Manual Supplement

Manual Title:	1742/1746/1748 Users Supplement	Issue:	**3**
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This supplement contains information necessary to ensure the accuracy of the above manual.

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Change #1, 562

On page 28, replace the Note with:

Note

Most power quality standards, such as EN 50160, 9, GOST 33073 refer to IEC 61000-4-30 Class A measurement methods that require Harmonic Sub-Groups.

Under examples replace the first paragraph with:

Select Harmonic Components for measurements according to standards that require the harmonics components measurement according to IEC 61000-4-7, for example IEEE 519 or IEC 61000-3-12.

On page 52, under ***Environmental Specifications*** replace the Operating Temperature with:

Operating…..-25 °C to +50 °C (-13 °F to +122 °F) warm up the Product to -10 °C (14 °F) before you turn on power.

Change #2, 597

On page 12, replace the ***Measurement Line Power Source*** section with:

Measurement Line Power Source:

⚠⚠Warning

To prevent injury, do not touch the metal parts of one test lead when the other is still connected to hazardous voltage.

⚠Caution

To prevent damage to the Product, make sure the measured voltage does not exceed the input rating of the power supply.

1. Attach the power supply to the Logger.
2. Move the slide-cover on the power supply to access the safety sockets.
3. Connect the short test leads (see Figure 7B & 7C) with the power supply inputs. Make sure to use the non-stackable plugs. The test leads are rated for measurement/overvoltage CAT III 1000 V and CAT IV 600 V.
4. Connect the test leads with the voltage measurement inputs:
   - Connect A/L1 with one input of the power supply.
   - Connect N with the second input of the power supply.

   OR
   - Connect A/L1 with one input of the power supply.
   - Connect B/L2 with the second input of the power supply.
5. Use the short fan out of the Voltage Test Lead, 3-phase + N. Plug the connector A/L1 into the socket A/L1 of the voltage measurement inputs of the Logger. Repeat this with B/L2, C/L3 and N.

- For measurement connection to the Logger (see Figure 7A):

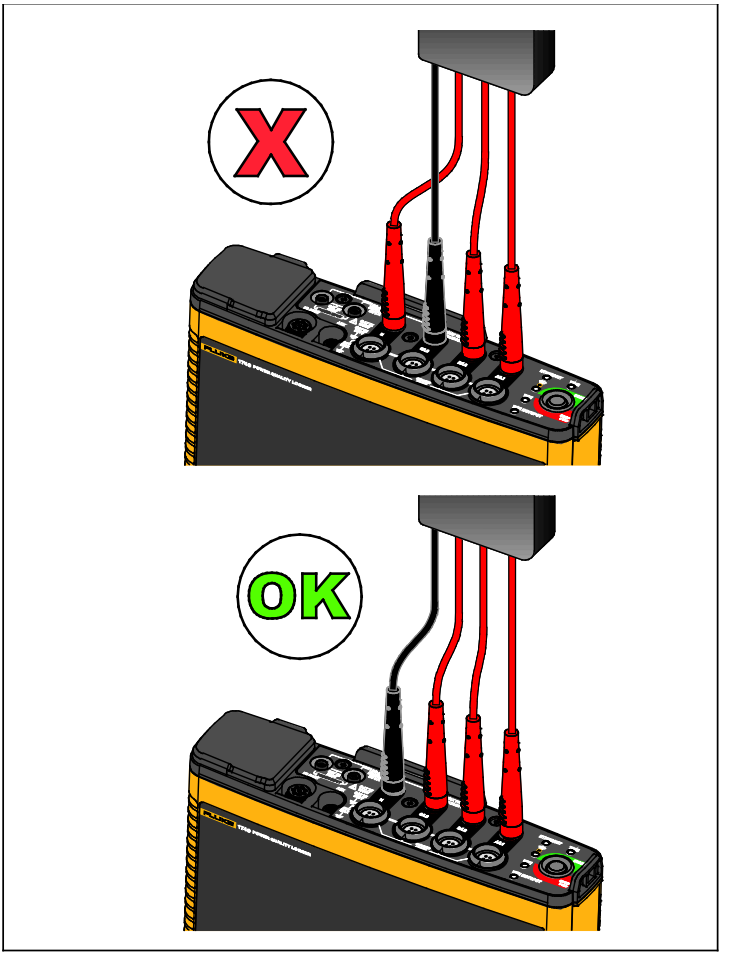

Figure 7A: Measurement connection to the Logger

- To supply power to the Logger from installations with neutral voltage (see Figure 7B):

