

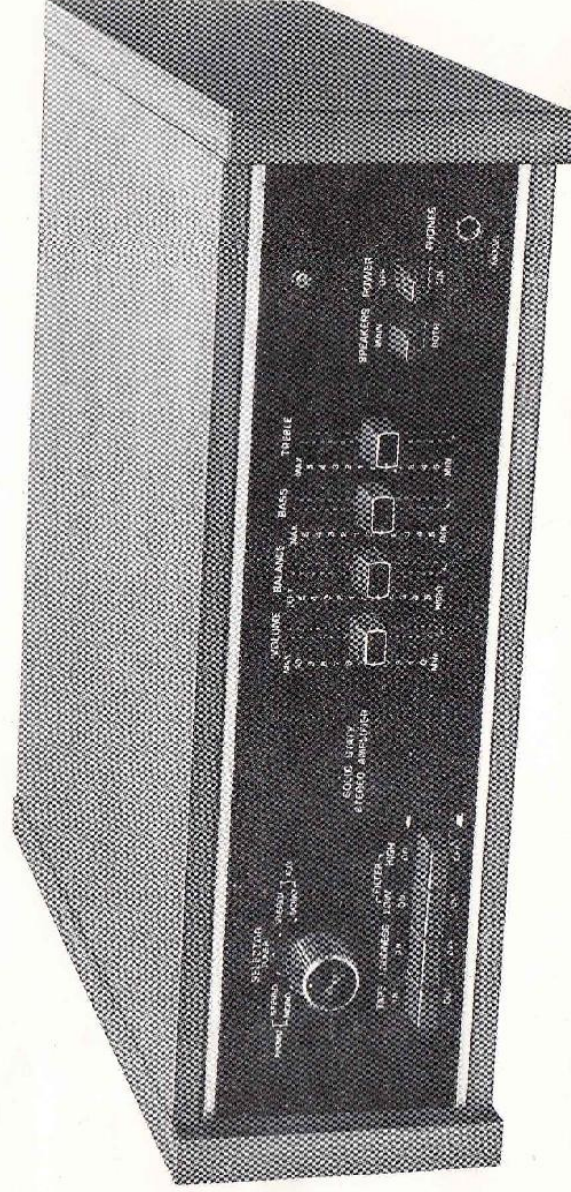
MONARCH

SA-600

SOLID STATE INTEGRATED
STEREO AMPLIFIER



INSTALLATION AND OPERATING MANUAL



The MONARCH Model SA-600 is a deluxe integrated solid state stereo amplifier. It is a simple to operate compact and flexible unit. An advanced circuit with all silicon transistors and provided with Phono, Tuner, Auxiliary and Tape-in inputs. Outputs for main and remote speakers, and Tape-out. Only selected high quality components have been used for stable and troublefree operation.

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INSTALLATION:

Before attempting to operate the Monarch SA-600, please read the following instructions carefully. Only after all necessary connections are made, should the power (220/240 v₀'s — 50/60 cycles only) be applied.

CONNECTIONS TO A STEREO SPEAKER SYSTEM:

For maximum sound quality, it is recommended that matched speakers be used. If desired, you can use two pairs of stereo speakers, one set for your main listening room and another set in any other room.

The "REMOTE" switch on the front panel permits you to disconnect the remote speakers at any time.

RIGHT SPEAKERS:

Speaker (-) or ground side lead and (+) side lead should be connected to the respective GND and (+) terminals located on the rear panel.

LEFT SPEAKERS:

Same as right speakers.

REMOTE SPEAKERS:

Same as main speakers.

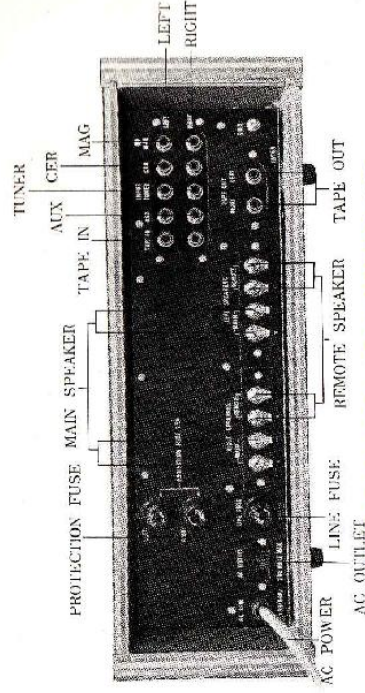
Note:

One Pair of speakers must be connected to prevent severe damage to the unit.

STEREO HEADPHONES:

Simply plug the headphones into the front panel jack provided. This will automatically disconnect the speakers.

