



# SEL-651R-2 J204 Single-Door Recloser Control Cabinet Door Switch Installation Instructions

## Introduction

The installation kit includes a retrofit door switch designed for the SEL-651R-2 single-door cabinet. The switch is powered by the auxiliary 12 Vdc outputs (B01–B03). Door-open and door-closed status signals are routed through the Molex connector on J204 (IN205) of the SEL-651R-2.

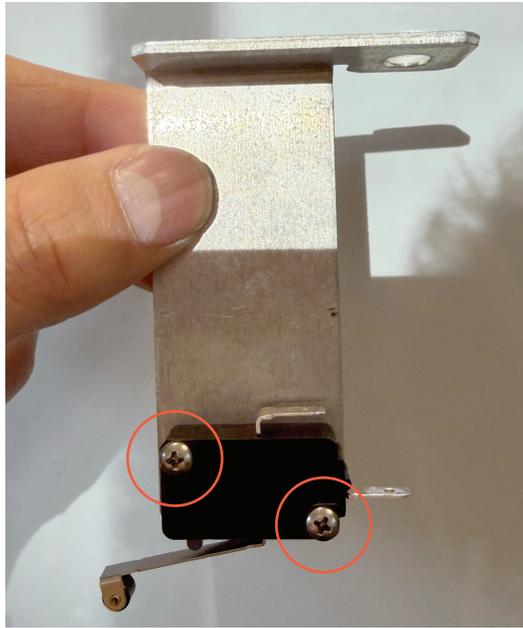
## Parts

**Table 1 Contents of the Door Switch Installation Kit for Single-Door SEL-651R-2 Recloser Control Cabinet (P/N 915900553)**

| SEL Part Number | Description                               | Quantity |
|-----------------|---|----------|
| 290-1504        | Snap Action Roller Arm Switch             | 1        |
| 140-0500        | 4-40 x 1/2" Phillips Screws               | 2        |
| 140-3150        | 10-32 Self-Locking Nut                    | 2        |
| 142-0255        | #10 Flat Washer                           | 2        |
| 080-0200        | Plastic Cable Clamp                       | 2        |
| C5493-03        | Black Wire (40-inch #8 ring to FEM spade) | 1        |
| 310-0050        | Zip Ties                                  | 10       |
| C5749-01        | Black Wire (Molex to FEM spade)           | 1        |
| 190-0241.A      | Door Switch Bracket Utility               | 1        |

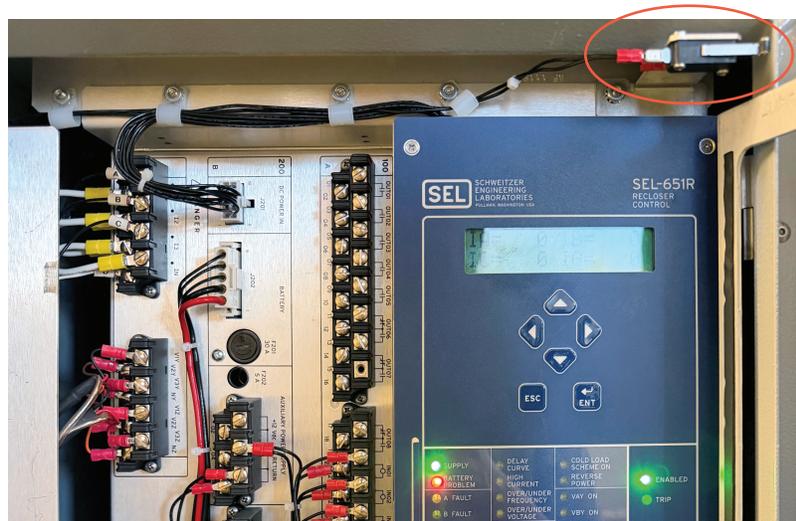
## Installation

- Step 1. Retrieve the door switch bracket, the door switch, and the two 4-40 x 1/2" Phillips screws.
- Step 2. Mount the door switch to the door switch bracket with the two 4-40 x 1/2" screws retrieved in *Step 1*. Torque the screws to 6 in-lb (see *Figure 1*).



