

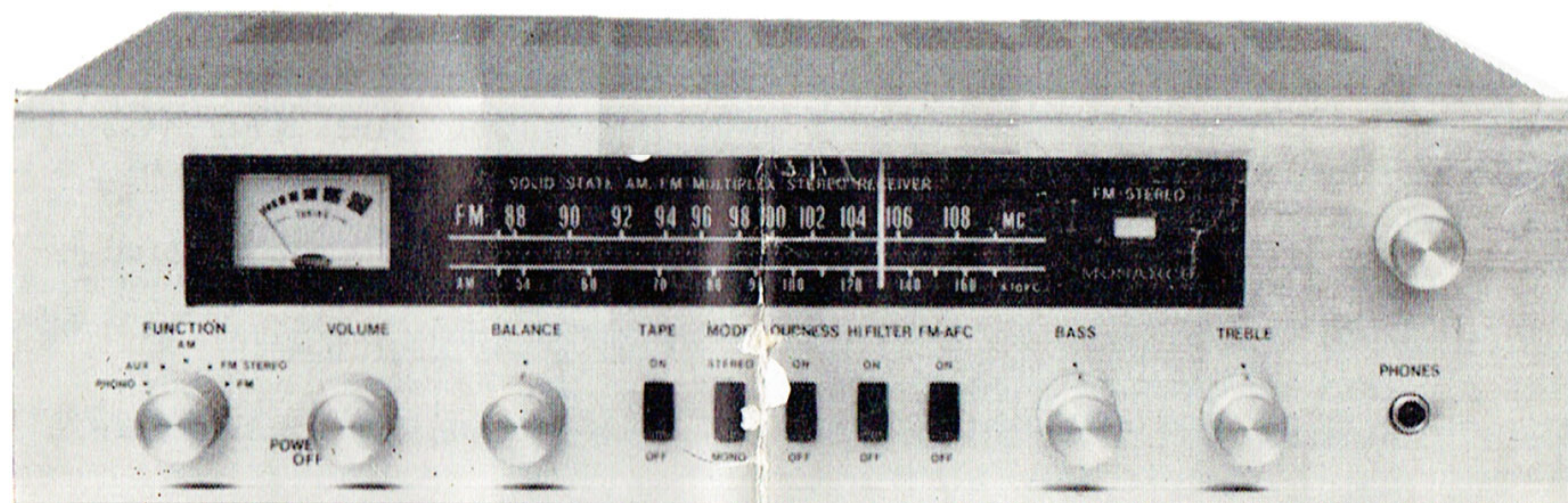
MONARCH

SAT-260X

**SOLID STATE COMPLETE
FM-AM STEREO-MULTIPLEX
TUNER-AMPLIFIER**



INSTALLATION AND OPERATING MANUAL

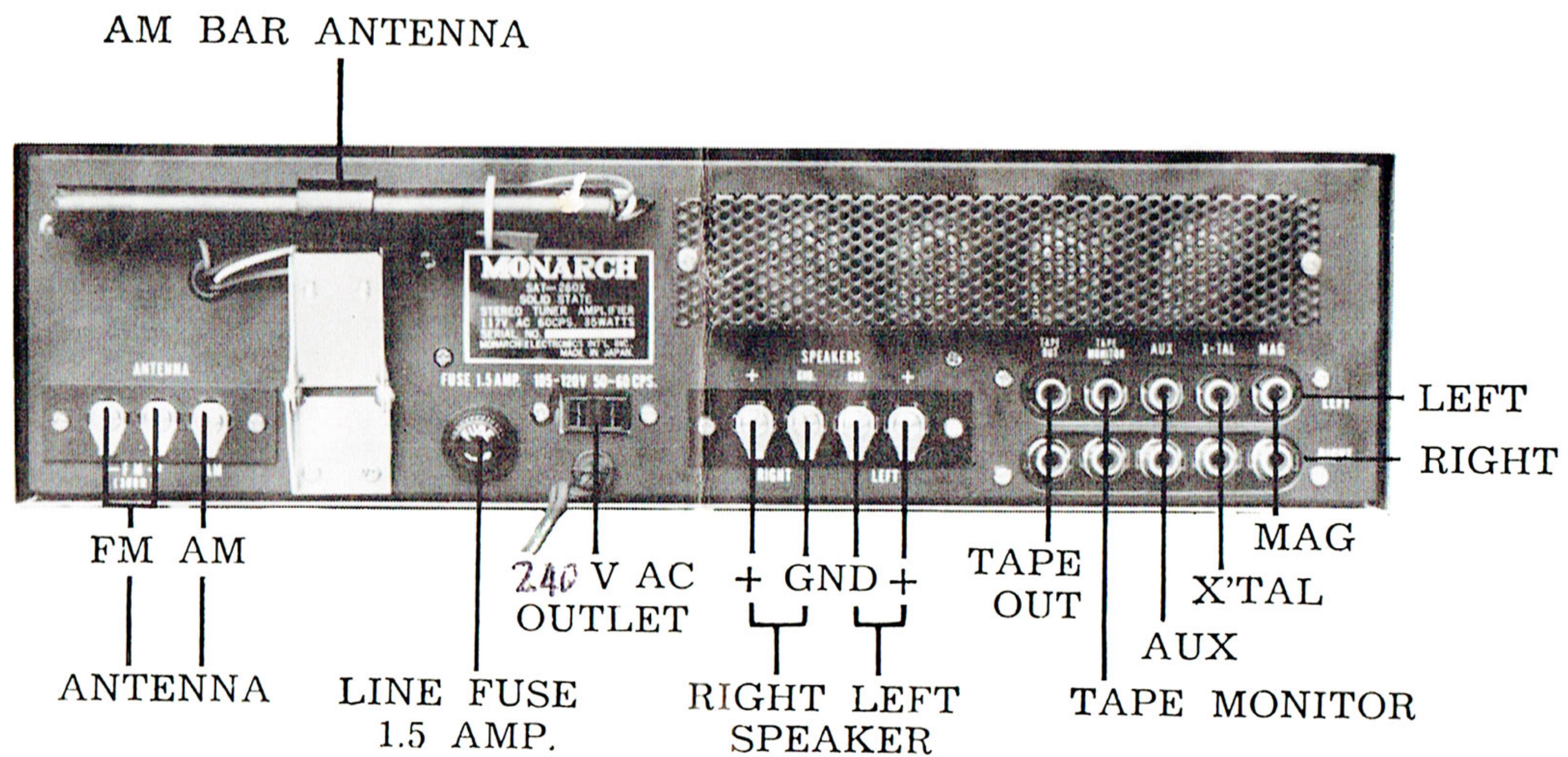


FEATURES :

ALL NEW SOLID STATE STEREO — GERMANIUM POWERED AUDIO — PROFESSIONAL TUNING METER — FM STEREO INDICATOR LIGHT — FM AFC — LOUDNESS CONTROL — NOISE FILTER — TAPE MONITOR — HEADPHONE JACK — REMOTE SPEAKER SWITCH — SPECIAL COMMUNICATION TYPE KNOBS — HEAVY EXTRUSION FRONT PANEL, FRAMED WITH SHINY GOLD FOR DELUX CONSOLE INSTALLATION.

MONARCH ELECTRONICS INTERNATIONAL, INC.

NORTH HOLLYWOOD CALIFORNIA



HOOK-UP POSITIONS

INSTALLATION:

Before attempting to operate the Monarch Model SAT-260X, please read the following instructions carefully. Only after all necessary connections are made, should the power (105/240 volts — 50/60 cycles only) be applied.

IMPORTANT:

Do not apply power to this unit without making sure both speakers are connected. Failure to do so may result in damage to the unit.

ANTENNA:

FM ANTENNA:

Because of the excellent sensitivity of the SAT-260X an ordinary piece of wire 48 inches in length will act as a suitable FM antenna in most locations. In difficult reception areas however, it is recommended that an outside antenna be used. When using the outside antenna, connect antenna wires to "FM" terminal located on the rear panel.

AM ANTENNA:

In fringe and high noise areas, a regular antenna lead should be connected to the AM antenna terminal to improve AM reception.

CONNECTIONS TO A STEREO SPEAKER SYSTEM:

For maximum sound quality, it is recommend-

ed that matched speakers be used.

RIGHT SPEAKER:

Connect one lead (Ground side) to "GND" and remaining lead to "+" terminals located on rear panel respectively.

LEFT SPEAKERS:

Same as right speakers.

