

# Manual Supplement

Manual Title: 752A  
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This supplement contains information necessary to ensure the accuracy of the above manual. Enter the corrections in the manual if either one of the following conditions exist:

1. The revision letter stamped on the indicated PCA is equal to or higher than that given with each change.
2. No revision letter is indicated at the beginning of the change.

## Change #1

On page 4-2, add the following sentence to the end of paragraph 4-8:

The 752A must be returned to the factory for this service.

On page 4-11, following paragraph 4-47, add:

*Note*

*Problems involving shifts in resistor values or unstable resistor values that can not be compensated, require the 752A to be returned to the factory for repair. This is due to the matching requirements for all four modules and the Bridge and Compensation board.*

On pages 5-3 and 5-4, Table 5-1:

Change: A1IRESISTOR MODULES, MATCHED ASSEMBLY  
 IModule Exchange RecommendedI1  
 To: A1IRESISTOR MODULES, MATCHED ASSEMBLY  
 IFactory Maintenance RecommendedI1  
 Delete: MP42I....

## Change #2

On page 1-2, Table 1-2, under the POWER COEFFICIENT EFFECT ON RATIO\*\*\*,

Change: 10:1 Ratio .....<0.05 ppm of input @ 100V  
 To: 10:1 Ratio .....<0.05 ppm of output @ 100V  
 Change: 100:1 Ratio .....<0.3 ppm of input @ 1000V  
 To: 100:1 Ratio .....<0.3 ppm of output @ 1000V

## Change #3

On page 2-4, replace the note prior to paragraph 2-22, with:

*Note*

*To minimize noise effects in 0.1 and 1V settings, the Null Detector is configured in opposite polarity.*

## Change #4

On page 2-4, replace Figure 2-2, with Figure 1.

