

TEST PROCEDURE, WORKINGMAN'S 12/15

1. Visually check unit for:
 - A. Correct polarity position of all electrolytic capacitors.
 - B. All I.C.'s are firmly in their sockets.
 - C. All wires are soldered to their respective locations.
 - D. Correct lead dress of ground wires.
 - E. Any cut leads, wires fragments or other foreign objects that should not be in unit (shake out before testing).
 - F. Speaker hot leads are taped to prevent shorting.
 - G. Speaker leads are wired correctly.
 - H. Headphone jack is wired correctly.
- * Check for loose connections during all phases of testing.
2. Set output of generator for 120 millivolts at 1KHz.
- ③ Set bias of power amplifier at 2 ohms. Run input signal through the effects return jack thereby checking effects blend. There should be no signal with effects blend in the dry position.
4. Change generator to 100Hz. Change load to 8 ohms. Maintain 120 millivolt level. Plug input into Passive input jack. Check gain of unit with enhancer off, tone controls set flat, gain and master volume full. Output power should be 100 watts RMS (28V RMS + or - 1dB). Check for operation of green limiter LED (should be lit).
5. Lower master volume to mid position. Raise bass control until preamp clips. Check preamp clip red LED for proper operation.
6. Reduce generator output by -20dB. Reduce gain control for total output of 1V RMS (use 10V scale on output meter).
 - A. check enhancer circuit at 40Hz and 180 Hz.
 - B. check bass control for cut and boost of 15dB @ 100Hz.
 - C. check mid range control for 20dB cut and boost @ 800Hz.
 - D. check treble control for 15dB cut and boost at 4KHz.
7. Check effects loop using patch cord and blend control.
8. Check tuner send and XLR out.
9. Remove input signal and check noise readings across speaker jack with tone controls flat, enhancer off.
 - A. Gain and master volume full: less than 15 millivolts (12 millivolts typical).
 - B. Gain and master volume off (full counter-clockwise): less than 1 millivolt (0.6 millivolts typical).

③ . Effects blend to wet position.
 . Raise Master volume level so that 2 volts RMS appears at the speaker output.

- . Monitor signal on scope with the following settings:
- Load 2 ohms
 - Scope: Sweep Time: 50 μ s Volts/Div: 0.2v.
 - Signal Generator: Freq. 1KHz

. The signal should have a prominent crossover notch at about
 . Adjust bias trimpot of Amp, just past the point the crossover notch disappears. ^{Or:}