START

PA TROUBLESHOOTING CHART

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PA DRAWS NO CURRENT

- CONNECT PORTABLE TEST SET FOR PA METERING, STATION NOT KEYED.

PA DRAWS CURRENT

- SHORT OR LOW RESISTANCE PATH FROM A- TO A+ ISOLATE PATH BY DISCONNECTING INDIVIDUAL COLLECTOR FEED CHOKE UNTIL CURRENT CEASES.

CURRENT CEASES

- LOCATE CURRENT PATH, IF PATH IS THROUGH TRANSISTOR OR TRANSISTOR PAIRS, A DOWN SCALE READING ON METER WILL USUALLY BE OBSERVED AT THE STAGE IN QUESTION.

STILL DRAWS CURRENT

- A- TO A+ PATH PRIOR TO DISCONNECTED COMPONENT FEED, LOCATE & CORRECT.

CONTROL STAGE DEFECTIVE

- CHECK EXCITER BD, & FIRST STAGE INPUT CIRCUITRY INCLUDING METERRING NETWORK

BAD GOOD

CONNECT CONTROL BOARD P906-1, -2 AND -3

STAGE OR PAR

- L505

INPUT" DEFECTIVE 507

505 MATCHED CONTROL BD.

CONTROL CONNECTING

TO ISOLATE DEFECTIVE TRANSISTOR(S)

1. DISCONNECT ONE END OF BIAS RESISTOR OR CHOKE CONNECTED TO BASE OF TRANSISTOR(S) IN QUESTION. FOR EXAMPLE: L506, R506, R508 ETC.

2. DISCONNECT ONE END OR REMOVE COLLECTOR CHOKE OF TRANSISTOR(S) IN QUESTION. FOR EXAMPLE: L511, L512, L508 ETC.

3. DISCONNECT BASE LEAD (TAB) OF TRANSISTOR, ONLY ONE LEAD NEED BE DISCONNECTED FOR PUSH-PULL PAIRS, MAKE SURE LEAD IS COMPLETELY DISCONNECTED FROM PLATING.

4. USING AN OHMMETER, MEASURE THE RESISTANCES OF THE TRANSISTOR. SEE PA REPAIR NOTES PARAGRAPH FOR MEASUREMENT PROCEDURE.

5. THE OTHER TRANSISTOR CAN NOW ALSO BE MEASURED (WITHOUT REMOVING BASE LEAD).

6. REPLACE ANY TRANSISTORS WHICH DO NOT MEASURE CORRECTLY. SEE REMOVAL PROCEDURE.

7. MEASURE BIAS RESISTOR AND BIAS CHOKE, REPLACE IF DEFECTIVE.

8. REPLACE ANY OTHER COMPONENTS, TRANSFORMERS, ETC., WHICH APPEAR OVERHEATED.

9. RECONNECT ALL OTHER COMPONENTS.

10. IF RF POWER IS REGAINED, CHECK CIRCUITRY FOR ANY RAPIDLY OVERHEATING COMPONENTS SUCH AS TRANSFORMERS.

TYPICAL STAGE CHECKOUT

1. MEASURE COLLECTOR VOLTAGE OF EACH STAGE.

2. MAKE VISUAL CHECKS AND RESISTANCE MEASUREMENTS OF COMPONENTS IN STAGE WHERE ABNORMAL INDICATIONS ARE OBSERVED.