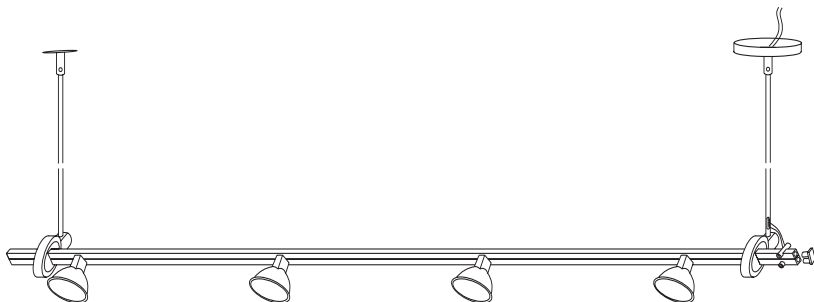


## Basis Beam Track Installation Guide



# Important Safety Instructions

Lighting systems from Translite Sonoma are supplied as complete systems. Use only factory-supplied parts to preserve the validity of the UL listing and the manufacturer's warranty.

These instructions pertain to the safe installation of this Lighting System to reduce the risk of Fire or Electric Shock.

1. Read all instructions.
2. Do not install any fixture closer than six inches from any curtain or similar combustible material. Do not install this system in a damp or wet location.
3. To reduce the risk of fire and burns, do not install this lighting system where the exposed bare conductors can be shorted or contact any conductive materials. Do not conceal or extend exposed conductors through a building wall.
4. All installations must meet National Electric Code requirements. Local Codes may vary. Use minimum AWG#10 for 25 amp load on secondary side of power supply.
5. No part of the secondary circuit should be grounded.
6. NOTE: All connections on the secondary side of the power supply (the low voltage side) must be tight. Check particularly:
  - a. The connections at the power supply
  - b. The power feed from the power supply that connects to the lighting system

Most problems with low voltage lighting systems are due to poor or loose connections at the two points described above. Bad connections can cause overheating and a potential fire risk.

7. Turn off electrical power before modifying the lighting system in any way.

## Save These Instructions

**Translite Sonoma**

**[www.translitesonoma.com](http://www.translitesonoma.com)**

22678 Broadway, Suite One : Sonoma, California 95476

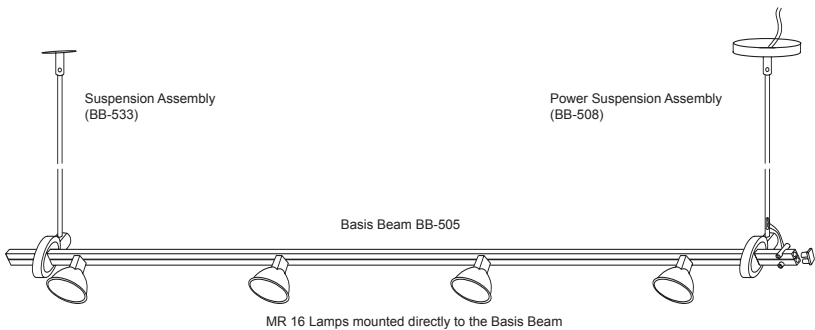
Toll free 888.999.4540 : Fax 707.996.6926

We reserve the right to change details of design, materials and finish.

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**Translite Sonoma system hardware is intended for installation in accordance with the National Electric Code and local regulations. To ensure full compliance with local codes and regulations, check with your local electrical inspector before installation.**

