

SVT 3PRO
POWER AMP ASSY (07-426-01)
SPECIFICATIONS
SHEET 1 OF 2
29 MARCH 1993

CONDITIONS:

J9 PIN 11 OPEN UNLESS OTHERWISE STATED (SIMULATES PLATE VOLTAGE CONTROL SET AT MAXIMUM). LOAD $\pm 16V$ SUPPLIES WITH 150Ω 5W RESISTORS TO SIMULATE THE PREAMP LOADING.

BIAS ADJUSTMENT:

APPLY A $10mV_{rms}$ SIGNAL TO THE POWER AMP WITH A 4Ω LOAD. OBSERVE THE OUTPUT WAVEFORM ON THE SCOPE (OUTPUT WILL BE SLIGHTLY MORE THAN $1.0V_{p-p}$ WHEN BIASED PROPERLY). ADJUST THE BIAS (AP1) TO ELIMINATE THE CROSSOVER NOTCH IN THE OUTPUT WAVEFORM. DO NOT SET THE BIAS ANY HIGHER THAN NECESSARY TO ELIMINATE THE NOTCH TO AVOID EXCESSIVE POWER DISSIPATION AND THERMAL RUNAWAY IN THE POWER MOSFETS.

OUTPUT POWER: ($120V_{ac}$, 1KHz)

8Ω LOAD: 230W @ 5% THD ($43.0V_{rms}$) MINIMUM
275W @ 8% THD ($47.0V_{rms}$) MINIMUM

4Ω LOAD: 420W @ 5% THD ($41.0V_{rms}$) MINIMUM
460W @ 8% THD ($43.0V_{rms}$) MINIMUM

FREQUENCY RESPONSE: (0dB = 400W INTO 4Ω @ 1KHz)

-1dB @ 15Hz AND 30KHz
-3dB @ 5Hz AND 50KHz

NOTE: THE FAN SPEED WILL REDUCE WHEN PRODUCING HIGH POWER OUTPUT AT 10KHz AND ABOVE.

GAIN:

$33dB \pm 2dB$ @ 1KHz

NOISE:

$\leq 2mV$ RMS

SHORT CIRCUIT CURRENT:

$\leq 8A$

LOW LINE TURN-OFF:

RELAY SHOULD TOGGLE AT $68 \pm 5 V_{ac}$.

TURN-ON DELAY:

APPROXIMATELY 25 SECONDS.