

Warranty

Knoll Systems warrants Illusion 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	15 watts RMS per channel (8 ohms)
Peak output power	20 watts per channel (8 ohms)
Ideal impedance	4 - 8 ohms
Frequency response	10 Hz - 40 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	4-1/2" x 1-3/4" x 4-1/4" (114 x 43 x 107mm)
Weight:	3/4 lb. (0.35 kg) without power supply
Power	13VDC at 1800mA

Knoll Systems

145 Tye Drive Point Roberts, WA 98281
12140 Horseshoe Way, Richmond, BC V7A 4V4
Tel: (604) 272 4555, fax (604) 272 5595

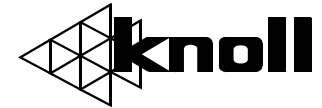
Made in Canada



Illusion Amplifier

Stereo Amplifier

Installation Instructions v1.0



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

Description: Illusion amplifiers are a line of 15-watt per channel high-fidelity stereo amplifiers. Stable from 2 to 16 ohm loads, the Illusion amplifiers are available with an integrated pre-amplifier (Illusion 2) or just with a volume control (Illusion 1). The Illusion 2 integrated amplifier features a volume/gain, bass, treble and balance controls. Illusion amplifiers designed to meet the amplifier needs of custom installed systems where high-quality sound is a specific requirement.



Key Features:

- Small size, big sound. Fits almost anywhere.
- Versatile amplifier available in 2 versions (with and without bass, treble and balance).
- Amplifier has 15 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.
- Shipped with PS1318 in countries with 120 volt 60 Hz power supply.

Installation

The Illusion 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 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 Illusion amplifier in high heat or humidity areas.

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

Connect the speakers to the Illusion 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 Illusion terminals.

Connect the PS1318 power supply to the Illusion jack labeled "13VDC". If the stereo source has a switched outlet we suggest plugging the PS1318 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 Illusion 2 adjust the balance, bass and treble as needed.

Operation

Turn the source on and confirm it is operating.

Turn the Illusion on by plugging in the power supply or switching the power supply on and switching the power switch on the Illusion front face on. When the power in on the Illusion amplifiers blue LED will be on.

Use the Illusion volume to turn the volume up to the desired level.

Adjust the Illusion 2 bass, treble and balance as desired.

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

Knoll Systems service information

The Illusion 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 Illusion 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

Power LED does not light - no sound

Action

1. Check that the amp power supply is plugged in.
2. Test the AC outlet with a lamp.
3. Check Illusion power button on (in).

Sound cuts out ohms.

1. Verify speaker impedance is 2-16 Changing speakers may be required.
2. Check if the Illusion feels hot. If it's hot increase cooling.

Sound is distorted

1. Turn the volume down.
2. Check speakers for damage.
3. Check inputs for proper levels. Illusion 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

1. Speaker may need resistor placed across terminal. Suggest 2k0 1/4 w. Discharges speaker internal cap.