



- IMPORTANT:** Read **ALL** instructions before starting installation. Save instructions for later use.
- CAUTION:** To reduce risk of shock, **TURN OFF ELECTRICAL SUPPLY** before installing/servicing track.
- WARNING:** **TRACK** must be installed with its intended use and in accordance of National Electrical Code (NEC) and/or any local codes. *Failure to do so may result in serious injury and/or damage.*

### RECOMMENDED TOOLS

Phillips  
Screw  
Driver



Wire  
Nuts



Wire  
Cutter/  
Stripper



7/16"  
Wrench



Saw



### SAFETY INSTRUCTIONS

- Each connector must be secured with aircraft cable and/or power feed assembly as applicable.
- Each aircraft cable can support 42.5 lbs.; Each section of Rigid Beam with 2 connectors and aircraft cable supports (up to 12 ft.) can support up to 85 lbs.;
- **RISK OF FIRE** For indoor use only. Most dwellings built pre-1985 use supply wire rated at 60°C. Consult a qualified electrician before installation.
- To reduce the risk of fire and shock, use only luminaires intended for use with Solais J-type, 120V track systems.
- Solais J-type track and accompanying components are rated for 120V, 20 A capacity. (2400W max at 120V)
- Do not exceed the nominal supply voltage or amperage rating.

### CEILING PREPARATION (FOR SUSPENDING RIGID BEAM)

- Establish connector/power feed positions as per specified layout. Install supports into ceiling as needed to hang aircraft cables at the correct locations. Please take extra care in the accuracy of this step for the rest of the installation and alignment to proceed smoothly.
- Run aircraft cable all the way to the ground for each connector.

### RIGID BEAM INSTALLATION

- Lay out all connectors and beams on the floor as per specified layout.
- Remove 2 Phillips head screws and square plates on the bottom of each connector. (Figure 1) Keep safe and handy for reinstallation later.
- For suspended applications, install cable gripper to connector assembly using provided washer and screw. (Figure 2)

Figure 1



Figure 2



### RIGID BEAM INSTALLATION CONTINUED

- Once cable grippers are installed, place each connector back into specified layout on ground, cable gripper towards ceiling.
- Beginning at one corner of the layout, begin installing the beams to the connectors by inserting the steel plates of each connector into the slot at the top of it's corresponding beam, so that the plate rests on top of the beam. (Figure 3)
- Insert the track's wires into the connector through the hole in the connector compartment. (Figure 4)
- Once wires are threaded into the connector compartment, push beam to corresponding connector to sit flush against each other. We find that gently using a rubber mallet helps! (Figure 5)
- Secure connector to beam with pressure by tightening bolt and connector plate with a wrench. (Figure 5)
- Move on to adjacent beam and repeat the process of connector and beam installation until desired layout is complete.

**MAKE SURE ALL MECHANICAL CONNECTIONS ARE TIGHT AND SECURE!**

- Thread aircraft cable into top of each cable gripper of each connector. Allow excess cable to remain at this time. It should only be trimmed after final height adjustments have been confirmed. (Figure 6)
- Once all pieces have been confirmed secure and all aircraft cables have been threaded into appropriate grippers, raise the entire structure to working height/ eye level by inching each aircraft cable through the grippers. (Figure 7)
- Bring live power feed from ceiling at specified connection point into the connector compartment via knockout. (Figure 8)

Figure 3



Figure 4

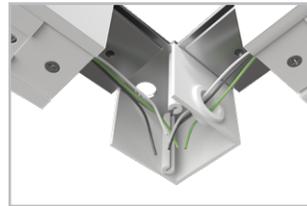


Figure 5



Figure 6



Figure 7

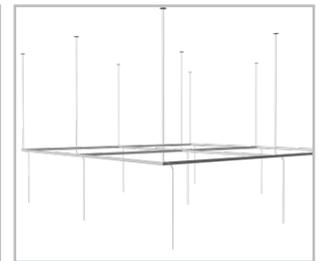
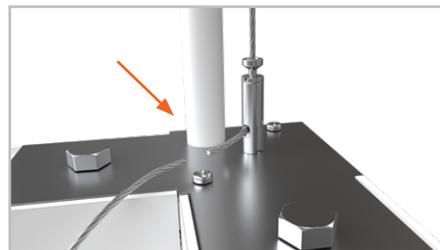


Figure 8



### RIGID BEAM INSTALLATION CONTINUED

- Make all wiring connections and power feed connections using wiring nuts. (Figure 9)
- Push all wiring inside each connector and reinstall all cover plates with the Phillips screws that were previously removed. (Figure 10)
- While it is possible to install light fixtures after final installation, we recommend installing them all now for ease of leveling and ease of overall installation.
- Raise complete structure, with fixtures installed if so desired, to final desired height. (Figure 11)
- Level structure as necessary.
- After final height adjustments and leveling, confirm aircraft cables going through grippers are secure.
- Trim off excess cable, leaving a minimum of 1" excess cable outside the gripper. (Figure 11)