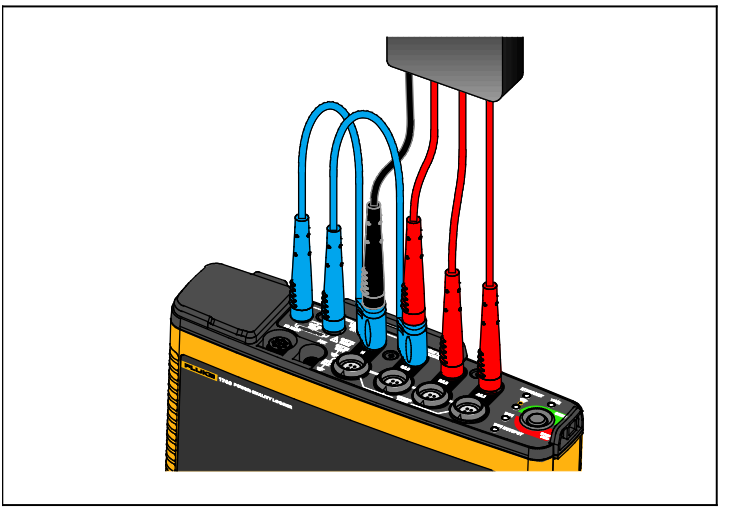

Figure 7B: Measurement with neutral voltage and supplying instrument power.

Note

You must locate and connect an alternate power source to the instrument if the voltage to measure is <100 V or >500 V. Use the set of 2 m test leads (item 7 in Figure 16) or the supplied power cord.

6. Connect the voltage inputs to the test points.
   The Logger automatically turns on and is ready to use in <30 seconds.

- To supply power to the Logger from installations without neutral voltage (see Figure 7C):

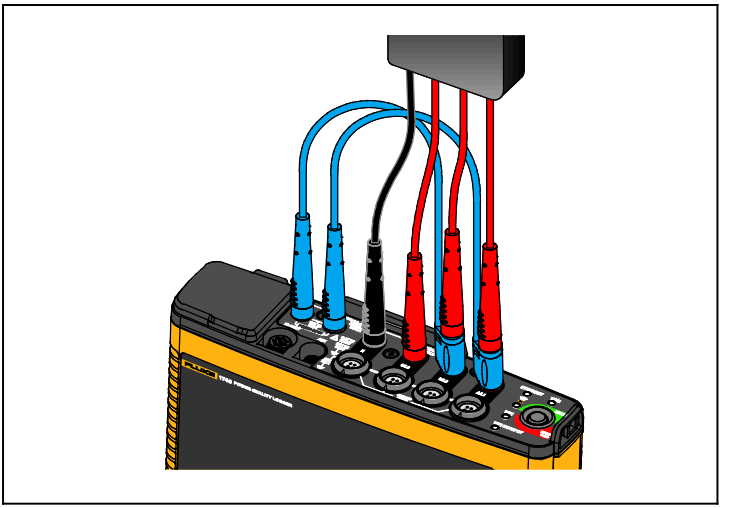

Figure 7C: Measurement without neutral voltage and supplying instrument power.

Note

You must locate and connect an alternate power source to the instrument if the voltage to measure is <100 V or >500 V. Use the set of 2 m test leads (item 7 in Figure 16) or the supplied power cord.

7. Connect the voltage inputs to the test points.
   The Logger automatically turns on and is ready to use in <30 seconds.

Change #3, 705

On page 5, replace ***Before You Start***, with:

Your purchase includes these items. Carefully unpack and inspect each of the items:

- Logger
- Soft Storage Bag/Case
- Voltage Test Lead, 3-phase + N
- 2x Alligator Clips, Blue
- 4x Alligator Clips
- Set of Wire Clips
- Mains Power Cable (see Table 2)
- Mains Adapter MA-C8
- Set of 2 test leads, stack and non-stackable, blue, 18 cm (7 in)
- Set of 2 test leads, non-stackable, blue, 2 m (79 in)
- USB Cable A, mini-USB
- Documentation Info Pack (Quick Reference Card, Safety Information, iFlex Probe Safety Information)
- USB Drive, includes Users Manual, Fluke Energy Analyze Plus (PC application software) and Open Source software
- Magnet Hanger Kit (1748 only)
- 4x Magnet Probes (1746/1748 only)
- Thin-Flexi Current Probe IP65
  - Model 174x/15: 4x i17xx-flex1500IP, 61 cm (24 in)
    or
  - Model 174x/30: 4x i17xx-flex3000IP, 61 cm (24 in)
- 2x WiFi Adapter or WiFi/BLE-to-USB Adapter

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On page 9, replace Table 3 with:

