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FTD 150 DC Battery Backup

Reference Manual

Front Matter

Abstract

This document describes the: FTD 150 DC Battery Backup Unit.

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Warranty

FTCA warrants all components, under normal operating conditions, for one year.

Parts Replacement

The use of non-OEM parts or unauthorized modification of this equipment will void the warranty and could invalidate the assurance of associated units of complying with FAA requirements as published in Advisory Circular 150/5345-43.

PERSONNEL HAZARD WARNING

DANGEROUS VOLTAGES

Dangerous line voltages reside in certain locations in this equipment. Also, this equipment may generate dangerous voltages. Although FTCA has incorporated every practical safety precaution, exercise extreme caution at all times when you expose circuits and components, and when you operate, maintain, or service this equipment.

Avoid Touching Live Circuits

Avoid touching any component or any part of the circuitry while the equipment is operating. Do not change components or make adjustments inside the equipment with power on.

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Section 1 — FTD 150 DC Battery Backup Unit Specifications, Mounting and Wiring

The FTD 150 DC Battery Backup Unit supplies battery power to the PCB1 Board to allow it to communicate with a remote computer if a power failure occurs.

Specifications

Electrical specifications are listed for a single unit.

FTD 150: (H x W x Depth, Wgt.)

8 x 6.5 x 4.5 in., 6.5 lbs.

203 x 165 x 114 mm., 2.95 kg.

Aerodynamic Wind Area: .34 ft.², .032 m.²

Electrical:

AC Voltage (from power converter
Transformer T1)

24 VAC

Volt-Amperes:

5 VA

Unpacking

Inspect shipping carton for signs of damage before opening them. Check package contents against the packing list and inspect each item for visible damage. Damage claims should be reported promptly to the freight handler.

Tools

Although no special tools are necessary, FTCA suggests the following tools for installation and maintenance:

- #2, flat-blade screwdriver
- 5/16 inch, flat blade screwdriver
- #2, Phillips® 9-inch shank screwdriver
- Long-nose pliers
- 8- or 10-inch adjustable wrench

DC Backup Unit Access

WARNING

STOP: Before proceeding—read warning on Page iii. Disconnect the primary power before opening the cover.

A quick-release latch secures the cover. When you release it you can open the cover for internal access.

Mounting

Mounting and outline dimensions for the FTD 150 DC Battery Backup Unit are shown in *Figure 1-1*.

