



RPL-SC-041 Replacement Bridge Rectifier for FX-3500 Fire Alarm Control Panel

The RPL-SC-041 kit comes with all the parts needed to replace a damaged SC-041 Bridge Rectifier on an FX-3500 Fire Alarm Control Panel.

Parts List

- Qty 1 ... SC-041 Bridge Rectifier
- Qty 1 ... TT-005 Nonconducting thermal insulator pad
- Qty 2 ... #6-32 0.25" screw

Installing the SC-041 Bridge Rectifier

To install the SC-041 you must:

- A. Power down the FX-3500
- B. Replace the SC-041
- C. Power up the FX-3500

Refer to the sections below for details on how to perform each step.

A. Power down the FX-3500

1. Disconnect the backup batteries.
2. Disconnect the AC power going to the FX-3500 panel.

B. Replace the SC-041

1. Disconnect all wires connected to the damaged SC-041 bridge rectifier (refer to Figure 1).
2. Remove the screw securing the SC-041 to the back plate.
3. Remove the damaged SC-041.
This exposes the thermal insulator pad. The thermal insulator pad is a 1.25" x 1.25" square attached to the back plate.
4. Inspect the thermal insulator pad for any damage or defects.
5. If the thermal insulator pad is damaged in any way, replace it by performing the following steps:
 - a. Remove the current thermal insulation pad from the back plate.
 - b. Remove the supplied TT-005 from its backing in order to expose its adhesive side.
 - c. Attach the supplied TT-005 to the back plate, making sure to align the hole in the TT-005 with the mounting hole on the back plate and that there are no air bubbles.
6. Place the new SC-041 on the thermal insulation pad, align the hole of the SC-041 with the mounting hole on the back plate, and then secure the SC-041 with one of the screws provided.
7. Connect the red wire from the + BRIDGE terminal on the MD-1011 to the + connector on the SC-041.
NOTE: The + connector on the SC-041 is in a different orientation with respect to the other connectors. Specifically, the + connector on the SC-041 is perpendicular to the other three connectors.
8. Connect the black wire from the - BRIDGE connector on the MD-1011 to the - connector on the SC-041.
9. Connect the red wire from the TR-063A transformer to the A.C. (~) connector on the SC-041.
10. Connect the blue wire from the TR-063A transformer to the COMMON connector on the SC-041.

C. Power up the FX-3500

1. Connect the AC power to the FX-3500 panel.
2. Connect the backup batteries.

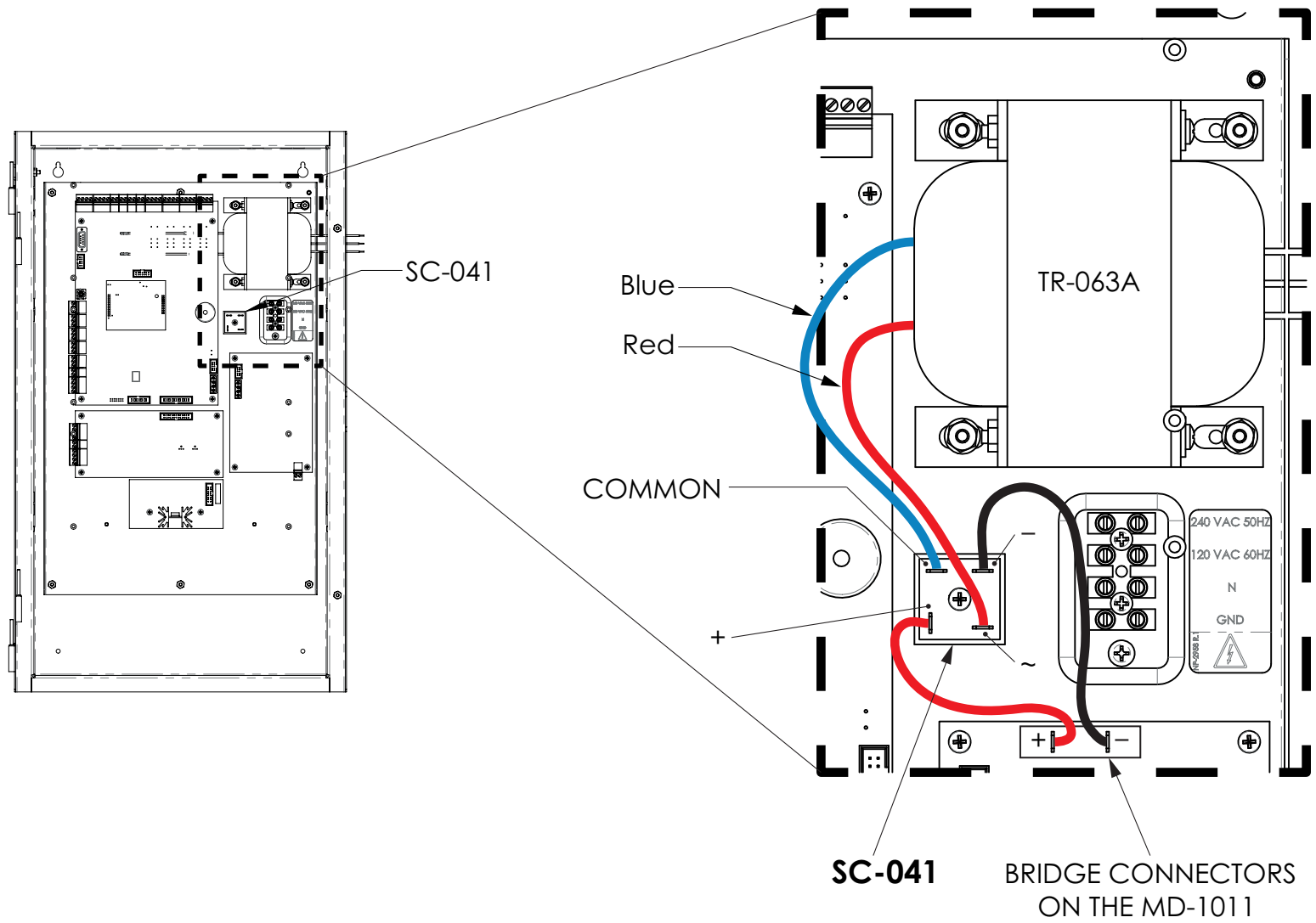


Figure 1: Location of the SC-041 and its connectors.