DATE 13/11/59 SH. 1 OF 5 COMPILED BY R.W.T.	TMC SPECIFICATION NO. S - 10031	
	TITLE: PRODUCTION TESTING OF MODEL CTCU-1	JOB
APPROVED R.W. Thomas.		Doc

INSTRUCTIONS FOR THE

PRODUCTION TESTING

OF THE

MODEL CTCU-1

DATE 13/11/59 SH. 2 OF 5 COMPILED BY R.W.T.	TMC SPECIFICATION NO. S - 10031	
	TITLE: PRODUCTION TESTING OF MODEL CTCU-1	JOB
APPROVED R.W.T.		TWO

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DATE 13/11/59 SH. 3 OF 5 COMPILED BY R.W.T.	TMC SPECIFICATION NO. S - 10031	
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APPROVED R.W.T.		TMC

1. TEST EQUIPMENT REQUIRED

a) Avometer Model 8

b) Power cord (CA-103)

c) Buzzer and battery

2. TEST PROCEDURE

2.1 Preliminary inspection.

2.1.1 Inspect unit for assembly and wiring errors.

2.1.2 Check that all screws are tight.

2.1.3 Check that all relay spring sets and armatures are undamaged.

2.2 Electrical Tests.

2.2.1 Connect the unit to the 115 V. 60c/s main supply and set:

a) switch to CW
b) HT switch to OFF
c) MODE SELECTOR to A_1, A_3
d) CONTROL SELECTOR to local
e) TRANSMITTER SELECTOR to TX1

2.2.2 Check that no voltage appears between the following points and the chassis

a) T rminals 1, 2, 3, 4 and 5 on E201
b) Terminals 1, 2, 3, 4 and 5 on E202.

2.2.3 Check that approximately 50V D.C. appears between terminals "C" and "C" on E203 and that none of the relays are energised.

2.2.4 Check that a s.c. exists between the inner connectors of sockets TX1 and A_1 A_3 of RY204 and between TX2 and A_1 A_3 of RY-205.

2.2.5 Set MODE switch to F_1 F_4 and check that relays RY207 and RY204 become energised, connecting terminal 4 on E204 to chassis.

2.2.6 Check that a s.c. has appeared between inner TX1 and F_1 F_4 on RY204 only.

2.2.7 Connect a key into the KEY jack socket and depress it. Check that RY206 operates and that there is now a s.c. between terminal 4 of E204 and chassis.

2.2.8 Release the key, plug in the carbon hand microphone and depress the "Push-to-talk" switch. Check that RY203 operates and that both terminal 4 and terminal 6 on E204 are s.c. to chassis.

2.2.9 Set HT switch to "ON" and check that RY202 operates. See that terminals 5 on E204 and E205 are now s.c. to chassis.

2.2.10 Set TRANSMITTER SELECTOR to TX2 and check that RY201 DOES NOT OPERATE until the HT switch is turned off.

2.2.11 Revert all the controls except TRANSMITTER SELECTOR to the state given in 2.2.1 and run through the tests 2.2.2 to 2.2.9 inclusive but reading E205 for E204, TX2 for TX1 and RY202 for RY201.

2.2.12 Set TRANSMITTER SELECTOR back to TX1 and check that RY201 DOES NOT OPERATE until the HT switch is turned off.

2.2.13 Set CONTROL SELECTOR switch to REMOTE and run through tests 2.2.1 to 2.2.12 inclusive bearing in mind that on E201 the following terminals when s.c. to chassis are th equivalent of th following switches being operated on the remote unit:

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E201 on CTCU-1		Switches on CRCU-1
Terminal 1:	o.c.	CW/RT switch at CW
Terminal 1:	s.c.	CW/RT switch at RT
Terminal 2:	o.c.	H.T. switch at OFF
Terminal 2:	s.c.	H.T. switch at ON
Terminal 3:	o.c.	Key up
Terminal 3:	s.c.	Key down
Terminal 4:	o.c.	MODE switch at A_1 A_3
Terminal 4:	s.c.	MODE switch at F_1 F_4
Terminal 5:	o.c.	TRANSMITTER SELECTOR at TX1
Terminal 5:	s.c.	TRANSMITTER SELECTOR at TX2.

NOTE: o.c. = open circuit

s.c. = short circuit