



M10 Power Amplifier

Quick Start Guide

Thank you for choosing the M10 power amplifier for your audio system. The M10, like all the other products designed by CH Precision, is highly versatile. Unlike many, more conventional power amplifiers, in order to achieve the best results from your unit, it is important to read the user manual that contains all the information needed to set up, configure and use your power amplifier. The current user manual is included with your amplifier and also stored on the USB stick in the accessory pack. The latest version of both the manual and the unit Firmware is also available to download www.ch-precision.com.

This guide will help you get started with your power amplifier.

You will need a box cutter and somebody to help with the lifting. Both of the M10 chassis are very heavy and we strongly recommend that they each be moved by at least two people.

1. Open the boxes carefully (they're heavy!)

They should contain:

- The two amplifier units, one in each carton. The M10 power supply (with captive cables) is especially heavy, so handle it with considerable care and ensure that you do not crush or trap the captive umbilicals.
- The accessory box and manual
- Eight CH composite Titanium spikes (located in the bottom piece of foam)
- Eight CH polymer footer discs
- Eight small, dimpled polymer Stacking Caps
- Two C19 mains power cords
- A suction cup (located in the top piece of foam)

If anything is missing or if the units present cosmetic damage due to transportation, please contact your dealer immediately.

2. Place your units (remember – they're heavy!)

- Check that the voltage selector located on the IEC socket at the back of your Power Supply unit is displaying the voltage in use at your location. If different, do not continue with this procedure and contact your dealer for assistance.
- If using the integral ground/support spikes:
 - Remove the unit's four Top Covers using the provided suction cup.
 - Insert the CH Spikes into the wells and start them in the threads in the base, ensuring you don't insert them too far so that the spikes show and might damage the supporting surface.
- Place the amplifier in its final position, ensuring there is sufficient airflow around, above and below it. The polymer footers can be used to help slide the unit(s) into place, but should be removed once the final position is reached. Now, using the short screwdriver provided, wind the spikes down until they lift the unit clear of the supporting surface. Ensure that all four spikes are in even contact and that the unit is level. Replace the top caps.
- If you are stacking CH units you need to use the small, dimpled Stacking Caps provided **and place the amplifier unit (carefully!) on top of its power supply**. The spikes should locate directly into the dimples in the caps. Level as above.

- **Please note that in a pair of mono-block units, the Left channel is the unit with the white RCA input connector. The Right channel is the unit with the red RCA input connector. Place the units in your system accordingly.**

- If your unit is cold due to transportation, let it warm up to room temperature before powering it up.

3. Power Connections

- Before attempting any electrical connections, set the power switch at the back of the unit to OFF (the 0 on the switch should be depressed).
- Connect the four umbilicals between the power supply and the amplifier chassis. The four umbilicals and their sockets are color-coded for correct location.
- Connect the unit to the mains grid using the provided power cords.
- **Never connect or disconnect the umbilicals that link the power supply to the amplifier chassis with the units switched on.**
- **Always complete the power cord and umbilical connections before connecting any signal cables.**

4. Audio Connections

Never attempt to make or modify audio connections with your amplifier powered on. The power supply unit's back panel switch must be in the OFF position while making audio connections. The mains power cords should be plugged into the wall socket so the unit is grounded.

- Consult the included system topology diagrams before starting.
- Connect the Left and Right outputs of your system's line preamplifier to the inputs of your M10 unit(s). The interconnection can be XLR, RCA or BNC.
- Connect the loudspeaker outputs.
 - Loudspeaker cables with spade connectors: insert the spade in the slot at the bottom of the binding posts and tighten.
 - Loudspeaker cables with banana-plugs: unscrew and remove the binding post caps completely. There is a 4mm socket for the banana-plug inside each binding post.
- Make sure that the loudspeaker cables run clear of the amplifier chassis as contact will degrade the sound and might result in damage to the amplifier.

Refer to the diagrams overleaf for the correct connections of your power amplifier to your line preamplifier and loudspeakers.

