I. Set up setting bias

A. Speaker cable from SVT2PRO to 2 ohm load box
B. Speaker cable from 2 ohm load box to oscilloscope
C. Set oscilloscope to 5 volts/div.
D. Select “2 ohm” on the SVT2PRO Impedance Selector switch (rear of unit)
E. Oscilloscope set to 5 volts / div
F. Speaker cable from Oscilloscope to multimeter
G. Multimeter set to AC volts (200 V range)
H. All SVT2PRO switches should be in the “out” position

II. Set bias

A. Turn on the Power switch
    1. The Power/Standby/Fault led should illuminates red.
B. Let the SVT2PRO warm up
C. Turn on the Standby switch
    1. The Power/Standby/Fault led should glow solid green.
D. Set Bias 1 and Bias 2 (rear of unit) so that the green led is illuminating and the red led is not.

III. Set up power amp test

A. Audio generator set to 1 kHz, -20dB output and sine wave
B. Signal cable from audio generator to the In jack of the SVT2PRO
C. All SVT2PRO switches should be in the “out” position

IV. Power amp test

- Always put unit in standby mode before removing signal, load or switching impedence.

A. Check for symmetric wave form
B. Check output level
    1. 24.5 Vac @ 2 ohms
C. Select “4 ohm” on the Impedance Selector switch of the SVT2PRO
D. Check output level
    1. 34.6 Vac @ 4 ohms
E. Make sure the fan is drawing air into the SVT2PRO
F. Check other speaker jack
G. Move signal cable from power amp input jack to effects return jack
H. Check the Master pot and the wave form.
I. Check the speakon jack
    1. Cable needs to be wired 1+ = positive and 2+ = negative
J. Check all 3 positions of polarity switch

III. Set up for preamp test

A. Audio generator set to suggested frequency, attenuation @ – 50 dB and sine wave selected
B. Signal cable from generator to unit input jack
C. 2 function footswitch attached to unit footswitch jack (rear of unit)
D. Pot settings
    1. Gain, Master and Tube Gain full
    2. Bass, Midrange and Treble @ ½
    3. Drive @ 0
E. All switches in out position
F. EQ and mute turned off with the footswitch

IV. Preamp test

* Pots / sliders and switches should have a smooth feel while turning / pushing. There should be a smooth change on the oscilloscope appropriate to the pot's function.

A. Check that peak LED is illuminating
B. Check Gain pot (60 dB @ 1 kHz)
    1. Peak led should turn off between 6 & 9
C. Check – 15dB Pad switch
E. Check Ultra low switch (+ 3dB @40 Hz)
F. Check Bright switch (+ 7 dB @ 2 kHz)
G. Check Drive pot
H. Check Bass pot (+/-12dB @ 40 Hz)
I. Check Midrange pot and Frequency switch
    1. #1 = 30 dB @ 220 Hz
    2. #2 = 30 dB @ 450 Hz
    3. #1 = 30 dB @ 800 Hz
    4. #1 = 30 dB @ 1.6 kHz
    5. #1 = 30 dB @ 3 kHz
J. Check Treble pot (+/- 12 dB @ 4 kHz)
K. Check graphic EQ by switching on with the footswitch. The Active EQ led should come on at this time.
    1. 40 Hz (+/- 12 dB)
    2. 90 Hz (+/- 12 dB)
    3. 180 Hz (+/- 12 dB)
    4. 300 Hz (+/- 12 dB)
    5. 500 Hz (+/- 12 dB)
    6. 900 Hz (+/- 12 dB)
    7. 1 kHz (+/- 12 dB)
    8. 2 kHz (+/- 12 dB)
    9. 4 kHz (+/- 12 dB)
    10. Level (+ 8 dB / - 10 dB @ 1kHz)

L. EQ Level and 1 kHz sliders at 10, switch the audio generator to 0 dB
    1. The EQ Active / Peak led should illuminate red
M. With the Level slider full, check the EQ footswitch and Mute footswitch effect on the signal (mute footswitch should also light the peak/mute LED).
N. Pull the footswitch out of the unit and check the Mute, and EQ switches

V. Line out jack set up
A. Unit remains loaded @ 4 ohms
B. Disconnect the load box from the scope
C. Set scope to 50 volts/div.
D. Audio generator is set to 1 kHz
E. Signal cable remains in Input jack

VI. Line out jacks test (rear of unit)
* Pots / sliders and switches should have a smooth feel while turning / pushing. There should be a smooth change on the oscilloscope appropriate to the pot's function.
A. Check tuner out jack
B. Check Effects Loop Send jack
C. Check Slave out jack
D. Check Pre Amp out jack
E. Check Balanced out jack, pot and Post/Pre switch

VII. Noise Test
A. Conditions:
1. 4 ohm load
2. bias set

B. Test:
1. Shorting plug in power amp input. < 8 mv
2. Master @ 10, tones @ 5, gain & drive @ 0. < 16.5 mv
3. Shorting plug in input, EQ out, master & gain @ 10, tones @ 5, drive @ < 44mv