Figure 9

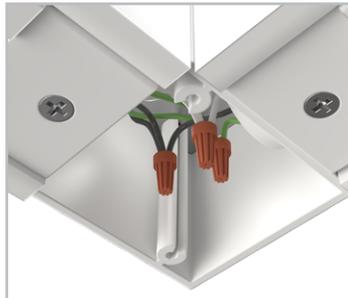


Figure 10

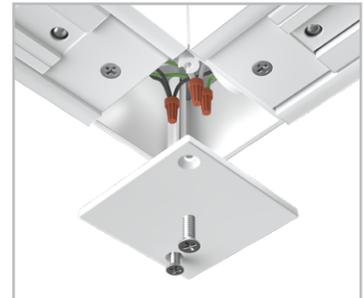
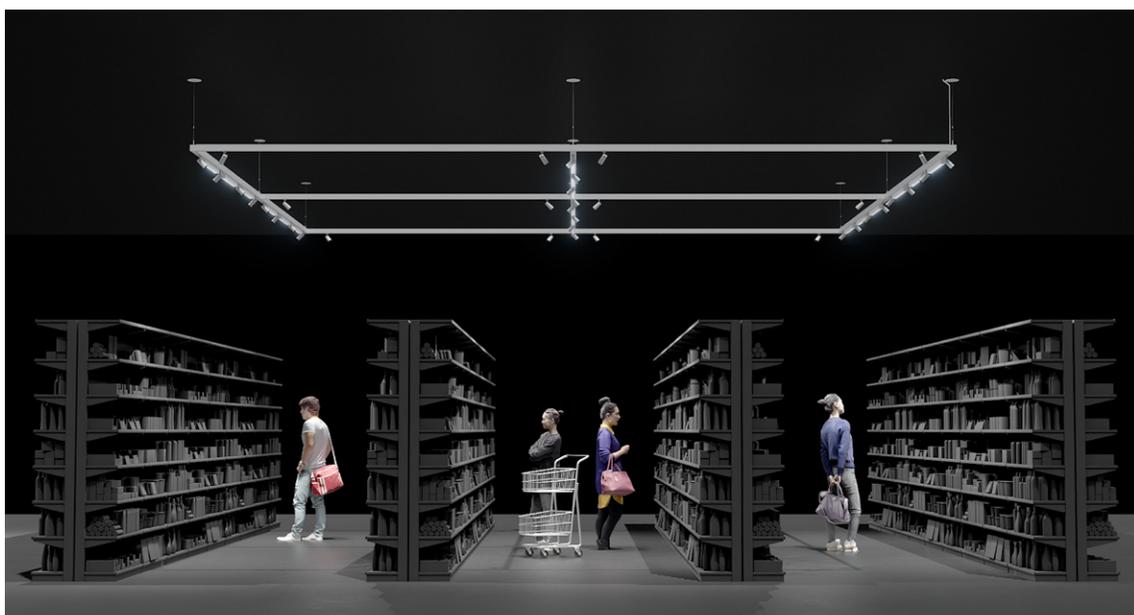
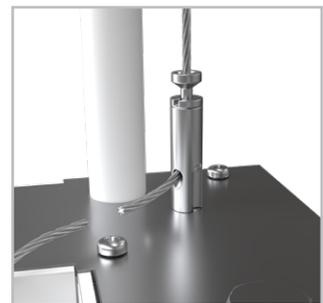


Figure 11

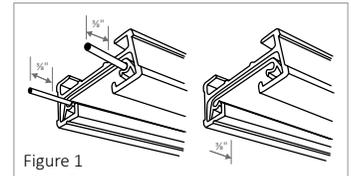


Figure 11



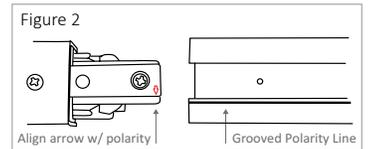
### J-TYPE TRACK CUTTING INSTRUCTIONS

- Aluminum track and plastic insulator must be the same length.
- After cutting track to desired length, all copper conductors should be cut  $\frac{3}{8}$ " from each end to prevent arcing and allow couplings and power feeds to be inserted completely. (Figure 1)
- Continue with installation instructions below once the cuts are complete.



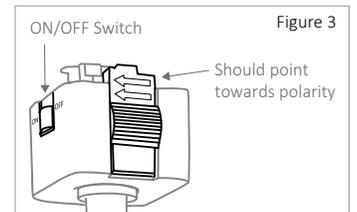
### J-TYPE TRACK POLARITY ALIGNMENT

- Track polarity is indicated by a grooved polarity line that runs the entire length of the track. (Figure 2)
- **WARNING!** Track must be joined together maintaining polarity through the run of track. When installing continuous runs, remove each end cap as it is being connected. Removing all end caps prior to installation may result in a poor connection and arcing.
- When installing end feeds and couplings, the small arrow on the feed or coupling needs to be inserted into the track pointing at the polarity line. (Figure 2)
- Insert couplings and track feeds fully into track housing maintaining polarity connections. Tighten set screw at each coupling/feed point.

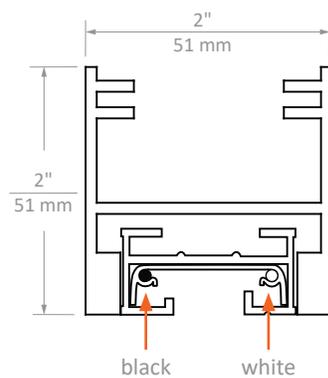


### J-TYPE FIXTURE INSTALLATION

- Fixtures have indicator arrows designed to point towards track polarity line.
- Check that switch on fixture is in OFF position.
- Insert fixture contacts into the track channel.
- Retract track latch by gently pulling down.
- Rotate adapter 90° so polarity arrow points to polarity line on the track.
- When fixture is installed properly, track latch will lock fixture into place.
- NOTE: All latches should face the same direction after installation.
- Once the fixture is installed into the track, flip the switch to ON position.



#### ▪ Single Circuit/Single Neutral



#### ▪ Double Circuit/Single Neutral