5. Configuring The Output Stage

Your M10(s) can be configured in one of five amplification modes – stereo, bridged, monaural, passive or active bi-amp. These are selected using the small buttons to the right of the front-panel display on the amplifier chassis.

- Power up your amplifier(s).
- Navigate to the Audio Settings menu using the middle button and then the up/down buttons on either side of it:
Main menu → Audio Settings:
- Select the correct Amplifier Mode for your system. Press the middle button to save your setting.
- Navigate to Input and select the one used in your system (XLR, RCA or BNC). We recommend to use XLR interconnections



whenever possible. For RCA and BNC, Hi-Z or 300R input impedance can be selected (600 Ohm for the XLR input), please refer to your line preamplifier user manual for compatibility with 300R input loading.

- Input gain – start with the default input gain (+6dB in bridge mode, 0dB for all other mode). Reduce the amplifier input gain as necessary if the system has too much overall gain.
- Global Feedback – start at 0%. The percentage can be increased in 1% steps as necessary to optimize the sound. Note that in Bi-amp mode, you can increase global feedback independently

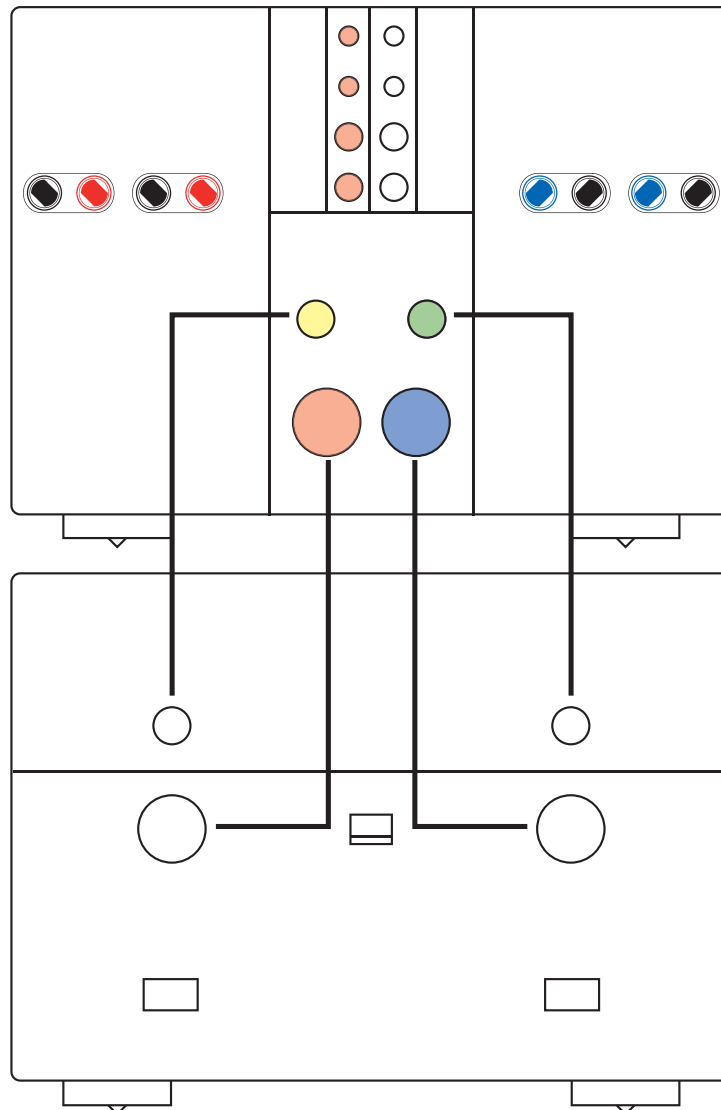
on each channel, allowing you to add damping at low-frequencies without impacting the midrange.

6. Advanced Settings

There are a number of advanced settings and connections that can be applied to your M10(s). These include:

- Ground sockets/switch located on the back of each unit.
- Firmware updates.
- Network remote control of any CH Precision component. Please see the full manual for information on these important options.

M10 Power Amplifier Umbilical Connections



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