

Manual Supplement

Manual Title:	741B/743B Users	Supplement Issue:	7
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This supplement contains information necessary to ensure the accuracy of the above manual.

Change #1

On page 76, replace step 24 and delete step 25.

24. Exercise the switch by varying the applied pressure. Adjust the switch until the set point is correct.

On page 111, change **Type E**, third entry,

From:	-200 to -100	0.5	0.8	0.3	0.4
To:	-100 to 600	0.3	0.4	0.3	0.4

On page 114, change the **Range** on the 120 Ω Ni(672) Type,

From:	-200 to 260
To:	-80 to 260

On page 115, change the **Range** on the 100 Ω Pt(3916) Type,

From:	0 to 360
To:	0 to 630

Change#2

On page 97, under Calibration Data, replace the first sentence with:

The date the calibrator was last calibrated shows on the calibration sticker. The date the calibrator was last adjusted is shown on the last screen in Setup mode.

Change #3

On page 115, at the bottom of the table, change the following,

From: **Maximum Input Current for RTD Source:** 10 Ω RTDs: 8 mA dc; 100 Ω – 120 Ω RTDs: 3 mA dc; 200 Ω - 1000 Ω RTDs: 1 mA dc

To: **Maximum Input Current for RTD Source:** 10 Ω RTDs: 8 mA dc; 100 Ω – 120 Ω RTDs: 8 mA dc; 200 Ω - 1000 Ω RTDs: 1 mA dc

Change #4, 45267

On page 110, replace the bottom portion of the **Frequency Sourcing** table with the following:

Waveform Choices: Zero-symmetric sine or positive square wave, 50 % duty cycle.

Amplitude: 0.1 to 10 V pk (square wave, 0 V reference)

0.1 to 10 V p-p (sinewave)

Amplitude Accuracy: S/N 9095999 or earlier:

0 Hz to 1099 Hz: 3 % of output + 0.5 % f.s.

1.1 kHz to 10.9 kHz: 10 % of output + 0.5 % f.s.

11 kHz to 50 kHz: 30 % of output + 0.5 % f.s.

Amplitude Accuracy: S/N 9096000 or later:

0 Hz to 50 kHz: 30 % of output + 0.5 % f.s.

Maximum Input Voltage: 30 V dc

Change #5, 53389

On page 4, under **Standard Equipment**, change the following:

From: BP7217 rechargeable nickel-cadmium battery pack
BC7210 battery charger with Instruction Sheet

To: BP7235 rechargeable nickel-metal hydride battery pack
BC7217 battery charger with Instruction Sheet

On page 6, replace Figure 1, with the following:

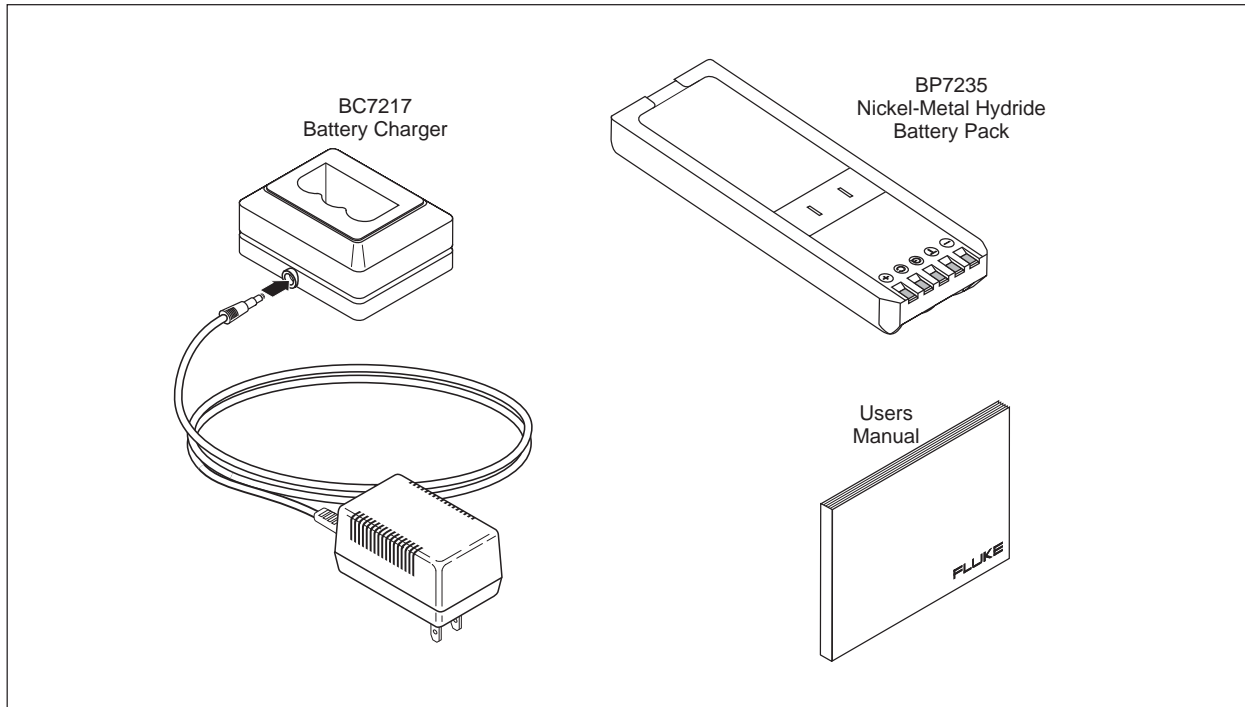


Figure 1. Standard Equipment (cont.)

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Replace page 20 with the following:

Charging the Battery

⚠ Before you use the calibrator for the first time, charge its battery pack in the external battery charger. The Model BC7217 charger charges both the NiMH and Ni-Cd battery packs.

Figure 9 shows how to remove the battery. Remove the battery door and tap the calibrator with your hand to get the battery out. Place the battery in the charger and connect the charger to line power. The charger automatically senses line voltage and adjusts itself accordingly.

A discharged battery is fully charged in 2 hours or less in fast-charge mode (steady indicator light on the charger). Full charge is maintained after that time in trickle-charge mode (blinking indicator light on the charger). Switching between charging modes is automatic. You can leave the battery pack on trickle charge indefinitely without damage.

Note

When you remove a charged battery from the charger, wait for the blinking indicator to go off before you insert a discharged battery. It takes about 2 seconds for the battery charger to reset.

On page 22, under **Battery Life**, replace the first sentence in the paragraph with the following:

Table 4 shows the operating time for a new, fully charged NiMH (Nickel-Metal Hydride) battery pack.

Following the **Warning**, replace the last paragraph:

To replace the battery, refer to “Replacing the Battery.”

Replace Table 4 with the following:

Table 4. Battery Life

Operating Modes	Backlight Off	Backlight On
Measure, continuous	13 Hours	12 Hours
Measure and source, with loop power on, continuous	7 Hours	6 Hours
Typical intermittent operation	>16 Hours	>16 Hours

On page 96, under ***Replacing the Battery Pack***, replace the third sentence with the following:

To order a replacement battery, order Model BP7235 Nickel-Metal Hydride Battery Pack.

Under the **Note**, delete *Nickel-Cadmium* from the first sentence.

On page 98, under ***Service Center Calibration or Repair***, delete nickel-cadmium from the first paragraph.

On page 101, change the following:

From: BP7217 Ni-Cd Battery Pack
To: BP7235 NiMH Battery Pack

Add:

- BC7217 Battery Charger

On page 119, under ***General Specifications***, replace the Power specification with the following:

Power: Internal battery pack: NiMH, 7.2 V, 3500 mAh.