

INSTALLATION:

Before attempting to operate the Monarch Model SA-450, please read the following instructions carefully. Only after all necessary connections are made, should the power (117/220/240 volts — 50/60 Hz only) be applied.

SPEAKER CONNECTIONS:

The amplifier has output terminals for connection to speaker system of 4, 8, or 16 ohm impedance. Wherever possible, it is recommended that identical speakers be used for each channel. In all cases, the speaker leads are connected to the single pair of terminals on each channel output strip as shown in hook-up position.

CAUTION:

1. Never short the speaker terminals and never use the speakers of higher or lower impedance than that specified. (Don't use two 4 ohm speakers connected in parallel or two 16 ohm speakers in series).
2. Both speakers must be connected to prevent severe damage to the unit.

STEREO HEADPHONE:

Stereo headphone jack is located at the lower end of the left edge of front panel. Plug in a low impedance stereo headphone, it automatically cuts off speaker system.

INPUT CONNECTIONS:

"MAG" Input:

Connect both leads from your record player to the LEFT and RIGHT "MAG" input jacks on the rear panel.

Note:

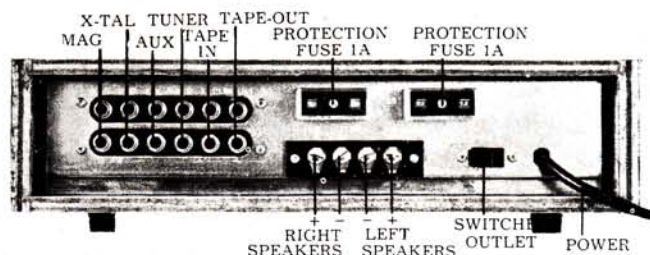
This input terminal should be used only for magnetic or variable reluctance cartridge. Shielded cable should be used for these connections.

"X-TAL" Input:

Connect the output from a high impedance cartridge such as the crystal or ceramic type pickup.

"TUNER," and "AUX" Inputs:

These jacks are to be used with a high level signal or high impedance such as a tape recorder, tuner, and T.V.



HOOK-UP POSITIONS

"TAPE IN"

Connect these jacks to output terminal (high level) of taperecorder with shielded cables.

OUTPUT CONNECTIONS:

"TAPE OUT"

Using shielded cable, connecting the output from these two jacks to the tuner input jacks of your taperecorder will allow simultaneous recording without interference for your listening pleasure.

IMPORTANT:

Do not apply power to this unit without making certain both speakers are connected. Failure to do so may result in severe damage to the unit. If soundless, while pilot light is on, please replace PROTECTION FUSE located on rear panel. Use quick-blow (instrument) fuse 1 AMP. only.

Never connect or remove the speaker or any input plug when the power switch is placed in "ON" position.

OPERATION:

Before applying power to the amplifier, make sure that you have connected your program sources (record player, tuner, etc.) and speakers correctly. Before plugging in the unit be sure to keep the Power Switch, "OFF", and the power source must correspond to the voltage indicated on the name plate.

Power Output	:	26 watts \pm 1 db at 4 ohms
Continuous Power Output	:	8/8 watts rms at 8 ohms
Harmonic Distortion	:	1% (rated output)
Frequency Response	:	30 — 30,000 Hz \pm 1.5 db
Input Sensitivity	:	Phono 3 mV
		X-Tal 150 mV
		Tuner 150 mV
		Aux 150 mV
Hum & Noise	:	Phono 60 db
		Tuner 70 db
		Aux 70 db
		Tape-Ply 70 db