

DATE January 25, 1963

SHEET 1 OF 4

**TMC SPECIFICATION NO. S -753**

J. Steen  
COMPILED

*N.P.*  
CHECKED

TITLE:

APPROVED *BP*

TEST PROCEDURE

FOR ~~KTT~~-155

(VOICE CONTROL AND PUSH TO TALK UNIT)

DATE January 25, 1963

SHEET 2 OF 4

# TMC SPECIFICATION NO. S -753

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(VOICE CONTROL AND PUSH TO TALK UNIT)

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## I. EQUIPMENT REQUIRED

One 200 volt power supply - ~~Lambda~~ Model 25 or equivalent.

Two Audio Generators - Hewlett-Packard Model 200 AB or equivalent.

One A-C VTVM - Ballantine Model 300H or equivalent.

One VOM - Simpson Model 260

## II. PRELIMINARY

Remove cover and check for poor solder connections, imperfections in the printed circuit board, and other mechanical defects.

## III. PROCEDURE

1. Connect power supply to terminals 1 and 2 of terminal board with positive side on terminal 2.

2. Connect signal generator to terminals 3 and 5 of terminal board with terminal 5 grounded to chassis.

3. Set voltage level on power supply to "minimum" and turn on. Set for 200 volts.

4. Connect Simpson meter between terminals 1 and 10 on the +DC 250 volt scale, with the positive side on terminal 10. Meter should read zero.

5. Ground terminal 9. Meter should read 200 volts.

6. With gain controls on ~~voice control~~ unit and audio generator fully counter-clockwise, turn on signal generator. Adjust signal generator for .025 volts at 350 cps. Adjust gain control on Voice Control Unit such that relay energizes and Simpson meter reads 200 volts.

7. Turn gain on generator down until relay releases and Simpson meter reads zero. Change frequency to 1000 cps and increase signal voltage. Relay should energize. If not, increase gain on voice control unit until it does.

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SHEET 3 OF 4

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8. Repeat Step 7 for 2000, 4000, 6000 and 7500 cps.
9. VOX gain is now set to energize relay with a signal level of .025 volts or lower in the range of 350 to 7500 cps.
10. Set VOX release fully counter-clockwise. Insert 1000 cps at .025 volts. Turn off signal generator. Note that Simpson meter drops immediately to zero. Turn on signal generator and restore level to .025 volts. Simpson meter should read 200 volts. Turn VOX release fully clockwise. Turn off signal generator. Note that Simpson meter reading holds for approximately one second before dropping off.
11. Adjust "SQUELCH CONTROL" fully clockwise. Insert signal level of .775 volts at terminal 6 and 7 at 1000 cps from the second signal generator. Set level of first signal generator at .025 volts at 1000 cps. Turn "SQUELCH LEVEL" counter-clockwise until relay energizes. Turn down level of first signal generator until relay de-energizes, and then turn "SQUELCH LEVEL" slightly clockwise.
12. Turn "SIGNAL LEVEL" of first signal generator to .025 volts. Relay should not energize. Remove "SQUELCH INPUT". Relay should energize.

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(VOICE CONTROL AND PUSH TO TALK UNIT)

THE TECHNICAL MATERIEL CORPORATION

MAMARONECK, N.Y.

KIT-155

VOICE CONTROL UNIT TEST DATA SHEET

SERIAL NO.: \_\_\_\_\_

MFG. NO.: \_\_\_\_\_

PRELIMINARY

STEP 1 \_\_\_\_\_ OK

PROCEDURE

Push to Talk Function \_\_\_\_\_ OK

VOX Gain \_\_\_\_\_ OK

VOX Release \_\_\_\_\_ OK

Squelch \_\_\_\_\_ OK

DATE: \_\_\_\_\_

TESTER: \_\_\_\_\_