

voltmeter will indicate between 0.9965 and 1.0035 V ac.

(22) Repeat technique of (21) above for frequencies of 50 and 400 Hz. Differential voltmeter will indicate between 0.9965 and 1.0035 V ac.

**b. Adjustments.** No adjustments can be made.

## 12. Resistance

### a. Performance Check

(1) Press function 10 M $\Omega$  pushbutton.

(2) Connect resistance standard (A10) and resistance standard (A11) in series to INPUT HI and LO terminals, using three leads (B4).

(3) Adjust resistance standard (A10) and resistance standard (A11) to obtain a 10.000 M $\Omega$  indication on TI. If resistance standard (A10) and resistance standard (A11) do not indicate between 9.994 (9.989) and 10.006 (10.011) M $\Omega$ , perform b(1) below.

(4) Disconnect resistance standards (A10) and (A11).

(5) Press function k $\Omega$  and RANGE 100 (100 k) pushbuttons.

(6) Connect resistance standard (A10) to INPUT HI and LO terminals, using leads (B4 and B5).

(7) Adjust resistance standard for a 100.00-k $\Omega$  indication on TI. If resistance standard does not indicate between 99.970 (99.940) and 100.030 (100.060) k $\Omega$ , perform b(2) below.

(8) Repeat technique of (5) and (7) above, using settings listed in table 7. Resistance standard will indicate within limits specified.

### b. Adjustments

(1) Set resistance standard (A10) and resistance standard (A11) for 10 megohms. Adjust 10 MEG CAL (10 MEG) (fig. 1) until TI indicates 10.000 M $\Omega$  (R).

(2) Set resistance standard (A10) for 100.00 kilohms. Adjust K OHM CAL (K OHMS) (fig. 1) until TI indicates 100.00 k $\Omega$  (R).

Table 7. Resistance Check

Test instrument		Resistance standard (A10) indications (k $\Omega$ )	
RANGE pushbuttons	Indications (k $\Omega$ )	Min	Max
1 (1 k)	1.0000	0.9997 (0.9994)	1.0003 (1.0006)
10 (10 k)	10.000	9.997 (9.994)	10.003 (10.006)
1000 (1 M)	1000.0 (1.0000 M $\Omega$ )	999.7 (999.4)	1000.3 (1000.6)

## 13. Final Procedure

**a.** Deenergize and disconnect all equipment and reinstall TI protective cover.

**b.** When all parameters are within tolerance, annotate and affix DA Label 80 (US Army Calibrated Instrument). When the TI receives limited or special calibration, annotate and affix DA Label 163 (US Army

Limited or Special Calibration). When the TI cannot be adjusted within tolerance, repair the TI in accordance with the maintenance manual. When repair is delayed for any reason or the TI cannot be repaired with local resources, annotate and affix DA Form 2417 (US Army Calibration System Rejected Instrument) and inform the owner/user accordingly in accordance with TB 750-25-1.