



INSTALLATION INSTRUCTIONS

ReliaGear™ lighting panelboards

Mounting hardware kit for FB and XT2 circuit breakers

Introduction

These instructions describe the installation of a three-pole FB or XT2 circuit breaker using the kit provided into a ReliaGear lighting panelboard.

The catalog number for XT2 three-pole mounting kit is ASPXT23P (Table 1). The catalog number for FB three-pole mounting kit is ASPFBRD3P (Table 2).

Table 1. Mounting kit for XT2 three-phase breaker, catalog number ASPXT23P.

Item #	Description	Part #	Qty.
1	XT2 left spool	30014873564P10	1
2	XT2 center spool	30014876551P19	1
3	XT2 right spool	30014877432P20	1
4	#10-32 x 1/2 recessed flat head screw	N84P16008B6	3
5	XT2 left cover	30019791975P2	1
6	XT2 center cover	30019791975P3	1
7	XT2 right cover	30019791975P4	1
8	#10-24 x 3/8 hex socket head screw	30021425143P1	3
9	XT2 mounting bracket	30020170827P1	1
10	Bracket insulation	30020170828P1	1
11	#6-32 x 3-3/4 pan head screw	30023310084P1	2
12	Load phase barrier	1SDA075914R1	2
13	Line phase barrier	30021918602P1	2
14	#10-32 x 3/8 thread rolling screw	N722P16006B6	2

Table 2. Mounting kit for three phases of FB breaker, catalog number ASPFBRD3P.

Item #	Description	Part #	Qty.
1	FB spool	10093207P2	3
2	#10-32 x 1.88" pan head screw	10093208P1	3
3	FB cover	30019791975P1	3
4	FB 3X mounting bracket	30022471264P1	1
5	#10-32 x 3/8 thread rolling screw	N722P16006B6	2
6	Cup washer	254V644P1	4
7	#8-32 x 2-7/8 screw	N80P15046B6	4

Installation

Use the following procedure to install an XT2 and/or FB breaker mounting kit into a ReliaGear lighting panelboard. Call-out numbers in the illustrations and numbers in brackets in the text refer to the Item Numbers in Tables 1 and 2. Installation of an XT2 breaker mounting kit is illustrated in Figures 1, 2, and 3. Installation of an FB breaker mounting kit is illustrated in Figures 4, 5, and 6.



WARNING: Danger of electrical shock or injury. Turn OFF power ahead of the panelboard before working inside the equipment or removing any component. Do not remove circuit protective devices or any other component until the power is turned OFF.

XT2 mounting kit

1. Remove the kit from its packaging and verify that all parts are present, as given in the parts list.
2. Remove the spool cover from the base by applying pressure to the handle on the snap.
3. Create circuit breaker sub-assembly following these steps:
 - a. Align breaker mounting holes with the mounting bracket [9] and insulation [10].
 - b. Fasten the breaker to the mounting bracket and insulation assembly by using the two #6-32x3.75" panhead screws [11] to 9-11 in-lbs.
4. Align spools [1,2,3] over the breaker terminals on the "ON" side.
5. Fasten the spools [1,2,3] with the pan head screws [4] to the breaker terminal to 27-33 in-lbs.
6. Snap the spool covers provided [5,6,7]
7. Drop the breaker sub-assembly. Align the breaker terminals over the spool inside the plastic base. On the "ON" side hand-tighten the 10-24 screws [8] to locate the breaker assembly. On the "OFF" side, align the mounting bracket on the breaker assembly over the panel bracket holes. Once aligned tighten the two #10-32 screws [14] to 40-44 in-lbs. Tighten the three self-rolling screws [8] to 40-50 in-lbs.
8. Place the load phase barrier [12] on the "OFF" side of the breaker and the line [13] phase on the "ON" side.

FB mounting kit

1. Remove the kit from its packaging and verify that all parts are present, as given in the parts list.
2. Remove the spool cover from the base by applying pressure to the handle on the snap.
3. Snap the spool cover provided [3] as shown in Figure 4.
4. Orient the bracket [4] as shown in Figure 5 according to the breaker position. Fasten with two #10-32x3/8" screws [5] to 40-44 in-lbs.
5. Align the "ON" side breaker terminal over the spool [1]. Hand-tighten the #10-32x1.88" screw [2] to make the spool captive to the breaker.
6. Drop the breaker into the branch. Align the mounting bracket on the breaker over the bracket holes. Once aligned tighten the #8-32 screw [7] to 20 in-lbs.
7. Tighten the #10-32x1.88" screws [2] to the strap inside the plastic base to 40-50 in-lbs.