## Basis Beam Installations

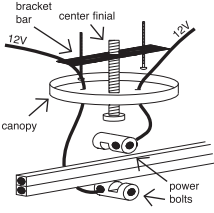


1. Match all items shipped to the packing slip. Call Translite Sonoma (888) 999-4540 with any questions or to report any discrepancies.
2. **Review your application plan.** A successful installation starts with a detailed application plan. An application plan details the layout of the track on the ceiling and the location of the power supply, the mounting hardware and the fixtures.
3. **Install the Transformer.** Every Translite Sonoma transformer is provided with complete instructions. Refer to these instructions for installing a transformer.
4. **Install Power Feed Device.**  
Options include: **BB-534** and various Basis Track power feeds  
Refer to the [Hardware](#) pages to find specific installation instructions for each power feed.
5. **Assemble the Basis Beam with couplers** - as per plans.  
**BT-512** Couplers                      **BT-513** Adjustable Couplers                      **BT-511** Isolators  
Refer to the [Hardware](#) pages to find specific installation instructions for each coupler.  
**IMPORTANT - ENSURE ALL ELECTRICAL CONNECTIONS ARE VERY TIGHT**
6. **If Basis Beam is to be suspended - Install Basis Beam Suspension Assembly**  
**If Basis Beam is to be mounted flush to wall or ceiling - Install Mounting Bracket/Flush Mounts**  
Supports must be placed every 42 inches.  
Refer to the [Hardware](#) pages to find specific installation instructions.
7. **Insert the Basis Beam into the (inner disks) of the mounts.** Temporarily snap the (inner disk) out of the (outer disk) and tighten the set screw on the (inner disk) to the Basis Beam. Snap the inner disks (with beam installed back into the (outer disk)). Rotate (inner disk/Beam) to desired position and tighten (outer disk) set screw onto (inner disk) to secure Beam in position.
8. Properly seat and securely fasten the power feeds to the beam.  
**IMPORTANT - ENSURE ALL ELECTRICAL CONNECTIONS ARE VERY TIGHT**
9. **SECURELY mount the lamps into the Basis Beam sockets.**

**WARNING - BASIS BEAM BECOMES VERY HOT**

## Basis Beam – Hardware

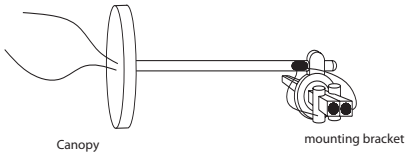
### BT-509 Basis Power Canopy



1. Mount bracket bar to a 4" octagon junction box using two supplied machine screws.
2. Connect the Power Canopy to the 12V feeds from transformer.

3. Insert center finial through the canopy and thread into the installed bracket bar.
4. Insert and secure the track into the connectors and tighten all the connector set screws.

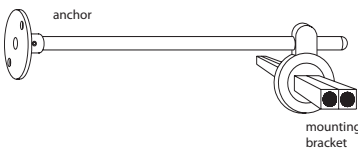
### BB-534 Power Suspension Assembly



Follow instructions for Mounting Bracket Suspension Mount (item below)

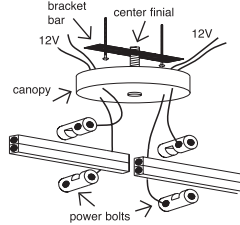
Mount canopy to wall or ceiling with wood screws. Ensure that the surface is wood or has a wood backing. DO NOT mount to drywall or other soft material without a wood backing. Mounting must be secure due to the leverage forces of the extended beam.

### BB-533 Suspension Assembly



Mount anchor to wall or ceiling with wood screws. Insure that the surface is wood or has a wood backing. DO NOT mount to drywall or other soft material without a wood backing. Mounting must be secure due to the leverage forces of the extended beam.

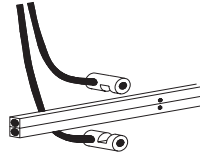
### BT-510 Basis Double Power Canopy



1. Mount bracket bar to a 4" octagon junction box using two supplied machine screws.
2. Connect Power Canopy to the 12V feeds from transformer.

3. Insert center finial through canopy and thread into the installed bracket bar.
4. Secure the connectors to the track and tighten all the connector set screws. Each set of power bolts must be connected to a separate circuit.

