

# Magnum Shutter Module (MSM)— user instructions

## ⚠ WARNING

(1) ONLY QUALIFIED ELECTRICAL PERSONNEL SHOULD BE PERMITTED TO WORK ON THE EQUIPMENT.

(2) DO NOT ATTEMPT TO INSTALL OR PERFORM MAINTENANCE ON THE EQUIPMENT WHILE ENERGIZED. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING.

(3) ALWAYS DE-ENERGIZE PRIMARY AND SECONDARY CIRCUITS BEFORE REMOVING CIRCUIT BREAKER.

FAILURE TO FOLLOW THESE STEPS FOR ALL PROCEDURES DESCRIBED IN THIS INSTRUCTION LEAFLET COULD RESULT IN DEATH, BODILY INJURY, OR PROPERTY DAMAGE.

## ⚠ CAUTION

SPECIFIC OPERATING PROCEDURES MUST BE DEVELOPED BY THE RESPONSIBLE PARTY, BECAUSE OF THE UNIQUE APPLICATION AND VAST VARIETY OF SYSTEM AND USER REQUIREMENTS. FAILURE TO DEVELOP SPECIFIC PROCEDURES COULD LEAD TO IMPROPER USE OR OTHER MORE SERIOUS CONSEQUENCES.

## ⚠ DANGER

HAZARDOUS VOLTAGE. WILL CAUSE SEVERE INJURY OR DEATH. DO NOT OPEN SHUTTER IF THE EQUIPMENT IS ENERGIZED.

## Instructions

To test the operation of the shutters inside a breaker cell:

1. Open the Magnum™ breaker door.
2. Remove circuit breaker if installed.
3. Extend the rails of the Magnum breaker cassette.
4. If necessary, pull spring plunger and rotate handle of MSM to the Start/Disengaged position. See **Figure 1** and **Figure 2**.

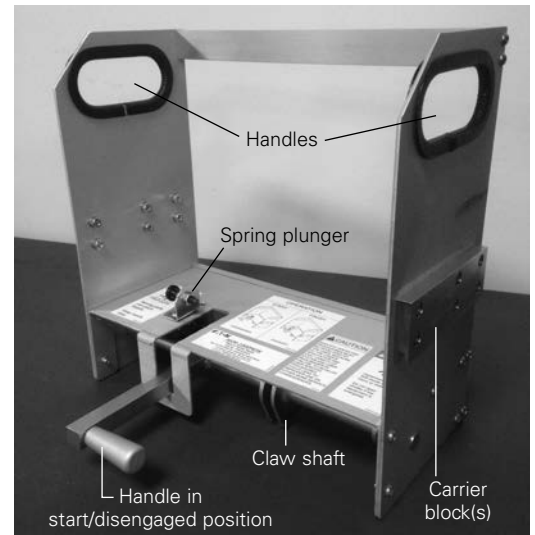


Figure 1.

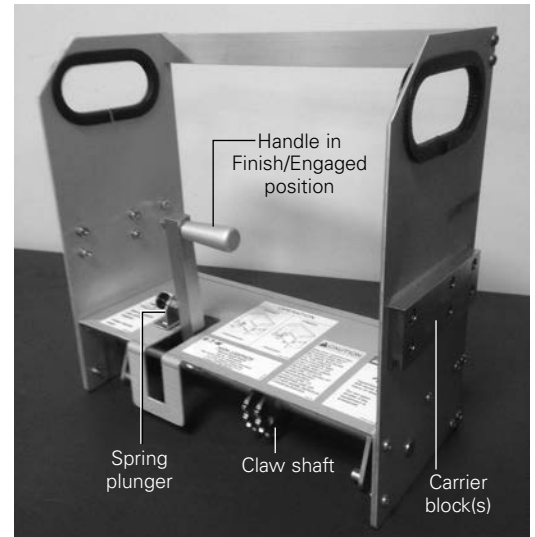


Figure 2.



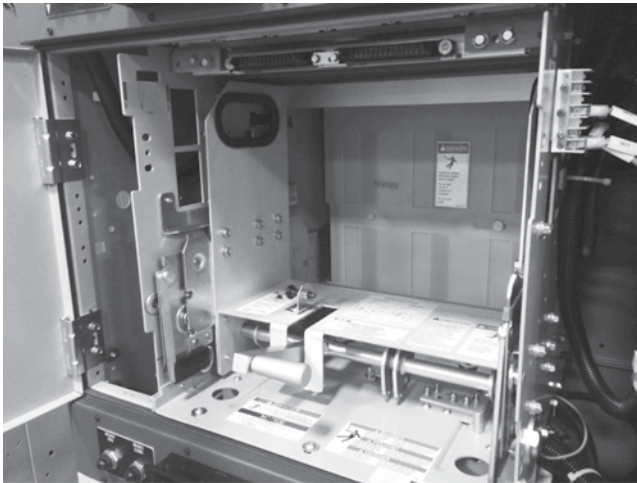
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- Place MSM onto the extended breaker cassette rails. Ensure that the carrier blocks of the MSM are fully seated on rails. See **Figure 3**.



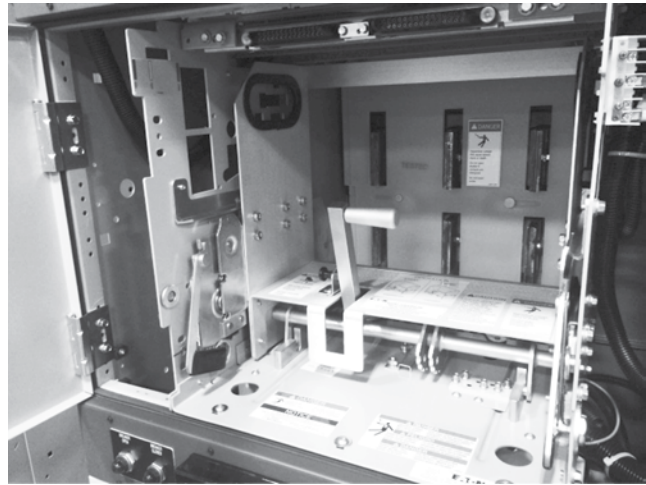
**Figure 3.**

- Push MSM into breaker cassette until the claw shaft engages the rack-in paws on the breaker cassette bottom pan. See **Figure 4**.



**Figure 4.**

- Rotate handle of MSM to the Finish/Engaged position so that the spring plunger engages hole on handle shaft. Verify that spring plunger is fully inserted into hole in handle shaft before releasing the handle. See **Figure 5**.



**Figure 5.**

To remove the MSM from the breaker cassette:

- Pull spring plunger and rotate handle of MSM to the Start/Disengaged position.
- Extend the rails of the Magnum breaker cassette.
- Using the handles on the sides of the MSM, lift the MSM off of the cassette rails.
- Push cassette rails completely into breaker cassette and close breaker door.

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

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