

Warranty

Knoll Systems warrants MA225e Amplifiers sold in the USA and Canada by authorized Knoll dealers to be free of defects in materials and workmanship. This warranty extends for three full years from the date of purchase by the original consumer. Any products returned to Knoll Systems and found to be defective by Knoll Systems within the warranty period will be repaired or replaced at Knoll Systems option, at no charge. Knoll Systems will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state-to-state.

Specifications:

Inputs	Gold RCA jacks with adjustable gain
Input impedance	55k ohms
Outputs	Detachable 4 position connector
Output power	25 watts RMS per channel (4 ohms)
Peak output power	30 watts per channel (4 ohms)
Ideal impedance	4 - 8 ohms
Frequency response	10 Hz - 20 kHz +/- 1dB (1w)
THD distortion	less than 1% 20 Hz to 20 kHz
IMD distortion	less than 0.5% 60 Hz 7 kHz 4:1 (SMPTE)
Dimensions	6-3/8" x 2-1/2" x 2-1/4" h (162x64x57mm)
Weight:	¾ lb. (0.35 kg) without power supply
Power	30VDC at 1800mA

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Made in Canada



MA225e Amplifier



Eco-System Wall Mount Stereo Amplifier Installation Instructions v1.2

Warning: To be installed and/or used in accordance with appropriate electrical codes and regulations.

Description: The MA225e amplifier is a 25-watt per channel high-fidelity stereo amplifier. Stable from 2 to 16 ohm loads, the MA225e integrated amplifier features a volume/gain, bass, treble and balance controls. MA225e amplifier is designed to meet the amplifier needs of custom installed systems where high-quality sound is a specific requirement.



- Small size, really big sound. Fits almost anywhere.
- Stereo amplifier has 25 watt per channel rating.
- Each channel is protected from overheating, overloading, overvoltage and undervoltage. The protection circuitry automatically restores the amplifier channel as soon as its parameter returns to the safe operating area.
- 2-16 ohms stable. Goes with almost any speaker.
- Eco-System circuit turns amp off when not in use.

Installation

The MA225e amplifier does not have to be near the stereo equipment but long line level audio runs are not recommended. It is better to have long speaker wire runs rather than long line level source audio wire runs.

If long line level audio runs are required, we suggest using the Knoll UTP stereo balun balancing system to avoid electro magnetic interference. Avoid installing the MA225e amplifier in high heat or humidity areas.

Connect the stereo source to the MA225e gold RCA jacks labeled INPUT using good quality short as possible RCA jack wires.

Connect the speakers to the MA225e using good quality 18-12 gauge wires. If the wires are mounted inside a wall, fire rated wire may be required. Speaker polarity is important. Wrong polarity or out of phase speaker wiring will make the bass response of the speakers poor. Carefully check that the + of speakers are connected to the + of the MA225e terminals.

Connect the power supply to the MA225e power jack. If the stereo source has a switched outlet we suggest plugging the power supply into the switched outlet.

Plug the power supply or supplies into the wall. After the system powers up and the source is on and running, adjust the volume/gain and on the MA225e adjust the balance, bass and treble as needed.

The **sensitivity adjustment** on the side of the amp lets the amp know when to turn on and off. If the line noise is high the sensitivity should be adjusted a tiny bit up so when no signal is present the MA225e turns off within a minute of not playing anything.

Operation

Turn the source on and confirm it is operating.

Turn the MA225e on by plugging in the power supply or switching the power supply on.

When the MA225e is playing something the led should be on. Within a minute of not playing anything the led should turn off.

Use the MA225e volume to turn the volume to the correct level.

Adjust the MA225e bass, treble and balance as desired.

Note: The MA225e amp may be hot to the touch after operating for some time. This is normal.

Knoll Systems service information

The MA225E amplifier does not contain any user serviceable parts inside. If you suspect a problem that may require servicing, contact us at www.knollsystems.com/contact.html, or by phone at 800 566-5579.

Troubleshooting

If a problem is encountered with the MA225e amp, the most expedient procedure is to locate the problem and if possible repair it before requesting service. Be sure to carefully check other system components such as controllers, CD players, volume controls, wiring, speakers, etc. that may be at fault.

Problem	Action
Power LED does not light - no sound	<ol style="list-style-type: none">1. Check that the amp power supply is plugged in.2. Test the AC outlet with a lamp.
Sound cuts out ohms.	<ol style="list-style-type: none">1. Verify speaker impedance is 2-16 Changing speakers may be required.2. Check if the MA225e feels hot. If it's hot increase cooling.
Sound is distorted	<ol style="list-style-type: none">1. Turn the volume down.2. Check speakers for damage.3. Check inputs for proper levels. MA225e gain and source output level may have to be adjusted.4. Speakers may be less than 4 ohms.
Speaker pops when amp turned on or off	<ol style="list-style-type: none">1. Speaker may need resistor placed across terminal. Suggest 2k0 1/4 w. This resistor discharges the speaker internal capacitor.