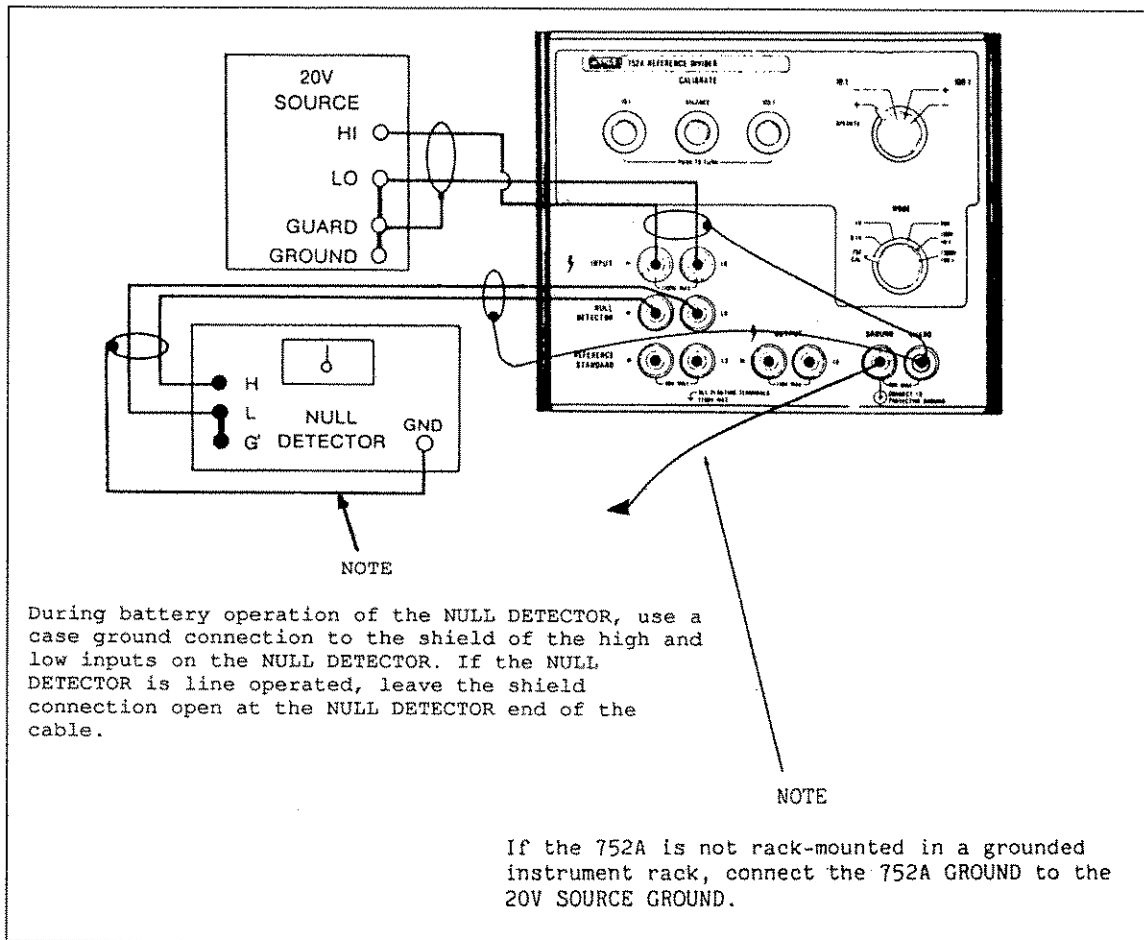
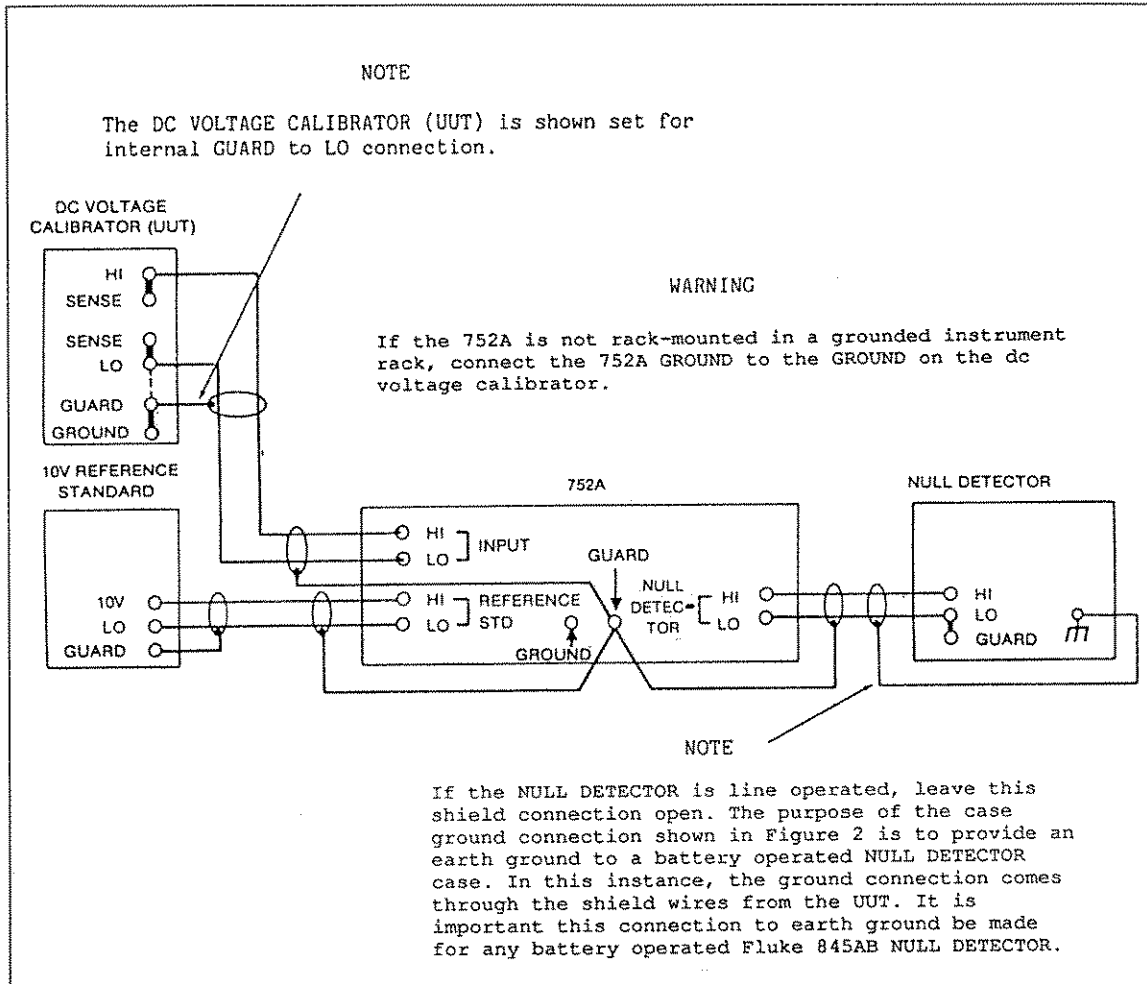


