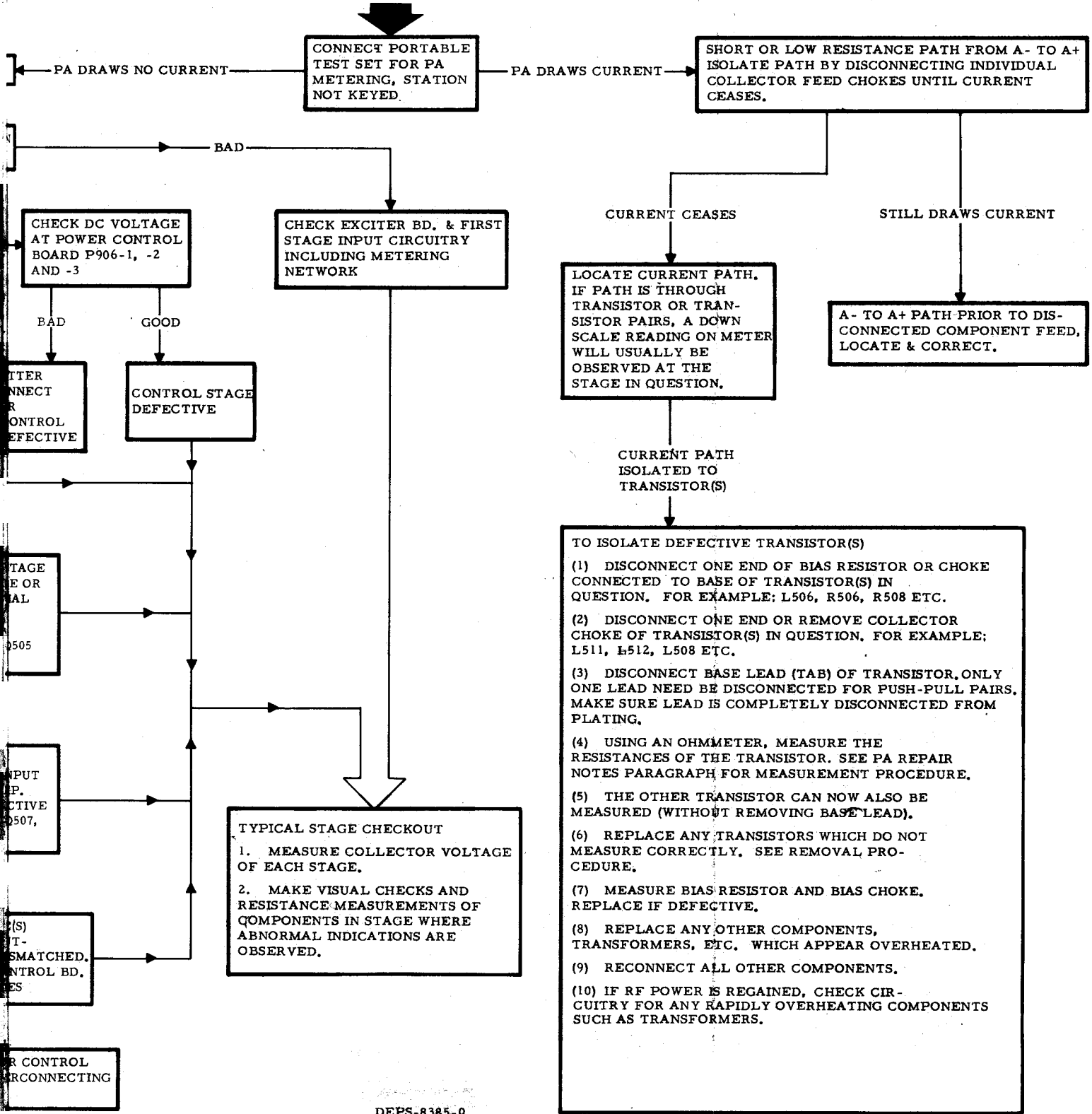


# PA TROUBLESHOOTING CHART

START



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

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

CHECK DC VOLTAGE AT POWER CONTROL BOARD P906-1, -2 AND -3

CHECK EXCITER BD. & FIRST STAGE INPUT CIRCUITRY INCLUDING METERING NETWORK

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.

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

RECONNECT OR CONTROL DEFECTIVE

CONTROL STAGE DEFECTIVE

CURRENT PATH ISOLATED TO TRANSISTOR(S)

- 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.