



Equalization -

MAG PHONO
 TAPE HEAD

RIAA.
 NAB.

NOTE: Proper equalization will be obtained from crystal and ceramic phono cartridges when recommended loading network is used at MAG PHONO input.

Tube Complement

2 - 12AT7 tubes.
 8 - 12AX7 tubes.

Power Supply

Four silicon rectifiers and a specially designed power transformer supply B+ requirements and DC voltage to the filaments of all tubes.

Power Requirements

105-125 volts, 50/60 cps AC 45 watts.

AC Receptacles

Two receptacles, one SWITCHED (375 watts maximum) and one NORMAL (375 watts maximum), provide 105-125 volts AC for powering other equipment.

Dimensions

Overall: 15-5/8" wide x 5-5/16" high x 11-7/8" deep. Depth dimension allows for external connection plugs in rear chassis apron.

Net Weight

17 lbs.

Shipping Weight

19 lbs.

INTRODUCTION

Your Heathkit Model AA-11 Stereo Preamplifier is a complete audio control center, with thirteen inputs for monophonic operation and five pairs of inputs for stereophonic operation.

Among the many features of the Preamplifier, is a nine-position pushbutton switch which provides instant selection of the desired STEREO or MONO input. Also located on the front panel are individual BASS, TREBLE, and VOLUME controls. For greater flexibility, the following controls are located under the front control panel; BLEND, VOLUME-LOUDNESS, SCRATCH FILTER, RUMBLE FILTER, MODE, PHASE, and CHANNEL REVERSE. All inputs

except TAPE HEAD have individual level controls to permit adjusting input sensitivity for uniform volume.

The Preamplifier circuitry includes feedback equalization, plus a matrixing network which provides a DERIVED CENTER CHANNEL OUTPUT for three-channel stereo. Ten dual-purpose tubes and four silicon diode rectifiers are used in the Preamplifier. DC filament voltages are used for all tubes for minimum hum.

This decorator-designed Preamplifier incorporates all the virtues of front panel simplicity, combined with high performance standards.

CIRCUIT DESCRIPTION

The AA-11 Stereo Preamplifier consists of two identical but separate preamplifier channels, using one power supply. Since both channels are the same, only the left channel will be discussed. Refer to the Schematic and Block Dia-

grams to follow the circuit and identify circuit components while reading this description.

Assume that the pushbutton switch is in the MAG PHONO position and the MODE switch is