Figure 1.

752a\_fig1.bmp

On page 2-6, replace Figures 2-4 and 2-5 with Figures 2 and 3 respectively.



752a\_fig2.bmp

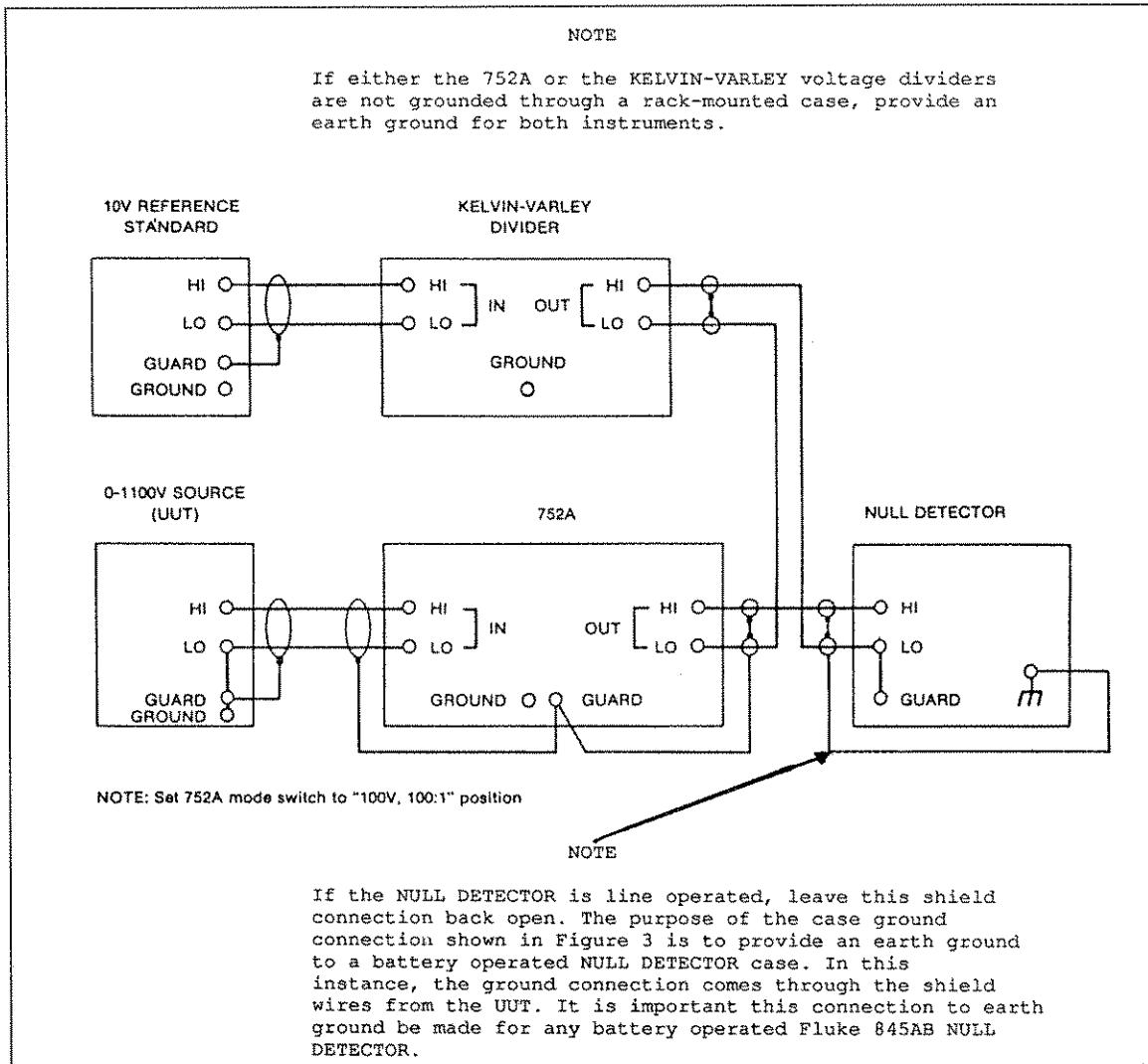
Figure 2.

