

# Magnum cassette narrow/double narrow frame rejection bracket replacement kit

For all narrow and double narrow cassettes built after February 2012

## ⚠ 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.**

## ⚠ WARNING

**THE INSTRUCTIONS CONTAINED IN THIS IL AND ON PRODUCT LABELS MUST BE FOLLOWED. OBSERVE THE FIVE SAFETY RULES.**

- **DISCONNECTING;**
- **ENSURE THAT DEVICES CANNOT BE ACCIDENTALLY RESTARTED;**
- **VERIFY ISOLATION FROM THE SUPPLY;**
- **EARTHING AND SHORT-CIRCUITING; AND;**
- **COVERING OR PROVIDING BARRIERS TO ADJACENT LIVE PARTS.**

**DISCONNECT THE EQUIPMENT FROM THE SUPPLY. USE ONLY AUTHORIZED SPARE PARTS IN THE REPAIR OF THE EQUIPMENT. THE SPECIFIED MAINTENANCE INTERVALS AS WELL AS THE INSTRUCTIONS FOR REPAIR AND EXCHANGE MUST BE STRICTLY ADHERED TO PREVENT INJURY TO PERSONNEL AND DAMAGE TO THE SWITCHBOARD.**

## Section 1: General information

Magnum drawout circuit breakers come in a variety of continuous current and interrupting ratings. To prevent the insertion of a drawout circuit breaker into a cassette with which it is incompatible, rejection interlock key plates are provided for both the circuit breaker and the cassette. As the breaker is pushed into the cassette, the interlock pins on the breaker move past the pins in the cassette if they are compatible.

### Required tools

- 10 mm socket and drive
- 10 mm wrench
- #2 Phillips screwdriver

### Kit parts identification

Refer to **Figure 1** for visual identification of the parts listed below:

- (A) Rejection bracket (one)
- (B) Rejection block (two)
- (C) Rejection pin (two)
- (D) M6 x 12 mm hex bolt (four)
- (E) M6 serrated lock washer (four)
- (F) M6 x 10 mm Phillips screw (two)

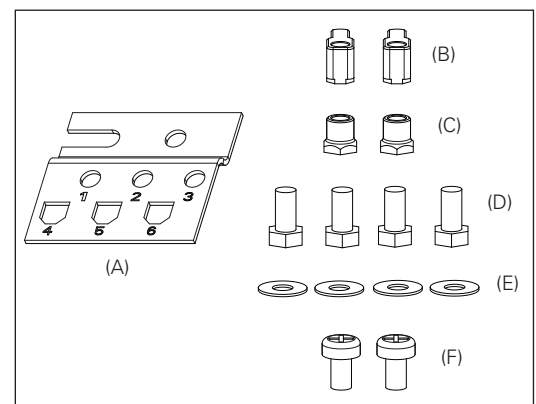


Figure 1. Contents of kit

## Section 2: Installation of rejection bracket kit

Proceed with the following 3 steps.

**Step 1:** From **Table 1** on **page 3**, determine the number and location of rejection blocks **(B)**, rejection pins **(C)**, washers **(E)**, and hex bolts **(D)** to be used. All parts are not required for all assemblies. Insert bolts and lock washers into the appropriate holes in the rejection bracket **(A)**, and assemble rejection pins and blocks from the other side. Torque to 8–10 ft-lb (10.5–13 N·m).

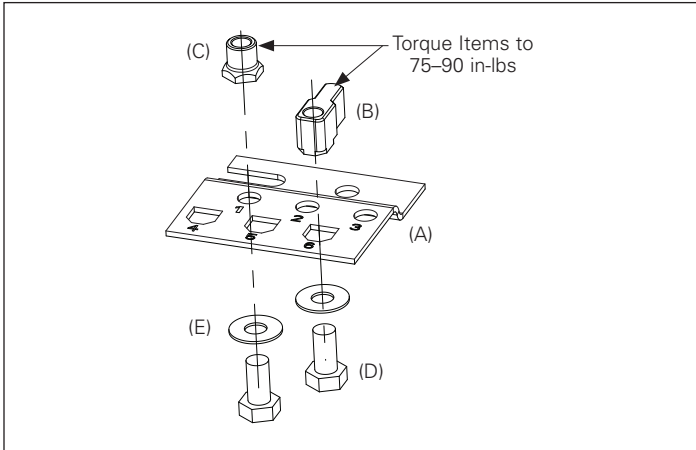


Figure 2. Step 1

**Note:** The rejection nut arrangement shown here is for reference purposes only, and is not a valid configuration. Also note that rejection block **(B)** only fits into positions 4, 5, or 6.