**Figure 1 Door Switch Bracket and Switch Fully Assembled**

- Step 3. Identify the mounting location for the door switch bracket assembly on the top right of the cabinet (see *Figure 2*).
- Step 4. Mount the door switch bracket assembly to the front of the cabinet and secure it with the existing 10-32 self-locking nut. Torque the self-locking nuts to 18 in-lb (see *Figure 2*).

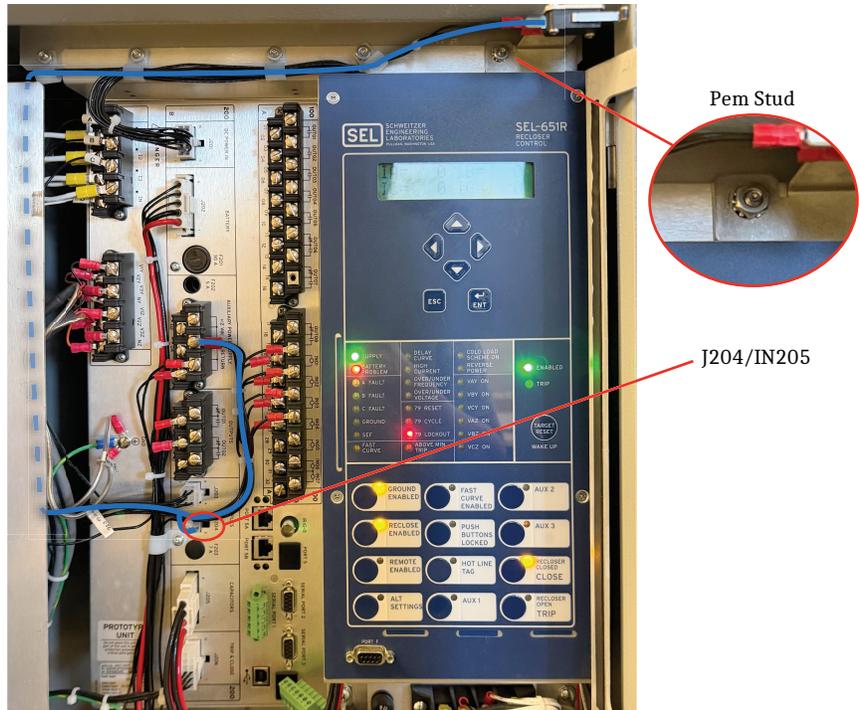


**Figure 2 Mounted and Secured Door Switch Bracket**

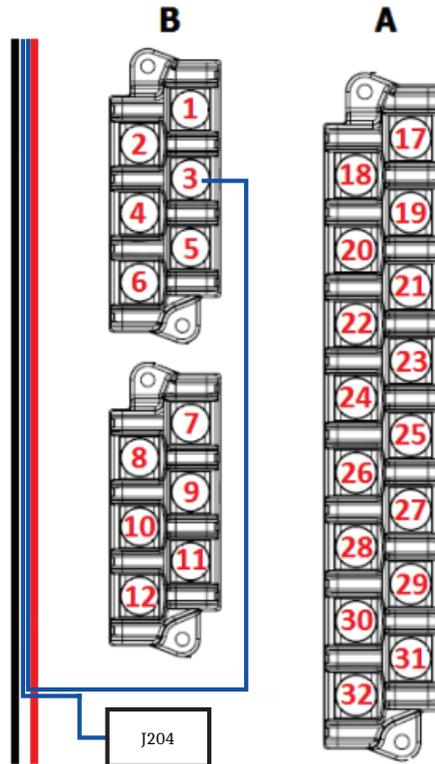
- Step 5. Connect the provided wires to the J204 input and B terminal block as shown in *Table 2*, *Figure 3*, and *Figure 4*. Torque the terminal block screws to 12 in-lb. Route the two door switch wires (C5749-01 and C5493-03) to the wires connected to J203, and then to the side and up past the Z terminal block (see *Figure 5*). Secure the wires with the zip ties provided.

