



MODEL SR5100

SARGENT-RAYMENT CO. OAKLAND 1, CALIF.

OPERATING INSTRUCTIONS

INTRODUCTION

Like all Sargent-Rayment Professional equipment, this amplifier offers you clear-cut superiority in design, construction, endurance, and most important, performance.

This unit represents the full accomplishment of a challenging objective -- the combining of two high quality, high power and full fidelity amplifiers on one chassis to meet the needs of the most critical stereophile, while satisfying the consideration of extreme economy.

GUARANTEE

This unit is unconditionally *guaranteed for 15 months. It has been carefully inspected and expertly tested prior to leaving the factory. The inspection tag on the amplifier is your guarantee that it was individually examined and found perfect.

Immediately after unpacking, inspect the unit for damage in transit. It is suggested that you retain the shipping carton, which was designed for this unit, in the event return shipment to the factory should prove necessary.

If repair should be required either during warranty or following it, the manufacturer recommends that this amplifier be returned to the factory. The SR laboratory is best equipped to bring our equipment up to top operating condition.

TECHNICAL INFORMATION

See catalog sheet accompanying these instructions.

BALANCING PROCEDURE

The Sr-5100, like all Sargent-Rayment equipment, is "burned in" for eight hours before final aligning adjustments are made. The final adjustments made before distortion measurements is that of balancing the E134 output tubes. It is recommended to the user that if these tubes are changed they should be rebalanced. Balancing procedure is as follows ---

1. Insert into the red tipped meter jacks both the ground and meter probe of a V.T.V.M. Set the voltage scale as low as possible. Preferably as low as one volt if this can be done on your meter.
2. The "balance adjust" control should now be adjusted to read "0" volts on your V.T.V.M. Remove the meter, and repeat the same procedure on the other stage.

Periodiacally (every six months) the output tubes should be checked in this manner to insure against possible unbalance and resulting distortion.

* In accordance with enclosed "Stereo Reproducer Guarantee".

100 WATT OPERATION

When desiring to operate the SR-5100 in 100 watt monaural operation, the following procedure should be used. Throw the switch on top of the chassis marked "100 Watts Mono, 50-50 Watts Stereo" into the 100 Watt position. With a jumper wire, connect terminals No. 16 of the left-hand channel to terminal marked "16" on the right-hand channel. Connect your speaker to either of the two grounds and either of the two 16 ohm terminal posts.

IMPORTANT OPERATION INFORMATION ! !

If your amplifier is to be operated in conjunction with other Sargent Rayment equipment (tuners or preamplifiers) which derive their operating power from it, remove the 4 amp 3AG fuse from the fuse post on the amplifier and install it in the fuse post on the tuner (or preamp.) Leave the amplifier fuse post empty, as the amplifier is now fused through the other unit.

If the amplifier is to be operated independently (i.e., no other equipment deriving its power from the "tuner power" plug) be sure there is a 4 amp 3AG fuse in the fuse post on the chassis.

4A 3AG FUSE

This fuse is a safety valve for the amplifier. If it should burn out, replace with a new one as marked above. If fuse continues to burn out, return unit to factory for service.

OUTPUT TERMINALS

4, 8 and 16 ohms. The terminals to be used will be established by the type of speaker used. All speaker manufacturers indicate the output impedance desired for their speaker. If it is a 16 ohm speaker the two leads from the speaker are to be connected to "0" (GND) and "16". Naturally, if there is a crossover network involved, follow the instructions on the network. If a third speaker is desired to derive a seemingly 3 channel stereo from your two channel source, the "general hook up" skematic can be used to achieve the "Klipsch - Eargle circuit" for this purpose.

LEVEL CONTROL

The gain controls on the amplifiers should be set so that maximum room volume is obtained when volume control on tuner or preamp is at half way point.

If dissimilar speakers are used with different efficiencies, use your Level control to balance sound, leaving your preamp balance control set at "EQ".

CAUTION

Provide adequate ventilation!
between unit and closest wall.

Provide at least three inches clearance