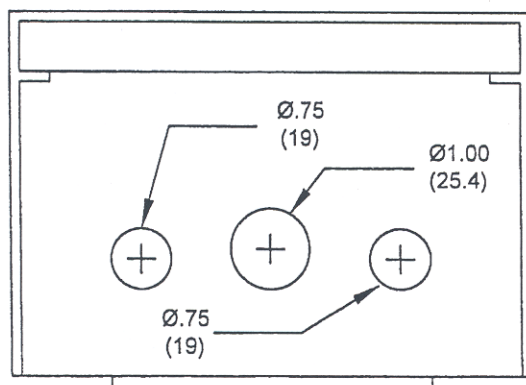
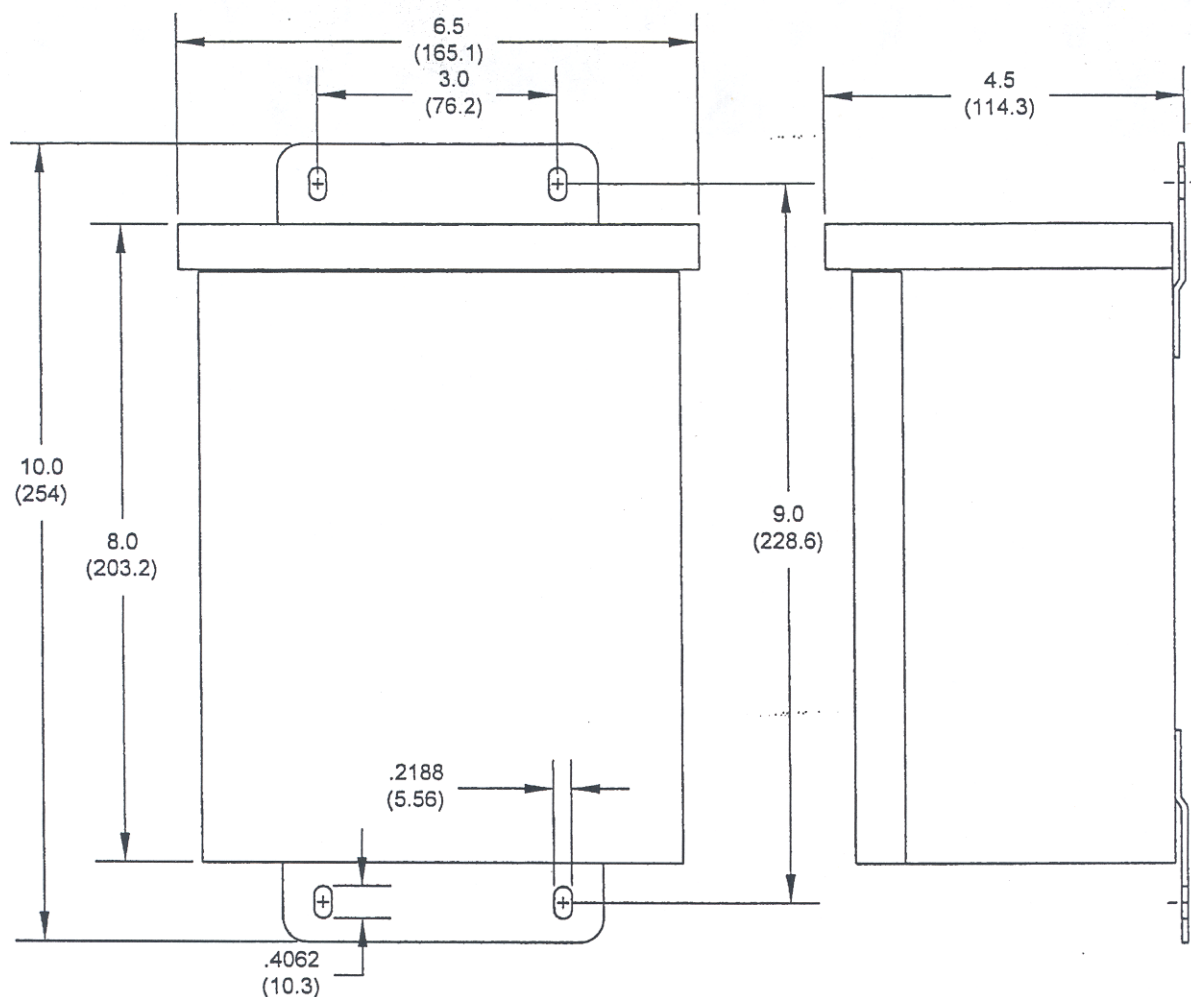
Ensure that adequate space exists around the equipment for access during installation, maintenance and servicing.

FTCA does not furnish mounting hardware unless you order it as part of an installation kit.

Wiring

Refer to *Figure 1-2*. Wire the unit to the power converter using the following steps:

1. Remove two wires from the transformer T1 terminals (24 VAC winding) in the power converter: terminal T1-15 (wht/brn wire) and terminal T1-16 (wht/vio wire).
2. Connect the black wire of the supplied cable to terminal T1-15.
3. Connect the red wire of the supplied cable to terminal T1-16.
4. Connect the orange wire of the supplied cable to the disconnected harness wire.
5. Connect the white wire of the supplied cable to the other disconnected harness wire.