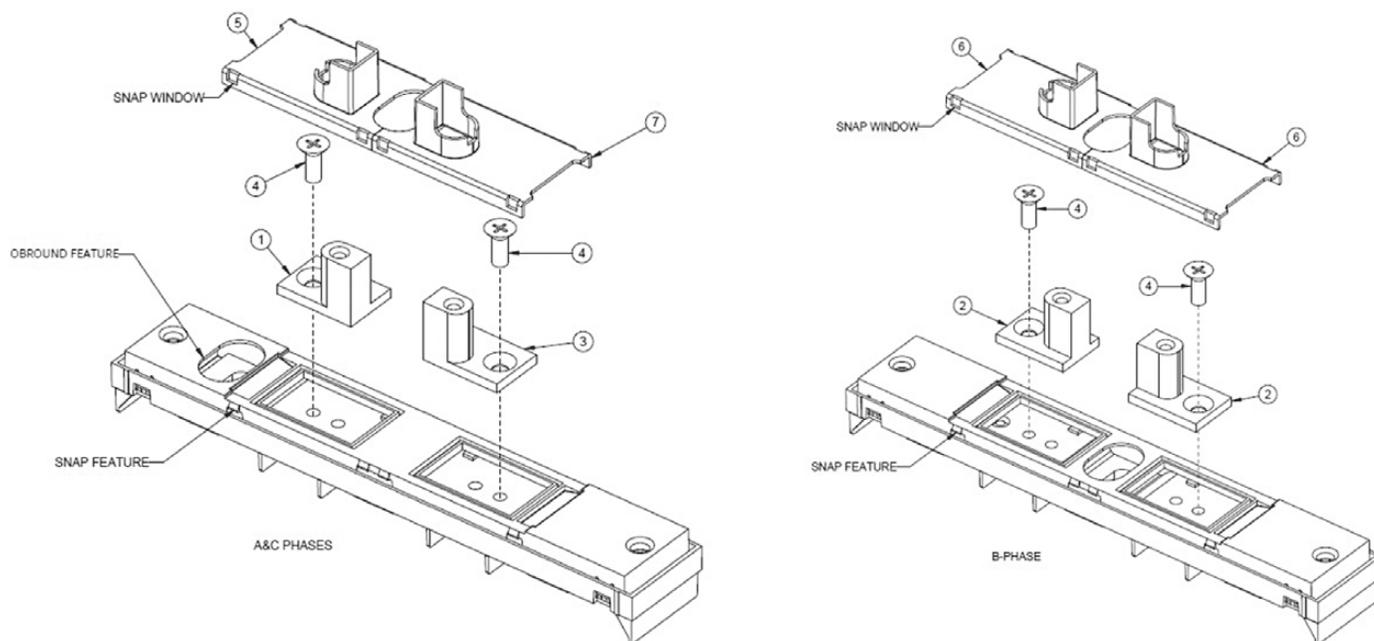


Figure 1. Installation of XT2 spools and covers

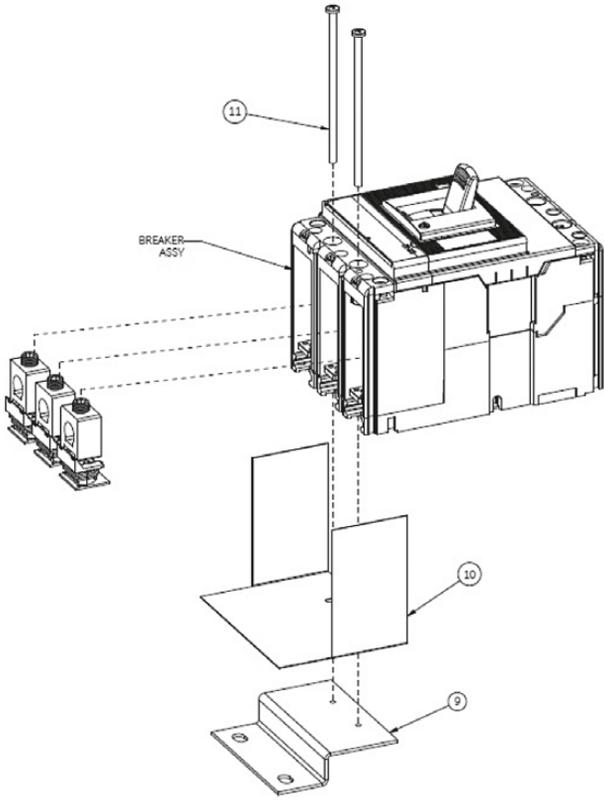


Figure 2. Installation of XT2 three-phase, three-pole breaker subassembly.

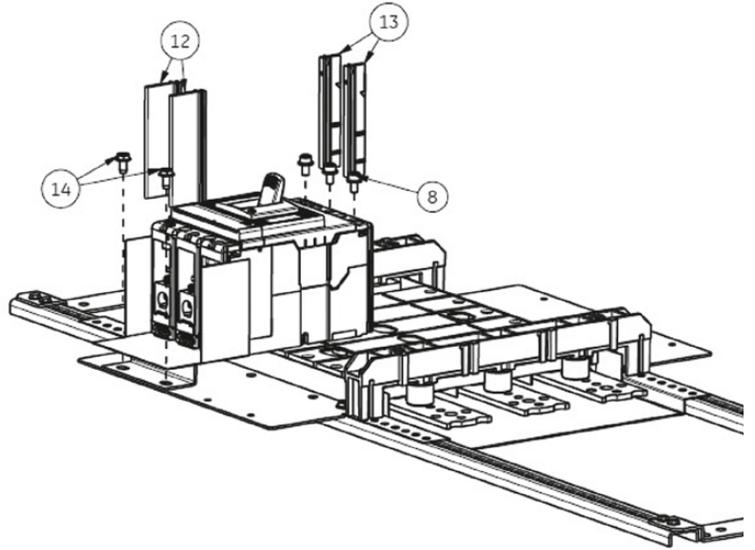


Figure 3. Installation of ASPXT23P on a lighting panelboard interior.

