

8. Dc Voltage**a. Performance Check**

(1) Connect dc voltage standard (A6) to INPUT HI and LO terminals, using leads (B4 and B5).

(2) Adjust dc voltage standard for a 1.0000-V indication on TI. If dc voltage

standard does not indicate between .9998 (.9997) and 1.0002 (1.0003) V, perform b below.

(3) Repeat technique of (2) above, using settings listed in table 4. If dc voltage standard does not indicate within limits specified, perform corresponding adjustments in table 4.

Table 4. Dc Voltage Accuracy

Test instrument		Dc voltage standard indications (V)		Adjustments (fig. 1) (R)
RANGE pushbuttons	Indications (V)	Min	Max	
100 mV ¹	.1000	0.09993	0.10007	DC 100 MV
1 ²	-1.0000	(0.9997) 0.9998	(1.0003) 1.0002	-DCV CAL (-DCV)
1	0.1000	0.09989	0.10011	----
10	10.000	9.998	10.002	10 V CAL
100	100.00	99.98	100.02	100 V CAL (INPUT DIV)
1000	1000.0	999.8	1000.2	1 KV CAL

¹Model 8120A only.

²Reverse polarity for this check only, then return to positive.

b. Adjustments. Adjust dc voltage standard for a 1.0000 V output. Adjust +DC V CAL (+DCV) (fig. 1) until TI indicates 1.000 V (R).

9. Dc Current (Model 8120A)**a. Performance Check**

(1) Press FUNCTION MA-DC and RANGE 1 pushbuttons.

(2) Connect equipment as shown in figure 2.

(3) Set dc current shunt (A4) range plugs to .001 A.

(4) Adjust dc voltage standard (A6) and decade resistor (A7) to obtain a 1.0000 mA indication on TI. If differential voltmeter (A8) does not indicate between 99.88 and 100.12 mV, perform b below.

(5) Repeat technique of (3) and (4) above, using settings listed in table 5. Differential voltmeter will indicate between 99.88 and 100.12 mV at each setting.

b. Adjustments. Adjust dc voltage standard and decade resistor for a 10.000 mV indication on differential voltmeter. Adjust MA (fig. 1) until TI indicates 1.0000 MA (R).