**Table 2 Terminal Block Wiring Connections**

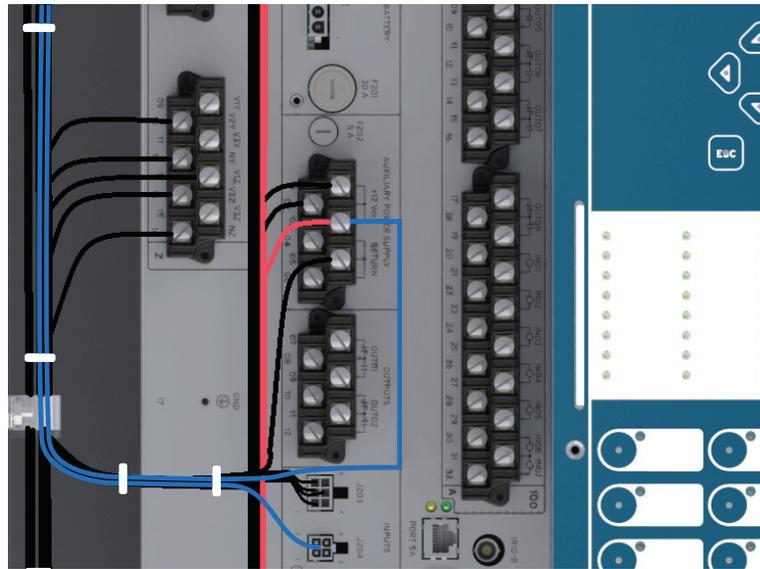
| Wires                  | To:  |
|------------------------|------|
| C5749-01               | J204 |
| C5493-03 (39.5 inches) | B03  |



**Figure 3 Cabinet Bracket Assembly and Wire Routing**

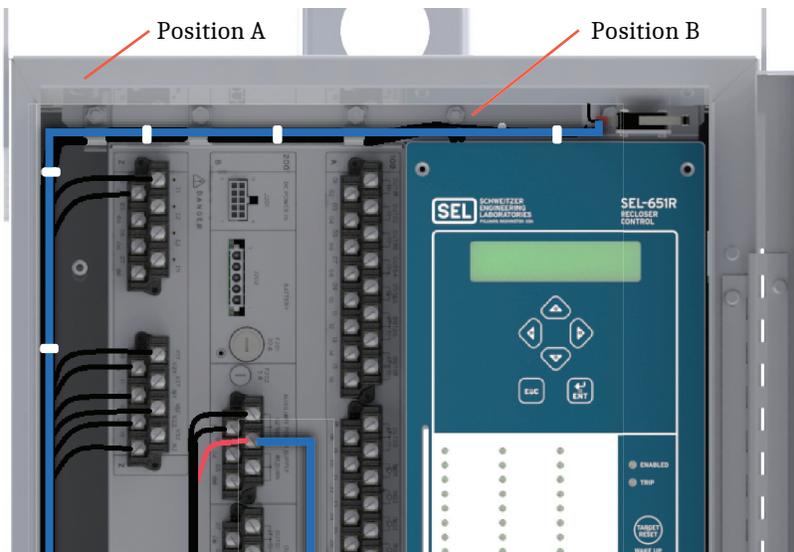


**Figure 4 Wire Attachment to the B Terminal Block**



**Figure 5 Door Switch Wire Routing**

Step 6. Continue routing the wires up the left side and along with the main harness, as shown in *Figure 6*. Secure the wires with zip ties.

