



T5 and T8 Fluorescent Fixture Bracket Kits

Part Numbers: 14050 and 14050B, 14051 and 14051B, 14055, 14056, 14057, 14060, 14065, 14066, 14067, and 14090. This Instruction Sheet also includes the installation of the Wiring Compartment/Ballast Cover (Part Number 14080), the 6-inch and 10-inch White Reflectors (Part Numbers 14091 and 14095) or the 6-inch and 10-inch Specular Reflectors (Part Numbers 14092 and 14096).



**RISK OF
ELECTRIC
SHOCK**

- TO BE INSTALLED BY A QUALIFIED ELECTRICIAN
- **WARNING:** ELECTRICAL SHOCK HAZARD
- MAKE SURE THAT THE POWER IS "OFF" AT THE CIRCUIT BREAKER BEFORE PROCEEDING
- INSTALLATION OF EPCO'S FIXTURE BRACKET RETROFIT CONVERSION KITS SHOULD ONLY BE USED IN CONJUNCTION WITH ELECTRICAL WIRING SYSTEMS THAT IS IN GOOD WORKING ORDER AND MEETS ALL APPLICABLE LOCAL ORDINANCES AND NATIONAL ELECTRICAL CODES.
- USE EXTRA CAUTION TO ENSURE THE BALLAST, WIRING SYSTEMS, OR OTHER ELECTRICAL PARTS ARE NOT DAMAGED DURING DRILLING OR THE INSTALLATION OF RETROFIT COMPONENTS.

NOTE: EPCO's Fixture Bracket RetroFit Conversion Kits only accommodate luminaire housings between 4.25" and 5.0" wide.

1. Remove the existing fluorescent lamps from the fixture.
2. Remove and set aside the existing ballast cover(s) if you intend to re-use them. Remove the existing lamp socket plates. If the lamp holder socket plates are attached to the fixture housing, separate them from the end caps and set the end caps aside.
3. Disconnect the incoming supply conductors. Remove the existing ballast.
4. Reversing the order of the removal instructions completes the installation of the new electronic ballast.
Note: In some cases the original ballast mounting holes may not line up with the new ballast. New holes may have to be drilled into the fixture housing to secure the new electronic ballast.
5. For 8-foot "strip-light" luminaires the Fixture Bracket Kit Socket Plates are divided into three (3) sections; two (2) end sections and one (1) center section. Bend the end and center sections on the socket plates back and forth until they separate. Follow this same procedure for the opposite end of the center section. See Figure 1.
6. Bend the flexible tabs of all three sections of the RetroFit Socket Plate approximately 90 degrees. See Figure 2.
Note: Check the width of the fixture housing! If the fixture housing is 4-inches wide, bend the socket plate as shown in Figure 3. If the Luminaire Housing is 5-inches wide, bend the Socket Plate at the points shown in Figure 3.
7. Before installing the two (2) end sections and one (1) center section onto the 8-foot "strip-light" luminaire, it is recommended that you first pre-wire the lamp holders that are installed in the socket plate to the ballast conductors.
Note: T5 and T8 Ballast terminations from each manufacturer are different. Consult the wiring diagram on the T5 or T8 Ballast to ensure the correct connections are accurate from the ballast leads to the lamp manufacturer's ballast warranty.
8. When you have connected the respective conductors from the T5 or T8 ballast to the socket plates, you are ready to install the two (2) end sections and one (1) center section socket plate to the fixture housing. Starting at one end of the fixture housing, invert the end socket plate and push it up and into the location on the fixture housing where the original socket plate was removed. Make sure that you have placed socket plate to the outermost edge on the fixture housing to accommodate the length of the fluorescent lamps.

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Note: If you are installing the Fixture Bracket RetroFit Conversion Kit on a 4-foot luminaire, (P/Ns 14057, 14066, 14067, 14076, 14077, or 14090) you only need to install the two (2) end sections.

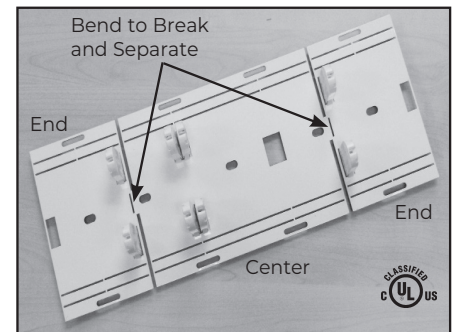


Figure 1: Preparing the RetroFit Socket Plate for Installation.

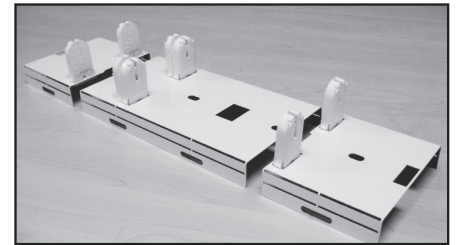


Figure 2: Bend the flexible tabs on the Retrofit Socket Plate 90 Degrees.

