

# Instruction Sheet Number **IS:FX99**

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For Assembly and Installation of FX99

**Read and understand these instructions before installing luminaire.**

This luminaire is intended for installation in accordance with the National Electrical Code and local regulations. To assure full compliance with local codes and regulations, check with your local electrical inspector before installation. To prevent electrical shock, turn off electricity at fuse box before proceeding.

**Retain these instructions for maintenance reference.**

## **PowerTrip™ CONNECTOR FX99 FOR USE WITH FX SERIES SURFACE MOUNT TANGENT™ TRACK AND PLD SERIES POWERTRIP BREAKERS ONLY.**

### **NOTE:**

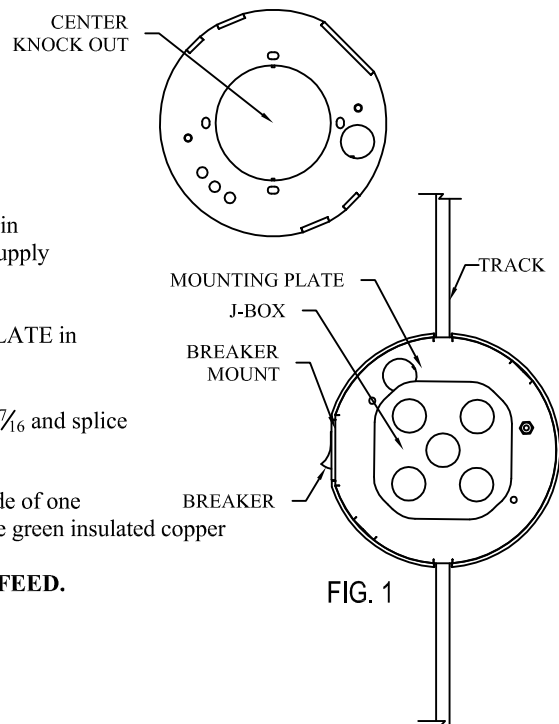
POWERTRIP CONNECTOR CAN BE FED USING A JUNCTION BOX. FED DIRECTLY USING FLEXIBLE OR RIGID CONDUIT WITH  $\frac{3}{8}$  OR  $\frac{1}{2}$  ELECTRICAL CONNECTOR FROM STANDARD CEILINGS OR GRID CEILING RUNNER SYSTEMS.

- **TURN POWER OFF AT BREAKER BOX BEFORE INSTALLING ELECTRICAL CONNECTOR AND TRACK.**
- **IF FEEDING WITH ELECTRICAL CONNECTORS: DO NOT USE POWERTRIP AS A CONDUIT SUPPORT. INDEPENDANT CONDUIT SUPPORTS MUST BE USED TO ATTACH THE CONDUIT TO THE BUILDING STRUCTURE.**
- **OBSERVE POLARITY; WHITE NEUTRAL WIRE MUST BE CONNECTED TO THE TERMINAL MARKED "NEUT" IN THE POWERTRIP CONNECTOR**
- **USE 12 GA. OR 14 GA. SOLID WIRE IN CONNECTOR ONLY. CONNECTOR RATING 120V, 20AMP, 60HZ.**
- **USE THE PROPER CURRENT RATED LIGHTOLIER PLD SERIES BREAKER TO LIMIT THE LOAD ON THE CIRCUIT. (BREAKERS SOLD SEPERATELY)**
- **POWERTRIP INSTALLS TO STRAIGHT SECTION OF TRACK ONLY.**
- **DO NOT POSITION LUMINAIRE SUCH THAT IT TOUCHES THE POWERTRIP CONNECTOR.**

