

# INSTRUCTIONS

## TK TRACK CONNECTORS INSTALLATION



RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: [marketing@rablighting.com](mailto:marketing@rablighting.com)

**\*\* DON'T TOSS IT—RECYCLE IT! MAKE THE SUSTAINABLE CHOICE BY RECYCLING THIS FIXTURE AT END OF LIFE WITH A LICENSED RECYCLING PROVIDER. \*\***

### IMPORTANT

#### READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RAB fixtures must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

Read all instructions prior to installation. Always turn off main power before installation. Installation must be carried out by a trained and knowledgeable electrician.

When installing or using the track system, basic safety precaution **MUST** always be followed, including the following;

#### Read all instructions.

- Disconnect electrical power before adding or changing the configuration of the track.
- Do NOT install this track in damp or wet locations.
- Do NOT install any fixture assembly closer than 6 inches from any curtain or combustible materials.
- Do NOT install any part of the track system less than 5 feet above the floor
- Do NOT attempt to energize anything other than lighting fixtures on the track. To reduce risk of fire and electrical shock, do not attempt to connect power tools, extension cords, convenience receptacle adapters, appliances or the like to the track.
- Do not connect a track to more than one branch circuit Although track light system may seem to operate acceptably, a dangerous overload of the neutral may occur and result in a risk of fire.
- The track and all components are rated 120V, 50 60 Hz 20A max. Do NOT exceed the nominal supply voltage and current rating.

### IDENTIFYING POLARITY

- The Polarity Line identifies the Ground Bus Bar and runs the entire length of the track. When installing feeds or connectors, the Polarity Indicator (small arrow) must be inserted pointing at the Polarity Line.
- All fixtures have indicator arrows designed to point to the track polarity line.
- To install:
  - A. Insert the fixture contacts into the track channel.
  - B. Retract the track latch by gently pulling down.
  - C. Rotate the adaptor 90° so that the polarity arrow points to the polarity line on the track.
- When the fixture is installed, the track latch will lock the fixture into the track.

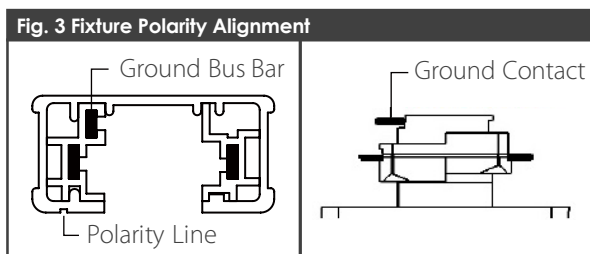
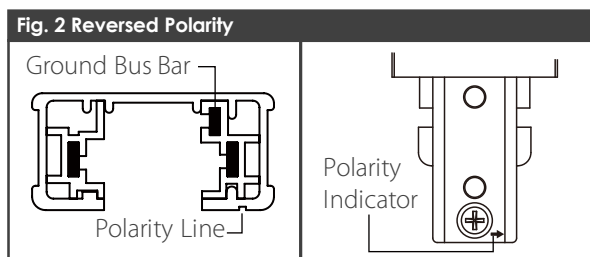
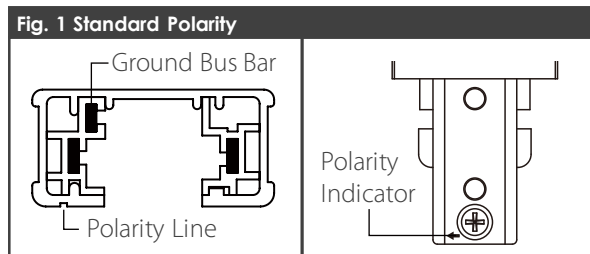
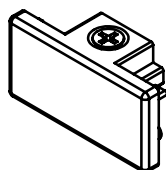
**Note: All Latches should face in the same direction after installation.**

- Once the fixture is installed into the track, move the ON/OFF switch to the ON position

### TRACK SYSTEM INSTALLATION - ACCESSORIES

#### 1 End Cap (TK-EC)

Covers end of the track section. One included with each track.