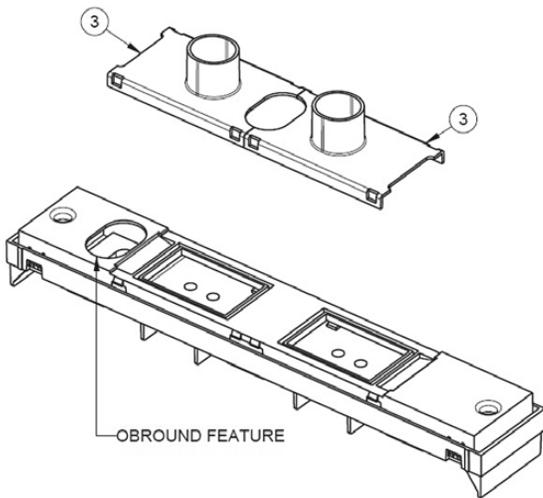


Figure 4. Installation of FB cover

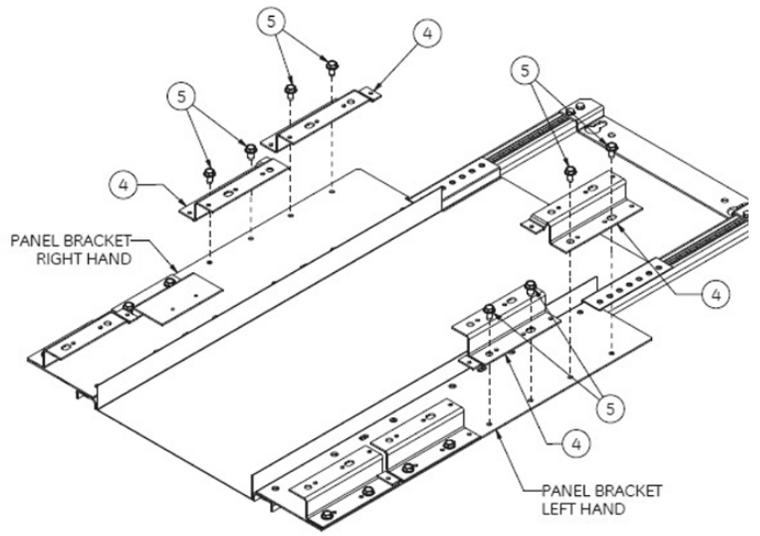


Figure 5. Installation of FB bracket