### BT-507 Basis Power Bolt (pair)



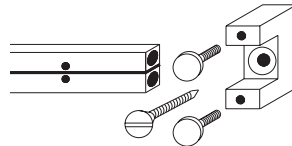
The Power Bolts connect directly onto the beam. Ensure the beam is properly seated into the slots of both Power Bolts.

**Both set screws:**

1. set screw attaching cable to Power Bolt
2. set screw attaching Power Bolt to beam must be fully tightened to ensure good contact.

### BT-312 Basis Beam Wall Anchor

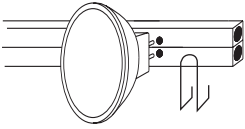
Basis Coupler must be fully inserted into the track. The set screws are then tightened down (with an allen key).



## Basis Beam – Hardware

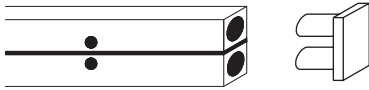
### Basis Beam (socket)

Bi-pin lamps are mounted directly to the Basis Beam (no fixtures are needed). Push the lamp's pins into the beam's gold sockets. The lamp should mount into the sockets with light pressure. Do not bend the lamp pins.



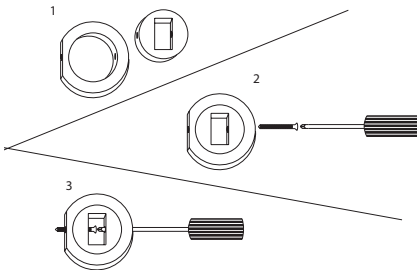
Lamp Retention Clip slides over grooves on lamp base and onto the Basis Beam.

### BT-808-BK Basis End Cap



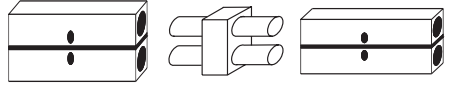
Ensure that any cut beam is filed flush and deburred. Lightly tap the black plastic Basis End Cap onto the beam with a rubber hammer. End cap will be secure with pressure fit.

### BB-333 Mounting Bracket - Flush Mount



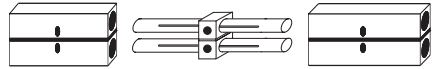
1. Snap small disk into large disk.
2. Ensure inner disk is rotated to line up mounting holes.
3. Insert wood screw through all holes and mount to wall or ceiling.

### BT-511 Basis Isolator



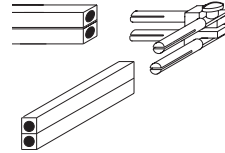
Basis Isolators pressure fit into the track. They are NOT mechanically strong, like a normal metal Coupler, and should ideally be located adjacent to a Wall or Ceiling Mounting Bracket.

### BT-512 Basis



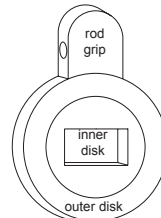
Basis Coupler must be fully inserted into the beam. The set screws are then tightened down (with an allen key).

### BT-513 Basis Adjustable Coupler



Grasp adjustable coupler and Basis Beam firmly and push coupler in place, or lightly tap coupler in place with a rubber mallet. The coupler is designed to form a very tight connection with Basis Beam. If the connection seems loose, spread the coupler insertion posts slightly and push the coupler in place for a tighter fit.

### BB-433 Mounting Bracket - Suspension Mount



1. Insert Basis Beam into small inner rotating disk. Tighten (inner disk) set screw onto beam.
2. Snap disk into (outer disk).
3. Insert Suspension Rod (not included) into rod hole.
4. Tighten Rod grip set screw.
5. Rotate Basis Beam to desired angle and tighten (outer disk) set screw onto (inner disk).

## Troubleshooting

**Problem:** Lights do not come on.

**Step 1:** Turn power off and check for a tripped breaker on the Power Supply or breaker panel. If a breaker at either location has been tripped, reset the breaker and try turning the system on again.

**Step 2:** Using a volt meter, check for 120 volts input to the Power Supply. If there are 120 volts of input to the Power Supply, proceed to Step 3.

