TMC SPECIFICATION NO. S-294

COMPILED BY

TITLE: PRODUCTION TESTING OF MODEL RTM

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TMC SPECIFICATION NO. S-294

JOB E271P

Instructions for the

PRODUCTION

TESTING

OF

MODEL RTM

DATE 5/15/56
SH. 2 OF 8
COMPILED BY

# TMC

SPECIFICATION NO. S-294

TITLE:

PRODUCTION TESTING OF MODEL RIM

**JOB E271P** 

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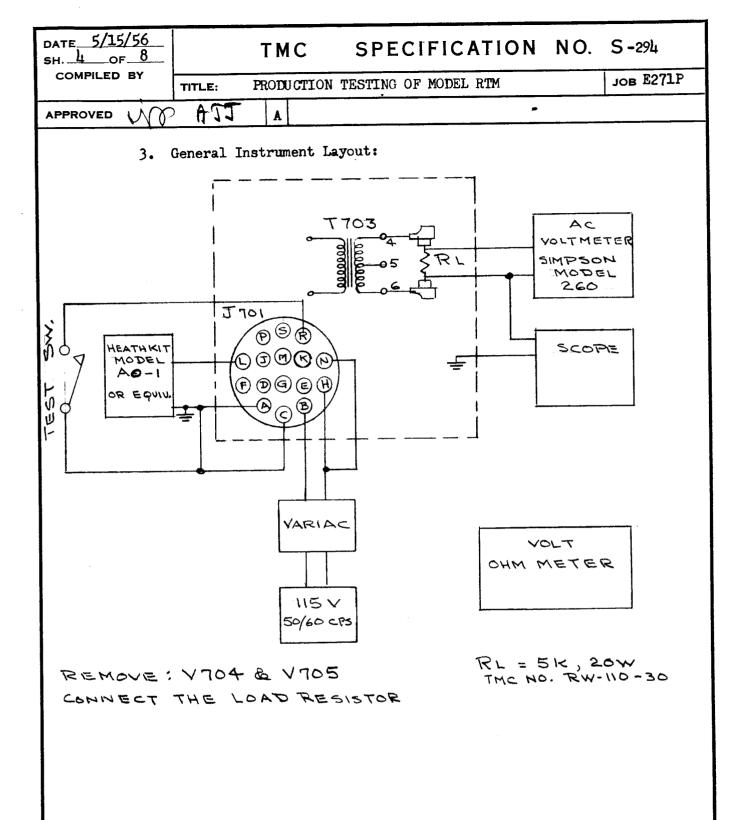
- 1. Purpose and Description
- 2. Test Equipment Required
- 3. General Instrument Layout
- 4. Test Instructions
- 5. Test Sequence and Procedure
- 6. Sample Report Sheets

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1. Purpose and Description:

See Instruction Book

- 2. Test Equipment Required:
  - 1) VTVM, Heath Kit, Model V-6.
  - 2) Ohmmeter, Simpson, Model 260 or equivalent.
  - 3) Audio Generator, Heath Kit, Model AO-1 or Heath Kit, Model AG-8
  - 4) Oscilloscope, DuMont, Model 304-H or Equivalent.
  - 5) Load Resistor 5,000Ω, 20W, RW110-30
  - 6) Test Switch, SPST, ST-11-A
  - 7) Variac, Type V5 or equivalent.



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#### h. Test Instructions:

- a) Proceed as outlined in Test Sequence and Procedure Paragraph 5 to follow.
- b) Fill in Blanks on Report Sheet, in the first part only, rejecting those units which do not meet the specifications stated herein.
- c) Sign Report Sheet and submit it to your supervisor.

### 5. Test Sequence and Procedure:

### A. General Inspection

- a) Inspect the total unit for obvious mechanical imperfections.
- b) Inspect the total unit for obvious electrical imperfections. Be sure that R-711 is 5 K ohms.
- c) Carefully adjust the spark gap, using .203 inch gauge.
- d) Inspect the high voltage wiring: K-701, J-702, J-703, T-704, V-704, V-705. It must be in accordance with the schematic, CK-330 or CK-316.