Note: Both speakers must be connected to prevent severe damage to the unit. Be sure there are no stray strands which may cause shorts across an adjacent terminal or the chassis, or the protection fuse will fail. We recommend ordinary lamp wire (No. 18 wire) if the length are under 50 feet, if longer than 50 feet use No. 16 wire to prevent excessive losses of power. Since phasing is important in stereo speaker system, use a color coded wire, one with a marker yarn, raised bead or some other means of distinguishing one wire of the pair from the other. Most speakers have one or all of the terminals coded or numbered. Make sure that the speakers are properly phased when connecting them by attaching corresponding terminals on the amplifier.

INPUT CONNECTIONS:

"MAG"

Connect both leads from your record player

to the LEFT and RIGHT MAG input receptacles 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”

When using crystal cartridge, connect both leads to crystal input.

“AUX”

These jacks are to be used with a high level signal of high impedance such as T.V. set.

“TAPE”

Connect these jacks to out-put 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.

OPERATION:

After all connections have been made, as covered in the preceding instructions, the unit may be placed in the “ON” position by turning the “VOLUME” control switch located on front panel in clockwise direction. The dial light when lit indicates power has been applied.

Note:

If the dial light fails to light when the unit is placed in the on position, remove and check the LINE-FUSE (1.5 AMP. SLO-BLO), located on rear panel. When soundless, while pilot light is on, please have service technician replace protection fuse inside chassis.

LISTENING TO PHONO RECORDS:

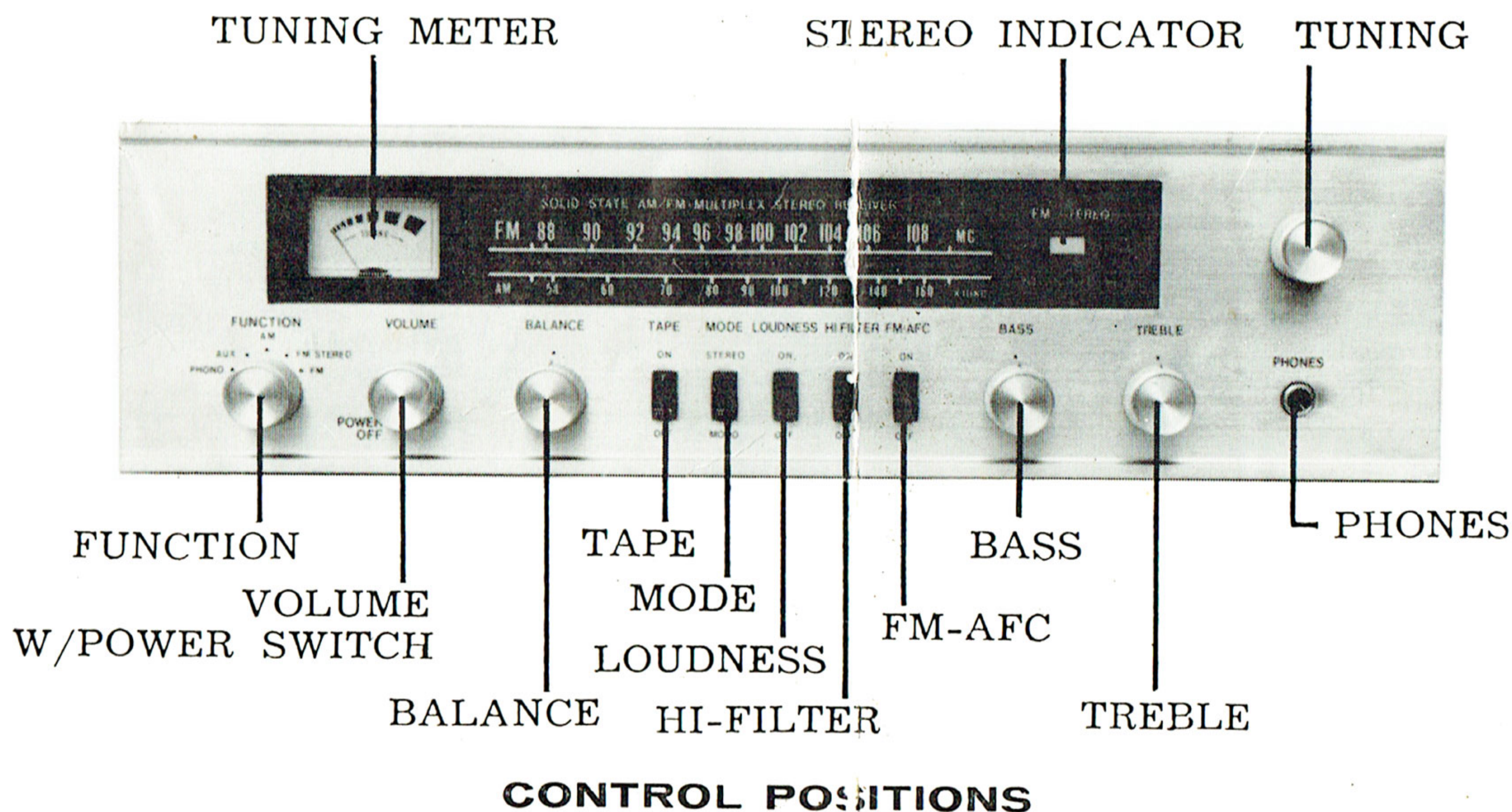
Place the “FUNCTION” switch to PHONO position, and “MODE” switch to STEREO or MONO position depending upon the type records being played. “BASS” and “TREBLE” control setting would depend upon personal preference. Adjust the “BALANCE” control to obtain proper balance of both speakers. Adjust “VOLUME” control to get proper volume. “HI FILTER” is a filter to cut off high frequency noise at play back of a scratched record, broadcasting reception or hiss of the taperecording.

