

POWER SUPPLY

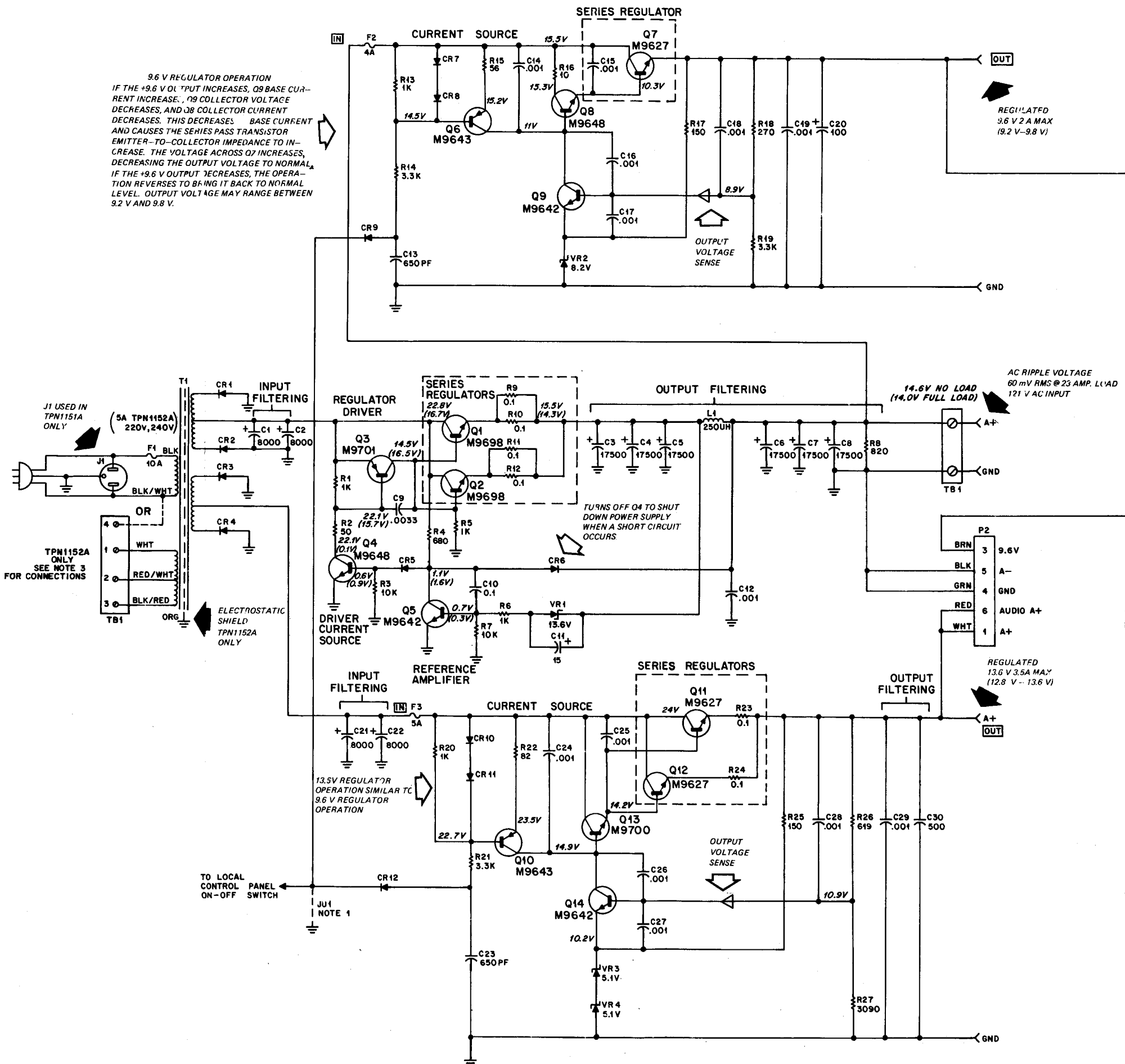
MODELS TPN1151A AND TPN1152A

FUNCTION-

Provides regulated 9.6 V dc and two 13.6 V dc outputs from a 120 V, 60 Hz (TPN1151A), or 120, 220, 240 V, 50/60 Hz (TPN1152A) power input. All outputs are automatically adjusted for changes in load or input voltage.

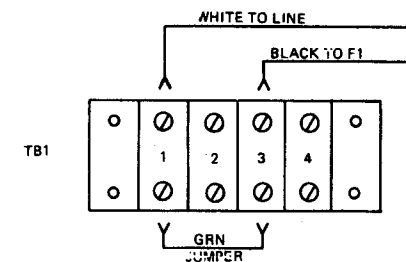
9.6 V REGULATOR OPERATION

IF THE +9.6 V OUTPUT INCREASES, Q9 BASE CURRENT INCREASES, Q9 COLLECTOR VOLTAGE DECREASES, AND Q8 COLLECTOR CURRENT DECREASES. THIS DECREASES BASE CURRENT AND CAUSES THE SERIES PASS TRANSISTOR EMITTER-TO-COLLECTOR IMPEDANCE TO INCREASE. THE VOLTAGE ACROSS Q7 INCREASES, DECREASING THE OUTPUT VOLTAGE TO NORMAL. IF THE +9.6 V OUTPUT DECREASES, THE OPERATION REVERSES TO BRING IT BACK TO NORMAL LEVEL. OUTPUT VOLTAGE MAY RANGE BETWEEN 9.2 V AND 9.8 V.



NOTES:

1. JU-1 IS IN ON REMOTE CONTROL MODELS, OUT ON LOCAL CONTROL MODELS.
2. UNLESS OTHERWISE STATED, CAPACITOR VALUES ARE IN MICROFARADS, RESISTOR VALUES ARE IN OHMS.
3. TPN1151A - 60 Hz 120 V AC SHOWN
TPN1152A - 50/60 Hz 120, 220, 240 V AC (CONNECTIONS AS FOLLOWS).



- CONNECTIONS FOR 120 V AC: GRN JUMPER FROM TB1-1 TO TB1-4
WHITE LEAD TO TB1-4
BLACK LEAD TO TB1-3
- 220 V AC: GREEN JUMPER FROM TB1-3 TO TB1-4
WHITE LEAD TO TB1-2
BLACK LEAD NOT USED, REMOVE
- 240 V AC: GREEN JUMPER FROM TB1-3 TO TB1-4
WHITE TO TB1-1
BLACK NOT USED, REMOVE

PARTS LIST SHOWN
ON BACK OF THIS PAGE
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