Trouble Shooting chart for PP-7B

NO OUTPUT
ALL VOLTAGES

CHECK 100V AC INPUT

Good

CHECK P/S FUSE & R1

Good

REMOVE SCR2 CHECK VOLT. WITHIN LIMITS

Yes

CHECK ZD1, ZD2 & ASSOC. SHUTDOWN CIRCUIT

No

CHECK IC1, IC2 & ASSOC. CIRCUITS

Bad

CHECK TR1, TR3

Good

TR1

CHECK IC3, IC4, D4, D5 D2, D3

Bad

TR3

CHECK D7, D8, D9

NO OUTPUT
+5, +12, +24

CHECK L2, L3 IC3, IC4

NO OUTPUT
-5 VOLTS

CHECK L4, D5

NO OUTPUT
+5 VOLTS

CHECK L5, D8, IC2
100VAC is stepped down and rectified

VCC (12VDC) is applied to IC1; starts switching

IC1 switching drives TR2/T3, which in turn drives TR1/

Secondary of T1 output is rectified by D4 & D5

After filtering, D5 output is -5V

D4 output supplies 3 terminal regulator 7824

7824 output is +24V; also drives 3 terminal regulator 7812

7812 output is +12V; also VCC for IC2

IC2 switching drives TR4/T4; which in turn drives TR3/T2

D9 rectifies T2 output which becomes +5V