*Note*

*If either the 752A or the KELVIN-VARLEY voltage dividers are not grounded through a rack-mounted case, provide an earth ground for both instruments.*

*Note*

*If the NULL DETECTOR is line operated, leave this shield connection back open. The purpose of the case ground connection shown in Figure 3 is to provide an earth ground to a battery operated NULL DETECTOR case. In this instance, the ground connection comes through the shield wires from the UUT. It is important this connection to earth ground be made for any battery operated Fluke 845AB NULL DETECTOR.*



752a\_fig3.bmp

Figure 3.

## Change #5

On page 1-2, Table 1-2,

Change:	Input Voltage	To:	Input Voltage
	100V		0 -100V
	1000V		0 -1000V

## Change #6

On page 4-7, after paragraph 4-31, add the following procedure:

4-31a. LEAKAGE RESISTANCE TEST PROCEDURE

4-31b. Perform the following procedure to prevent ratio errors caused by leakage. It is recommended that this procedure be done annually. Refer to Figure 4 for equipment connections.

1. Place the 752A on a sheet of dielectric. Use teflon insulated wires to connect the 1000V source to the 752A and 845AB. Connect a 1.1 megohm resistor across the 845AB input terminals to bring the input resistance to 1 megohm.
2. Connect the 1000V source to the 752A Input High binding post.
3. Connect the 845AB positive (+) input to the 752A Guard binding post.
4. Connect the 845AB negative (-) input to the 1000V source negative output binding post.
5. Set the 752A switches as follows:  
 Mode switch-----Set to "1000V (100:1)" position.  
 Operate switch-----Set to "OPERATE" position.
6. Apply 1000V from the source.
7. The 845AB reading must be 0.5 mV or less to pass.
8. Set the source to standby and change the 845AB positive input lead from the 752A Guard binding post to the 752A Ground binding post.
9. Repeat steps 6 and 7.