**Step 3:** Disconnect the 12v feed from the Power Supply to the lighting system. Using a volt meter, confirm that the Power Supply is operating at 12 volts.

- a. If the Power Supply is operating correctly, proceed to Step 4.
- b. If the Power Supply is not working, contact Translite Sonoma Tech Support at 800-999-4540.

**Step 4:** One common cause of a short is mounting hardware that is mounted to metal (without proper isolation) or hardware mounting screws that sink through and touch a common metal structure. Visually inspect the track mounting hardware and mounting surface for insufficient isolation. If the track appears to be mounted correctly, proceed to Step 5.

**Step 5:** Conduct a continuity test on the track system.

1. Disconnect the 12v feed from the Power Supply to the lighting system, if not already done.
2. Remove the lamps from all the fixtures (do not remove the fixtures, yet)
3. Test for continuity between the busbars of the 12v lighting system (positive continuity confirms a short in the system)
4. If there is a short, remove one fixture from the system and re-test for continuity.
5. Continue removing one fixture at a time and retesting until continuity is broken. If continuity is not broken, proceed to Step 6.
6. The last fixture removed is possibly damaged or was installed incorrectly. Many Translite Sonoma fixtures are designed to conduct 12v throughout the entire body of the fixture. If the fixture was installed incorrectly, twisted, or stressed in some way, it is possible that it was creating a temporary short.
7. Try reinstalling the fixture again.
8. If the fixture (without a lamp installed) continues to short the system please return it for replacement or repair. Call the factory for a Return Goods Authorization.

**Step 6:**

1. If the Power Supply is disconnected from the system;
2. If all the fixtures have been removed in the course of the continuity test;
3. And if the continuity test still shows positive continuity:

Then this indicates that the mounting hardware or system conductors are shorting. The screws used to install the hardware to the surface are touching a common metal structure under the surface, or the track connectors are forming a poor connection. Check to make sure that all mounting hardware is suitably mounted and that all track connectors are properly installed and tightened.

Special attention for Liana and Basis Track – If the track has been cut in the field, it is possible that the cutting action could create a short across the two conductor halves of the track. Check that metal dust or rough edges are not creating the short at the point of a field cut.

## Troubleshooting

**Problem:** Lights were installed and operational with no problems. A few (days, weeks) pass and system has now started to shut itself off. Lights usually go off after a few hours of operation and the problem is increasing in frequency.

**Actions:** This situation is indicative of a bad 12 volt connection between the Power Supply and the track. The connection is heating up, oxidizing and will eventually destroy itself. Check all 12v connections between the Power Supply and the track. Inspect the Power Cable for discoloration or deterioration. If damage is found, rewire with a new fresh end.

Note: All 12 volt connections must be tight due to the associated high current.

**Problem:** Lamps are burning out frequently.

**Actions:** Short lamp life may be due to over voltage. Check voltage using a meter to ensure proper voltage. A lamp rated for 12v operates optimally from 11.5v to 12 volts. Lamp life falls dramatically over 12 volts. (An MR16 lamp can burn out in a few minutes if receiving 15 volts.)

There are several ways to correct for Over Voltage.

1. The most efficient and accurate way is to install a Translite Sonoma Power Supply. This will ensure that the proper voltage is consistently delivered to the lighting system.
2. Replace the light switch with a dimmer switch. This typically cuts 5% of the output voltage when turned fully on.
3. Insure that the lighting is on a dedicated 120v line at the panel. If the lighting shares the line with a large appliance there may be voltage spikes as the appliance shuts off.

Note: If the lighting system and fixtures are very high up or inaccessible you may elect to run them at a slightly lower voltage than 12 volts. This will be slightly dimmer but will greatly increase the bulb life.

**Problem:** The breaker at the main panel trips when turning on the lights.

**Actions:** The breakers used on the lighting circuits should be rated for inductive loads. The use of breakers not rated for inductive loads may result in nuisance tripping.