AM RECEPTION:

Place the “FUNCTION” switch to the “AM” position and adjust the tuning knob to the desired station. The “MODE” switch may be in any position. Because of the design of this unit, it is not necessary to change the setting of the mode switch.

FM RECEPTION:

Place the “FUNCTION” switch to “FM” and the “FM/AFC” switch in the off position once the desired station has been obtained by using the tuning knob, and place the “FM/AFC” switch in the “ON” position. This will prevent any possibility of station drift.



FM STEREO RECEPTION (MULTIPLEX STEREO):

Place the "FUNCTION" switch to "FM-STEREO" and select the FM station as described on FM RECEPTION, and when stereo indicator light is brightened, this station is transmitting in stereo.

Note: When tuning, the meter swings to the right. The farther right you can get it to swing, the better you are tuned in to the station you have selected.

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" to the left 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" switch to "ON" 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 "OFF"

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 "ON" 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.*

STEREO HEADPHONE:

Stereo headphone jack is located at the lower end of the right edge of front panel. Plug in a low impedance stereo headphone, (MONARCH Model ES-300) it automatically cuts off speaker system.

* Only for recorders with separate record and play-back heads with pre-amplifier.

SPECIFICATIONS

TRANSISTORS:

7 silicon transistors, 17 germanium transistors, 5 silicon diodes, 12 germanium diodes, 1 zener diode, 1 variable capacitor diode.

TUNER SECTION:

Frequency range:

FM: 88 — 108 MHz
AM: 535 — 1605 KHz

Sensitivity:

FM: 3.5 microvolts for 20 db quieting
AM: 10 microvolts for 20 db quieting

FM FREQUENCY RESPONSE:

20 — 15,000 Hz ± 0.5 db

FM STEREO SEPARATION:

More than 30 db at 1,000 Hz

SCA REJECTION:

More than 45 db

FM HARMONIC DISTORTION:

Less than 1%

AUDIO SECTION:

INPUT: MAG 3 mv
X-TAL 50 mv
AUX 200 mv
TAPE 200 mv

For maximum output

OUTPUT POWER:

50 watts total music power

FREQUENCY RESPONSE:

20 — 25,000 Hz ± 0.5 db

TONE CONTROL:

BASS +11 db ~ -11 db at 50 Hz

TREBLE +11 db ~ -11 db at 10,000 Hz

HI FILTER:

-10 db at 10,000 Hz

LOUDNESS CONTROL:

+10 db at 50 Hz
(loudness control at -30 db)

HUM & NOISE:

Phono -55 db AUX -70 db

RESIDUAL NOISE:

7 mv at minimum volume control

CONTROL:

Tuning, volume, balance, bass, treble

SWITCHES:

Input selector, tape Hi filter, FM-AFC

POWER CONSUMPTION:

105 — ~~240~~ volt 50 — 60 Hz AC
45 watts maximum

DIMENSION:

14½" W. × 3⅞" H. × 11" D.

WEIGHT:

13 lbs.