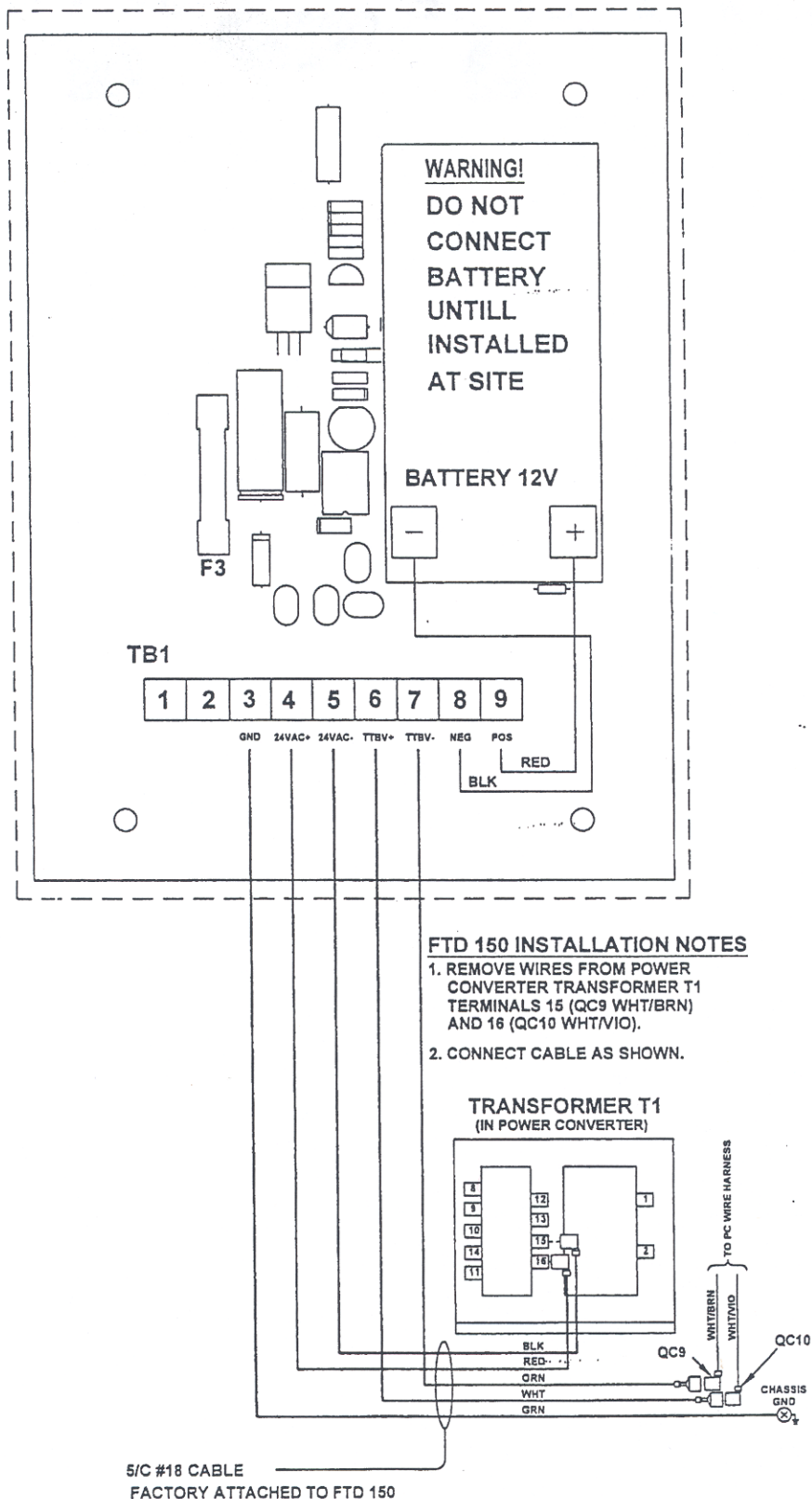


NOTE: ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)

