



## FRONT PANEL

## 1. POWER

The amplifier includes a precision instrument-grade relay. By depressing the power button, the set is turned on. However, the relay provides a momentary delay before sound is produced, preventing the load thump often produced by high power amplifiers. The relay will open if some problem develops, such as a short-circuit in the speaker wires. Turn off the amplifier, clear the problem, and then turn it on again. The relay may open up if the unit is being driven at too high a level for long periods of time thus endangering the loudspeakers. Turn the unit off, wait a few seconds and then turn it on again. The protection indicator lights up immediately when the relay has gone on. (see item 5).

## 2. PHONES

A jack for stereo headphones.

## 3. SPEAKERS

Loudspeaker selector switch. "OFF" turns off all speakers, output signal available at headphone jacks. "MAIN" turns on speakers connected to Main Speaker Terminal on rear of unit. "REMOTE" turns on speakers connected to Remote Speaker Terminal on rear of unit. "M+R" turns on speakers connected both to Main and Remote.

Note: If either of the two pairs of speaker systems has an impedance below four ohms it is best not to use the 'M+R' position.

## 4. POWER METERS

These two meters, one for the left channel and one for the right channel, indicate the power output of each channel. The meters are calibrated in watts for 8 $\Omega$  speaker systems. If you are using 16 $\Omega$  speaker the actual power will be -3dB the amount indicated (one-half the power) while if you use 4 $\Omega$  speakers the power will actually be +3dB the amount shown (twice the power). The meters of Model 3080 are operated in conjunction with the meter switch (item 7).

## 5. PROTECTION

The light will illuminate if the relay has opened for any reason. This is a warning that you are either operating the equipment at too high a level or that a fault has developed (such as a short circuit in the wires connecting the amplifier with the speakers). Turn off the amplifier for a few seconds until the LED entirely darkened and then turn it on again. If the light is still on, there is a fault somewhere that needs to be corrected. If the light goes off, then you have simply been operating the equipment at too high a level.

## 6. TONE CONTROLS

The tone controls are not functional unless the TONE switch is moved from Out to In.

## BASS

Rotating clockwise increases the level of very deep, low frequency sounds. Rotating counterclockwise reduces these sounds. The TURNOVER switch varies the range covered by the BASS control. If the switch is at 250 Hz, the BASS control will only alter sounds below that frequency. If the switch is at 500 Hz, it will alter sounds below 500 Hz. If you have a good, smooth speaker system, the 250 Hz position is normally preferable.

## TREBLE

Rotating clockwise increase the level of very high tones. Rotating counterclockwise reduces these tones. The TURNOVER switch varies the range covered by the treble control. If the switch is at 5 KHz, it will only alter sounds above that frequency. If it is at 2.5KHz, then it will affect sounds above 2.5KHz. With a well engineered speaker system, the 5KHz position is preferable.

## 7. METER\*

When the amplifier is being operated at low sound levels, depress the METER button. The full scale reading on the meter will then correspond to 14 watts (with 8 $\Omega$  speakers, see item 4 above). If you are playing at high level, leave the meter button out so the meter will then indicate up to 140 watts full scale.

## 8. HI-FILTER

Suppresses tape hiss, record surface noise, and interference whistle on AM. Most useful for listening to old records. Not recommended for normal, quality programs.

## 9. INFRASONIC

Eliminates all the unwanted sounds below the audible range which can adversely affect the performance of y

# Dynamic Rms Manual

**Samuel Shelburne Robison**



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