

# Cable lashing device—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**

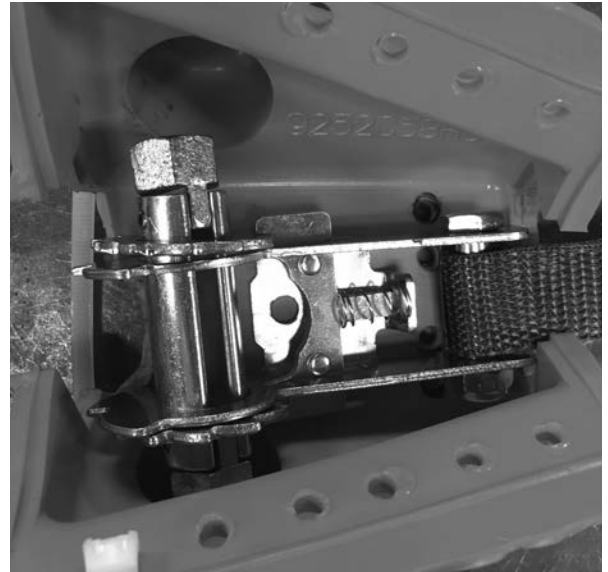
**SPECIFIC OPERATING PROCEDURES MUST BE DEVELOPED BY THE RESPONSIBLE PARTY, BECAUSE OF THE UNIQUE APPLICATION AND VAST VARIETY OF SYSTEM AND USER REQUIREMENTS. FAILURE TO DEVELOP SPECIFIC PROCEDURES COULD LEAD TO IMPROPER USE OR OTHER MORE SERIOUS CONSEQUENCES.**

## **⚠ DANGER**

**HAZARDOUS VOLTAGE. WILL CAUSE SEVERE INJURY OR DEATH. DO NO OPEN SHUTTER IF THE EQUIPMENT IS ENERGIZED.**

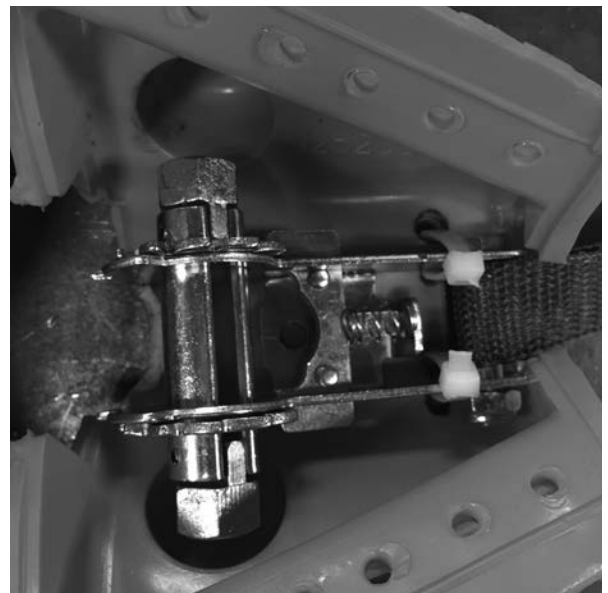
## Instructions

1. Position the ratchet in the insulation boot (see **Figure 1**).



**Figure 1.**

2. Using the larger zip ties, attach the ratchet to the insulation boot through the bottom holes (see **Figure 2**).

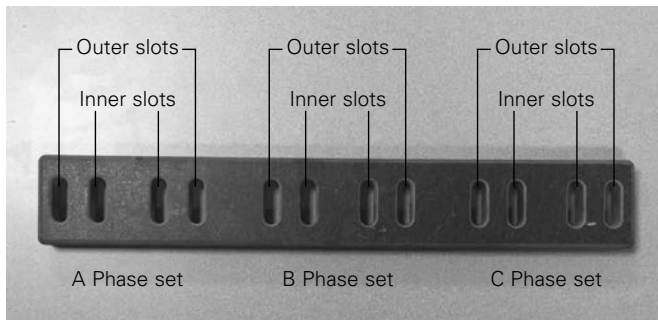


**Figure 2.**

# **EATON**

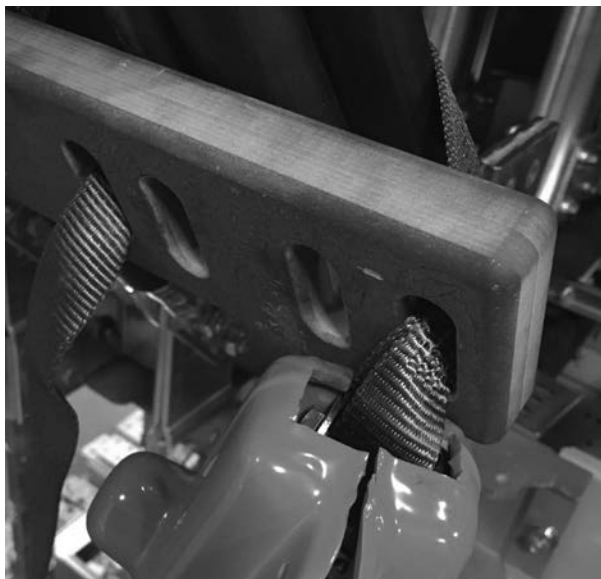
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3. Repeat steps 2 and 3 for the remaining sets of ratchets and boots.
4. Unravel the nylon strap. Thread the loose end of the nylon strap through one of the A Phase slots in the red cable brace. For larger-diameter cable bundles, use the outer right slot. For smaller-diameter cable bundles, use the inner right slot (see **Figure 3**).