Table 3. Accessories

Part ID	Description
1742-6/UPGRADE	1742 to 1746 Upgrade[1]
1742-8/UPGRADE	1742 to 1748 Upgrade[1]
1746-8/UPGRADE	1746 to 1748 Upgrade[1]
IEEE519/REPORT	Software License for IEEE 519 Reporting
IP65 VOLT CONN	IP65 Rated Voltage Connector
3PHVL-1730-5M	Cable Assembly, Voltage Test Lead 3-phase + N 5 m
I17XX-FLEX1.5KIP	Fluke-17xx IP65 iFlexi 1.5 kA 24 in/60 cm
17XX-FLEX1.5KIP/3PK	Fluke-17xx IP65 iFlexi 1.5 kA 24 in/60 cm, 3 pack
I17XX-FLEX1.5KIP/4PK	Fluke-17xx IP65 iFlexi 1.5 kA 24 in/60 cm, 4 pack
I17XX-FLEX3KIP	Fluke-17xx IP65 iFlexi 3 kA 24 in/60 cm
I17XX-FLEX3KIP/3PK	Fluke-17xx IP65 iFlexi 3 kA 24 in/60 cm, 3 pack
I17XX-FLEX3KIP/4PK	Fluke-17xx IP65 iFlexi 3 kA 24 in/60 cm, 4 pack
I17XX-FLEX6KIP	Fluke-17xx IP65 iFlexi 6 kA 36 in/90 cm
I17XX-FLEX6KIP/3PK	Fluke-17xx iFlexi 6 kA 36 in/90 cm, 3 pack
I17XX-FLEX6KIP/4PK	Fluke-17xx iFlexi 6 kA 36 in/90 cm, 4 pack
I17XX-FLEX5M-EXT	Fluke-17xx iFlexi Extension Cable 5 m
FTP-17xx	Fused Probe Set (3 red/ 1 black)
MP1-3R/1B	Magnet Probe 1 (3 red/1 black)
i40s-EL	Current Clamp 40 A (single) Current Clamp
FLUKE-174X GPS-REC	GPS Receiver Antenna
Fluke PQ Markers	Cable Markerset 3 phase + N + PE
174x-HANGER KIT	Magnet Hanger Kit
FLUKE-17XX AUX	Auxiliary Input Adapter for 17xx

Wall Outlet Adapter	Wall Outlet Adapter MA-C8
BP1730-Battery Pack	BP1730-Battery Pack
Test Leads 0.18m	0.18 m (7 in.) Test Lead Set, blue
Test Leads 2m with alligator clips	2.0 m (79 in.) Test Lead Set plus 2x alligator clips, blue
Voltage Test Lead 3-phase + N, 2m (79 in.)	3PHVL-17xx Voltage Test Lead 3-phase + N, 2m (79 in.)
Voltage Test Lead 3-phase + N, 5m (197 in.)	3PHVL-17xx, 5 M Voltage Test Lead 3-phase + N, 5 m (197 in.)
Power Quality Window	PQ-400 Power Quality Window (PQ-400B / PQ-400)
i400S-EL	400 A (single) Current Clamp
i400S-EL/3PK	Set of 3 Current Clamps, 400 A
Soft Case	
IEEE 519/Report	Software License for IEEE 519 Reporting
FLK-WIFI/BLE	WiFi/BLE to USB Adapter (check with your sales contact for availabilty)
[1] Upgrade includes hardware items included with model upgrade (see *Licensed Features*)	

On page 43, Table 7, replace Ref. 6, 7, 8, and 9 with:

6	Test Leads 0.18 m blue, 1000 V CAT III	1 set	5016873
7	Test Leads 2 M, 2x alligator clips, blue, 1000 V CAT III	1 set	5020006
8	Cable marker	1 set	5046009
9	USB Drive, includes Users Manual, Fluke Energy Analyze Plus (PC application software) and Open Source software	1	N/A

On page 44, replace Figure 16, with:

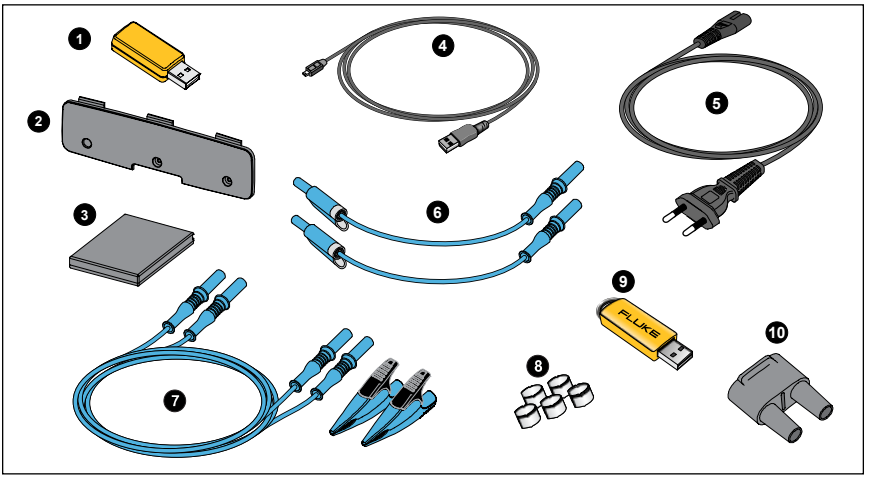

Figure 16. Replacement Parts