

# Manual Supplement

Manual Title:	175, 177 & 179 Calibration Supplement	Issue:	<b>2</b>
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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

Replace the entire **Lifetime Limited Warranty** located on page 19 with the following:

### **LIFETIME LIMITED WARRANTY**

Each Fluke 20, 70, 80, 170 and 180 Series DMM will be free from defects in material and workmanship for its lifetime. As used herein, "lifetime" is defined as seven years after Fluke discontinues manufacturing the product, but the warranty period shall be at least ten years from the date of purchase. This warranty does not cover fuses, disposable batteries, damage from neglect, misuse, contamination, alteration, accident or abnormal conditions of operation or handling, including failures caused by use outside of the product's specifications, or normal wear and tear of mechanical components. This warranty covers the original purchaser only and is not transferable.

For ten years from the date of purchase, this warranty also covers the LCD. Thereafter, for the lifetime of the DMM, Fluke will replace the LCD for a fee based on then current component acquisition costs.


To establish original ownership and prove date of purchase, please complete and return the registration card accompanying the product, or register your product on <http://www.fluke.com>. Fluke will, at its option, repair at no charge, replace or refund the purchase price of a defective product purchased through a Fluke authorized sales outlet and at the applicable international price. Fluke reserves the right to charge for importation costs of repair/replacement parts if the product purchased in one country is sent for repair elsewhere.

If the product is defective, contact your nearest Fluke authorized service center to obtain return authorization information, then send the product to that service center, with a description of the difficulty, postage and insurance prepaid (FOB Destination). Fluke assumes no risk for damage in transit. Fluke will pay return transportation for product repaired or replaced in-warranty. Before making any non-warranty repair, Fluke will estimate cost and obtain authorization, then invoice you for repair and return transportation.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, ARISING FROM ANY CAUSE OR THEORY. AUTHORIZED RESELLERS ARE NOT AUTHORIZED TO EXTEND ANY DIFFERENT WARRANTY ON FLUKE'S BEHALF. Since some states do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you. If any provision of this warranty is held invalid or unenforceable by a court or other decision-maker of competent jurisdiction, such holding will not affect the validity or enforceability of any other provision.

## Change # 2

On page 3, under General Specifications, replace the following with:

**Certifications:** CSA, TÜV (EN61010), CE  (N10140) UL (3111)

On page 11, under Table 2, change the 5520 Output,

From: 1000 V 45 kHz

To: 1000 V 45 Hz

Replace page 12, with the following:

Table 2. Performance Tests 175 (continued)

Test (Switch Position)	5520 Output	Meter Response	
		Lower Limit	Upper Limit
$\overline{V}$ DC Volts	3 V	2.993 V DC	3.007 V DC
	300 V	299.3 V DC	300.7 V DC
	1000 V	-1004 V DC	-996 V DC
	-1000 V	-996 V DC	-1004 V DC
* Hz Frequency	1 V 45 Hz	44.94 Hz	45.06 Hz
	1 V 2 kHz	1.997 kHz	2.003 kHz
	1.5 V 20 kHz	19.97 kHz	20.03 kHz
	5 V 50 kHz	49.94 kHz	50.06 kHz
E Millivolts DC	0.03 V 0 Hz	29.8 mV DC	30.2 mV DC
	-0.3 V	-300.7 mV DC	-299.3 mV DC
	0.6 V	598.9 mV DC	601.1 mV DC
	1.5 V 20 kHz	19.97 kHz	20.03 kHz
	5 V 50 kHz	49.94 kHz	50.06 kHz
))) Continuity	25 $\Omega$	Beeper On	
	250 $\Omega$	Beeper Off	
$\Omega$ Ohms <sup>2</sup>	19 $\Omega$	18.6 $\Omega$	19.4 $\Omega$
	19000000 $\Omega$	18.68 M $\Omega$	19.32 M $\Omega$
$\rightarrow$ Diode <sup>1</sup>	Apply 2.0 V	1.978 V DC	2.022 V DC
$\leftarrow$ Capacitance <sup>1</sup>	Apply 0.90 $\mu$ F	887 nF	913 nF
$\tilde{A}$ Amps AC	4.0 A 45 Hz	3.937 A AC	4.063 A AC
	9.0 A 1 kHz	8.83 A AC	9.17 A AC
$\Phi$ AC Milliamps	0.003 A 45 Hz	2.92 mA AC	3.08 mA AC
	0.05 A 1 kHz	49.22 mA AC	50.78 mA AC
	0.4 A 1 kHz	393.7 mA AC	406.3 mA AC
mI DC Milliamp <sup>1</sup>	0.003 A, 0 Hz	2.94 mA DC	3.06 mA DC
	0.05 A	49.47 mA DC	50.53 mA DC
	0.4 A	-404.3 mA DC	-395.7 mA DC
$\overline{A}$ DC Amps <sup>1</sup>	4.0 A	3.957 A DC	4.043 A DC
	-9.0 A	-9.12 A DC	-8.88 A DC

1. Press the YELLOW button to access this function.

2. Does not include test lead resistance.

On page 13, Table 3, change the DC Volts –1000V,

To:

$\bar{V}$ DC Volts	–1000 V	–1003 V	–997 V DC
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On page 14, Table 4, change the DC Milliamp<sup>1</sup> –0.4 A,

To:

<b>mI</b> DC Milliamp <sup>1</sup>	–0.4 A	–404.3 mA DC	–395.7 mA DC
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### Change #3

On page 4, under the **AC Volts, Model 179**,

Change: (45 Hz to 500 kHz)

To: (45 Hz to 500 Hz)