

# Spring release kit in Magnum low voltage circuit breakers

## ⚠ WARNING

(1) ONLY QUALIFIED ELECTRICAL PERSONNEL SHOULD BE PERMITTED TO WORK ON THE EQUIPMENT.  
 (2) ALWAYS DE-ENERGIZE PRIMARY AND SECONDARY CIRCUITS IF A CIRCUIT BREAKER CANNOT BE REMOVED TO A SAFE WORK LOCATION.  
 (3) DRAWOUT CIRCUIT BREAKERS SHOULD BE LEVERED (RACKED) OUT TO THE DISCONNECT POSITION.  
 (4) ALL CIRCUIT BREAKERS SHOULD BE SWITCHED TO THE OFF POSITION AND MECHANISM SPRINGS DISCHARGED.  
 FAILURE TO FOLLOW THESE STEPS FOR ALL PROCEDURES DESCRIBED IN THIS INSTRUCTION LEAFLET COULD RESULT IN DEATH, BODILY INJURY, OR PROPERTY DAMAGE.

## Section 1: General information

The spring release (SR) (closing coil) remotely closes the circuit breaker when the coil is energized by a voltage input. When the spring release is used in conjunction with a latch check switch, the closing spring must be fully charged and the trip latch reset (not held in the tripped position) for the spring release to operate. If these conditions are not met, the close signal will be ignored until it is removed and re-applied.

## Section 2: Installation of spring release

To install the spring release, proceed with the following six steps:

**Step 1:** Remove the front cover by unscrewing the hex-head captive bolts (four for three-pole, six for four-pole) that join the cover to the breaker housing using a 10 mm 1/4-inch drive socket. Then hold the charge handle down approximately 45 degrees to pull off the cover.

**Step 2:** Place the appropriate label on the front cover nameplate space located under "Accessories."

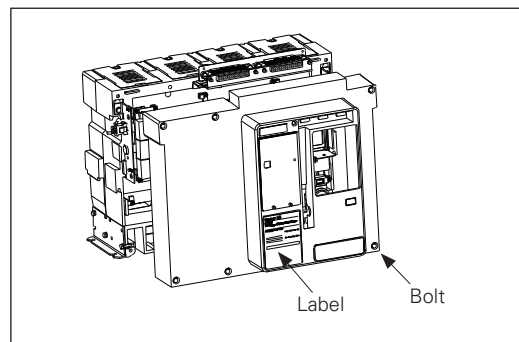


Figure 1. Steps 1 and 2

**Step 3:** Slide the lock on the spring release assembly to the unlocked (up) position. Install the hook feet down through openings as shown. Then slide the spring release forward so the feet engage the mounting plate. Slide the lock down into the locked position.

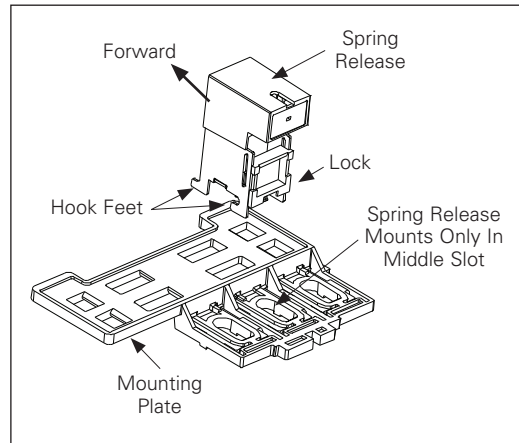


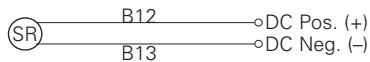
Figure 2. Step 3

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**⚠ CAUTION**

**BECOME FAMILIAR WITH THIS CAUTION ON POLARITY BEFORE PROCEEDING WITH STEPS 4 OR 5. FAILURE TO APPLY THE CORRECT POLARITY WILL RESULT IN DAMAGE TO THE DEVICE.**

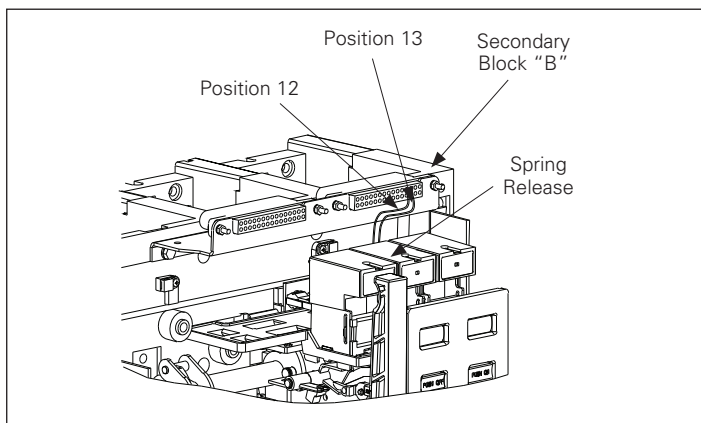


When connecting a 24 Vdc or 48 Vdc Spring Release Device, be certain to apply positive (+) voltage to the secondary terminal "B12."



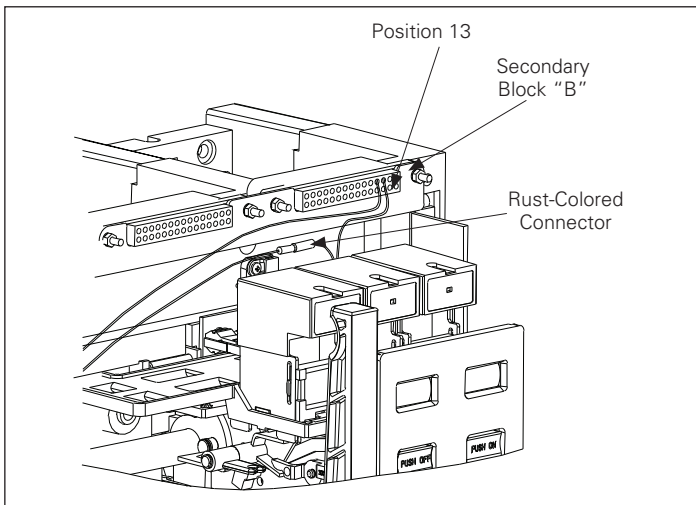
For a breaker with an 1150 trip unit and a 24 Vdc or 48 Vdc Spring Release Device, be certain to apply positive voltage to secondary terminal "A13" for INCOM Close.

**Step 4:** For a breaker **without** an 1150 trip unit, connect wires from spring release to secondary contact block "B" in keeping with markings on wires. If the breaker has an 1150 trip unit, skip this step and proceed directly to Step 5.



**Figure 3. Step 4**

**Step 5:** For a breaker **with** an 1150 trip unit only, find the rust-colored connector in the vicinity of where the spring release device is mounted. This two-piece connector will easily separate by pulling apart on the two ends. Insert the spring release wire marked "B12" into the connector until it snaps into place. Re-connect the rust-colored connector. Insert the spring release wire "B13" into the breaker secondary block "B" at position 13.



**Figure 4. Step 5**

**Step 6:** Reinstall front cover removed in Step 1.

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