



WavePro™ Power Circuit Breaker Accessories

Remote Charge-Indication Switch for 800–2000 A

Introduction

The remote charge-indication switch, catalog number WPRCISFKIT1, allows remote monitoring of the state of the closing springs. When the springs are charged, terminals 8 and 17 at the C secondary disconnect are shorted and are open when the springs are discharged.

The switch is illustrated in Figure 1. The kit includes the switch, mounting screw, flat washer, and lock washer. Also included are a secondary disconnect block with two mounting screws, two spacers, and a spring washer, as illustrated in Figure 2. The parts included in the kit are listed in Table 1. Numbers in brackets in the text and figures refer to the item numbers in this table.

Installation



WARNING: Before installing any accessories, turn the breaker OFF, disconnect it from all voltage sources, and discharge the closing springs.



AVERTISSEMENT: Avant d'installer tout accessoire, mettre le disjoncteur en position OFF, le déconnecter de toute tension d'alimentation, et décharger les ressorts d'armement.

Use the following procedures, as appropriate, to install a new or replacement remote charge-indication switch.

Remove the Escutcheon

1. Pull the ends of the two trim plate mounting rods out of the holes at the rear of both sides of the escutcheon, then remove the trim plate.
2. Remove the six screws securing the escutcheon to the breaker. Pull the manual charging handle out part way, then slide off the escutcheon.

Removing an Existing Remote Charge-Indication Switch

Use the following procedure to remove an existing remote charge-indication switch for replacement, as illustrated in Figure 3.

1. Disconnect the two wires from terminals 8 and 17 of the secondary disconnect C block and bring them back to the switch.
2. Remove the bolt, lock washer, and flat washer securing the switch to the flag shaft support plate, then slide off the switch.

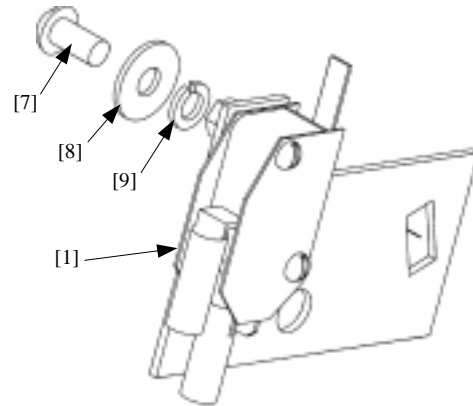


Figure 1. Remote charge-indication switch.

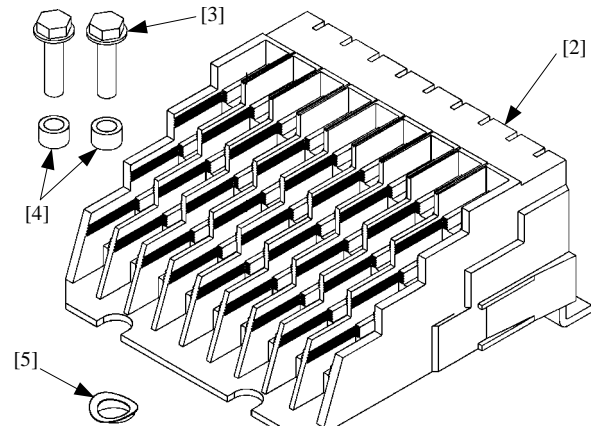


Figure 2. Secondary disconnect block.

Item	Part No.	Description	Qty
1	10057273G1	Switch assembly	1
2	10054865G2	Secondary disconnect	1
3	N722P16012B6	Screw, #10-32 x 3/4"	2
4	10054865P3	Spacer	2
5	794A736P1	Spring washer	1
6	793A445P25	Terminal	2
7	N37P16006B6	Screw, #10-32 x 3/8"	1
8	N402P39B6	Flat washer, #10	1
9	N405P39B6	Lock washer, #10	1

Table 1. Parts included in the remote charge-indication switch kit.



Installing the Remote Charge-Indication Switch

Use the following procedure to install a new or replacement remote charge-indication switch, as illustrated in Figure 3.

