Manual Supplement

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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:	1652C/1653B/1654B
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Change #1, 56800

On page 3, add the following bullet:

- **Do not use in CAT III or CAT IV environments without the protective cap installed. The protective cap decreases the possibility of arc flash caused by short circuits.**

On page 6, under ***Operating the Tester Using the Rotary Switch***, add the following:

⚠Warning

Do not use in CAT III or CAT IV environments without the protective cap installed. The protective cap decreases the exposed probe metal to <4mm. This decreases the possibility of arc flash from short circuits.

On page 45, under ***General Specifications***, add the following to the Safety section:

Complies with EN/IEC 61010-031:2002+A1:2008.

Change #2, 59912

On page 18, Table 8, replace row 2 with:

⏻ ⇕	Extended documentation mode. Simultaneously press the Power button and the Up cursor key (1654B only). Additional information is stored with an insulation test result (P/P, P/N, P/E, N/E) and with a continuity test result (R1+R2, R2, r1, r2, rn).

On page 20, replace the **Extended Documentation Mode section** with:

Extended Documentation Mode

In the Extended Documentation mode (1654B only), the Tester stores the measurement result with the measurement location: P/P, P/N, P/E or N/E. You can select the information before or after the measurement with (F1). The definitions are: P/P = L, P/N = L-N, P/E = L-PE, N/E = N-PE.

On page 22, replace **Extended Documentation Mode section** with:

Extended Documentation Mode

In the Extended Documentation mode (1654B only), the Tester stores the measurement result with the measurement location: R1+R2, R2, r1, r2 or rn. You can select the information before or after the measurement with (F2). The definitions are: R1+R2 = Rx1/2, R2 = R/2, r1 = x1, r2 = /2,rn = x5.

On pages 24 and 26, replace step 4 with:

4. For the 1654B only, press (F2) to select between Ω and mΩ resolution for the test results. The mΩ resolution test takes between 30 and 60 seconds to complete.

On page 29 replace the last two bullets in step 4 and the Note with:

1654B only:

- ⎓ – Smooth-DC current to test type B RCD
- ⎓ S – Delayed response to S-type B (time delayed smooth-DC current RCD)

Note

For RCD type *B* (⎓) or S-type B (⎓ S), you must test with both phase settings and measure the trip current.

On page 33, replace the last two bullets in step 3:

1654B only:

- ⎓ – Smooth-DC current to test type B RCD
- ⎓ S – Delayed response to S-type B (time delayed smooth-DC current RCD)

On page 52, replace the second Table with:

Range	Resolution	Accuracy[1]
10 Ω[2}	0.001 Ω	Hi Current mΩ mode: ±(2 % + 15 digits)
20 Ω	0.01 Ω	No Trip mode: ±(3 % + 6 digits)
		Hi Current mode: ±(2 % + 4 digits)
200 Ω	0.1 Ω	No Trip mode: ±(3 %)
		Hi Current mode: ±(2 %)
2000 Ω	1 Ω	±6 %[3]

Notes

[1] Valid for resistance of neutral circuit <20 Ω and up to a system phase angle of 30 °. Test leads must be zeroed before testing.

[2] 1654B only.

[3] Valid for mains voltage >200 V.