

Cautions and Warnings



DO NOT INSTALL ANY SIMPLEX PRODUCT THAT APPEARS DAMAGED. Upon unpacking your Simplex product, inspect the contents of the carton for shipping damage. If damage is apparent, immediately file a claim with the carrier and notify Simplex.

ELECTRICAL HAZARD - Disconnect electrical power when making any internal adjustments or repairs. Servicing should be performed by qualified Simplex Representatives.

STATIC HAZARD - Static electricity can damage components. Therefore, handle as follows:

1. Ground yourself before opening or installing components (use the 553-484 Static Control Kit).
2. Keep uninstalled component wrapped in anti-static material at all times.

Overview

This publication shows how to replace an existing SFIO board in a 4010 Fire Alarm Control Panel (FACP) with a replacement SFIO board, Part No. 565-737 (US) or 565-738 (Canada). For additional wiring information, please refer to the 4010 Fire Alarm Installing, Operating, and Programming Instructions (574-052).

Reprogramming the Panel

The 4010 FACP must be reconfigured for the replacement SFIO board. Take the following steps to complete the upload.

- If the existing SFIO board is still functional, upload the CFG OR...
- If you are unable to upload the CFG from the existing SFIO, use an archived CFG disk OR...
- If you are unable to either upload the CFG from the FACP or from an archived CFG disk, use the AUTO-CFG feature and the 4010 Front Panel or PC Programmer to restore the original CFG data base functionality from hard copy records.

Note: Refer to the *4010 Fire Alarm Panel Programmer — Installation and Programming Instructions (574-187)* for additional programming information.

Removing the SFIO Board

To remove the SFIO board from a 4010 FACP, follow Steps 1 through 14 and refer to Figures 1 and 2.

1. Remove AC Power from the FACP **at the breaker**.
2. Using a “B” Key, unlock and open the door assembly on the 4010 FACP.
3. Remove the retainer from the panel.
2. Disconnect the FACP batteries.



IMPORTANT: Check Aux 1 and Aux 2 terminals for any external voltage from field wiring. Remove the voltage at the source before attempting to disconnect field wiring or to remove the SFIO.

5. Mark and remove all field wiring and internal wiring from the SFIO board assembly.

Removing the SFIO Board (Continued)

6. Using needle-nose pliers, disconnect P9 (Orange wire) and P10 (Yellow wire) on the left hand side of the SFIO board.
7. Using a T-15 Torx driver, unscrew the four No. 6 screws that connect the keyboard mounting plate assembly to the SFIO mounting plate. Place the screws and washers aside.
8. Gently lift the keyboard mounting assembly straight upward. Disconnect the keypad harness connecting the keyboard mounting assembly to the SFIO board (P11). Set the keyboard mounting plate assembly aside.
9. Remove the four hex posts that hold the keyboard plate in place.
10. Using a T-15 Torx driver, unscrew the four No. 6 screws that connect the SFIO mounting plate to the 4010 chassis. Set the washers and screws aside.
11. Gently lift the SFIO mounting plate from the 4010 chassis.
12. Locate the bridge rectifier on the back of the SFIO mounting plate. Using needle-nose pliers, disconnect the Brown and Blue wires connected to the bridge rectifier and then disconnect the Red and Black wires connected to the bridge rectifier.
13. Using a T-15 Torx driver, remove the No. 6 screw and washer located in the top right hand corner of the SFIO board. Set the screw and washer aside.
14. With all the wiring removed from the SFIO Board Assembly and the mounting plate, take the assembly to a flat surface. With a flat-blade screwdriver, gently dislodge the SFIO board from the SFIO mounting plate. Set the SFIO board aside.

