

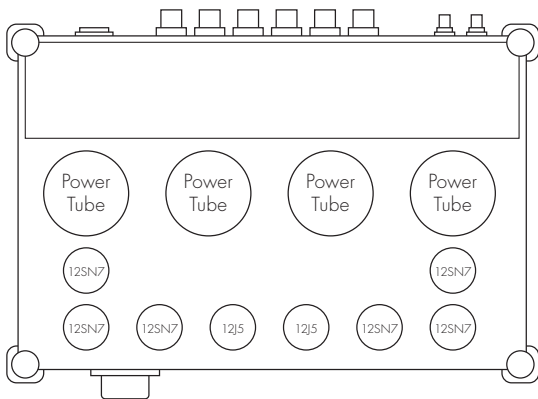
Shadow Reference Stereo Amplifier
User Guide



Congratulations on your purchase of the 14-tube 50Wpc Raven Audio Shadow Reference Stereo Amplifier. Locate your amplifier between the speakers if possible and preferably not on carpet without using amp stands. Best practice is to use longer interconnects to the amp and shorter speaker cables.

Insert tubes with care according to the diagram and check tube orientation with their sockets. Wipe off the tubes before first use. All Raven Audio amplifiers are auto-biasing so you never have to be concerned when inserting compatible power tubes, but always use matching pairs.

VACUUM TUBE ASSEMBLY DIAGRAM



PRODUCT DETAIL

Specifications

Output: 50Wpc
Frequency response: 20Hz - 20kHz
Inputs: 1/pr balanced XLR, 1/pr single-ended RCA
Speaker terminals: 4 and 8 ohm
Recommended speaker sensitivity: 87dB - 96dB
Dimensions: W 19.5" x D 9.5" x H 13.5"
Weight: 68lbs

Tube Complement

4 x 12J5 – Inner pair first stage, outer pair phase inverters
2 x 12SN7/12SX7 – Driver tube
2 x 12SN7 – Cathode follower
2 x 12SN7 – Auto-bias
4 x 6550 (supplied), KT88, KT90, KT100, KT120– Power tubes
Auto-biased power tubes, interstage transformers

IMPORTANT: USING YOUR VACUUM TUBE AMPLIFIER

- Do not unplug an interconnect while the amplifier is on
- Do not unplug a speaker cable while the amplifier is on
- Do not allow the ends of unconnected speaker cables to touch
- Do not plug your amplifier into an ungrounded power socket
- Turn on the preamp and source components first
- Allow them to warm up before turning on the amplifier
- Turn down the volume on the preamp and turn the amp on last
- Turn down the volume on the preamp and turn the amp off first
- When turning off the amps wait 15 minutes before restarting
- Always use the correct tube types available from Raven

PLEASE READ AND FOLLOW THESE IMPORTANT SAFETY PRECAUTIONS

WARNING: AC Voltage

Do not plug this Raven Audio device into a power outlet differing in configuration or voltage from the source indicated for safe use on the device. If you don't know the type of electrical power that is supplied to your home, please consult your local power utility company for further information.

WARNING: Grounding and Polarization

Your Raven Audio device has a three-prong grounding-type AC plug. This plug is designed to be inserted into a grounding type outlet only. If this plug doesn't fit directly inside your outlet, do not attempt to force it into the outlet.

Never attempt to disassemble or modify the plug in any way or to use an altered extension cord to make it fit into a two-prong outlet. The grounding feature is a necessary and important safety and design feature.

Do not attempt to circumvent it by using a 3-to-2 prong adapter. If you do not have a properly grounded three prong outlet available, call a local electrician to install one. Proper grounding techniques as specified in section 810 of the National Electrical Code (NEC), AASI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code). Doing so will provide protection against voltage surges and static charges.

WARNING: Cleaning

The only cleaning necessary for your Raven Audio device is a light, dry dusting. Do not use any type of liquid or aerosol cleaners and unplug the device from the wall before cleaning it.

WARNING: Liquid – Avoiding Electrical Shocks

Do not operate your Raven Audio device if liquid of any kind is spilled onto or inside the unit. Do not operate your Raven Audio device near liquid of any kind spilled, condensed, or contained. Do not operate your Raven Audio device in the bathroom, kitchen or anywhere near a sink or bathtub.

WARNING: Power Cord Safety

If the protective jacket of the power cord begins to wear or fray and any internal wiring is exposed, immediately disconnect it from the Raven Audio and discontinue use. Do not route any of the incoming or outgoing cables from your Raven Audio device place in heavy foot traffic which could cause undue wear, strain or cause a tripping hazard.

CAUTION: Exposure to Heat

Do not expose your Raven Audio device to direct sunlight or place it near heat sources or in any enclosed space prone to uncontrolled high temperature.

WARNING: No User Serviceable Parts Inside

If, for any reason, your Raven Audio device does not operate properly, never open the unit or attempt to service it yourself in any way. There are no user serviceable parts inside. Unplug the unit and contact the manufacturer for further assistance.

CAUTION: Proper Power and Protection

To deliver clean power to your equipment, every single wire Into, or out of your equipment must be connected to an appropriate Raven Audio device. There can be no other pathway into, or out of your system. This includes all power, signal, control, antenna, data, phone, internet, cable or other connection to all components within the system.