

Reflection Integrated Amplifier
User Guide

Congratulations on your purchase of the 14-tube 35Wpc Reflection Integrated Amplifier. Locate the Reflection Integrated with air circulation in mind. All Raven Audio integrated, stereo, and monoblock amplifiers are auto-biased; you never have to adjust the power tubes for a perfect match.

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: 35Wpc

Frequency response: 20Hz - 20kHz

Speaker terminals: 4 and 8 ohm

Inputs: 1/pr balanced XLR, 4/pr single-ended RCA

Recommended speaker sensitivity: 87dB - 96dB

Dimensions: W 15.5" x D 14" x H 6.5"

Weight: 35lbs

Tube Complement

2 x 12AT7 – Preamp stage

2 x 12AU7 – Current source for 12AT7

2 x 6DJ8/6922 – Cathode follower

2 x 12AT7 – Power amplifier first stage

2 x 12AU7 – Phase inverter/driver for power tubes

4 x 6550 (supplied), KT88, KT90, KT100, KT120

or special order KT-150

IMPORTANT: USING YOUR INTEGRATED AMPLIFIER

- Do not unplug an interconnect while the integrated amp is on
- Do not unplug a speaker cable while the integrated is on
- Do not allow the ends of unconnected speaker cables to touch
- Do not plug into an ungrounded power socket
- 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.