FTD150MO

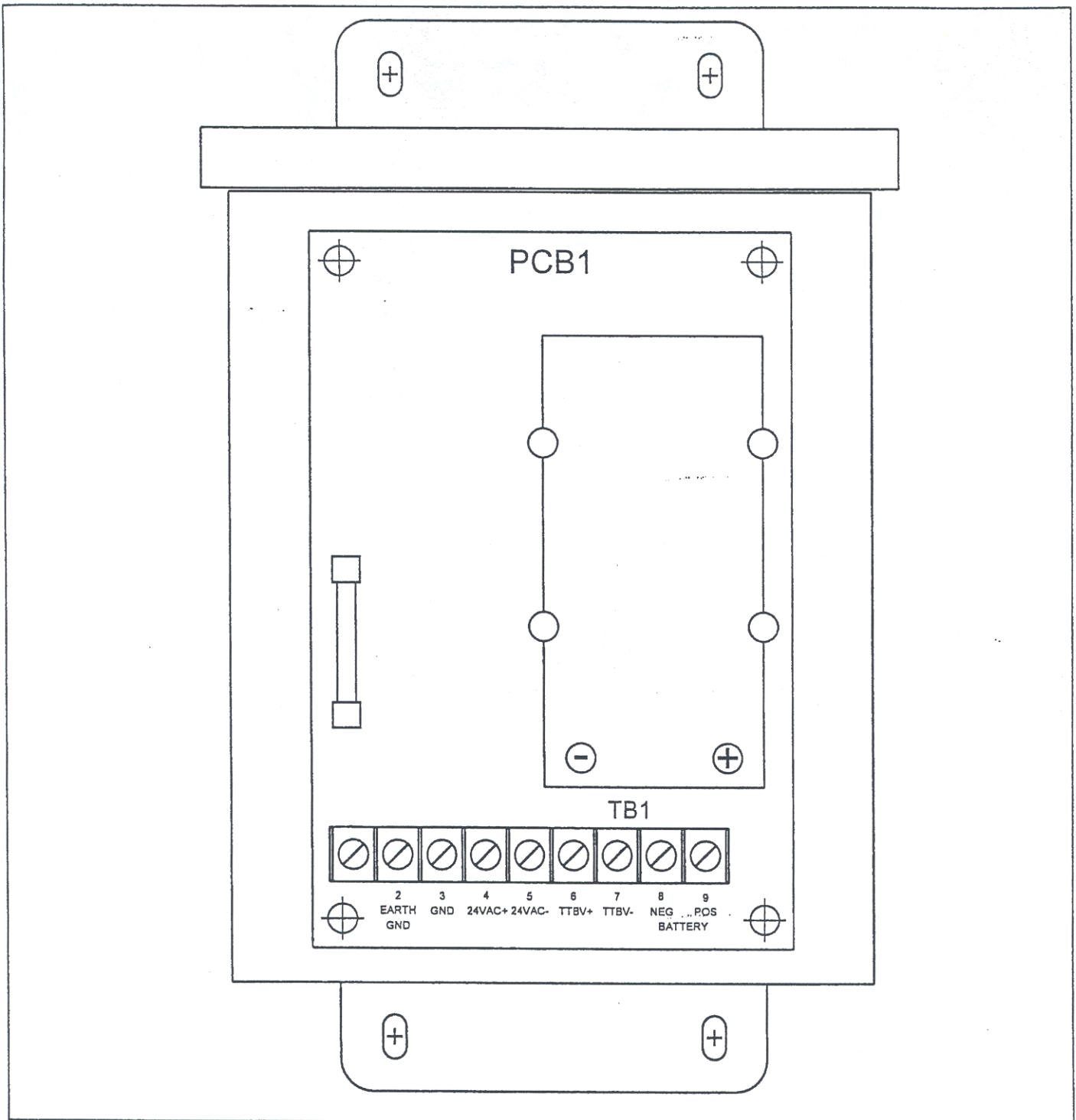
Figure 1-1 FTD 150 DC Battery Backup Mounting and Outline

FTD 150



FTD150INST

Figure 1-2 FTD 150 DC Battery Backup Installation



FTD150CL

Figure 1-3 FTD 150 DC Battery Backup Component Locations

Table 1-1 FTD 150 DC Battery Backup Replaceable Parts

Item	Description	Part Number
-	Battery	4991875
PCB1	DC Battery Backup Board	2872203