

# Main Circuit Board Replacement for 2 and 4 Zone Panel Product Installation Drawing

Document 52227 Rev B 6/09/04 ECN 04-149

The Main Circuit Board can be replaced by observing the following replacement procedures.

**CAUTION!** Make sure to observe all of the following precautions:

- Remove all power (AC and DC) before replacing the main circuit board since personal harm or damage to components may occur if power remains applied.
- Circuit boards contain static-sensitive components. Always ground yourself with a proper wrist strap before handling any boards so that static charges are removed from the body. Use static suppressive packaging to protect electronic assemblies.

## Main Circuit Board Removal and Installation

1. Make certain that AC power has been removed from the panel by turning off the circuit breaker at the protected premises main circuit breaker box and then disconnect AC wiring from TB8 on the main circuit board.
2. Remove DC (battery) power by unplugging the battery connector from J8 on the main circuit board.
3. Unplug transformer connector(s) from J7 (and J9) on the main circuit board.
4. Carefully remove all option modules from the main circuit board and place aside.
5. Label (to facilitate reconnection) and disconnect all field wiring from the main circuit board.
6. Remove the four corner mounting screws securing the main circuit board to the backbox (save for installation of the new board) and remove the main circuit board.
7. While viewing the old circuit board just removed, duplicate the switch settings and jumper configurations on the new main circuit board.
8. Install the four supplied support standoffs to the new main circuit board as illustrated in Figure 3 on page 2 of this document.  
**IMPORTANT!** The two nylon standoffs (supports) must be installed on the top of the main circuit board between terminal blocks TB1 & TB2 and between terminal blocks TB5 & TB6. **DO NOT** install the metal standoffs in these locations.
9. Position the new main circuit board on the backbox mounting standoffs and secure with the four screws removed in step 6.
10. Reconnect the field wiring that was removed in step 5.
11. Reinstall all option modules removed in step 4.
12. Reconnect transformer connector(s) to J7 (and J9) on the main circuit board.
13. Check all wiring, modules and connections for proper installation before applying power.
14. Connect DC (battery) connector to J8 on the main circuit board.
15. Connect AC wiring to TB8 on the main circuit board and turn on the circuit breaker at the main circuit breaker box.

