

DATE 11/26/54  
SH. 1 OF 16

TMC SPECIFICATION NO. S-236

COMPILED BY  
K.Z.

TITLE: PRODUCTION TESTING OF NF-102

JOB 170

APPROVED

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PROCEDURE AND INSTRUCTIONS  
FOR PRODUCTION TESTING OF  
AUDIO-SELECTIVE NETWORK  
NF-102

DATE 11/26/54  
SH. 2 OF 4  
COMPILED BY  
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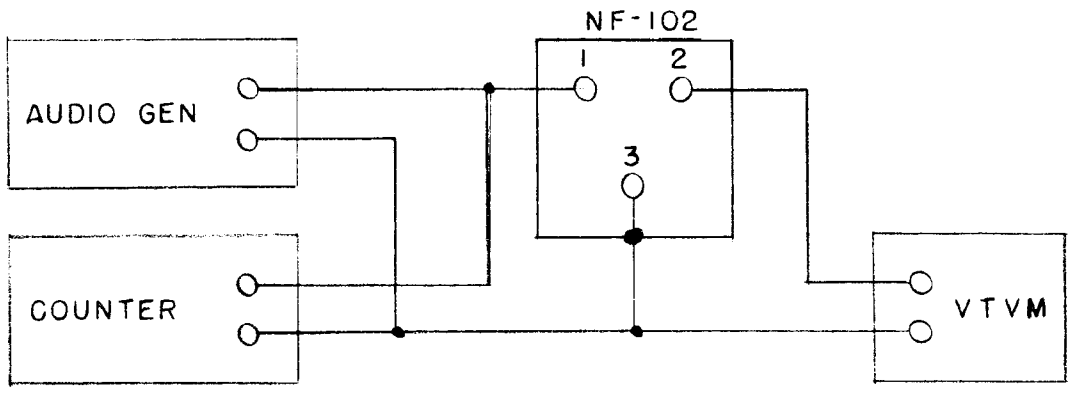
AJJ  
1. Purpose of Testing:

Determination of proper operation and elimination of defective networks as a part of the manufacturing process for the unit.

2. Test Equipment Required:

- a) 1 Audio Signal Generator, Hewlitt Packard 200 or Heathkit AG 8
- b) 1 VTVM (High Impedance Type DC) Heathkit V6
- c) 1 Frequency Counter, Berkeley 5500 or 5556
- d) 1 Dial Knob MP-100-4

3. General Instrument Layout:



4. Test Instructions:

( For the duration of the test, attach dial knob MP-100-4 to shaft of switch.)

- a) Set audio generator to about 1000 cps. at 10.0 V (rms)
- b) Rotate switch of unit to extreme clockwise position; this position is designated as "Off" position. Meter reading must fall between 1.40 V and 2.20 V to be acceptable.
- c) Rotate switch one step counter clockwise; this position is designated as the "1250" cps position. Vary the audio generator frequency until a definite maximum reading is obtained on the VTVM.

DATE 11/26/54  
SH. 3 OF 4  
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The test specifications for 1250 cps are met if:

1- the indicated frequency falls within 1190 cps and 1310 cps;

2- the voltage reading at the point of maximum meter deflection falls within the limits indicated under paragraph b);

3- the total bandwidth, measured at the 3 db points, is no greater than 45 cps.

d) Rotate switch one more step counter clockwise; this position is designated as the "1000" cps position. Vary the audio generator frequency until a definite maximum reading is obtained on the VTVM. The test specifications for 1000 cps are met if:

1- the indicated frequency falls within 950 cps and 1050 cps;

2- the voltage reading at the point of maximum meter deflection falls within the limits indicated under paragraph b);

3- the total bandwidth is no greater than 40 cps.

e) Rotate switch one more step counter clockwise; this position is designated as the "750" cps position. Vary the audio generator frequency until a definite maximum reading is obtained on the VTVM. The test specifications for 750 cps are met if:

1- the indicated frequency falls within 715 cps and 785 cps;

2- the voltage reading at the point of maximum meter deflection falls within the limits indicated under paragraph b);

3- the total bandwidth is no greater than 35 cps.

DATE <u>11/26/54</u>	<b>TMC SPECIFICATION NO. S- 236</b>	
SH. <u>4</u> OF <u>4</u>		
COMPILED BY <u>K.Z.</u>	TITLE: <u>PRODUCTION TESTING OF NF-102</u>	JOB <u>170</u>
APPROVED <u>KZ</u> <u>AJJ</u>	Page Issue <u>A</u>	

f) Rotate switch one more step counter clockwise; this position represents the extreme counter clockwise position, designated as the "500" cps position. Vary the audio generator frequency until a definite maximum reading is obtained on the VTVM. The test specifications for 500 cps are met if:

- 1- the indicated frequency falls within 470 cps and 525 cps;
- 2- the voltage reading at the point of maximum meter deflection falls within the limits indicated under paragraph b.);
- 3- the total bandwidth is no greater than 30 cps.

5. Acceptance Procedure:

If all tests specified in paragraph 4 are passed satisfactorily the unit should be stamped properly and accepted.

