DATE 12/11/59 SH. 1 OF 5 COMPILED BY R.W.T.	TMC SPECIFICATION NO. S - 10030	
	TITLE: PRODUCTION TESTING OF MODEL CRCU-1	JOB
APPROVED R.W. Thomas,		

INSTRUCTIONS FOR THE

PRODUCTION TESTING

OF THE

MODEL CRCU-1

DATE 12/11/59 SH. 2 OF 5 COMPILED BY R.W.T.	TMC SPECIFICATION NO. S - 10030	
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I N D E X

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1. TEST EQUIPMENT REQUIRED

a) Avometer Model 8

b) Power cord (CA-103)

2. TEST PROCEDURE

1. Preliminary inspection

a) Inspect unit for assembly and wiring errors.

b) Check that all screws are tight.

2. Electrical tests

a) Connect the unit to a 115 V 60 c/s main supply and check that:

1.) With the MODE switch up, lamp A_1, A_3 lights;

2.) With the MODE switch down, lamp F_1, F_4 lights;

3.) With the H.T. switch up, lamp H.T. lights;

4.) With TRANSMITTER SELECTOR switch in anti-clockwise position, lamp TX1 lights;

5.) With TRANSMITTER SELECTOR switch in clockwise position, lamp TX2 lights.

b) Connect terminal 6 to 7 and 8 to 9 on terminal board E101 at the rear of the unit.

With MODE switch set to A_1, A_2, HT switch to "off" and TRANSMITTER SELECTOR switch to TX2. Check that a short circuit exists between:

1) Terminal 6 on E101 and terminal 1 on E102

2) Terminal 9 on E101 and terminal 2 on E102

3) Terminal 10 on E101 and terminal 3 on E102

4) Terminal 5 on E101 and chassis

5) Terminal 11 on E101 and chassis

6) Terminal 6 on E102 and chassis

7) Pin 2 on microphone receptacle J102 and chassis

8) Terminals 1 and 2 on E101

9) Terminal 4 on E102 and chassis

10) Terminal 5 on E102 and chassis

Check that an open circuit exists between:

11) Terminals 2 and 3 on E101

12) Terminal 1 on E102 and chassis

13) Terminal 2 on E102 and chassis

c) Connect a key to the unit by means a jack-plug in the KEY socket and check that terminal 10 on E101 is now not connected to terminal 3 on E102.

d) Depress the key and check that terminal 3 on E102 is now shorted to chassis.

e) Connect a microphone with the "press-to-talk" switch depressed to the microphone socket and check that the relay RY101 operates. Also see that:

1.) Terminals 1 and 2 on K101 are open circuited

2.) Terminals 2 and 3 on K101 are s.c.

3.) Terminal 1 on K102 measures 180 ohm ± 10% to chassis

f) Set MODE switch to F_1, F_4 and observe that terminal 4 on K102 is now o.c. to chassis.

g) Set HT switch to ON and check that terminal 2 on K102 is now s.c. to chassis.

h) Turn the TRANSMITTER SELECTOR switch to mid position and see that:

1.) Terminal 2 is o.c. to chassis

2.) Terminal 5 is o.c. to chassis

i) Turn the TRANSMITTER SELECTOR switch to TX1 and check that:

1.) Terminal 2 on K102 is s.c. to chassis

2.) Terminal 5 on K102 is o.c. to chassis.

NOTE: s.c. = short circuit

o.c. = open circuit