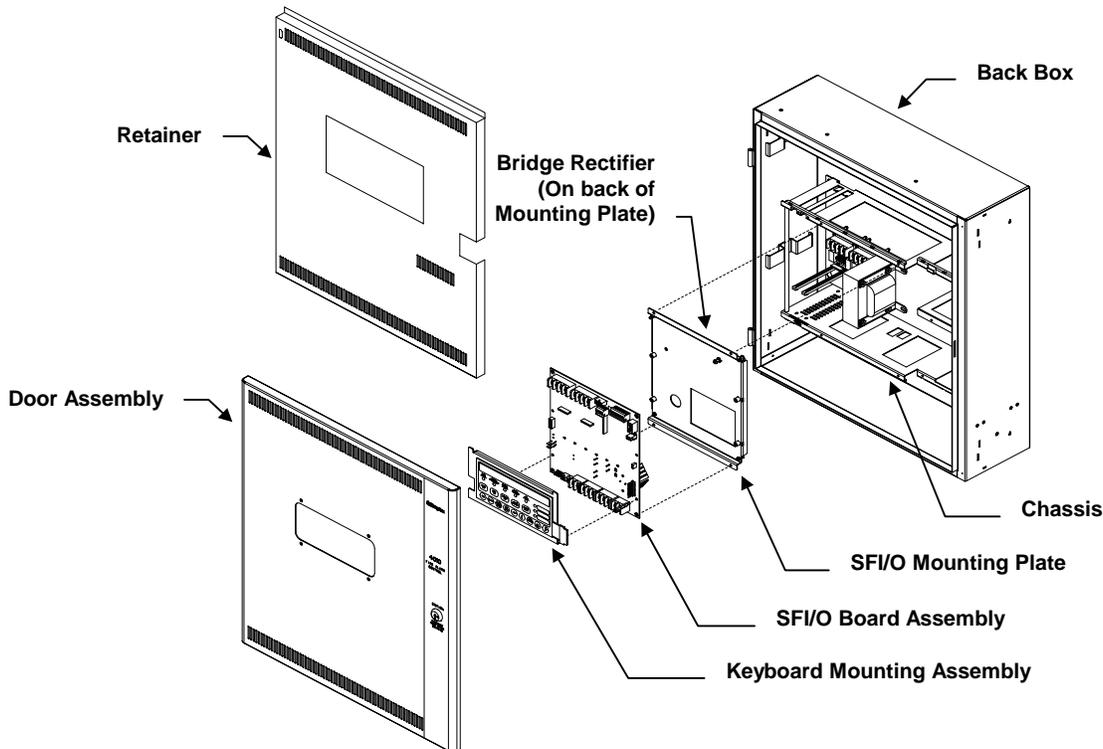


Figure 1. Expanded View of a 4010 FACP

Installing the SFIO Board

To install the replacement SFIO board into a 4010 FACP, follow Steps 1 through 14 and refer to Figures 1 and 2.

1. On a flat surface, align the replacement SFIO board over the SFIO mounting plate assembly. Gently push the board down until it snaps into place.
2. Replace the screw and washer on the top right hand corner of the SFIO card.
3. Reconnect the SFIO Bridge Harness, Red wire from **H1** to the Bridge (+) terminal and Black wire from **H2** to the bridge (-) terminal.
4. Reconnect the transformer connections to the bridge rectifier. Connect the Brown and Blue wires from the transformer to the bridge "AC" terminals.