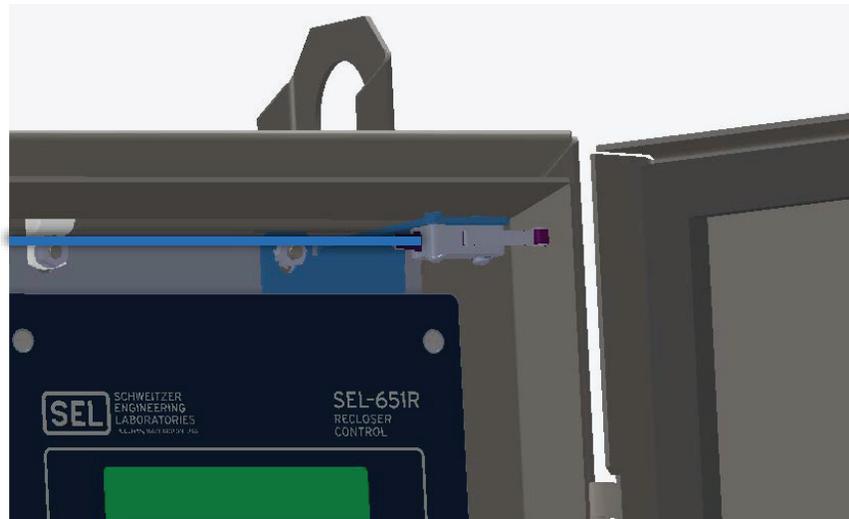


**Figure 6 Wire Routing**

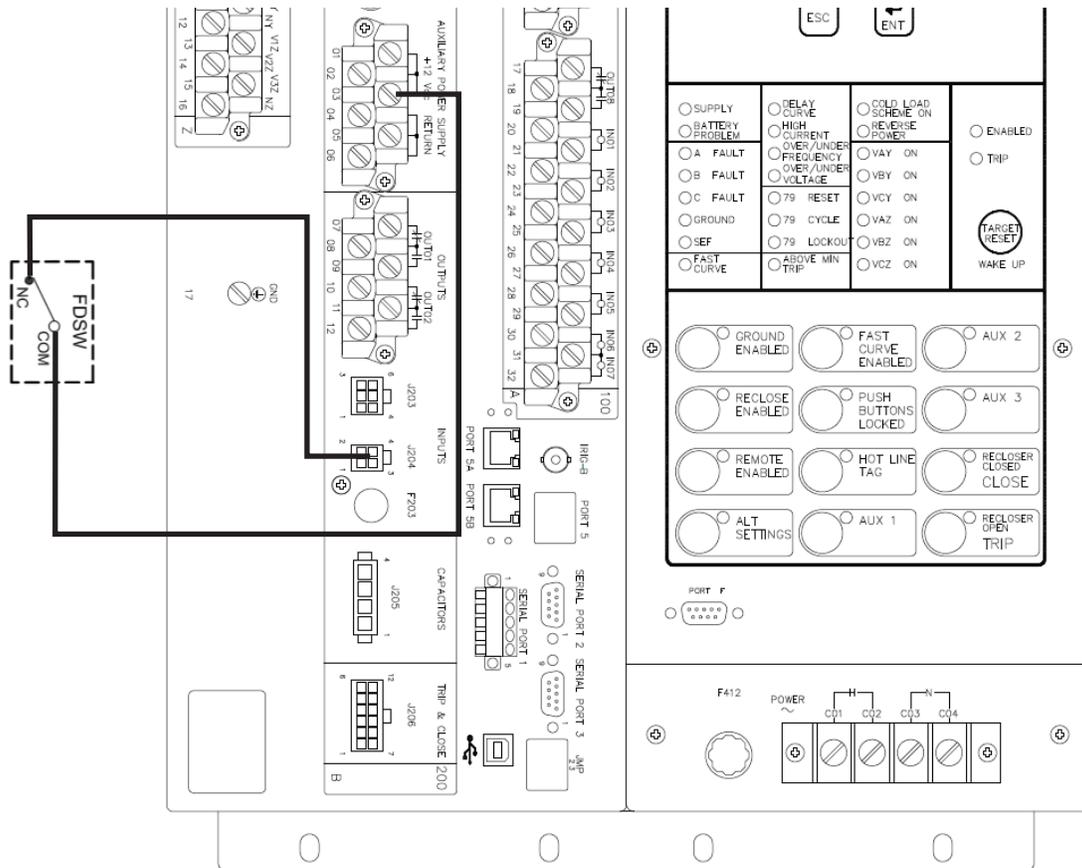
- Step 7. Install the two cable clamps included at Position A and Position B, as shown in *Figure 6*. Secure the two cable clamps using a flat washer and self-locking nut. Torque the self-locking nuts to 18 in-lbs. For Position A, use the self-locking nut included in the kit. For Position B remove the existing self-locking nut and use it to install the cable clamp.
- Step 8. Route the wires through the plastic cable clamp on the top left side of the relay bracket (at Position A and B as shown in *Figure 6*). Connect the other end of the provided wires to the door switch (refer to *Table 3*, *Figure 7*, and *Figure 8*).

**Table 3 Door Switch Wiring Connections**

| Wires    | From:  | To: |
|----------|--------|-----|
| C5749-01 | J204-2 | N/C |
| C5493-03 | B03    | COM |

**Figure 7 Door Switch Connection Pins****Figure 8 Door Switch Connections and Wire Routing**

# Wiring Diagram



# Technical Support

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We appreciate your interest in SEL products and services. If you have questions or comments, please contact us at:

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|  |   |
|--|---|
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