Manual Supplement

Manual Title:	80 Series V Calibration	Supplement Issue:	7	
Part Number:	2102915	Issue Date:	4/13	
Print Date:	September 2004	Page Count:	3	
Revision/Date	•	Fage Count.	5	

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	lution Accuracy						
			45 – 65 Hz	30 – 200 Hz	200 – 440 Hz	440 Hz - 1 kHz	1 - 5 kHz	5 - 20 kHz ^[1]	
v ^[2,4]	600.0 mV	0.1 mV	± (0.7 % + 4)						
•	6.000 V	0.001 V			± (2.0 % + 4) ± (2.0 % + 20				
	60.00 V	0.01 V		± (1.0 % + 4)					
	600.0 V	0.1 V	± (0.7 % + 2)		± (2.0 % + 4) [
	1000 V	1 V						unspecified	
		Same as 45 - 65 Hz	± (1.0 % + 4)	+1 % + 4 -6 % - 4 ^[5]	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, 58804, 62912, 64090

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

Step	Test Function	Range	Range 5500A output Display		Reading		
		83 and 88 87					
47	$\overline{\overline{\mathbf{v}}}(87 \text{ and } 88 \text{ only})^7$	6 V dc	6 Vpp, 2 kHz Sq. Wave,	Max = 3.895 to 4.105	Max = 3.897 to 4.103		
47	Peak Min/Max		DC offset 1 V	Min = -1.897 to -2.103	Min = -1.898 to -2.102		
7. The F	7. The Fluke-83 V does not have a Peak Min/Max function.						

On page 4, replace Table 1 with:

~	AC (Alternating Current)	Ŧ	Earth ground		
	DC (Direct Current)	₽	Fuse		
Δ	Hazardous voltage. Risk of electric shock.	CE	Conforms to European Union directives.		
▲	Risk of Danger. Important information. See Manual.	C Set was	Conforms to relevant North American Association directives.		
e	Battery. Low battery when displayed.		Double insulated		
u)))	Continuity test or continuity beeper tone.	-14-	Capacitance		
K.	Conforms to relevant South Korean EMC Standards.		Inspected and licensed by TÜV Product Services.		
CAT II	Measurement Category II is applicable to test and measuring circuits connected directly to utilization points (socket outlets and similar points) of the low-voltage MAINS installation.				
CAT III	Measurement Category III is applicable to test and measuring circuits connected to the distribution part of the building's low-voltage MAINS installation.				
CAT IV	Measurement Category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation.				

Under *General Specifications*, delete the **Electromagnetic Compatibility** and **Safety** and add the following:

SafetyIEC	C 61010-1: 600 V CAT IV / 1000V CAT III, Pollution Degree 2
Electromagnetic EnvironmentIEC	C 61326-1: Portable
	plies to use in Korea only Class A Equipment (Industrial badcasting & Communication Equipment) ^[1]
[1]	This product meets requirements for industrial (Class A) electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business

On page 5, under *Detailed Specifications*, prior to Table 2 add:

All ranges unless otherwise noted: In an RF field of 3 V/m total accuracy = specified accuracy + 20 counts, except 600 μ A dc range total accuracy = specified accuracy + 60 counts. Temperature not specified. Some mobile devices that transmit RF energy may transmit levels that far exceed 3 V/m and may damage sensitive electronic circuits. To insure the best performance, do not allow a device that is transmitting RF energy in excess of 3 V/m to be within 30 cm of the meter while in use.

environments and is not to be used in homes.

On page 27, Table 17, replace the TM1 with the following, and delete both TM3s:

TM1	80 Series V Safety Information (Multi-language)	4271753	1
-----	-------------------------------------------------	---------	---

On page 28, replace Figure 8 with:

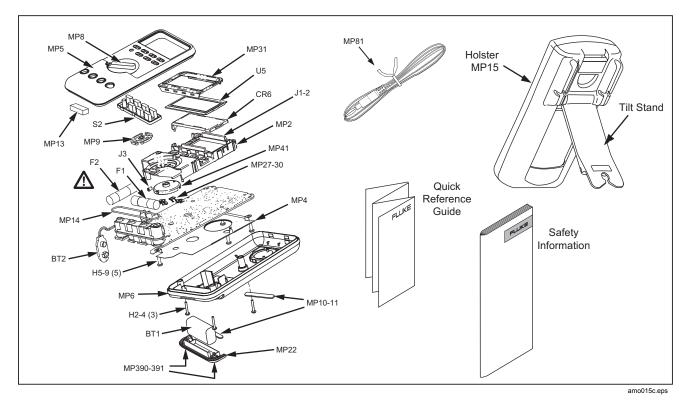


Figure 8. 80 Series V Final Assembly