

1. EQUIPMENT REQUIRED:

- a. Sweep Generator Telonic Model HD7
- b. VSWR Kit Rho-Tector Model TRB-1 with 1:1 and 1.2:1 loads.
- c. Oscilloscope
- d. Detector Jig (1N34B)
- e. 200 chm and 600 chm transformer load jigs.

2. PROCEDURE:

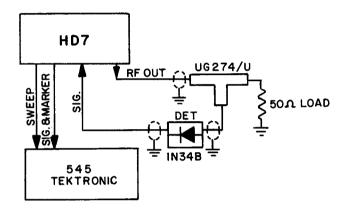
- 1. To check insertion loss, set up equipment as indicated in figure 1.
- 2. To check frequency responses, set up equipment as indicated in figure 2.
- 3. To check VSWR, set up equipment as indicated in figure 3.
- 4. Record results on test data sheet.

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COMPILED BY	TITLE:	TEST PROC	CEDURE FOR TR-090		JOB A

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INSERTION LOSS:

1. Set up the equipment as shown in figure 1A and set the HD7 for one division of deflection on the scope and a sweep from 2 to 32MHz.



NOTE:

USE 52 A COAXIAL CABLE.
KEEP LENGTHS AS SHORT
AS POSSIBLE.

FIG. 1A

b. Remove the 50 ohm load and set up the equipment as shown in figure 1B using the 200 ohm load jig.

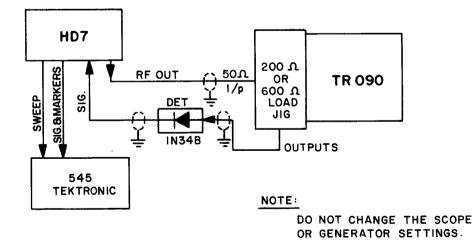


FIG. IB

TMC SPECIFICATION NO. S 588

TITLE: TEST PROCEDURE FOR TR-090

TO SPECIFICATION NO. S 588

APPROVED

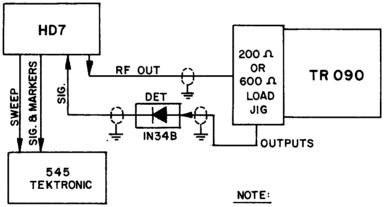
- c. Check the output at the output jacks of the 200 ohm load jig. The trace on the scope should be between 1.25 and 1.59 divisions in amplitude. (This represents an insertion loss of ± 1db or less).
- d. Replace the 200 ohm load jig with the 600 ohm load jig.
- e. Check the output at the output jacks of the 600 ohm load jig. The trace on the scope should be between 2.19 and 2.7 divisions in amplitude. (This represents an insertion loss of ± ldb or less).
- f. Record results of steps c and d on test data sheets.
- g. Insertion loss + ldb maximum.

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2. FREQUENCY RESPONSE:

- a. Set up the equipment as shown in figure 2, with the TR-090 inserted into the 200 ohm load jig and check both outputs.
- b. Record the results on the test data sheet.
- c. Frequency response should be \pm .5db from 2 to 32MHz.
- d. Repeat test using the 600 ohm load jig.



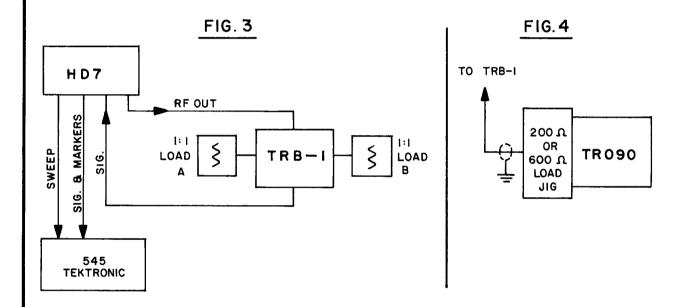
USE 52 \(\text{COAXIAL CABLE.}\)
KEEP LENGTHS AS SHORT
AS POSSIBLE.

FIG. 2

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3. <u>V.S.W.R.</u>

a. Set up the equipment as shown in figure 3 and observe the output on the scope. There should be no deviation from a straight line.



- b. Replace load B with the 1.2:1 load.
- c. Set the scope to give deflection easily readable and note the maximum deflection.
- d. Replace the 1.2:1 load with a UHF to BNC adaptor and hook up the TR-090 as shown in figure 4 using a short 52 ohm cable and the 200 ohm load jig.
- e. Note the waveform on the scope. The VSWR should not exceed the calibrated line on the scope which represents 1.2:1 VSWR.
- f. Reneat steps d and e using the 600 ohm load jig.
- g. Record results on test data sheet.

TEST PROCEDURE FOR TR-090 TEST DATA SHEET. TR-090 MPG NO. DATE TEST PREQUENCY RANGE 2 TO 32MHz. 200 OHM SIDE 600 OHM SIDE VSWR 1.2 MAX. RESPONSE ± 0.5db MAX. INSERTION LOSS ± 1db MAX.	DATE 7-3-61 SH. 6 OF 6	-	TMC	SPECIF	ICATION NO.	S 588
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1.2 MAX. RESPONSE + 0.5db MAX. INSERTION LOSS			200	OHM SIDE	600 OHM SIDE	
RESPONSE ± 0.5db MAX. INSERTION LOSS			200	OHM SIDE	600 OHM SIDE	
± 0.5db MAX. INSERTION LOSS	•		200	OHM SIDE	600 OHM SIDE	
INSERTION LOSS	•		200	OHM SIDE	600 OHM SIDE	
LOSS	1.	2 MAX.	200		600 OHM SIDE	
LOSS	1.	2 MAX.	200		600 OHM SIDE	
	1.	2 MAX.	200		600 OHM SIDE	
	RES ± 0	2 MAX. PONSE .5db MAX. SERTION	200		600 OHM SIDE	
	RES ± 0	PONSE 5db MAX. SERTION OSS	200		600 OHM SIDE	
	RES ± 0	PONSE 5db MAX. SERTION OSS	200		600 OHM SIDE	
	RES ± 0	PONSE 5db MAX. SERTION OSS	200		600 OHM SIDE	
	RES ± 0	PONSE 5db MAX. SERTION OSS	200		600 OHM SIDE	
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	RES ± 0	PONSE 5db MAX. SERTION OSS	200		600 OHM SIDE	
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	RES ± 0	PONSE 5db MAX. SERTION OSS	200		600 OHM SIDE	
	RES ± 0	PONSE 5db MAX. SERTION OSS	200		600 OHM SIDE	
TESTER	RES ± 0	PONSE 5db MAX. SERTION OSS	200			

REVISION SHEET			THE TECHNICAL MATERIEL CORP. MAMARONECK NEW YORK LIST NO.			
DATE	REV.	SHEET	EMN #	DESCRIPTION		APP.
11/7/66	A		17218	Revised completely with changes p	per EMN	æ
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