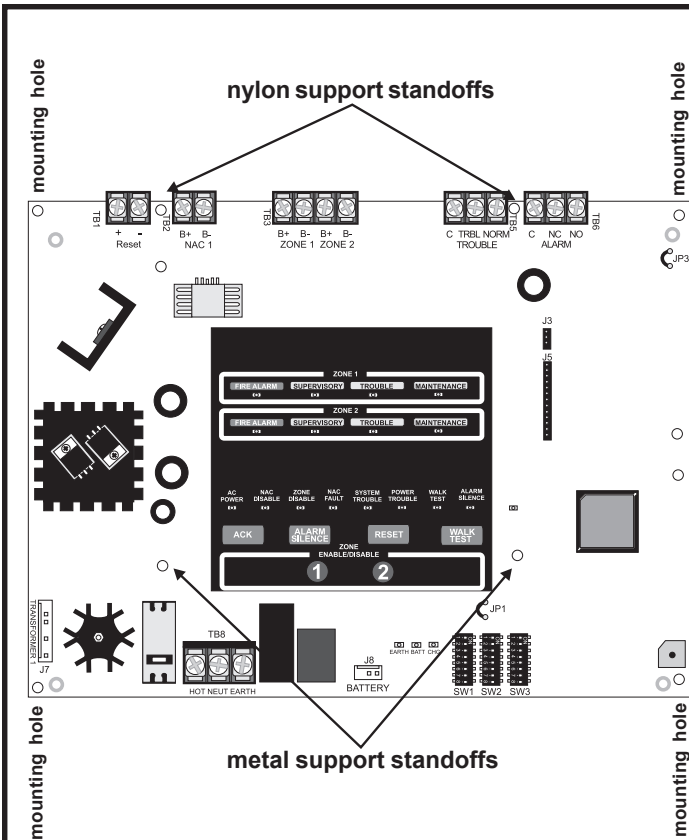


Figure 1: 2 Zone Panel Main Circuit Board

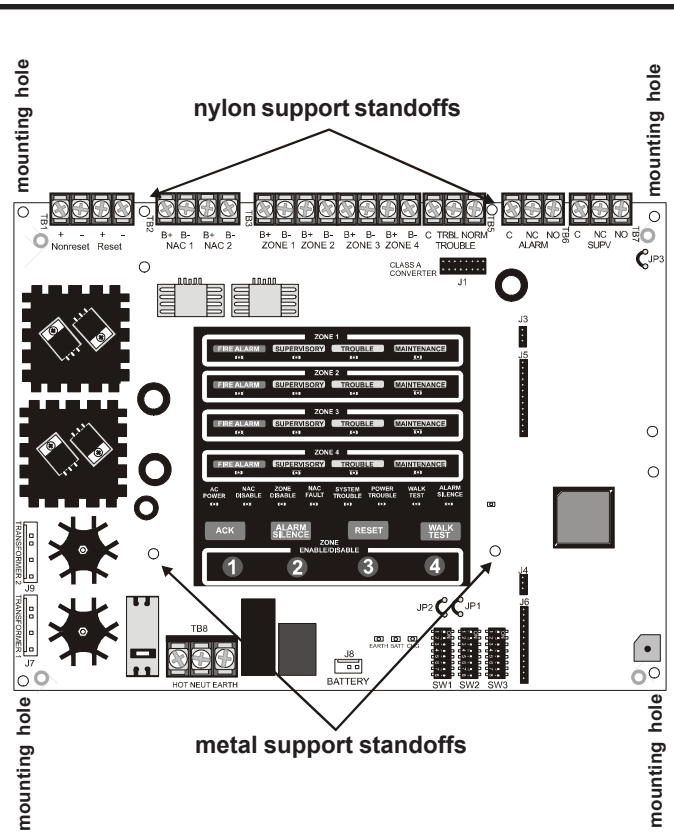


Figure 2: 4 Zone Panel Main Circuit Board

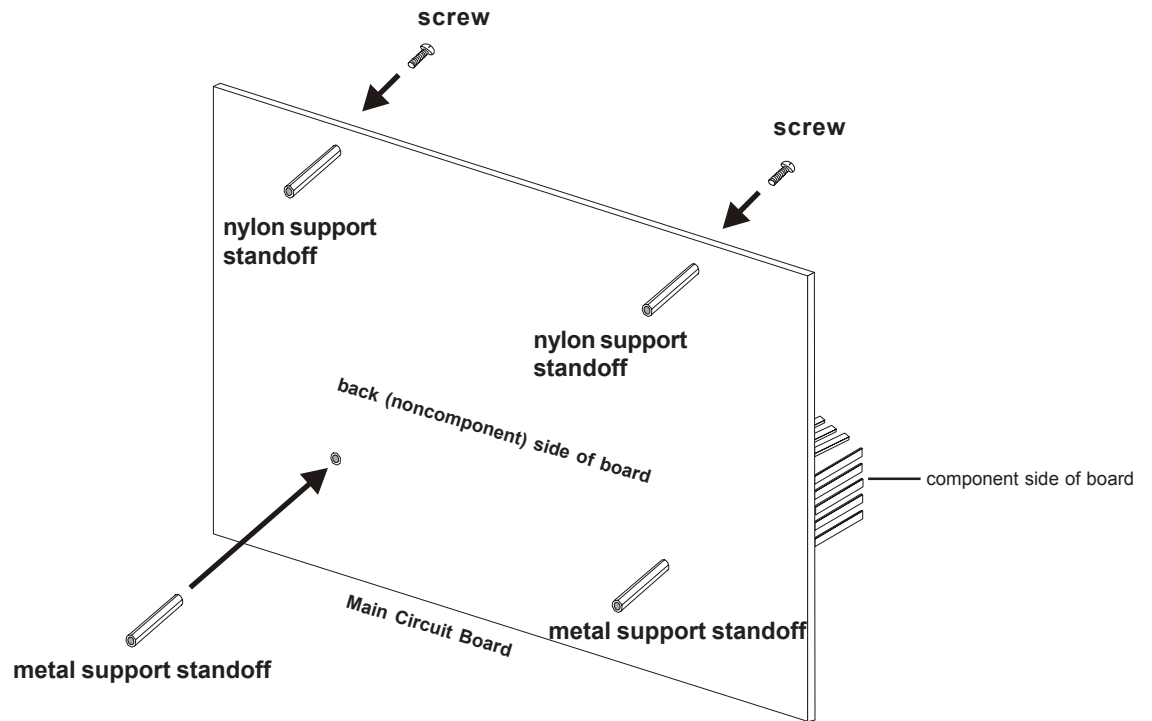


Figure 3: Support Standoff Installation on Main Circuit Board