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|-------------------------|---|
| Power Output | : 65 watts \pm 1 db at 4 ohms |
| Continuous Power Output | : 22/22 watts rms at 4 ohms 17/17 watts rms at 8 ohms |
| Frequency Response | : 20 — 60,000 Hz \pm 1 db |
| Power Bandwidth | : 20 — 50,000 Hz (IHF) |
| Harmonic Distortion | : Less than 0.8% (at rated output) |
| Input Sensitivity | : Phono 2.5 mV Cer 40 mV Tuner 150 mV Aux 150 mV Tape-in 150 mV |
| Hum & Noise | : Phono 60 db Aux 70 db |



HOOK-UP POSITIONS

INPUT CONNECTIONS:

"MAG" Input:

Magnetic pick-up is connected to this terminal.

"CER" 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 of high impedance such as a tape recorder, tuner.

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 the pilot light fails to light when the power switch is in "ON" position, remove and check the fuse marked 0.7A at the rear of the unit.

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 that the power source used is 220 volts, 50/60 cycles AC, and that the POWER SWITCH is "off".

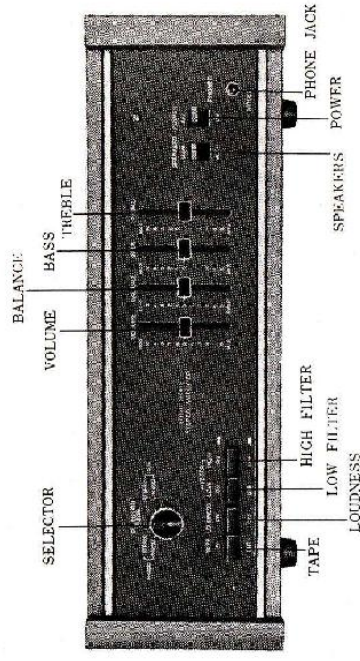
1. Set the SELECTOR to the unit you wish to use and set VOLUME control to the center. Normally the BASS and TREBLE tone control knobs are placed at the center, but depending on the acoustics at the room or personal preference, these knobs may be turned to accentuate or decrease the highs and lows: Also when listening at low volume levels, it is advisable to turn the LOUDNESS switch in "ON" position to accentuate the lows which are otherwise ordinarily lost. When listening to worn scratchy records, turning on the HIGH filter switch will add to your listening pleasure. Normally LOW filter switch should be placed in the "off" position to permit the full reproduction of the low frequencies. It can be utilized at "ON" position to eliminate any annoying low frequency rumble that may originate from associated components.

2. Set power switch in "ON" position to switch on amplifier. Operate your associated equipment (record player, tuner, etc.) and increase amplifier volume controls for desired level of sound.

If you are using a program source with a monophonic output (one cable), set the selector switch "MONO". If your program source is stereophonic, set the SELECTOR switch to "Stereo" position.

TAPE RECORDING AND MONITORING:

Connect an audio cable from the left channel "TAPE-OUT" jack to the left input (high level) of the tape-recorder. Repeat for the right channel. Also left channel "TAPE-IN" to the left



CONTROL POSITIONS

channel output (high level) of the tape-recorder. Repeat for the right channel. To listen to the play-back of recorded tape, place the "TAPE MONITOR" switch to "IN" position. In this position it automatically bypass the "FUNCTION" switch and permits you to listen to tape only. When you are finished with the tape, immediately return the switch to the "OUT" position. Otherwise you will be unable to hear any other program material. If your taperecorder incorporates a separate play-back head with pre-amplifier, it is possible to listen to the recording a fraction of a second after it is made as a quality check. Let us assume that a recording is being made off-the-air. The "FUNCTION" switch will be in the FM position, the system will be playing the actual broadcast. With the switch moved to "IN", the system will now be playing the tape recording of the broadcast just after it has been recorded. By moving the switch back and forth it is possible to hear whether the recording is equivalent to the actual broadcast.*

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|--------------------|---|
| Inputs | : Phono (Mag), Phono (Cer), Tuner, Aux, and Tape-in |
| Outputs | : 2 Speaker Outputs (Main Remote), and Tape Output |
| Switches | : Selector, Tape-Monitor, Loudness, Low-Filter, Hi-Filter, Speakers, and Power. |
| Controls | : Volume, Balance, Bass, and Treble |
| Power Source | : 117/220/240 Volts 50/60 Hz |
| Power Consumption | : 80 watts Max |
| Dimensions | : 10 3/4" × 4 1/4" × 13 1/2" |
| Weight | : 13 lbs. |
| Transistor & Diode | : 18-Silicon Transistors 4-Silicon Diodes 4-Silicon Varistor Diodes |