

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  
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TITLE: PRODUCTION TESTING OF MODEL CRGU-1

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Schematic diagram CK-10334

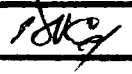
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1. TEST EQUIPMENT REQUIRED

- 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<sub>1</sub>, A<sub>3</sub> lights;
  - 2.) With the MODE switch down, lamp F<sub>1</sub>, F<sub>4</sub> 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.

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*1200*

- b) Connect terminal 6 to 7 and 8 to 9 on terminal board K101 at the rear of the unit.

With MODE switch set to A<sub>1</sub>, A<sub>2</sub>, HT switch to "off" and TRANSMITTER SELECTOR switch to TX2.

Check that a short circuit exists between:

- 1) Terminal 6 on K101 and terminal 1 on K102
- 2) Terminal 9 on K101 and terminal 2 on K102
- 3) Terminal 10 on K101 and terminal 3 on K102
- 4) Terminal 5 on K101 and chassis
- 5) Terminal 11 on K101 and chassis
- 6) Terminal 6 on K102 and chassis
- 7) Pin 2 on microphone receptacle J102 and chassis
- 8) Terminals 1 and 2 on K101
- 9) Terminal 4 on K102 and chassis
- 10) Terminal 5 on K102 and chassis

Check that an open circuit exists between:

- 11) Terminals 2 and 3 on K101
- 12) Terminal 1 on K102 and chassis
- 13) Terminal 2 on K102 and chassis

- c) Connect a key to the unit by means a jack-plug in the KEY socket and check that terminal 10 on K101 is now not connected to terminal 3 on K102.
- d) Depress the key and check that terminal 3 on K102 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:

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*TWC*

- 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  $\pm$  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