VACUUM TUBE TEST SET
HICKOK MODEL 531 (KS-13588 L1)
AND MODIFIED 530B (KS-13725 L1) TUBE TESTER
DESCRIPTION AND APPLICATION

1. GENERAL

1.001 This addendum supplements Section 100-633-101, Issue 1.

1.002 This addendum is issued to add the procedure for using the KS-15840 L1 Micromhos Meter Calibrator.

(e) ***Calibration Check of MICROMHOS Meter***

Add the following to the Section.

3. METHODS FOR TESTING TUBES

3.25.1 ***General:*** Under normal usage of this tester, doubtful transconductance measurements involving marginal or suspect tubes can usually be checked by comparing with test results of a new or good sample of a tube in question using a comparable tester known to be in satisfactory operating condition.

3.25.2 In the absence of specifically indicated trouble in the tester the KS-15840 L1 micromhos meter calibrator can be used to check the accuracy of the micromhos meter indication. The check is accomplished through a simulation of tubes under test and is only a broad indication that the micromhos meter and the associated circuits of the tester are accurate.

3.25.3 ***Procedure:***

(1) Place the KS-15840 L1 calibrator in a horizontal position adjacent to the KS tube tester to be checked. With the tube tester power switch off, plug the calibrator into the five-pin test socket.

(2) On the calibrator, set RANGE switch to HI 3000 and turn METER ADJUST knob to full counterclockwise position.

(3) On the KS tester, set the A selector and the B selector to 1. Set the L POT. on 60 (On KS-8235 set Micro SW at 3000).

(4) On KS tester, set the FIL switch to the 35 volt position.

(5) On KS tester, check zero setting of Gm meter.

(6) On KS tester, operate POWER switch to ON with FIL ACT. Switch on NORM, and adjust line voltage to red line on AC VOLTS meter.

(7) On KS tester, depress and lock AMPL TEST button.

(8) Check and adjust ac voltmeters, if necessary, on both the calibrator and the KS tester.

(9) Observe the microhms reading on the KS tester.

Requirement: The reading should be 1000 micromhos within 1.5 scale division.