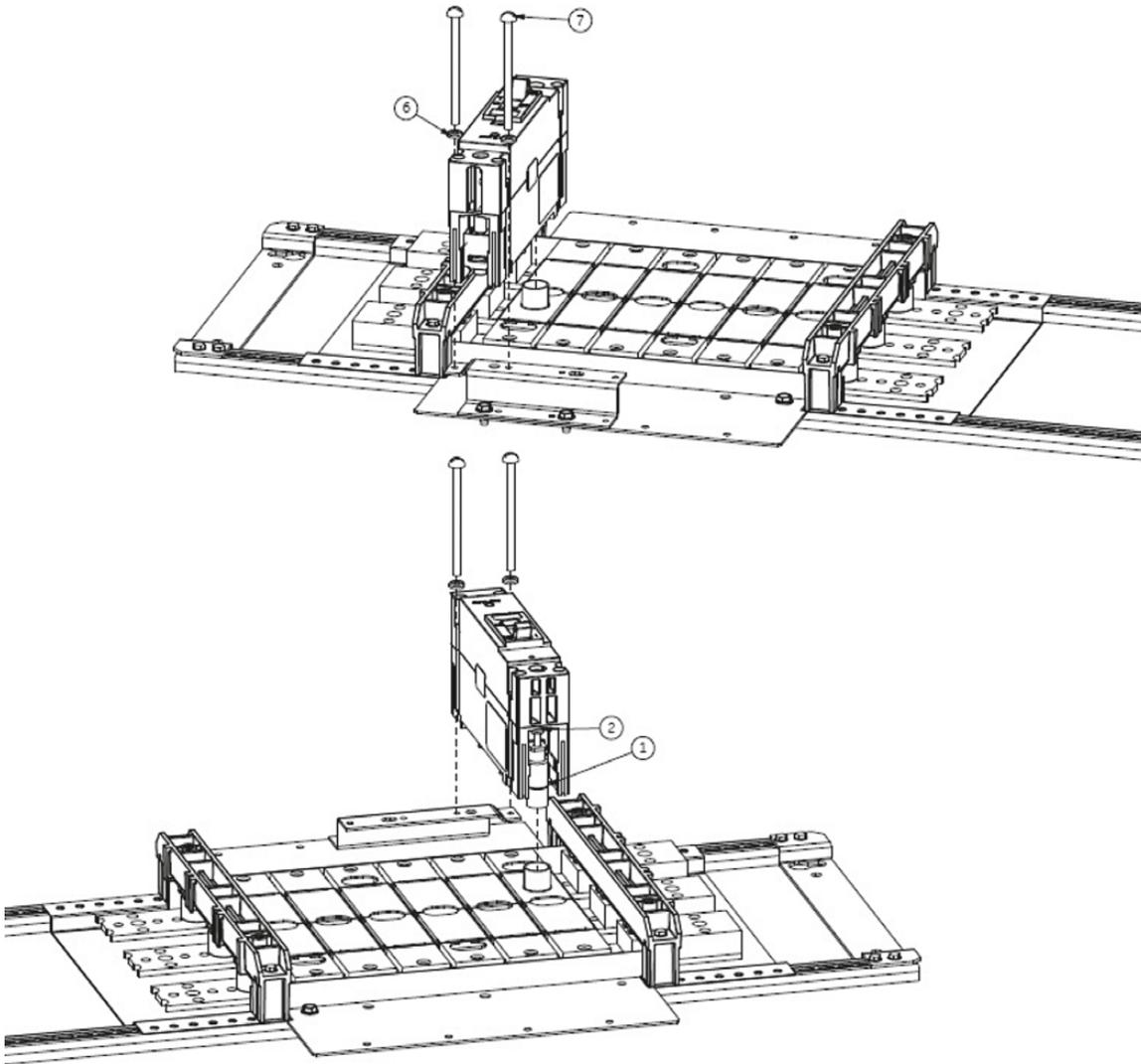


Figure 6. Installation of FB breaker

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