Manual Supplement

Manual Title:	5820A Service	Supplement Issue:	**5**
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This supplement contains information necessary to ensure the accuracy of the above manual.

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Change #1

On page 3-54, Table 3-23, delete the 8th row of the table.

Change #2

On page 3-3, under ***Equipment Required for Calibration and Verification,*** add the following:

Calibration can be completed as far as deriving and printing the proposed adjustments without changing the setting of the rear panel CALIBRATION switch; however, the switch must be set to ENABLE to store the changes in nonvolatile memory and make them effective. The switch is recessed to allow the metrologist to cover it with a calibration sticker to guarantee calibrator integrity.

Change #3

On the **Safety Information** page, under **USE THE PROPER FUSE** replace both bullets with following:

- For 100 V or 120 V operation, use a 2A/250V time delay fuse (Fluke PN 109181).
- For 220 V or 240 V operation, use a 1A/250V time delay fuse (Fluke PN 109272).

Change #4

On page 3-32, Table 3-15 replace the **Tolerance** column with the following:

Tolerance
330 E-6
3.3 E-3
33 E-3
330 E-3
3.3

Change #5

On page 3-24, replace Table 3-7 with:

Table 3-7. AC Voltage Amplitude Verification

Calibrator Mainframe Output (1 kHz)	HP/Agilent 3458A Range	Topline Reading	Baseline Reading	Peak-to-Peak ($V_{Topline}$ - $V_{Baseline}$)	Tolerance (±V)
1 mV	100 mVDC				5.5 µV
-1 mV	100 mVDC				5.5 µV
10 mV	100 mVDC				10 µV
-10 mV	100 mVDC				10 µV
25 mV	100 mVDC				17.5 µV
-25 mV	100 mVDC				17.5 µV
110 mV	100 mVDC				60 µV
-110 mV	100 mVDC				60 µV
500 mV	1 VDC				255 µV
-500 mV	1 VDC				255 µV
2.2 V	10 VDC				1.11 mV
-2.2 V	10 VDC				1.11 mV
6.6 V	10 VDC				3.31 mV
-6.6 V	10 VDC				3.31 mV
11 V	10 VDC				5.51 mV
-11 V	10 VDC				5.51 mV
130	1000 VDC				65 mV
-130	1000 VDC				65 mV

On page 3-25, replace Table 3-8 with:

Table 3-8. AC Voltage Verification at 50 Ω

Calibrator Mainframe Output (1 kHz)	HP/Agilent 3458A Range	Topline Reading	Baseline Reading	Peak-to-Peak ($V_{Topline}$ - $V_{Baseline}$)	Tolerance (±V)
1 mV	100 mVDC				42.5 µV
-1 mV	100 mVDC				42.5 µV
10 mV	100 mVDC				65 µV
-10 mV	100 mVDC				65 µV
25 mV	100 mVDC				103 µV
-25 mV	100 mVDC				103 µV
110 mV	100 mVDC				315 µV
-110 mV	100 mVDC				315 µV
500 mV	1 VDC				1.29 mV
-500 mV	1 VDC				1.29 mV
2.2 V	10 VDC				5.54 mV
-2.2 V	10 VDC				5.54 mV
6.6 V	10 VDC				16.54 mV
-6.6 V	10 VDC				16.54 mV

On page 5-26, replace Table 5-20 with:

Table 5-20. AC Voltage 1MΩ

Channel	Calibrator Mainframe Output (1 kHz)	HP/Agilent 3458A Range	Topline Reading	Baseline Reading	Peak-to-Peak ($V_{Topline}$ - $V_{Baseline}$)	Tolerance (±V)
2	1 mV	100 mVDC				5.5 µV
2	-1 mV	100 mVDC				5.5 µV
2	10 mV	100 mVDC				10 µV
2	-10 mV	100 mVDC				10 µV
2	25 mV	100 mVDC				17.5 µV
2	-25 mV	100 mVDC				17.5 µV
2	110 mV	100 mVDC				60 µV
2	-110 mV	100 mVDC				60 µV
2	500 mV	1 VDC				255 µV
2	-500 mV	1 VDC				255 µV
2	2.2 V	10 VDC				1.11 mV
2	-2.2 V	10 VDC				1.11 mV
2	6.6 V	10 VDC				3.31 mV
2	-6.6 V	10 VDC				3.31 mV
2	11 V	10 VDC				5.51 mV
2	-11 V	10 VDC				5.51 mV
2	130	1000 VDC				65 mV
2	-130	1000 VDC				65 mV