- 1. Place the switch [1] in position on the flag shaft. Insert the mounting bolt [7], lock washer [9], and flat washer [8] through the rectangular hole in the switch and into the tapped hole in the flag shaft support plate. Do not tighten the bolt.
- 2. Adjust the switch position as follows:
 - a. Charge the breaker closing springs with the manual charging handle.
 - b. Rotate the switch until the switch trigger is fully depressed against the trigger pin, as illustrated in Figure 4.
 - c. Tighten the switch mounting bolt to 32 in-lb.
 - d. Close and trip the breaker.
- 3. Run the two wires from the switch to the secondary disconnect C block and connect them to terminals 8 and 17, as illustrated in Figure 5. Route the wires as shown in Figure 6. If there is no secondary disconnect C block installed, install the unit supplied with the kit, as described in the next section.

Install the Secondary Disconnect C Block

If there is no secondary disconnect C block installed on the breaker, use the following procedure to install the unit supplied with this kit, as illustrated in Figure 7.

- 1. Place the spring washer [5] on the molded pin on the underside of the disconnect body [2] and hold it in place.
- 2. Slide the mounting feet on the disconnect into the two slots in the secondary disconnect mounting plate.
- 3. Place the two screws [3] and spacers [4] into the slots on the front of the disconnect and into the tapped holes in the mounting plate. Tighten to 40 in-lb.
- 4. Connect the two wires from the remote charge-indication switch to terminals 8 and 17.

Replace the Escutcheon

Replace the breaker escutcheon, as follows:

- 1. Pull the manual charging handle out part way, then slide the handle through the slot in the replacement escutcheon and move the escutcheon into place. Insert the six mounting screws and tighten to 14–20 in-lb.
- 2. Replace the trim ring around the escutcheon, with the narrow side at the bottom. Insert the trim plate mounting rods into the rear of the escutcheon.

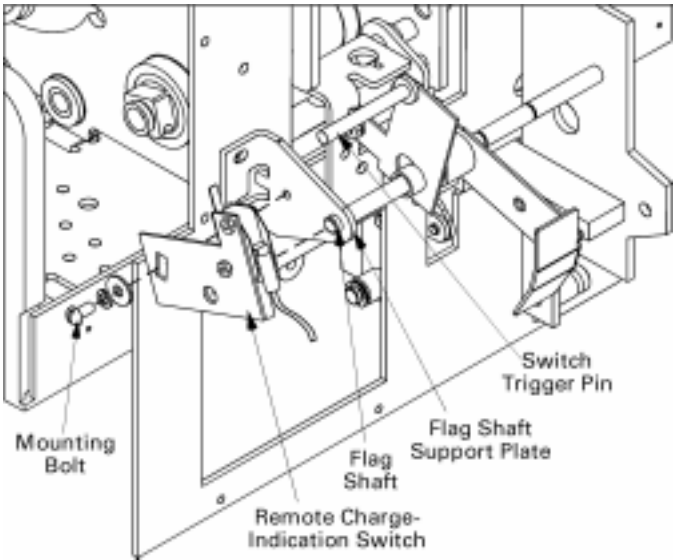


Figure 3. Remote charge-indication switch removal and installation.

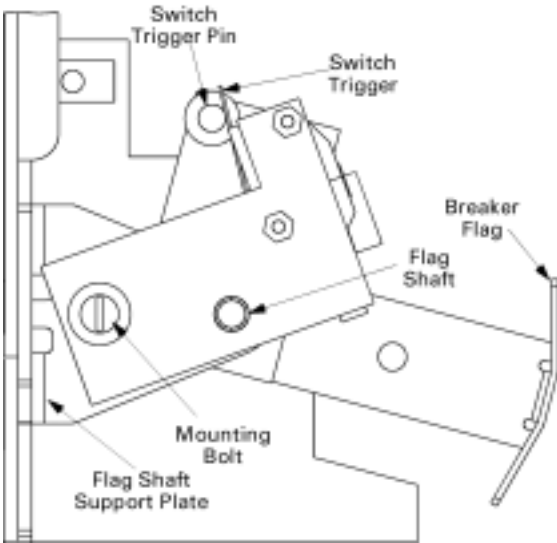


Figure 4. Remote charge-indication switch side view (installed).