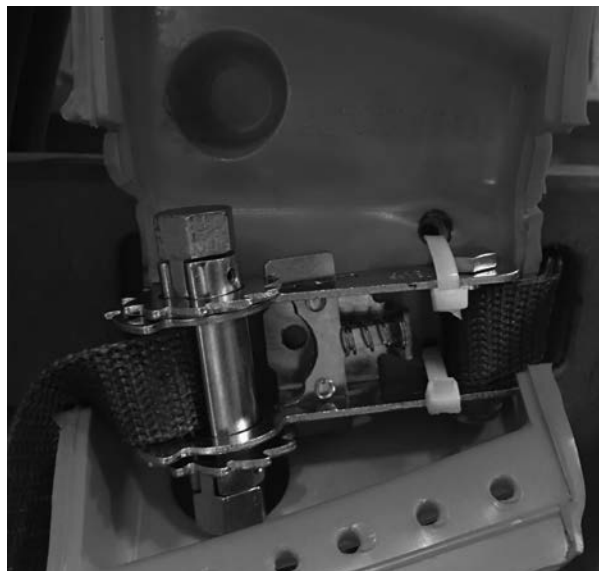
**Figure 3.**

5. With the cables routed and terminated, position the red cable brace, aligned with the cable phases, 6 inches (15 cm) from the lugs.
6. Wrap the strap around the cable bundle and thread the loose end of the nylon strap back through one slot in the A Phase set. For larger-diameter cable bundles, use the outer left slot. For smaller-diameter cable bundles, use the inner left slot (see **Figure 3** and **Figure 4**).



**Figure 4.**

7. Thread the loose end of the nylon strap through the ratchet device. Pull all slack through the ratchet until the ratchet is up against the red cable brace (see **Figure 5**).



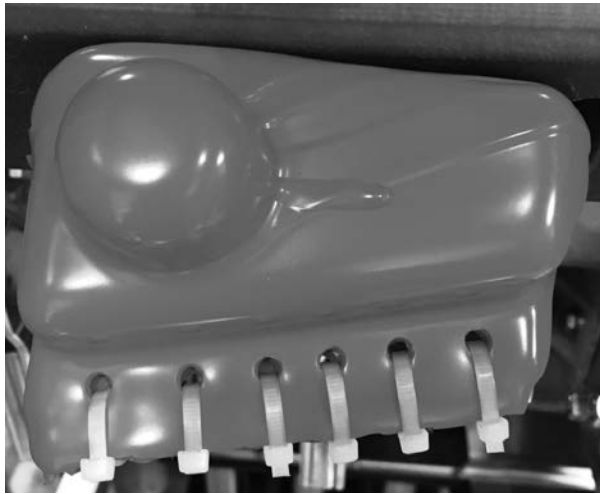
**Figure 5.**

8. Using a torque wrench with a 17 mm socket, tighten the ratchet strap to 25 to 30 ft-lb (33.9 to 40.7 N•m)
9. Repeat steps 5 through 8 for B Phase cables and C Phase cables using the second and third cable ratchets.
10. Position the fourth ratchet strap along the cable bundles 12 inches (30 cm) from the red cable brace. Wrap the nylon strap around all three cable bundles and thread the loose end through the ratchet until the ratchet is up against the cable bundles (see **Figure 6**).



**Figure 6.**

11. Using a torque wrench with a 17 mm socket, tighten the ratchet strap to 25 to 30 ft-lb (33.9 to 40.7 N•m).
12. Zip tie the insulation boots closed through the six pairs of holes (see **Figure 7**).

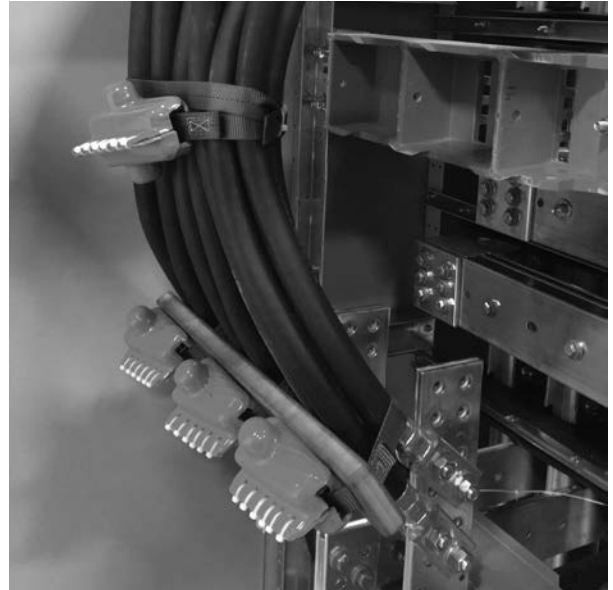


**Figure 7.**

13. Cut off excess nylon strap or bundle and zip tie out of the way (see **Figure 8** and **Figure 9**).



**Figure 8.**



**Figure 9.**

14. Cables should be wrapped at 12 inches (30 cm) increments to the entry or exit point of the switchgear, as feasible.

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