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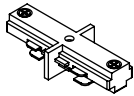


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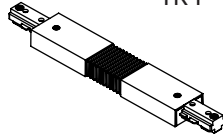
### TRACK SYSTEM INSTALLATION - CONNECTORS

#### 1 Mini Connector TK-I



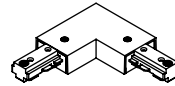
Connects two Track sections. Low profile design for a clean continuous run.

#### 2 Flexible Connector TK-F



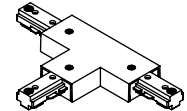
Connects two Track sections up to 90° left, right, up or down.

#### 3 L Connector TK-L



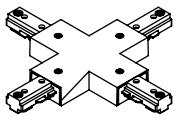
Connects two Track sections in a straight or L configuration.

#### 4 T Connector TK-T



Connects three Track sections in a T configuration. Adjustable for right or left application.

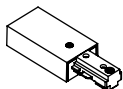
#### 5 X Connector TK-X



Connects four Track sections in a X configuration. Factory wired for two separate 90° runs. Can be field wired for one run.

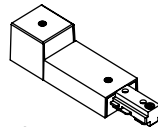
### TRACK SYSTEM INSTALLATION - POWER FEEDS

#### 1 Top Access End Feed TK-EF



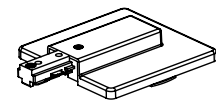
For direct wiring through ceiling with junction box or end feed in suspension, cover plate is required over junction box. Accepts 3/8" or 1/2" standard electrical fittings.

#### 2 Surface Conduit End Feed TK-CF



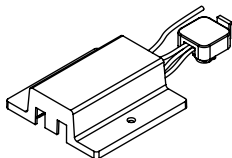
For surface conduit wiring. Accepts 3/8" or 1/2" standard electrical fittings.

#### 3 End feed Kit with cover TK-JB



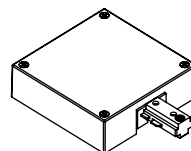
For wiring through junction box. Built-in Junction Box.

#### 4 Floating Canopy TK-FC



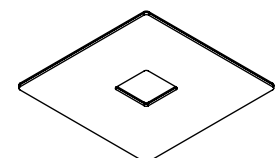
For wiring through junction box. Can be located anywhere along track.

#### 5 T-Bar End Feed TK-TF



Direct wiring through ceiling tile with junction box when T-Bar is directly above track. Accepts 3/8" or 1/2" (trade size) electrical fittings.

#### 6 Cover Plate TK-JCP



Square Cover Plate with the threaded center hole. Includes ground washer, threaded nipple and nut. For use with L, T and X connectors.

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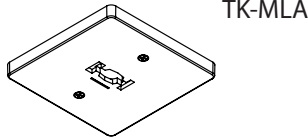


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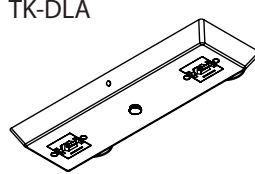
### TRACK SYSTEM INSTALLATION - TRACK LUMINAIRE ADAPTER

#### 1 Line Voltage Mono-Point Adapter



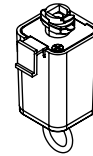
Mounts on 120V line voltage track head to an outlet box.

#### 2 Duo-Point Adapters



Accepts two line voltage track heads to mount to a single outlet box

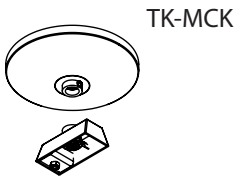
#### 3 Pendant Luminaire Adapter, Chain



Integral on/off switch, track polarity indicator. Luminaire weight can not exceed 10 lbs.