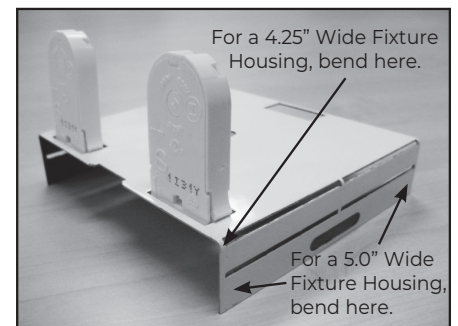


Figure 3: RetroFit Socket Plate for Installation on a 4.25" wide Luminaire Housing.



9. Secure the end socket plate using the self-tapping screws (supplied) in the slotted holes. If necessary, re-install the end cap into the existing holes on the fixture housing.
Note: Some fixture housing may require you to invert the original fixture housing's end cap 180 degrees and drill new mounting holes so it will fit and accommodate the left and right socket plates.
10. Dress the wires and push them up and into the fixture housing. Conductors should be reliably positioned away from all bracket mounting (self-drilling) screws. Follow this same procedure for the opposite end of the fixture housing.
Note: Step 11 does not apply when retrofitting 4-foot luminaires.
11. To install the center section, find the center of the luminaire. Place a mark approximately 48-inches from the left or right end of the fixture housing. When you have located the center of the fixture housing, install the center section socket plate. Align the center section socket plate over the 48-inch mark using the two (2) lamp sockets as a guide. See Figure 4. Secure the center section socket plate using the self-tapping screws (included) through the slotted holes. Figure 4A shows the wiring connections from the incoming supply conductors and the respective terminations to each lamp holder on the socket plates.
Note: Engineered Products Company recommends that you install a "Luminaire Disconnect" color-coded for the incoming "Black" and "White" supply conductors. The Luminaire Disconnect is not included in any EPCO RetroFit Conversion Kit and must be purchased separately from your local Electrical Distributor.
Optional: If you are installing the Ballast Cover, the 6-inch or the 10-inch White or Specular Reflectors, continue to step 13.
12. Dress the remaining wires and push them up and into the fixture housing. Conductors should be reliably positioned away from all bracket mounting (self-drilling) screws.
13. Install the two (2) new Ballast Covers or the "White" or "Specular" Reflectors. Installation of each Ballast Cover or Reflector requires two (2) 1/4 Turn Retainer Clips. At each end of the Ballast Cover or Reflector there is a 1/2" (12.7mm) round hole. Start at the one side of the fixture housing, place the 1/2" hole on the Ballast Cover over the slotted hole on the end socket plate, insert one (1) 1/4 Turn Retainer Clip through the Ballast Cover and socket plate, then rotate the Retainer Clip one quarter turn to attach the Ballast Cover or Reflector. See Figures 5 and 5a. Follow the same procedure on the opposite end of the Ballast Cover or Reflector.
14. Re-lamp the luminaire with new T5 or T8 fluorescent lamps. Take extra care to ensure the lamps have been rotated and "fully" seated into the lamp holder. Restore the power.

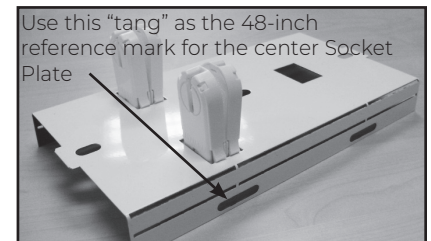


Figure 4: Locate the RetroFit "Center" Socket Plate on the 8-foot Luminaire Housing.

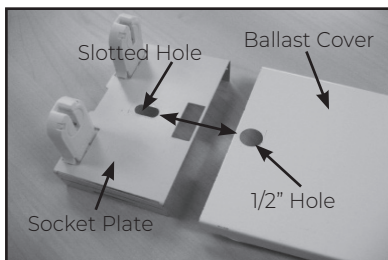


Figure 5: Align the slotted hole on the left-side Socket Plate to the 1/2" hole on the Ballast Cover.

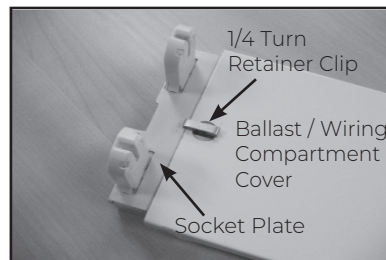


Figure 5a: Connect the end of the Socket Plate to the Ballast Cover using the Retainer Clip.

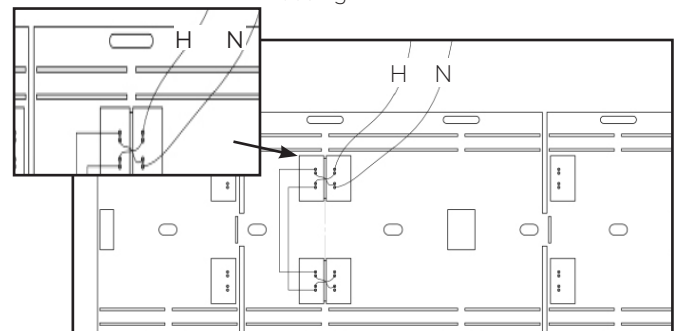


Figure 4a: Wiring diagram showing the incoming supply connection to the lamp holders and "jumped" to each port on the four (4) lamp holders.

Stock Code: E00-701-007

