

Low Intensity Parts Instruction Sheet

Circuit Board Replacement (P/N: TP-78D or TP-351A)

Note: For heaters not requiring a TP-390 adapter, see page 2.

Models Affected	Input	Replacement Circuit Board
DTHS-3	125-150 MBH	TP-78D (MARK 17DX)
DTH-3	125-150 MBH	TP-78D (MARK 17DX)
DBS	All	TP-78D (MARK 17DX)
DRV	All	TP-78D (MARK 17DX)
DX (w/direct sense)	All	TP-78D (MARK 17DX)
DX (w/remote sense)	All	TP-351A (MARK 17DU)
XTS (8/1/99 - 11/6/00)	All	TP-351A (MARK 17DU)

WARNING	
	The following installation MUST be performed by a qualified service person.
Improper installation, adjustment, service, or maintenance can cause property damage, injury, or death.	

Parts List

- TP-78D (MARK 17DX-117 or 2020-93) **OR** TP-351A (Fenwal 35-75 or MARK 17DU-117) Circuit Board
- TP-390 Adapter (sold separately)

NOTE: To ensure safe operation, circuit boards **must** be replaced with factory supplied parts.

Figure 1 • Circuit Board Installation

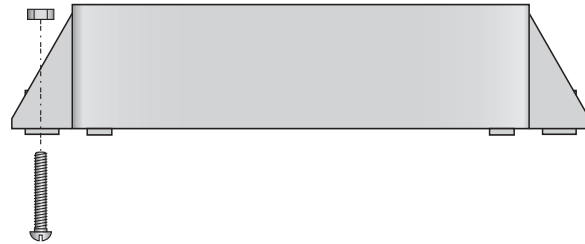
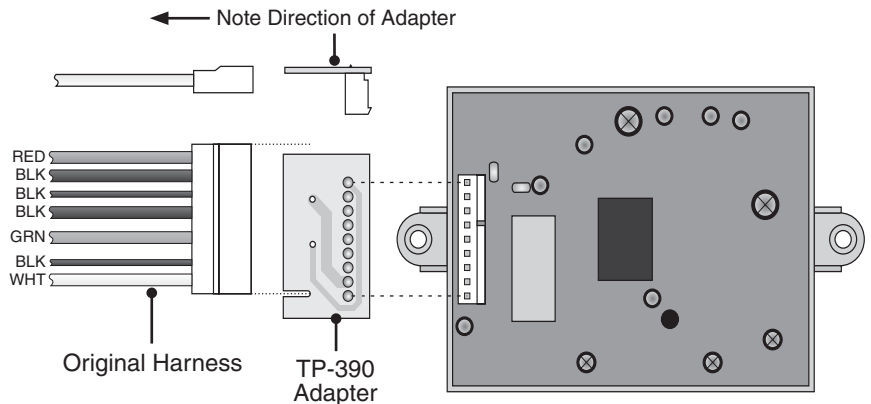


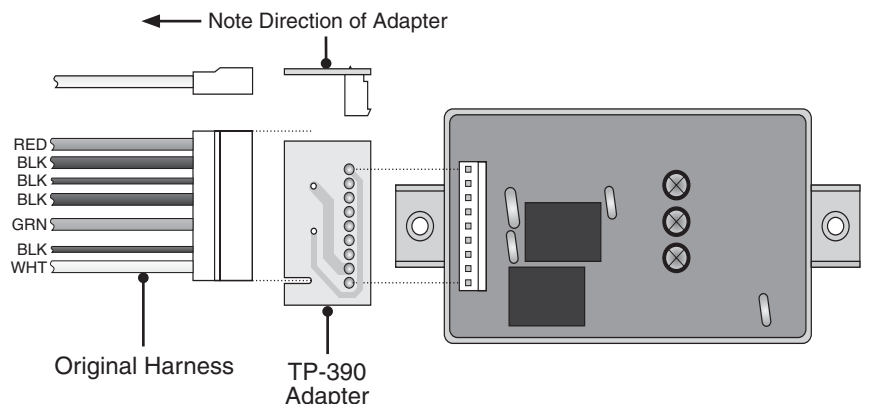
Figure 2 • TP-78D Circuit Board (MARK 17DX-117 / 2020-93)



Installation Instructions

- 1 Disconnect electrical supply voltage to the heater.
- 2 Remove burner control box cover.
- 3 Remove wiring harness from the original circuit board.
- 4 Remove the faulty circuit board.
- 5 Locate and install the new circuit board using top mounting bolt. (Figure 1).
- 6 Reconnect original wiring harness to the edge of the TP-390 adapter.
- 7 Install new TP-390 adapter to new circuit board (Figure 2 or 3).
- 8 Replace control box cover and secure.
- 9 Reconnect electrical power supply.

Figure 3 • TP-351A Circuit Board (MARK 17DU-117 / 35-75)



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Circuit Board Replacement (P/N: TP-78D or TP-351A)

Note: For heaters *requiring* a TP-390 adapter, see page 1.

Models Affected	Input	Replacement Circuit Board
AG1	All	TP-351A (MARK 17DU)
DX2	All	TP-351A (MARK 17DU)
XTS3	All	TP-351A (MARK 17DU)
XTS (9/18/00 - 05/03)	All	TP-351A (MARK 17DU)

Parts List

- TP-351A (Fenwal 35-75 or MARK 17DU-117) Circuit Board

NOTE: To ensure safe operation, circuit boards **must** be replaced with factory supplied parts.

Installation Instructions

- ① Disconnect electrical supply voltage to the heater.
- ② Remove burner control box cover.
- ③ Remove the faulty circuit board.
- ④ Locate and install the new circuit board using top mounting bolt. (Figure 1).
- ⑤ Replace control box cover and secure.
- ⑥ Reconnect electrical power supply.

WARNING



The following installation **MUST** be performed by a qualified service person.

Improper installation, adjustment, service, or maintenance can cause property damage, injury, or death.