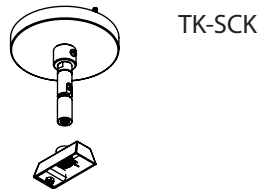
### TRACK SYSTEM INSTALLATION - POWER FEEDS

#### 1 Suspension Canopy



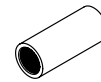
Suspend track from a ceiling or junction box. Includes canopy and track bracket (*Stem by others*). Suspension Stem in 6", 12", 18", 24" and 36" are available to be ordered separately. The Stem may be extended in any combination using suspension stem coupling.

#### 2 Swivel Stem Kit for Sloped ceiling



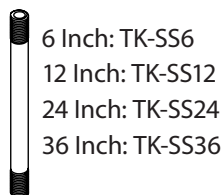
Swivel stem kit for sloped ceiling, including junction box, swivel adapter and track mounting bracket for back of track (*Stem by others*). Suspension stem in 6", 12", 18", 24", 36" are available to be ordered separately. A stem may be extended in any combination using suspension stem coupling.

#### 3 Suspension Stem Coupling



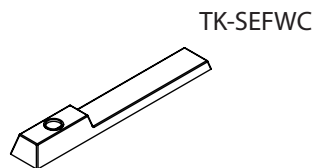
Connects two suspension stems to extend the drop. Suspension stem 6", 12", 18", 24", 36" may be extended in any combination.

#### 4 Suspension Stem



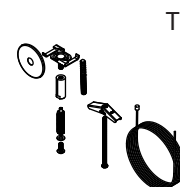
Suspends track from a ceiling or junction box, includes stem only. One required per Suspension Canopy. A stem may be extended in any combination using suspension stem coupling. Use 2 per 2' or 4' track. Use 3 per 6' or 8' track.

#### 5 Wireway Cover for Suspension



Conceals electrical feed wire from stem to end feed. One required per feed.

#### 6 Cable Mounting Kit with Toggle Bolt



Suspends track from high ceiling applications with 1/4" - 20 threaded coupling. Supplied with T-Bar mounting clip, ceiling plate, aircraft cable and couplers.

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### TK - MLA (*LINE VOLTAGE MONO-POINT*) ADAPTER INSTALLATION

1. Attach the **Mounting Bracket** to **Junction Box** (by others) with provided mounting screws (Fig. 1).
2. Connect the **Mono-Point Adapter** to 120V supply wires with wire nuts, Black to Black, White to White, Green to Ground.
3. Carefully feed wires through the opening on the **Mounting Bracket** and into the **Junction Box** while putting the **Mono-Point Adapter** into place, avoid pinching wires.
4. Attach the **Mono-Point Adapter** to the **Mounting Plate** using (2) Phillips Head Screws (provided).

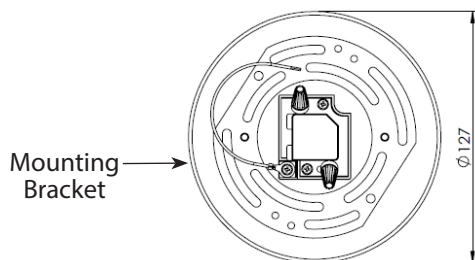
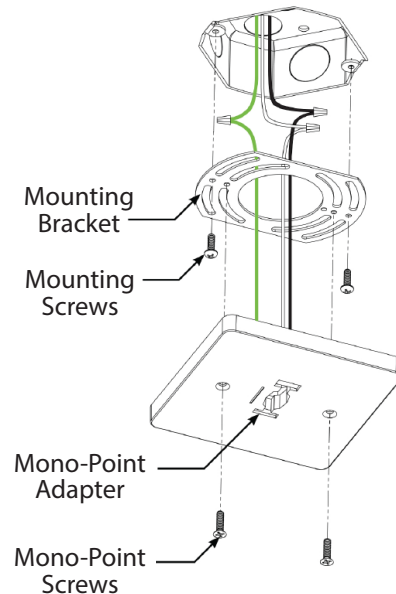


