

Manual Supplement

Manual Title:	i1000s Calibration	Supplement Issue:	1
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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 8, Table 4, under Recommended Model,

Replace:

Digital Multimeter	Hp 3458A or equivalent
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With:

Digital Multimeter	Agilent 3458A or equivalent
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Delete the following from Table 4,

AC/DC Shunt	IET Labs-DCCS-200	0.1 Ω - 0.1% non-inductive
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Replace the entire **Phase Shift** section, Table 5 and Figure 3 with the following:

Phase Shift Test

To check Phase Shift performance, set up the equipment as shown in Figure 3.

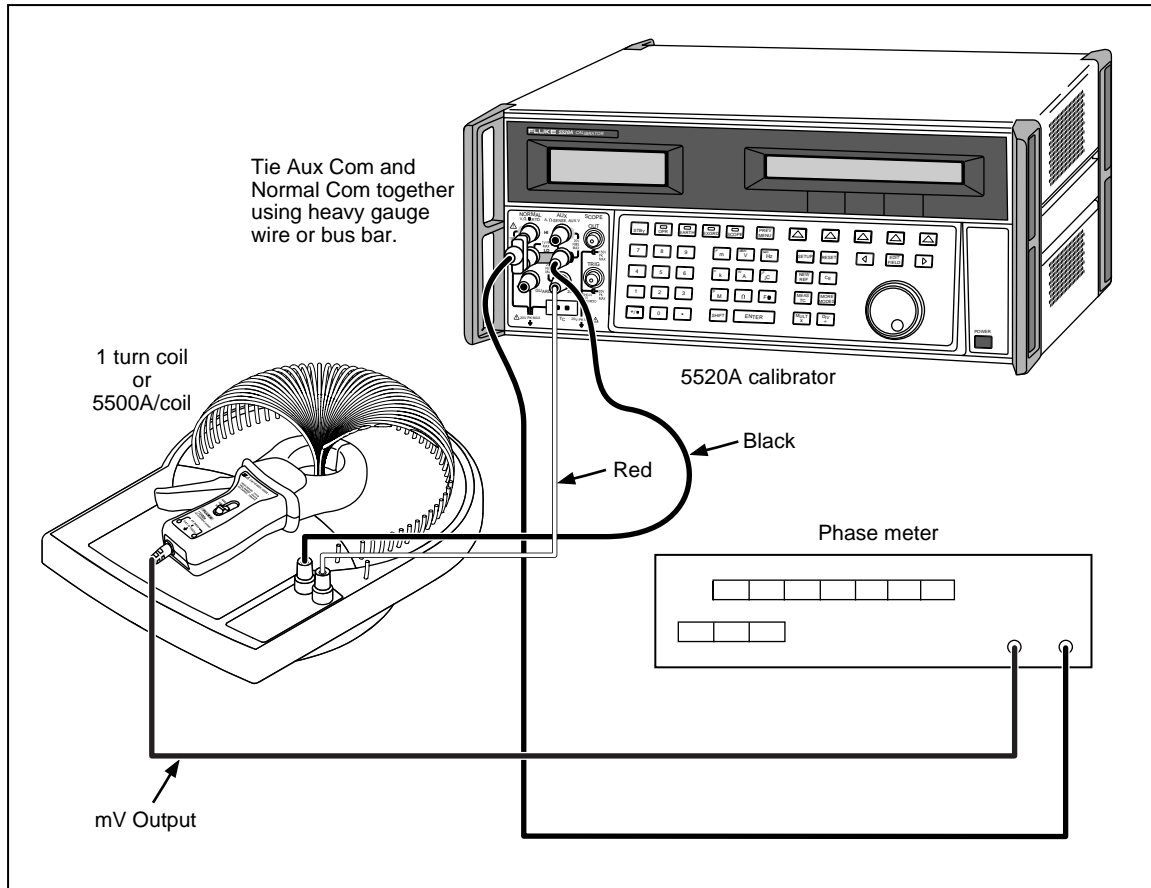
1. Center the Current Probe around the coil.
2. Set the calibrator output to 1V (phase meter reference input), 1A and 50 Hz, per step 1 of Table 5. Performance Test Steps.
3. Verify that the phase meter reading is within the "Phase in Deg" limits of Table 5.

Table 5. Performance Test Steps

Step	Coil	Range	5520A Output	5500A Coil I. Prim.	Freq.	i1000s mV Output		Phase in Deg.	
						Min.	Max.	Min.	Max.
1	50 turn	1 mV/A	1 A	50.0 A	50 Hz	48.5	51.5	-3.0	3.0
2	50 turn	1 mV/A	2 A	100 A	400 Hz	98.0	102.0	N/A	N/A
3	50 turn	1 mV/A	4 A	200 A	60 Hz	197.0	203.0	-2.0	2.0
4	50 turn*	1 mV/A	14 A	700 A	50 Hz	692.0	708.0	-2.0	2.0
5	1 turn	10 mV/A	5 A	N/A	50 Hz	44.0	56.0	-15.0	15.0
6	50 turn	10 mV/A	0.4 A	20 A	50 Hz	191.0	209.0	-10.0	10.0
7	50 turn	10 mV/A	2 A	100 A	50 Hz	975.0	1025.0	-10.0	10.0
8	1 turn	100 mV/A	0.50 A	N/A	50 Hz	38.5	61.5	N/A	N/A
9	1 turn	100 mV/A	2.00 A	N/A	50 Hz	184.0	216.0	-15.0	15.0
10	1 turn	100 mV/A	10 A	N/A	50 Hz	960.0	1040.0	-15.0	15.0

* 700 A/ 50 Hz in 1 mV/A range has a TUR of 3.3

4. Continuing to use 1V as the phase meter reference input, set the calibrator output for the remaining steps listed in Table 5. Steps 2 and 8 do not require phase tests.
5. Verify that the phase meter readings meet the "Phase in Deg" limits for each step.



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Figure 3. Phase Check Setup

mV Output Test

1. Connect the equipment as shown in Figure 5.
2. Set the calibrator output and coil for each step of Table 5.
3. Verify that the voltmeter reading is within the “i1000S mV Output” limits of Table 5.