

DATE 1 November 1963

SHEET 1 OF 3

TMC SPECIFICATION NO. S -784

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R.K.
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TITLE:

APPROVED



PRODUCTION TEST PROCEDURE

FOR TMC MODELS TTRA
1 THROUGH 4

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I. INTRODUCTION

The models TTRA-() Transmitter Amplifier Modules are used in the TMC model TTR-10 transmitter-receiver system. These modules contain the tank circuits for the IPA and PA tubes within the TTR-10 main chassis, and all IPA and PA tuning adjustments are made on the modules. The modules are installed in the TTR-10 by inserting from the top and locking in place with brackets.

II. EQUIPMENT REQUIRED

1. Schematic diagrams, CK-653, CK-654, CK-655, CK-656 for models TTRA-1, TTRA-2, TTRA-3 and TTRA-4.
2. HP-524C Frequency Counter.
3. TTRA-() Test Jig.
4. Simpson 260 multimeter or equivalent.
5. HP-410, AC VTVM.
6. HP-606A RF signal generator.
7. R.F. cable, 50 ohms, with BNC connectors.

III. PROCEDURE

A. GENERAL

The procedure outlined below can be used to test all TTRA models. Where the measurements differ between modules, a table is provided showing the value required for each.

1. Check the unit for mechanical defects and wiring errors. Particular attention should be paid to solder joints and tank coil installation.

2. Using the Simpson 260, make the following measurements:

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TMC MODEL	MEASUREMENT		RESISTANCE IN OHMS	REMARKS
	FROM	TO		
TTRA-()	PA PIN	ANT. PIN	0	PA TUNE switch
All Models				in position 1
TTRA-()	GND PIN	CHASSIS	0	
All Models				
TTRA-()	PA PIN	GND PIN		
All Models				
TTRA-1	pin 1, J 1101	pin 6, J 1101	less than $\frac{1}{2}$ ohm	IPA tank coil
TTRA-2	pin 1, J 1201	pin 6, J 1201	less than $\frac{1}{2}$ ohm	resistance.
TTRA-3	pin 1, J 1301	pin 6, J 1301	less than $\frac{1}{2}$ ohm	
TTRA-4	pin 1, J 1401	pin 6, J 1401	less than $\frac{1}{2}$ ohm	

B. OPERATIONAL CHECK

The TTRA TEST JIG can accommodate from one to four modules for testing. High voltage is present on the power amplifier and intermediate power amplifier tubes and the meter when the TEST JIG is in the STANDBY and KEYED switch positions. The TEST JIG is interlocked so that it will not turn on unless a TTRA module is installed.