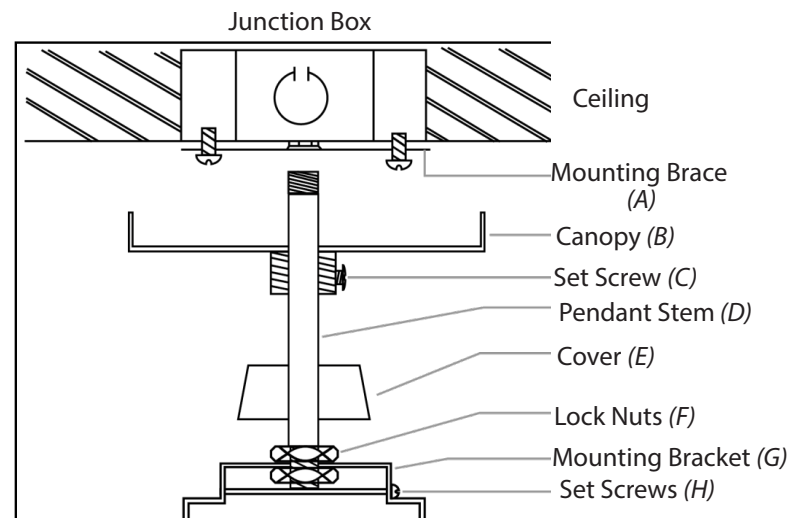
Fig. 1



### TK - MCK (*SUSPENSION CANOPY*) INSTALLATION

1. Thread (1) **Lock Nut (F)** to one end of **Pendant Stem (D)** as shown in Fig. 2.
2. Slide **Canopy (B)** onto **Pendant Stem (D)**.
3. Thread the **Pendant Stem (D)** into **Mounting Brace (A)** and feed appropriate electrical conductors through the **Mounting Brace** and **Pendant Stem**.
4. Attach **Mounting Brace (A)** to outlet box and connect electrical conductors in the **Junction Box**.
5. Slide **Mounting Bracket (G)** into top of track with **Cover (E)**.
6. Slide **Mounting Bracket (G)** between two **Lock Nuts (F)**, and tighten.
7. Tighten **Set Screws (H)** to lock **Mounting Bracket (G)** into track.
8. Slide **Canopy (B)** up to ceiling and tighten **Set Screw (C)**.
9. Electrical feed may be made with conduit to the surface conduit end feed or top entrance end feed.
10. As needed, feed electrical conductors across the top of the track electrical and/or joint feed.
11. Install **Cover** in track to enclose electrical conductors.
12. Installation should be made to conform to local electrical code requirements.

Fig. 2



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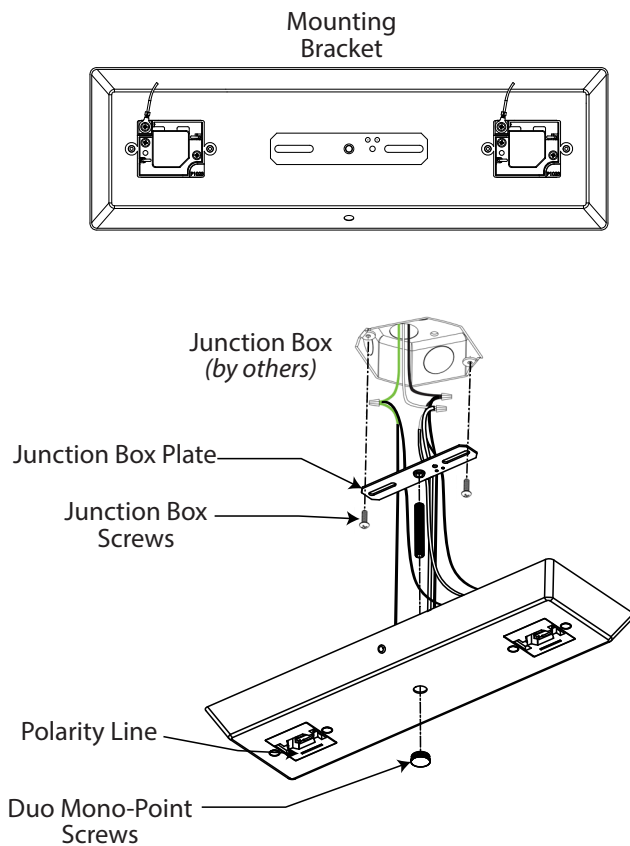
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### TK - FC (DUO-POINT ADAPTER) INSTALLATION