#### B. Resistance Check

- a) Measure between the pins "P" and "S" of J-701: Resistance should be approximately .80 ohms.
- b) Measure for continuity between pin "F" of J701 and pin 2 of T-701.
- c) Measure resistance between pin "S" of J-701 and ground. Resistance must be 23 K-27 K ohms.

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# C. Initial Rapid Check

- a) Connect the power, 115V at 60 cps, to pins "B" and "H and N", refer to General Instrument Layout, Paragraph 3A.
- b) Turn the power ON and observe if pilot light is on, voltage regulator operates and all filaments are being heated

# D. Audio Amplifier and Modulator Drivers

- a) Connect the Audio Signal Generator to pins "A" and "L" of J-701, set at 1000 cps.
- b) Remove V-704 and V-705 from their sockets, (if any.)
- c) Connect 5,000 ohms, 20W Resistor to the grid connectors as shown in paragraph 3, General Instrument Layout.
- d) Connect Oscilloscope to one side of the load resistor, ground the other side of the scope.
- e) Connect the Simpson Model 260 A.C. Meter across the load.
- f) Turn the Level Control fully clockwise.
- g) Drive the Model RTM with .08 VRMS.
- h) Turn the Test Switch to ON position.
- i) The Output Voltage across the load should be approximately 220 VRMS. and the Relay K-701 must be in energized position.
- j) There should be no noticeable distortion (less than 5%) at the oscilloscope.

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#### E. Relay Test

- a) Place the Model RTM in its upright position.
- b) With the Test Switch in OFF position, measure for continuity between J-702 and J-703.
- c) With the Test Switch in ON position measure the resistance between J-702 and J-703. It must be 80 to 120 ohms.
- d) Set the variac for 100 VAC output to the Model RTM
- e) The VR tube must light.
- f) Adjust resistor R-708 for minimum current flow through the relay K-701, required to close it. Then flip the Test Switch ON and OFF a few times. The relay must have very little or no backlash.
- g) Disconnect the power.

Units which meet the specifications above are not ready for shipment. Final Test must be given in the assigned Cab/Frame as described in TMC Specification S=302.

One copy of report sheet must accompany each Model RTM.

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	TITLE: PRODUCTION TEST	TING OF MODEL RTM		<b>Ј</b> ОВ Е-271Р
APPROVED	Page Issued A		<u>-</u>	
	Test I	Report Sheet		
	MOI	DEL RTM		
PAI	RT I	ACCEPT	REJECT	
TE	ST A, General Inspection	on		
TEX	ST B, Resistance Check		••••	
TES	ST C, Initial Rapid Che	eck		
TES	ST D, Audio Amplifier a Modulator Drivers			
TES	ST E, Relay Test	**************************************		
Ser	rial Number	Accepted		
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		Tested By		
PAH	RT II	ACCEPT	REJECT	
Pow	wer Output	-		
Dat	te			

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MODEL RTM	REVISION SHEET	S-294
DATE REV. PAGE ITEM	DESCRIPTION	REMARKS APP
7/27/56 A 3 7	Added	
n A 4 -	Variac added	SMO
" A 7 8	Added	1:010
11/7/56 A 5 -	A. General Inspection, paragraph (b), Be	de constant
And the state of t	sure that R-711 is 5 K ohms. added	
11/7/56 A 5 -	B. Resistance Check, paragraph (c), Measure	SMP
	resistance between pin "S" of J-701 and	A Tomas
	ground. Resistance must be 23 K-27 K ohms.a	dded H J N
12/9/56 B 5 -	Paragraph B of Test Instructions revised	money francisco de la como de la
	and retyped.	RAX NO 1-5
12/12/56 A 8 -	Part II added to test report sheet	2 and 1 HIII
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