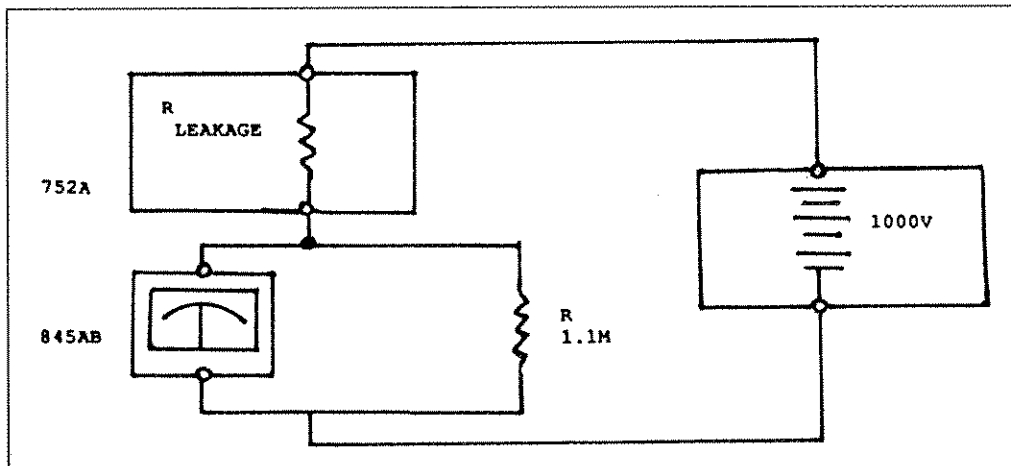


Figure 4. Equipment Connections For Leakage Resistance Test

752a\_fig4.bmp

## Change #7

On page 5-4,

Change: MP43INON-ACTIVATED FLUX SOLDER|713214|89536|713214|1

To: MP43ISOLDER,36IN LENGTH OF961480 FOR 752A |713222|89536|713222|1

## Change #8 - 25693

On page 5-3, Table 5-1,

Delete: H9|WASHER,FLAT|312538|89536|312538|1

On page 5-7, Figure 5-1, delete H9.

### Change #9 - 28667

On page 5-3, Table 5-1,

Add: H22IWASHER,FLAT,BRASS,#8,0.32 THK I631606I86928I5714-162-32I20

H23INUT,HEX,BR,8-32 I631614I73734I631614 I10

H24IB-P-WASHER I606293I89536I606293 I10

On page 5-5, Figure 5-1, add H22, H23, and H24 as shown in Figure 5.

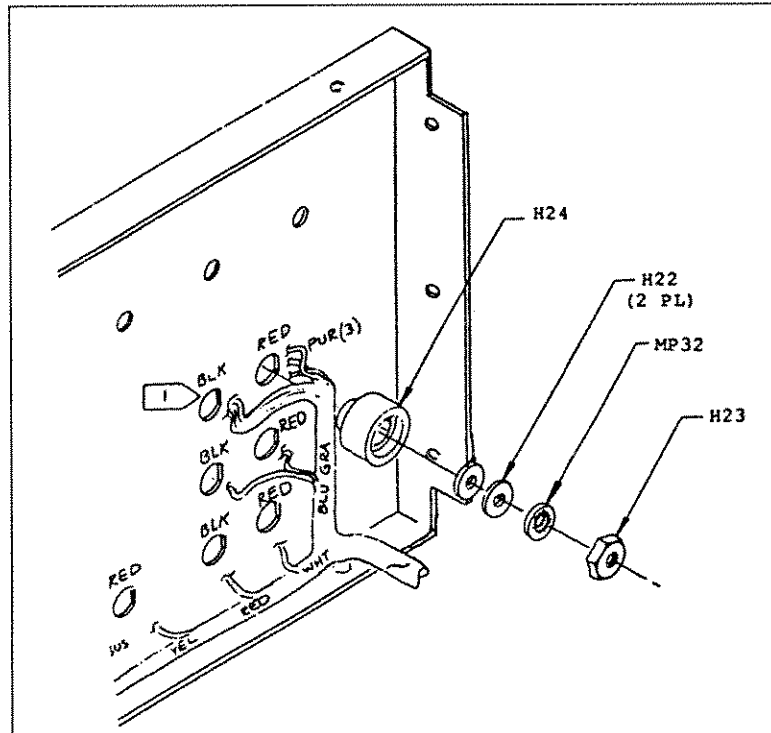


Figure 5.

752a\_fig5.bmp

### Change #10 - 32973

On page 5-5, Figure 5-1, change the view of H4 as shown in Figure 6.