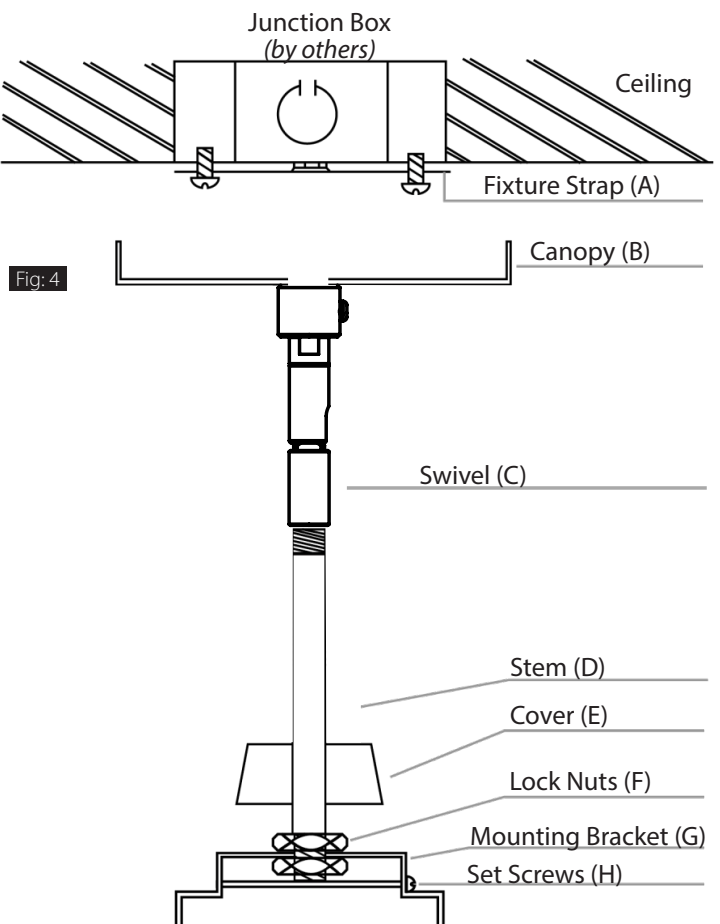
1. Attach the **Mounting Bracket** to the **Junction Box** (by others) with **Mounting Screws** (provided) as shown in Fig. 3.
2. Prepare white and black color wires on the **Adapter** by pre-bending them so that they are positioned in the middle of the **Adapter** and align with the opening in the middle of the **Mounting Plate**.  
**Note: This step is required to avoid unnecessary contact with Mounting Bracket** and potential damage to wires.
3. Connect **Adapter** to the required 120V supply wires and wire nuts, black to black, white to white and green to ground.
4. Carefully feed the wires through the opening on the **Mounting Bracket** and into the **Junction Box** while putting the **Adapter** into place.
5. Attach the **Mono-Point Adapter** to the universal **Mounting Plate** using (2) Phillips Head **Screws** provided.

Fig. 3



### TK-SCK SWIVEL STEM KIT FOR SLOPED CEILING

1. Thread (2) **Lock Nuts** (E) to one end of the **Stem** (D) as shown in Fig. 4.
2. Slide **Canopy** (B) onto **Stem** (D).
3. Thread **Fixture Strap** (A) onto **Stem** (D).
4. If required feed (2) No. 12 solid conductors from Junction Box through **Stem** (D).
5. Attach **Fixture Strap** (A) to **Junction Box**.
6. Slide **Mounting Bracket** (F) into top of Track with **Cover** (E) above.
7. Slide **Mounting Bracket** (G) between (2) **Lock Nuts** (F) and tighten.
8. Tighten **Set Screws** (H) to secure **Mounting Bracket** into Track.
9. Slide **Canopy** (B) up to the ceiling and tighten **Set Screw** (C).
10. Electrical feed may be made with conduit to the surface conduit end feed or top entrance end feed.
11. If required, feed electrical conductors across the top of the Track to Track electrical end or joint feed.
12. Installation should be made to conform to local electrical code requirements.



