

Manual Supplement

Manual Title: 5320A Service
Print Date: October 2008
Revision/Date:

Supplement Issue: 8
Issue Date: 7/19
Page Count: 3

This supplement contains information necessary to ensure the accuracy of the above manual. This manual is distributed as an electronic manual on the following CD-ROM:

CD Title:	5320A
CD Rev. & Date:	2, 1/09
CD PN:	2634346

Change #1

On page 3-39, replace **Table 3-19** with the following:

Table 3-19. High Test Current Ground Bond Source Limits

Nominal Value	Required Standard Calibrator/Multimeter Current/Voltage Uncertainty	DC Test Current	R_{gbr}	Lower Limit ^[1]	Upper Limit ^[1]
25 mΩ	± 0.5%	20 A		$R_{disp} - 5 \text{ m}\Omega$	$R_{disp} + 5 \text{ m}\Omega$
50 mΩ	± 0.2 %	10 A		$R_{disp} - 5 \text{ m}\Omega$	$R_{disp} + 5 \text{ m}\Omega$
100 mΩ	± 0.1 %	10 A		$R_{disp} - 5 \text{ m}\Omega$	$R_{disp} + 5 \text{ m}\Omega$
330 mΩ	± 0.1 %	5 A		$R_{disp} - 7 \text{ m}\Omega$	$R_{disp} + 7 \text{ m}\Omega$
500 mΩ	± 0.1 %	3 A		$R_{disp} - 8 \text{ m}\Omega$	$R_{disp} + 8 \text{ m}\Omega$
1 Ω	± 0.1 %	2 A		$R_{disp} - 10 \text{ m}\Omega$	$R_{disp} + 10 \text{ m}\Omega$
1.8 Ω	± 0.1 %	2 A		$R_{disp} - 18 \text{ m}\Omega$	$R_{disp} + 18 \text{ m}\Omega$
[1] R_{disp} = Displayed Value					

Change #2

On page 3-46, **Table 3-24**, under **Frequency Test Limits**, change **Lower** and **Upper Limits**:

To:

Lower Limit (Hz)	Upper Limit (Hz)
399.92 Hz	400.08 Hz

Change #3, 50723

On page 1-7, under *Short Mode*:

Change: **Nominal resistance**.....<50 mΩ

To: **Nominal resistance**.....<100 mΩ

Change #4

On page 3-6, under **Ground Bond Resistance (and Loop/Line Impedance Resistance)** add the following Note after the first paragraph:

Note

Prior to calibrating the Ground Bond Resistance (and Loop/Line Impedance resistance) function, complete the relay cleaning procedure outlined in Section 6 of the User's Manual under 'Cleaning the Ground Bond Resistance and Loop/Line Impedance Relays.'

On page 3-21, replace steps 16 and 17 with:


16. When calibrating the 20 Amp point be sure to allow 2 minutes of settling time for temperature stabilization of the internal current shunt after the current has been applied to the 5320A. After 2 minutes press the softkey labeled **WRITE**.
17. Repeat steps 12 through 16 for all voltage calibration points listed in Table 3-8.
18. When all calibration points have been calibrated, press the softkey labeled **EXIT** to return to the calibration menu.

On page 3-23, replace step 16 with:

16. When calibrating the 20 Amp point be sure to allow 2 minutes of settling time for temperature stabilization of the internal current shunt after the current has been applied to the 5320A. After 2 minutes press the softkey labeled **WRITE**.
17. Repeat steps 12 through 16 for all AC current calibration points listed in Table 3-9.

Change #5, 449, 504

On page 1-5, add the following to the **Symbols** table:

	Conforms to relevant South Korean EMC Standards.
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On page 1-6, add the following to the **General Specifications**:

Electromagnetic Compatibility (EMC)

International..... IEC 61326-1: Basic Electromagnetic Environment

CISPR 11: Group 1, Class A

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.

Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.

Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.

Change #6, 468

On page 1-6, under **⚠ Fuse Protection**, replace the existing content with:

RCD input..... 3.15 A, 250 V, Fast (F3.15H250V – 5 mm x 20 mm)

Meter amps (A) input 20 A, 500 V, Fast (F20H500 V – 6.3 mm x 32 mm)

Loop/Line impedance input 4 A, 500 V, Time delay (T4H500 V – 6.3 mm x 32 mm)

Change #7, 501, 504

On page 1-6, under **Power Consumption**, add Measurement:

Measurement..... IEC 61010-2-030: CAT II 300 V

Remove, Safety Class, and Electrostatic Discharge and add:

Safety

Mains..... IEC 61010-1: Overvoltage Category II, Pollution Degree 2

On page 1-10, in the *Test Current Measurement* section, replace the **Range** with:

Range0 A ac to 40 A ac + dc rms. >10 A is a 30 % duty cycle; not to exceed 2 minutes.

On page 1-12, following **AC/DC Voltage Uncertainty, Current**, replace **Range** with:

Range0 A ac to 20 A ac + dc rms. >10 A at 30 % duty cycle; not to exceed 2 minutes.

Change #8, 719

On page 3-42, remove the **RCD Trip Current Verification** section, steps 1 through 10. Keep Figure 6-8.

On page 3-43, replace Table 3-22 with:

Nominal Current	Required Standard Ammeter Accuracy	Frequency	Lower Limit (mA)	Upper Limit (mA)
25 mA ac	0.2 %	Line Freq.	24.75 mA	25.25 mA
250 mA ac	0.2 %	Line Freq.	247.5 mA	252.5 mA
2500 mA ac	0.2 %	Line Freq.	2475 mA	2525 mA