On page 5-27, replace Table 5-24 with:

Table 5-24. AC Voltage 1MΩ

Channel	Calibrator Mainframe Output (1 kHz)	HP/Agilent 3458A Range	Topline Reading	Baseline Reading	Peak-to-Peak ($V_{Topline}$ - $V_{Baseline}$)	Tolerance (±V)
3	1 mV	100 mVDC				5.5 µV
3	-1 mV	100 mVDC				5.5 µV
3	10 mV	100 mVDC				10 µV
3	-10 mV	100 mVDC				10 µV
3	25 mV	100 mVDC				17.5 µV
3	-25 mV	100 mVDC				17.5 µV
3	110 mV	100 mVDC				60 µV
3	-110 mV	100 mVDC				60 µV
3	500 mV	1 VDC				255 µV
3	-500 mV	1 VDC				255 µV
3	2.2 V	10 VDC				1.11 mV
3	-2.2 V	10 VDC				1.11 mV
3	6.6 V	10 VDC				3.31 mV
3	-6.6 V	10 VDC				3.31 mV
3	11 V	10 VDC				5.51 mV
3	-11 V	10 VDC				5.51 mV
3	130	1000 VDC				65 mV
3	-130	1000 VDC				65 mV

On page 5-28, replace Table 5-28 with:

Table 5-28. AC Voltage 50 Ω

Channel	Calibrator Mainframe Output (1 kHz)	HP/Agilent 3458A Range	Topline Reading	Baseline Reading	Peak-to-Peak ($V_{Topline}$ - $V_{Baseline}$)	Tolerance (±V)
4	1 mV	100 mVDC				42.5 µV
4	-1 mV	100 mVDC				42.5 µV
4	10 mV	100 mVDC				65 µV
4	-10 mV	100 mVDC				65 µV
4	25 mV	100 mVDC				103 µV
4	-25 mV	100 mVDC				103 µV
4	110 mV	100 mVDC				315 µV
4	-110 mV	100 mVDC				315 µV
4	500 mV	1 VDC				1.29 mV
4	-500 mV	1 VDC				1.29 mV
4	2.2 V	10 VDC				5.54 mV
4	-2.2 V	10 VDC				5.54 mV
4	6.6 V	10 VDC				16.54 mV
4	-6.6 V	10 VDC				16.54 mV

On page 5-29, replace Table 5-32 with:

Table 5-32. AC Voltage 1MΩ

Channel	Calibrator Mainframe Output (1 kHz)	HP/Agilent 3458A Range	Topline Reading	Baseline Reading	Peak-to-Peak ($V_{Topline}$ - $V_{Baseline}$)	Tolerance (±V)
5	1 mV	100 mVDC				5.5 µV
5	-1 mV	100 mVDC				5.5 µV
5	10 mV	100 mVDC				10 µV
5	-10 mV	100 mVDC				10 µV
5	25 mV	100 mVDC				17.5 µV
5	-25 mV	100 mVDC				17.5 µV
5	110 mV	100 mVDC				60 µV
5	-110 mV	100 mVDC				60 µV
5	500 mV	1 VDC				255 µV
5	-500 mV	1 VDC				255 µV
5	2.2 V	10 VDC				1.11 mV
5	-2.2 V	10 VDC				1.11 mV
5	6.6 V	10 VDC				3.31 mV
5	-6.6 V	10 VDC				3.31 mV
5	11 V	10 VDC				5.51 mV
5	-11 V	10 VDC				5.51 mV
5	130	1000 VDC				65 mV
5	-130	1000 VDC				65 mV