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**MANUAL MOBILE RADIO**  
**OVERALL SYSTEM**  
**BASE STATION LINEUP**  
**TALKING TESTS**

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This section is reissued to reflect changes in the transmission and received signal levels encountered at the base station. The talking tests should be made to insure that the speech volume at various points in the system is satisfactory. These tests should be performed after the lineup tests in the applicable test sections have been completed. Change arrows have been omitted.

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**APPARATUS:**

- 1—KS-16653, List 1 Volume Indicator ( replaces 753 D,E,F ) *or*
  - 1—KS-16654, List 1 Volume Indicator ( replaces 754 A,B,C )
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**STEP**

**PROCEDURE**

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- 1 Connect a volume indicator to the REC AMP OUT jacks of the control terminal. Set the selector key on the front panel of the meter to the 600-ohm position.
- 2 In systems using automatic receiver selection, turn the 552E key associated with the receiver selection circuit to position SEL. For receiver combining arrangements, insert 600-ohm plugs in all REC CONT CMB IN jacks except those associated with the receiver under test.
- 3 Insert a 600-ohm termination into the BL jacks to prevent false signals to the operator. Turn on the T FREQ key to permit energizing the test transmitter. Using the test handset, operate the test transmitter on a push-to-talk basis.
- 4 Operate the handset key to the TST and MON position and talk over the test transmitter. In systems using frequency converters, patch the monitor handset (in OPR TEL SET position) to the TALK jack to the TRSG AMP IN jack and from the TEL SET LIST jack to the LIST jack.
- 5 Read the speech volume for each receiver, in turn, on the volume indicator.

STEP	PROCEDURE
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**Requirement:**

TYPE OF CONTROL TERMINAL	SPEECH LEVEL PER RECEIVER
G2	0 ±10 VU
G1	-8 ±10 VU
G2 (FDX)*	0 ±10 VU
G1 (FDX)*	0 ±10 VU
H-Type	0 ±10 VU

\* Terminal arranged for full duplex operation.

- 6 Connect the volume indicator to the TRSG VOG OUT jacks of G2 or H-type terminals or the TR VOG OUT jack in G1 control terminals. Using the 600-ohm position of the volume indicator, check that speech from the receiving branch is present in the transmitting branch.

**Requirement:**

G-Type and H2 Terminals: -10 VU ±2 VU

H1 Terminals: -10 VU ±10.0 VU

- 7 With the volume indicator connected as in Step 6, establish a telephone connection through the mobile service operator and talk toward the base transmitter. (Omit this test for H-type terminals.)

**Requirement:** -10 VU ±2 VU

- 8 Monitor the base transmitter with the monitoring receiver. Using the volume indicator, check the volume indication at the MON REC L jack of receivers located at the control terminal or the MON AMP OUT jack for remotely located receivers.

**Requirement:** 11.0 VU ±4.0 VU