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TEST PROCEDURE

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This procedure will be used in conjunction with S-540E, Section 3.

TEST EQUIPMENT REQUIRED

- 1 Oscilloscope, Tektromix type 541A.
- 2 Noise and Field intensity meter, model NF-105.
- 3 Signal generator, HP model 606A.
- 4 6 Volt Battery.

PROCEDURE

- 1 Connect test equipment as per Fig. No. 1, place test
 switch in off position.
- 2 Disconnect red lead from terminal 36 of E-703, plac milliammeter in series with terminal 36 and red lead.
- 3 Turn on transmitter and allow a 15 minute warm-up.
- 4 Place AX-5031 mode switch in Norm. position.
- 5 Tune transmitter at 6 MHZ.
- 6 Using milliammeter adjust 1PA Screen overload to trip out at 50 milliammeters.
- 7 Turn off high voltage and main power.
- 8 Disconnect test milliammeter, and reconnect red lead to terminal 36 of E-703.
- 9 Turn on main power.
- 10 Retune transmitter at 6 MHZ, 5KW output.
- 11 Turn off high voltage and place AX-5031 mode switch to PTT position.
- 12 Turn on high voltage. NOTE the following, PA plate current meter should read zero, 1PA plate current m t r should r ad zer . PA screen volt m ter should

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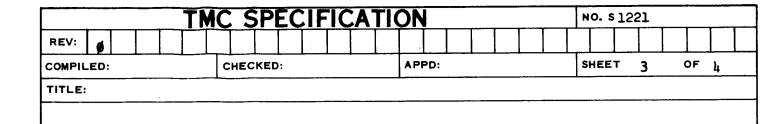
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read approximately 600 volts.

- 13 Place test switch in on position. Note: Scope display should activate within 40 milli secs. also
- 13 transmitter should come up to full power (5KW).
- 14 Place test switch in off position. Note: Scope display should deactivate within 300 milli secs., also transmitter output should drop to zero.
- 15 Using field intensity meter model NF-105 and using procedure outlined in paragraph No. 3 of Contract No. N00039-68-C-1536 determine amount of residual noise emitted by transmitter in key up condition. It should be down at least -85 DB from a one milli watt refer nce level.
- 16 Repeat step 15 at 15 MHZ.

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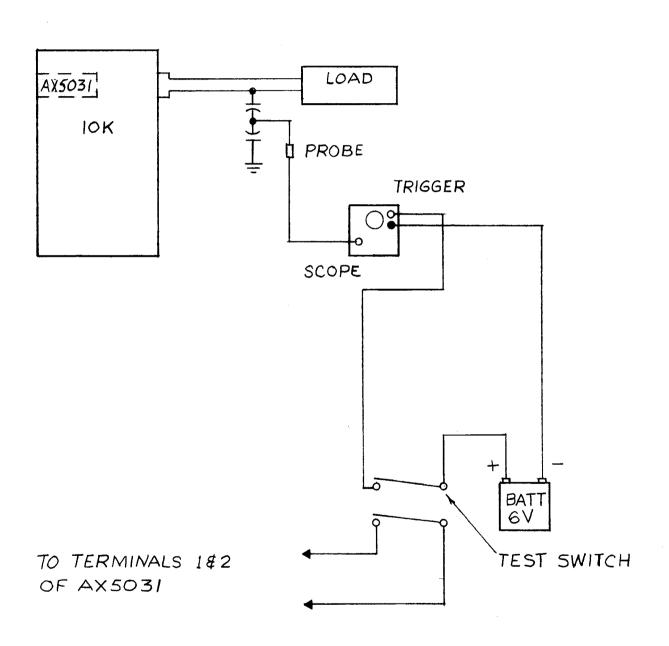


FIG. 1

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