

DATE <u>1/11/55</u>	TMC SPECIFICATION NO. S- 243	
SH. <u>1</u> OF <u>5</u>		
COMPILED BY <u>KZ</u>	TITLE: PRODUCTION TESTING OF MODEL RSF-2	JOB 170
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ATT.

COMPLETE INSTRUCTIONS FOR
PRODUCTION TESTING OF
MODEL RSF-2

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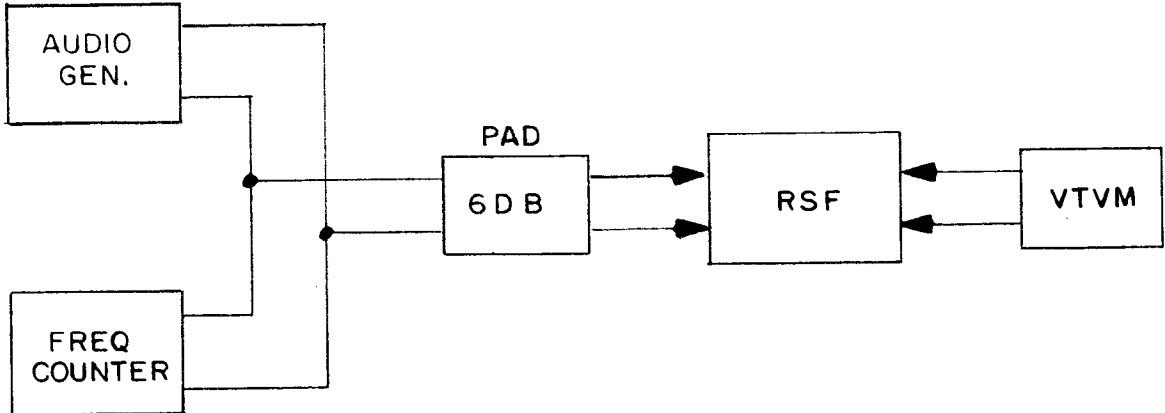
1. Purpose and Description of Unit

The Model RSF-2 is used in the RCR System primarily to assure freedom from harmonic content of the tone frequencies used for remote control. Three bandpass filters, an output pad for combination of the frequencies into a composite, and a monitor point are the essentials of the RSF-2.

The production test is performed in order to assure proper placement of the filters and to verify the correct operation of the unit. The filters are tested individually in order to make certain of their electrical performance.

2. Test Equipment Required

- a) 1 Audio Signal Generator, Hewlitt Packard or equivalent.
- b) 2 AC VTVM's
- c) 1 Frequency Counter, Berkeley or equivalent.
- d) 1 6 db Pad



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3. Test Instructions

- a. Inspect the unit for mechanical imperfections.
- b. Inspect the unit for errors in the electrical wiring.
- c. Connect VTVM and a 680 ohm load across terminal 7&8 of E1.
- d. With test setup as shown on sheet 2, increase audio generator output until the input VTVM indicates 0dbm (0dbm equal .78 VAC across 600 ohms) at a frequency in accordance with Table I. Maintain a constant input voltage to the following tests. For each RSF Model, check the bandpass and band reject characteristics of the filter to ensure that it corresponds to the specifications given in Table I.

TABLE I

FOR MODEL	CONNECT TO TERMINALS	CENTER FREQ. IN CPS	CONTROL	BANDPASS* (-3db POINTS) in cps	BAND REJECT**	
					AT-40db in cps	AT-20db in cps
RSF-2A	1 & 2	1275	BFO	1225-1325	255-595	1105-1445
	3 & 4	425	HFO	375-475		1955-2295
	5 & 6	2125	RFG	2075-2175		
RSF-2B	1 & 2	1445	BFO	1395-1495	425-765	1275-1615
	3 & 4	595	HFO	454-645		2125-2465
	5 & 6	2295	RFG	2245-2345		
RSF-2C	1 & 2	1615	BFO	1565-1665	595-935	1445-1785
	3 & 4	765	HFO	715-815		2295-2635
	5 & 6	2465	RFG	2415-2515		
RSF-2D	1 & 2	1785	BFO	1735-1835		1615-1955
	3 & 4	935	HFO	885-985		765-1105
	5 & 6	2635	RFG	2585-2685		2465-2805
RSF-2E	1 & 2	1955	BFO	1905-2005		1785-2125
	3 & 4	1105	HFO	1055-1155		935-1275
	5 & 6	2805	RFG	2755-2855		2635-2975

NOTE:

*Indicates that the bandpass must fall at or outside these limits in order to be acceptable.

**Indicates that the rejection band must fall at or inside these limits in order to be acceptable.

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4. Acceptance Procedure

If all tests specified in paragraph 3 are passed satisfactorily the unit should be stamped properly and accepted. The Test Report Sheet for the unit should be completed, signed and submitted to the supervisor.

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TEST DATA SHEET FOR MODEL RSF-2

Mfg. NO. _____

Serial No. _____

Para.

3a. Mechanical Inspection-----

3b. Wiring Check-----

3d. Bandpass	BFO	HFO	RFG
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-3DB points	_____	_____	_____
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3d. Band Reject

-20DB points	_____	_____	*
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-40DB points	<u>N/A</u>	_____	** <u>N/A</u>
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Tester _____

Date _____

* Applicable only on RSF-2D and E

**Applicable only on RSF-2A, B and C

