonal) holes anchor stand-offs for the internal circuit boards. Using them may damage the amplifier and does not provide secure mounting for the unit.
- Utilisez seulement les deux trous pour monter le MPA 601. Les autres quatre trous d'ancrage sont destinés aux cartes de circuit internes. Le fait de les utiliser pourrait endommager l'amplificateur et n'assurera pas un montage sécurisé pour l'unité.

Step 3 — Attach the speakers to the MPA 601 using the 2-pole, 5 mm screw-lock captive screw speaker receptacle on the rear panel.

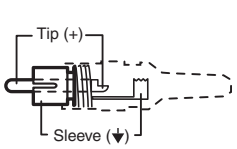


ATTENTION:

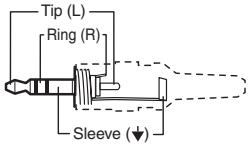
- Do not ground or short the speaker outputs as this will damage the amplifier.
- Ne pas mettre à la terre ni créer de court-circuit dans les sorties de l'enceinte, afin d'éviter tout risque de détérioration de l'amplificateur.

Step 4 — Attach sources to the MPA 601 unit from the audio source or projector. The three rear panel audio inputs can be used individually or together:

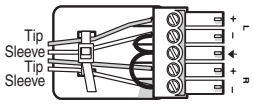
- One pair of RCA receptacles (unbalanced)
- One 3.5 mm stereo tip-ring-sleeve receptacle (unbalanced)
- One 3.5 mm, 5-pole captive screw receptacle (balanced or unbalanced)



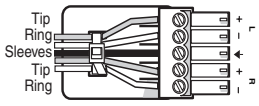
RCA Connector



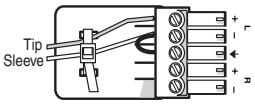
3.5 mm TRS Connector



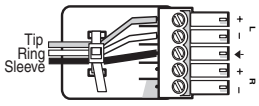
Unbalanced Stereo Input



Balanced Stereo Input



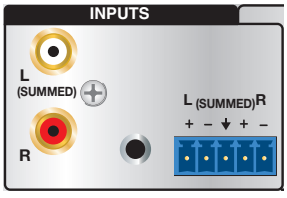
Unbalanced Mono Input



Balanced Mono Input

NOTES:

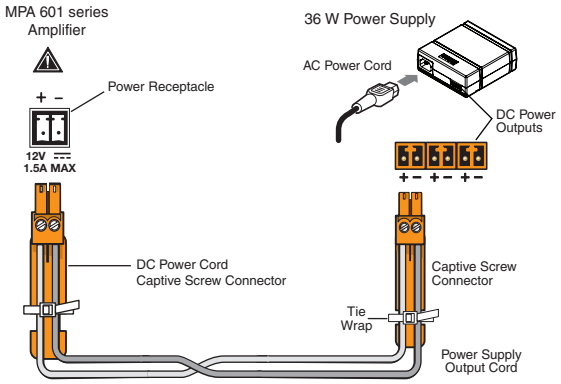
- The MPA 601 amplifier sums the left and right signals from both the TRS and RCA inputs to form Sum 1. Sum 1 is then weighted. At the same time, the amplifier sums the left and right signals from the captive screw input to form Sum 2. Sum 1 and Sum 2 are then summed together to form a single mono signal. Refer to the *MPA 601 Series User Guide* for more details regarding audio summing.
- The captive screw, RCA and TRS inputs are buffered.



Ensure the audio output of the projector is set to variable. Multiple input options can be used simultaneously and be summed.

Step 5 — Connect power cords to the MPA 601 and other audio equipment. The MPA 601 ships with an Extron 36 W desktop power supply.

Connect the pre-wired captive screw connector into one of the two pole, 3.5 mm captive screw outlets on the power supply and the other end into the power receptacle on the amplifier (see the figure to the right). The power cord connectors are correctly wired when shipped (see Attention below).

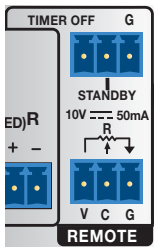


ATTENTION:

- See the attention notices in the Power Input section of the *MPA 601 Series User Guide* for important information about using power supplies.
- Reportez-vous aux précautions d'emploi incluses dans la section sur l'entrée d'alimentation du *MPA 601 Series User Guide* pour des informations essentielles sur l'utilisation des sources d'alimentation.
- When the 36 W power supply is connected to the MPA 601, it must not be shared with any other devices.
- Lorsque la source d'alimentation 36 W est connectée au MPA 601, elle ne peut être partagée avec aucun autre appareil.

Step 6 — Adjust the MPA 601 input **LEVEL**, **BASS**, and **TREBLE** from the front panel (see figure at right).

1. If necessary, unplug the remote connector from the unit (see step 7, below).
2. If connecting the amplifier to a system with adjustable volume, set the volume to its lowest point. Then adjust the MPA 601 front panel **LEVEL** potentiometer fully counterclockwise.
3. Set the system volume to its maximum volume level (no sound should come out).
4. Return to the MPA 601 and raise the **LEVEL** until sound distortion first occurs, then lower slightly until the distortion disappears. This setting ensures that, whatever the system volume setting may be, no clipping occurs.
5. Adjust **BASS** and **TREBLE** to preference.



Step 7 — The rear panel lower 3-pole Remote captive screw receptacle on the amplifier can be used for remote control of the volume by an Extron volume controller such as an Extron VCM 100 AAP, VC 50, MLA VC10 Plus, MLC 55 RS VC, or MLC 64 RS VC D. These controllers have a built-in VC module that can be used to control the amplifier. MediaLink controllers can also adjust the audio volume at the source, rather than with the volume control port, via a network connection or by IR remote (see the *MPA 601 Series User Guide*).

Step 8 — The rear panel upper 3-pole Remote captive screw receptacle on the amplifier affects standby. When the **STANDBY** pin is shorted to ground, the MPA 601 goes into standby mode. The front panel power LED turns amber to indicate when the MPA 601 is in standby. When the **TIMER OFF** pin is shorted to ground, the standby timer will be disabled, and the amplifier does not go into standby after 25 min (±5 min) of inactivity. The MPA 601 can still be forced into standby mode using the **STANDBY** pin, even if the timer has been defeated.

When the short is removed from the **STANDBY** pin, the unit may remain in standby mode, depending on certain conditions:

- The input signal is below the input signal detection threshold.
- The standby timer is enabled.
- The timeout interval since the last detection of a signal has elapsed.

NOTE: If the **TIMER OFF** pin is shorted to ground, the unit will always come out of standby when the short is removed from the **STANDBY** pin.

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