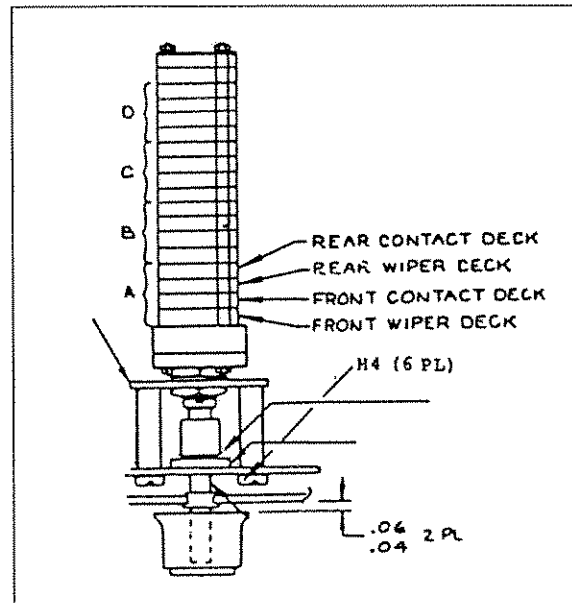


Figure 6.

752a-fig6.bmp

## Change #11 - 33030

On page 5-4, Table 5-1,

Change S1|SWITCH ASSEMBLY,MODE|644963|89536|644963|1  
 To: S1|SWITCH ASSEMBLY,MODE|856174|89536|856174|1

Change: S2|SWITCH ASSEMBLY,CALIBRATE|644971|89536|644971|1  
 To: S2|SWITCH ASSEMBLY,CALIBRATE|856166|89536|856166|1

## Change #12 - 33747

On page 5-3, Table 5-1,

Add: H21|WASHER,LOCK,INTERNAL|129957|78189|1220-05|1

On page 5-5, Figure 5-1, add H21 as shown in Figure 7.



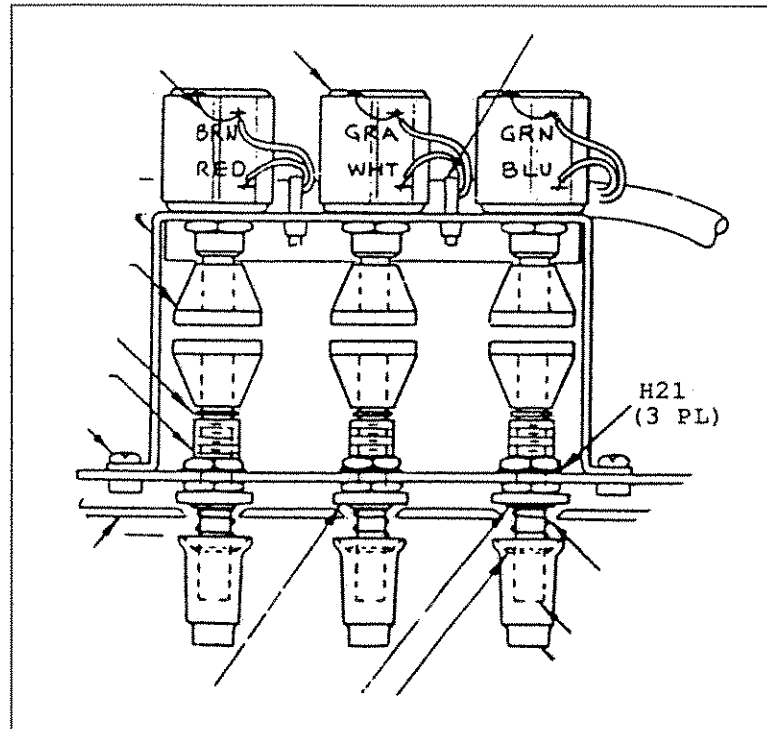


Figure 7.

752a\_fig7.bmp

## Change #13 - 38450

On pages 5-3 and 5-4, Table 5-1,

Change: MP15|TRIM,SIDE |642298|89536|642298|2  
 To: MP15|SIDE EXTRUSION|859947|89536|859947|2

Change: MP16|INSERT,SIDE TRIM|642306|89536|642306|1  
 To: MP16|INSERT,SIDE TRIM|859942|89536|859942|1

Change: MP19|ADHESIVE,SIDE TRIM|680850|89536|680850|1  
 To: MP19|ADHESIVE,SIDE TRIM|698316|22670|698316|1

## Change #14

On page 1-2, under TEMPERATURE AND HUMIDITY,

Change: 95 +/-5%	To: <95
80 +/-5%	<80
75 +/-5%	<75
45 +/-5%	<45