**Step 2:** Assemble the bracket assembly to the floor of the cassette as shown using two M6 x 10 mm thread-forming Phillips screws **(F)**. Torque to 8–10 ft-lb (10.5–13 N·m).

If the cassette is for use with a narrow breaker frame of 1600 A or below, the installation is complete. If the cassette is for use with a large breaker frame of 4000 A, proceed to **Step 3**.

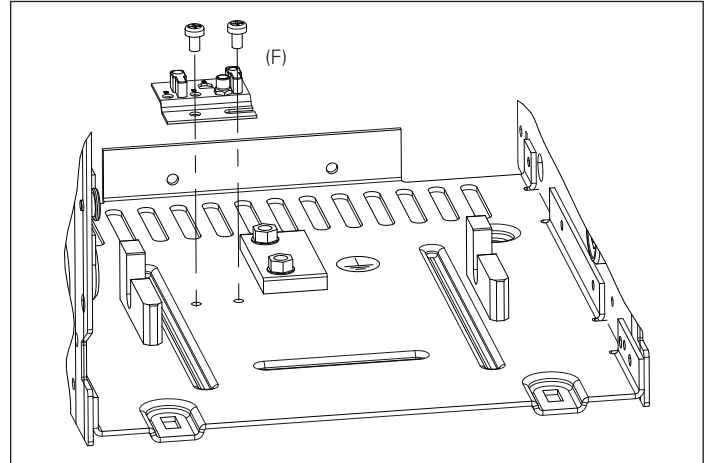


Figure 3. Step 2

**Step 3:** On cassettes for narrow breaker frames of 4000 A, install two identical rejection bracket assemblies as shown.

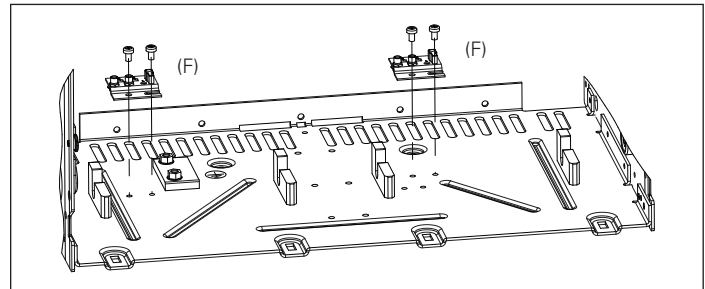


Figure 4. Step 3

**Table 1. BN, LN, and NN cassette rejection interlock pin locations**

MPN/SPN/MDN/SBN/MWN rating	Cassette codes = numbers					
	1	2	3	4	5	6
408/840			■	R-X	R-X	
508/84N	■			R-X	R-X	
608/84A		■		R-X	R-X	
C08/C40/410	■		■		R-X	
412/C4N			■	R-X		R-X
512/C4A	■			R-X		R-X
612/640	■	■				R-X
C12/64N/510		■	■			R-X
416/64A			■		R-X	R-X
516	■				R-X	R-X
616	■	■			R-X	
C16/MWN610		■	■		R-X	
MDN620/MWN520			■	R-X		
MWN620		■	■			

**Note:** Cassette positions labeled R-X only go to positions 4, 5, or 6 on bracket.

**Table 2. DEM cassette rejection interlock pin locations**

DEM rating	Cassette codes = numbers					
	1	2	3	4	5	6
DEM220			■	R-X		
DEM24N	■			R-X	R-X	
DEM25N	■				R-X	R-X

**Note:** Cassette positions labeled R-X only go to positions 4, 5, or 6 on bracket.

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