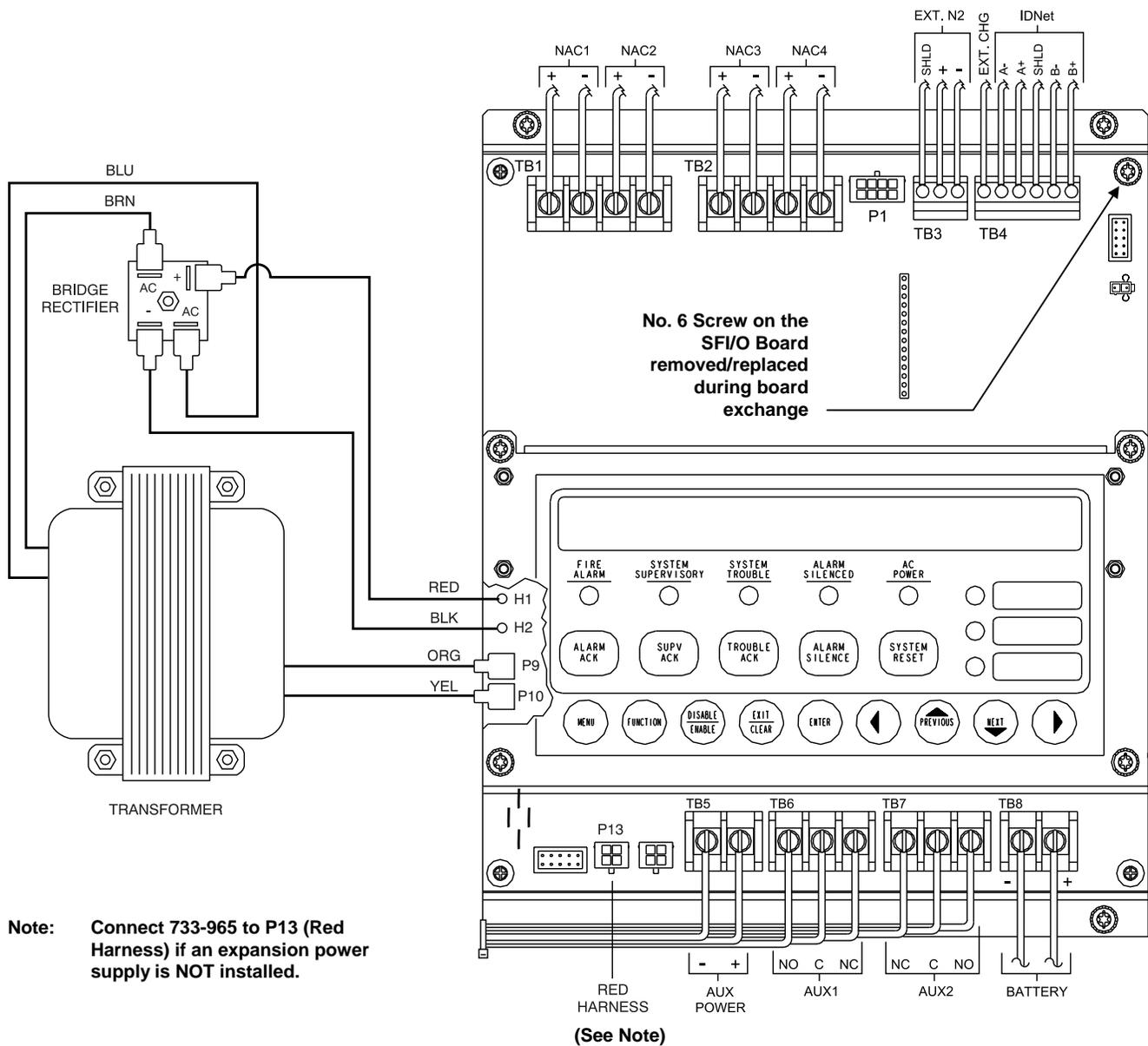


Figure 2. 4010 Interconnection Drawing

Installing the SFIO Board (Continued)



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5. Align the SFIO board mounting plate assembly over the 4010 chassis so that the four holes of the mounting plate are in line with the holes on the chassis.
 6. Screw the SFIO mounting plate assembly onto the FACP chassis using the original four No. 6 screws and washers.
 7. Replace hex posts for the display mounting plate.
 8. With the SFIO mounting plate assembly in place, align the keyboard mounting assembly over the SFIO board assembly. Reconnect the harness to the SFIO. Reconnect the assembly headers to the SFIO connector(s)
 9. Attach the keyboard mounting assembly to the SFIO mounting plate assembly using the four, original No. 6 screws and washers.
 5. Reattach all field wiring and internal wiring to the SFIO board assembly.

WARNING: PTCs in the lower left corner of the SFIO must not touch each other or any other metal surface.

11. Check the Baud rate settings.
 12. Reapply power to the 4010 FACP. Connect the AC power first and then connect battery power .
 13. Verify that all FACP operations work properly.
 14. Re-install the retainer into the panel.
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