

TMC SPECIFICATION

NO. S 1302

REV: \emptyset

COMPILED:

B.S.

CHECKED:

B.S.

APPD:

[Signature]

SHEET

OF

TITLE:

TEST PROCEDURE FOR AP151

(Using Test Jig)

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Test Procedure for AP151 Using Test Jig

1. Connect test jig cable to J301 of the AP151.

Set switches marked PTT and OVERLOAD to the OFF position.
Set switch marked AC to the ON position.
The lights #1 thru #7, #9 and #10, #12 thru #15 must be ON.
The lights #8, #11 and #16 thru #19 must be OFF.
2. On the AP151 panel, indicator lights marked INTERLOCKS and HIGH VOLTAGE must be ON.
3. Depress RED BUTTON on test jig and the following functions must be observed:
 - (1) INTERLOCK and HIGH VOLTAGE indicators OFF.
 - (2) The alarm must sound.
 - (3) Light #9 (K2), light #13 (W) must be OFF.
 - (4) Light #8 (bias relay) must be ON.
4. Release RED BUTTON and light #8 (bias relay) must be OFF, and light #9 (K2) must be ON. Indicators on AP151 marked INTERLOCKS and HIGH VOLTAGE must be ON. Reset circuit by pressing BLACK BUTTON, and this should silence the alarm.
5. With the Simpson multimeter set on the 0-250 VDC range, one lead connected to ground and the other lead connected to the terminal on test jig marked PA BIAS, and with PTT switch in the OFF position, a bias off condition should be observed (-225 volts approximately). With the PTT switch in ON position the voltage can be varied by potentiometer in AP151 (marked PA BIAS) from approximately -85 to -150 volts.
6. Move meter lead to 2nd Amp terminal test point on jig and vary potentiometer in AP151 (marked 2nd AMP BIAS) for voltage readings of approximately -1 to -20 volts. (This position has no bias off condition.)
7. Move meter test lead to terminal marked 1st Amp on test jig and with the potentiometer in the AP151 (marked 1st AMP BIAS) adjust and observe voltage variances from approximately -1 to -22 volts. (This position has no bias off condition.)
8. Push toggle of overload switch DOWN to position marked SCREEN on test jig and observe screen overload breaker on AP151. The breaker should trip.
9. Pull toggle of overload switch in UP position marked PLATE on test jig and observe plate overload breaker on AP151. The breaker marked plate should trip.
10. The lights on the test fixture marked Y and T indicate primary voltages applied to the transformers of the AP151.

