

Manual Supplement

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|----------------|-------------------------|-------------------|-------|
| Manual Title: | 80 Series V Calibration | Supplement Issue: | 4 |
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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 16, Table 13, add the following:

| | |
|---------------|-------------------------------------|
| F8-Err | Invalid model. Have Meter serviced. |
| OPEn | Open thermocouple is detected. |

Change #2, 39785

On page 8, Table 11, replace the Diode row with the following:

| | | | | |
|----------|------------|------------|------------|----------------|
| → | 1000 V rms | < 7.9 V dc | 3.000 V dc | 1.0 mA typical |
|----------|------------|------------|------------|----------------|

Change #3, 41206, 48958

On page 5, replace Table 2 with the following:

Table 2. Model 87 AC Voltage Function Specifications

| Function | Range | Resolution | Accuracy | | | | | | |
|------------------------------|----------|--------------------|---------------|-------------------------------------|---------------|----------------|-------------|---------------------------|----------------|
| | | | 45 – 65 Hz | 30 – 200 Hz | 200 – 440 Hz | 440 Hz - 1 kHz | 1 - 5 kHz | 5 - 20 kHz ^[1] | |
| \tilde{V} ^[2,4] | 600.0 mV | 0.1 mV | ± (0.7 % + 2) | | ± (1.0 % + 4) | | | ± (2.0 % + 4) | ± (2.0 % + 20) |
| | 6.000 V | 0.001 V | | | | | | | |
| | 60.00 V | 0.01 V | | | | | | | |
| | 600.0 V | 0.1 V | | | | | | | |
| | 1000 V | 1 V | | | | | | | |
| Low pass filter | | Same as 45 - 65 Hz | ± (1.0 % + 4) | +1 % + 4 -6 % - 4 ^[5] | unspecified | unspecified | unspecified | unspecified | |

[1] Below 10 % of range, add 12 counts.
 [2] The Meter is a true rms responding meter. When the input leads are shorted together in the ac functions, the Meter may display a residual reading between 1 and 30 counts. A 30 count residual reading will cause only a 2-digit change for readings over 3 % of range. Using REL to offset this reading may produce a much larger constant error in later measurements.
 [3] Frequency range: 1 kHz to 2.5 kHz.
 [4] A residual reading of up to 13 digits with leads shorted, will not affect stated accuracy above 3 % of range.
 [5] Specification increases from -1% at 200 Hz to -6% at 440 Hz when filter is in use.

Change #4

On page 19, Table 14, combine steps 47 and 48 and add footnote 7:

| Step | Test Function | Range | 5500A output | Display Reading | |
|------|---|--------|---|------------------------|------------------------|
| | | | | 83 and 88 | 87 |
| 47 | (87 and 88 only) ⁷ Peak Min/Max | 6 V dc | 8 Vpp, 2 kHz Sq. Wave, DC offset 2 V | Max = 5.893 to 6.107 | Max = 5.896 to 6.104 |
| | | | | Min = -1.897 to -2.103 | Min = -1.898 to -2.102 |

7. The Fluke-83 V does not have a Peak Min/Max function.