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### TK-WCK CABLE MOUNTING KIT W/ TOGGLE

#### 1. Option A:

Feed Cable length through **Cable Coupler** that the starter crimp seats within. Attach **Cable Coupler** 1/4"-20 stud (use *hanger bolt or T-Bar Mounting Clip as provided*) leaving Cable length to hang free.

#### Option B:

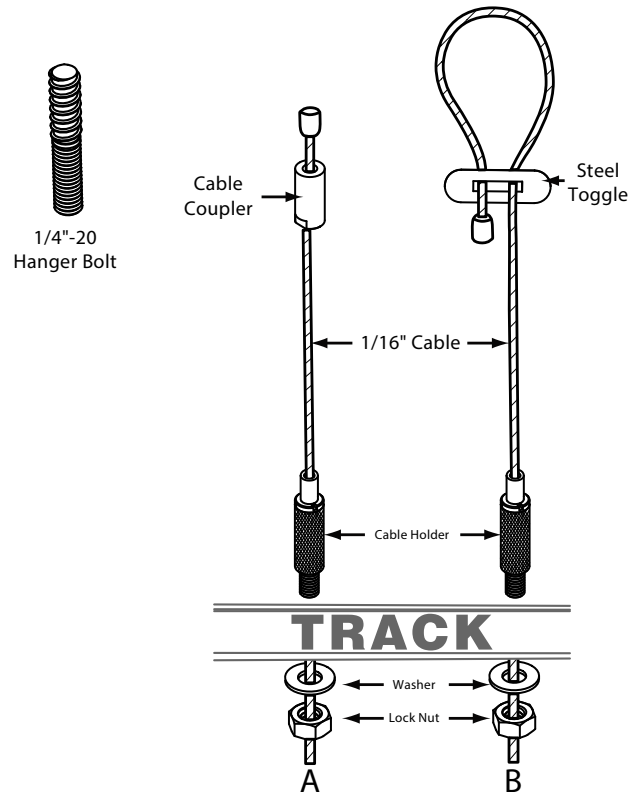
Insert Cable through **Steel Toggle**.

Loop Cable over support structure then back through hole in **Steel Toggle** below to create a loop. Leave remaining cable length to hang free.

- Prepare the TK Track by removing the plastic grommets (2 per 2", 4" 6" track section, 3 per 8" track section, 4 per 12" track section). Pass threaded portion of the Cable Holder through mounting hole in track from above and firmly lock and secure with provided locknut. Use 2 cable assemblies to support each 2", 4", 6" track section. Use 3 per 8" track section and 4 per 12" track section.

#### PARTS:

- (1) Cable Coupler (threaded for 1/4"-20 stud)
- (1) Cable Holder with lock nut
- (1) 1/16" Galvanized Cable with starting crimp
- (1) 1/4"-20 Hanger Bolt (for mounting on wood)
- (1) Steel Toggle (for looped cable mounting around bar joists, Unistrut, or similar support)



#### ALTERNATE MOUNTING METHOD FOR 8", 12" TRACK SECTIONS

Drill two 1/4" holes on 4' centers through the back of the track. Care must be taken to center the holes in the track width. When 4' centers are maintained, two (2) cables may be used for each 8' track section and three (3) for each 12' track section.

- Lift track(s) to desired height and pass loose cable end through small hole in the top of the Cable Holder. Cable will pass through and lock in any stopped position. Determine finished mounting height and level. If this point is exceeded and you are required to shift the Cable Holder upwards, support the track and release lock by depressing small release button at the top of the Cable Holder, draw cable through until the desired position is achieved.
- Cut off excess cable protruding below Knockout.

**Note:** These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.



#### Easy Answers

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