9	8	7	6	5	4	3	2	1
18	17	16	15	14	13	12	11	10
27	26	25	24	23	22	21	20	19
36	35	34	33	32	31	30	29	28

Figure 5. Secondary disconnect terminal numbering.

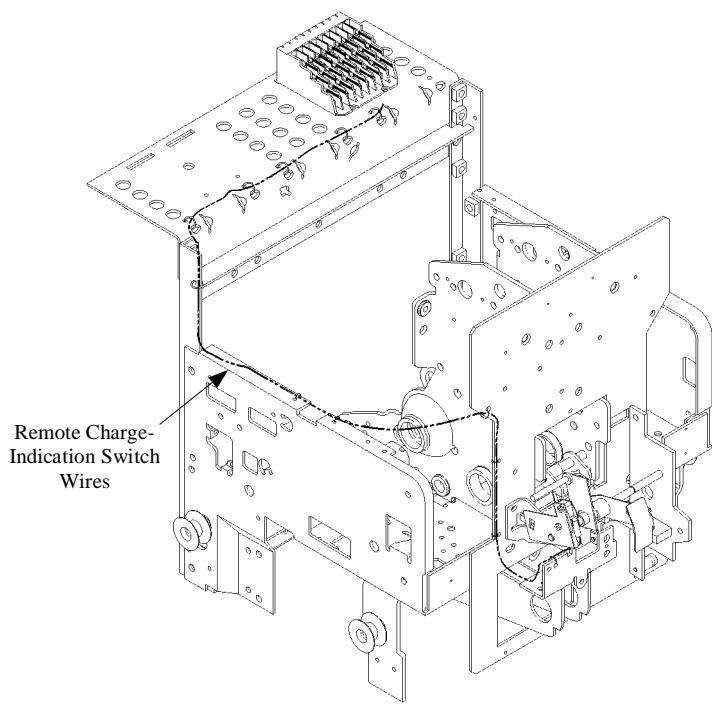


Figure 6. Recommended wire routing from the remote charge-indication switch to secondary disconnect block C.

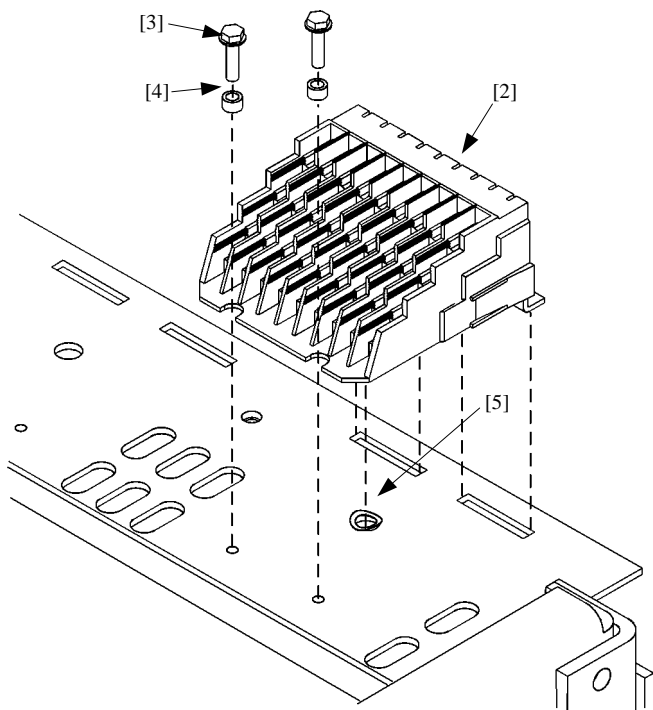


Figure 7. Installing the secondary disconnect.

These instructions do not cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to the GE Company.



GE Industrial Systems

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