

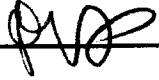
DATE 7/26/56  
SH. 1 OF 4  
COMPILED BY

TMC SPECIFICATION NO. S-302

TITLE: PRODUCTION TESTING OF MODEL GPT-750

JOB E271P

APPROVED



COMPLETE INSTRUCTIONS

for the

PRODUCTION TESTING of the

MODEL GPT-750

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APPROVED  Page Issued A

## 1. Purpose and Description:

SEE INSTRUCTION BOOK

## 2. Test Instructions:

- 1) Proceed as outlined in TMC Specifications: S-290, S-294, S-297 and S-301 (in any order.)
- 2) Units RTP and RTM must receive Final Test in the assigned Cabinet/Frame as outlined in paragraph #3 of this specification.
- 3) For combination B, apply tests "A" and "C" only. Fill in part II of the Report Sheets which are included in the models RTM and RTP, and submit them to your supervisor.
- 4) For combinations A, C, and D, apply tests B and C only. Fill in the second part of the Report Sheet which is included in the RTP and submit it to your superior.

## 3. Final Test:

### A) Combination B, only:

#### P.A. Plate Overload adjust and Modulators Test

1. Listening to the Relay K-701, set the Mode Switch to "Tune" position and rotate it slowly toward the "Phone" position. K-701 must close immediately after the switch leaves the "Tune" position.
2. After the Model RTF has been set to any arbitrary frequency, adjust its P.A. plate current to approximately 400 Ma (1 KW input).
3. Connect an Audio Signal Generator to terminals 1 and 3 of E501, set at .1V out, and at 1000 cps.
4. Turn the Modulator level to minimum.
5. Set the Mode Switch to Phone position.
6. Slowly increase the level control until modulator plate current reads 380 Ma.

NOTE: Do Not leave the unit turned on in this condition for a prolonged period of time.

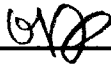
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7. Adjust R-605, P.A. Plate Overload Adjust, to the point where an additional rise in P.A. Plate Current will cause the Relay K-604 to trip.

B) P.A. Plate Overload Adjustment. (Without Modulator)  
Combinations: A,C, and D.

1. Tune the transmitter to any arbitrary frequency and adjust the P.A. Plate Current to 520 Ma (1300 W input).
2. Adjust R-605, P.A. Plate Overload Adjust, to the point where an additional rise in P.A. Plate Current will cause the Relay K-604 to trip.

C) P.A. Screen Grid Overload Adjustment (All Combinations)

1. Tune the Transmitter to any arbitrary frequency and adjust the plate current to approximately 300 Ma. (750 W input).
2. By means of the Drive Control, raise the P.A. Screen grid current to 105 Ma.
3. Set the S.G. Overload Adjust, R-604 to its Mid-position.
4. Adjust R-603 to the point where an additional rise in S.G. Current will cause the Relay K-601 to trip.