### **A. INSTALLING POWERTRIP FEED (FX99) TO JBOX**

1. Remove center knockout from MOUNTING PLATE.
1. Install MOUNTING PLATE to JUNCTION BOX.  
NOTE: TRACK WILL RUN PERPENDICULAR TO BREAKER MOUNT ACCORDINGLY (Fig. 1)
2. Pass LINE, NEUTRAL, and GROUND LEADS through middle knockout in center of MOUNTING PLATE. (Use Solid 12 AWG or 14 AWG copper supply only, DO NOT USE stranded wire).
3. Insert BREAKER (**PURCHASED SEPERATELY**) into MOUNTING PLATE in rectangular opening on the flange.
4. Take the LINE (bk lead) from the JUNCTION BOX and strip back the wire  $\frac{7}{16}$  and splice to one of the BLACK LEADS off of the BREAKER TERMINAL .
5. Take the GROUND (green wire) and strip back enough to place on one side of one #8 GND screw. Keep uninsulated wires away from breaker terminal. Use green insulated copper wire (by others) to pigtail off remaining #8 GND screw. (Fig. 2)  
(Note: Pigtail must be long enough to reach ground terminal in POWERFEED.  
Each ground terminal accepts one wire only)

6. Take POWERFEED assembly and slide off POWERFEED SLEEVE Exposing two inner halves that are utilized for wiring connections. (Fig. 2)



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# Instruction Sheet Number **IS:FX99**

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For Assembly and Installation of FX99

**NOTE: IF WIRE NEEDS TO GO TO OPPOSITE SIDE OF TRACK, GO OVER THE TRACK NOT UNDER.**

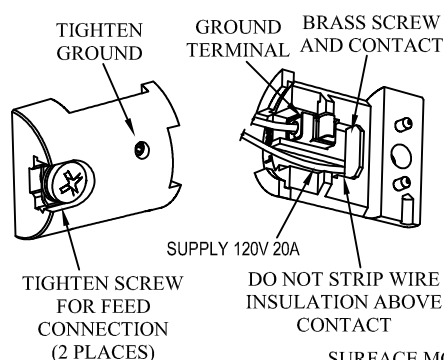
7. Use **BLACK TERMINAL LEAD** from **BREAKER TERMINAL** to "HOT" 120V LEAD to terminal marked L (brass screw) on inner half.

FIG. 2

8. Strip **NEUTRAL SUPPLY LEAD 0.44" ±0.03"**. Fasten leads to **TERMINALS**: **NEUTRAL LEAD** to terminal marked **NEUT** (silver screw).

9. Tighten **BRASS** and **SILVER** screws to secure **SUPPLY LEADS**

10. Strip **GREEN PIGTAIL** from the #8 green screw and washer pem to 0.44" and insert into **GROUND TERMINAL** marked **GND**. Tighten set screws with provided hex allen wrench. **GROUND** must be same wire AWG as **SUPPLY WIRES** (Fig. 6).



SILVER SCREW AND CONTACT

FIG. 3

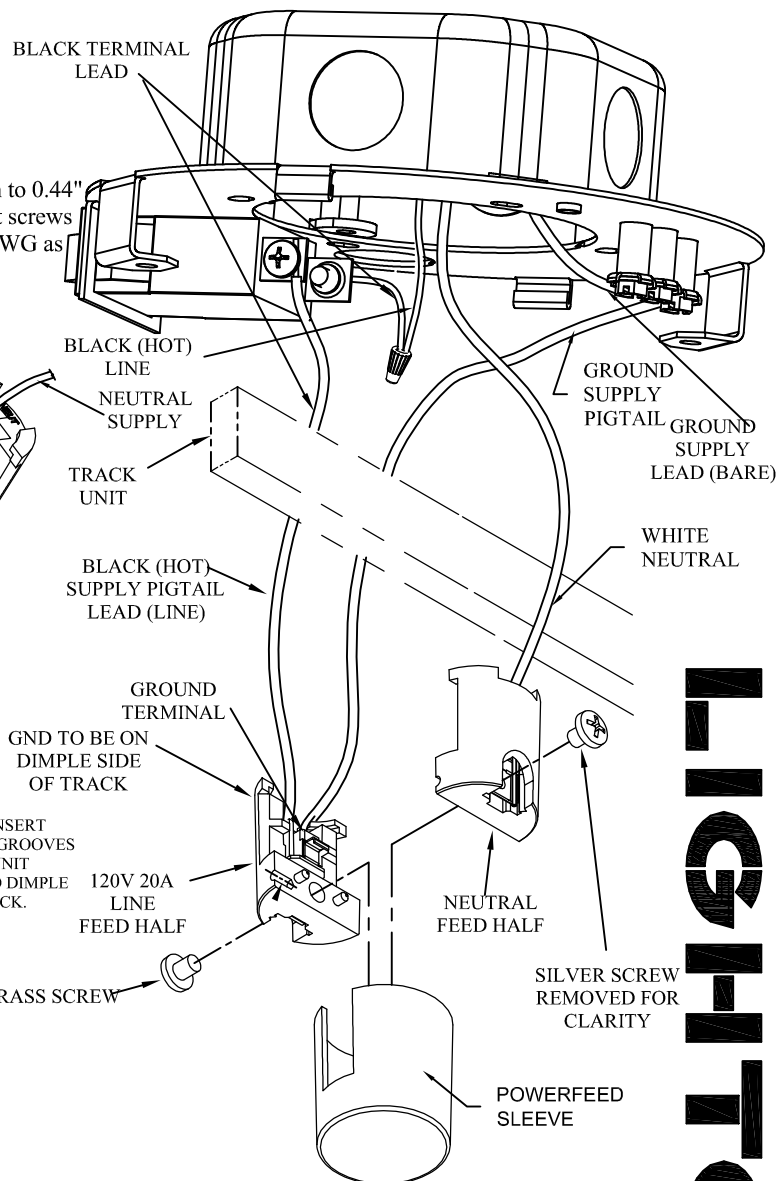


FIG. 4

11. Clamp **FEED HALVES** into track. Ensure **GROUND CONTACT** is inserted into groove containing polarity dimples (Fig. 4).

12. Replace **POWERFEED SLEEVE**.

13. Attach track to **MOUNTING CLIPS** by tightening set screw into the track (see **INSTRUCTION SHEET FX04** pg.2 sec. A) with provided hex allen wrench.

14. Push **PowerTrip COVER** up into place and fasten with **TORX** screw with the provided **TORX** bit. (Fig.5)

**DO NOT PINCH ANY WIRES.**

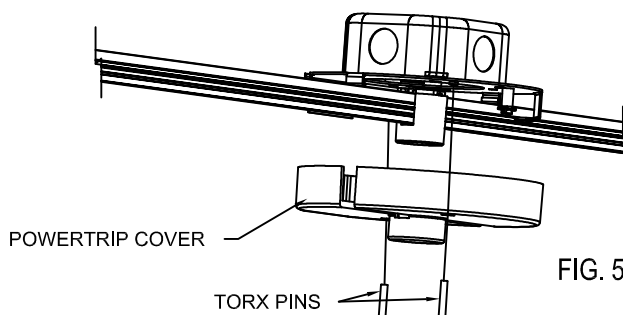


FIG. 5

## **B. INSTALLING POWERTRIP FEED (FX99) TO DIRECT FEED CONDUIT CONNECTION ON DRYWALL OR GRID PANEL CEILING**

1. Cut out template located on last page of instruction sheet of POWERTRIP FEED (FX99) and orient on ceiling for mounting position.

NOTE: TRACK WILL RUN PERPENDICULAR TO BREAKER MOUNT  
ACCORDINGLY

2. Punch out  $\frac{7}{8}$ " knockout on MOUNTING PLATE and attach conduit fitting connection (by others) to MOUNTING PLATE.
3. Cut hole in drywall for conduit fitting and wires. See template for hole location.
4. Pass LINE, NEUTRAL, and GROUND LEADS through  $\frac{7}{8}$ " knock out with a secure connection (supplied by others) and fasten with min. 6" leads coming out past MOUNTING PLATE. (Use Solid 12 AWG or 14 AWG copper supply only, DO NOT USE stranded wire).
5. Secure MOUNTING PLATE to drywall ceiling with appropriate mounting hardware (not provided). If grid ceiling, do not fasten MOUNTING PLATE to tiles. For grid ceiling full assembly of POWERTRIP is required on track before track is mounted to grid ceiling.

NOTE: IF USING FOR GRID CEILING THE POWERTRIP WILL BE FREE  
FLOATING AND SUPPORTED BY MOUNTING THE TRACK WITH POWERTRIP  
CONNECTED.

6. Than follow steps 3-14 for wiring on pages 1 & 2.

