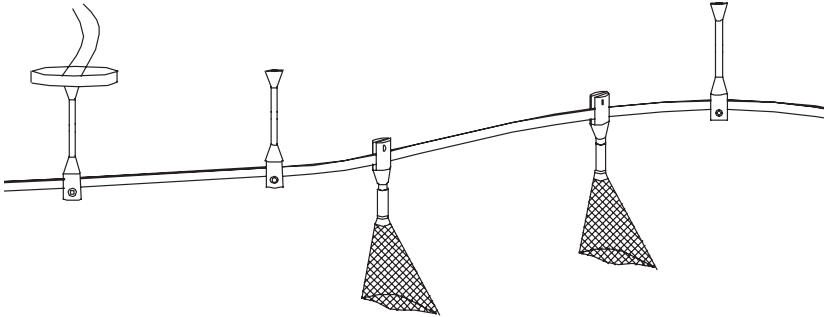


Liana Track Installation Guide



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

22678 Broadway, Suite One : Sonoma, California 95476

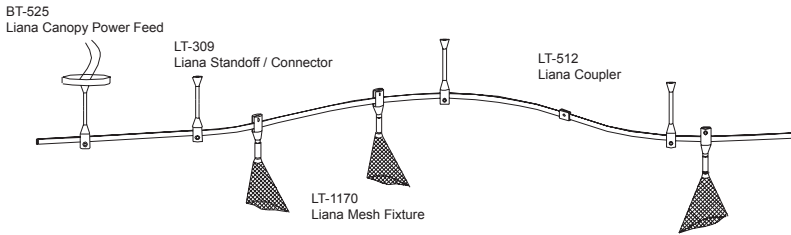
Toll free 888.999.4540 : Fax 707.996.6926

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

© 2005 Genlyte Group LLC

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.

Liana 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. **Please note the capacity of Liana Track is 300 watts maximum at 12 volts. 600 watts maximum at 24 volts.**

4. **Install Power Feed Device.** There are several options that may have been chosen by the lighting designer or client.

Options include:

LT-701 Power Clip

LT-509 Power Canopy: Cable

LT-510 Double Power Canopy

LT-525 Power Canopy: Stem

Refer to the [Hardware](#) pages to find specific installation instructions for each power feed.

5. **Assemble the Liana Track with track couplers** - as per plans.

Refer to the [Hardware](#) pages to find specific installation instructions for each coupler.

Options include:

LT-512 Coupler

LT-511 Isolator

(all Anchors also can be used as track couplers)

6. If the track is a custom shape please refer to the [Notes on the Liana Track System](#) page to aid in bending the track and positioning the ceiling anchors.

7. **Install the ceiling anchors.** There are several options that may have been chosen by the lighting designer or client.

Options include:

LT-308 Sloped Ceiling Anchor

LT-309 Ceiling Anchor: Stem

LT-310 Ceiling Anchor: Cable

LT-311 Ceiling Anchor

LT-514 T-Connector

LT-515 Cross Connector

Supports must be placed at a maximum of 42 inches on straight runs. Circles, ovals and custom shapes require extra supports.

Refer to the [Hardware](#) pages to find specific installation instructions for each support..

8. Secure the track to the ceiling anchors: Insert the track into the connector on each anchor. Adjust the direction of the track by loosening the anchor hex screw. Fasten each connector to the track securely by tightening the connector set screw.

9. Properly seat and securely fasten the power feeds to the track.

10. SECURELY attach the lighting fixtures to the track with the power off.

IMPORTANT – ENSURE ALL ELECTRICAL CONNECTIONS ARE VERY TIGHT

Notes on the Liana Track System

Cutting the Liana Track:

Liana Track is field cuttable, only if extreme care is taken. **Caution:** Use a hacksaw with a fine blade. Take great care in cutting the track. Do not force the cut. Let the motion of the saw and the weight of the saw do the work. Liana Track is constructed of a special soft brass alloy. It is possible to smear the two conductors together if care is not taken while cutting the track. After the track is cut inspect the sandwiched isolator between the two conductors of the track. Ensure that there is no metal or metal dust that may short the track at the point of the cut.

Bending the Liana Track:

Liana Track is very elastic conductor and will flex back toward its original form after being bent. Certain precautions must be taken when bending Liana Track.

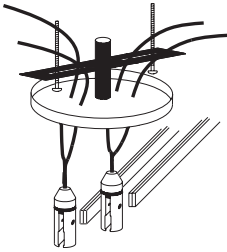
- Avoid joining two sections of track at the apex of a bend in the track. The inherent elasticity of the track may create a short over time. Join the track on straight runs or broad curves.
- Avoid bending the track unevenly or at a sharp angle. Once the track has been bent significantly, it CANNOT be straightened again.
- Do not bend the track into a curve with a radius smaller than 18 inches.

Bending Instructions:

1. Mount the ceiling anchors at the appropriate points on the ceiling according to the application plan. (For more detailed instructions, see the anchor descriptions for LT-311, LT-309 and LT-308 in the Hardware pages)
2. To bend Liana Track, insert the track into the first anchor. Loosen the anchor hex nut slightly to allow the Liana connector to swivel. Swivel the connector and track to achieve the correct direction for bending. Retighten the anchor hex nut.
3. Bend the track over to the next anchor and insert the track into the connector. **Note:** The track can be pushed and pulled through the connectors to increase or decrease the amount of track between any two anchors. Connectors can be swiveled back and forth to direct the track and achieve the correct bend.
4. When the correct bend has been achieved tighten down the hex screw on each anchor so the connectors can no longer swivel. Then tighten the connectors down firmly on the track.
5. Continue attaching the track to the anchors in this fashion according to the application plan. Use the anchors to reinforce the bend and hold the track to shape. Tight curves of track will require more anchors to maintain the shape. Broad curves will require fewer anchors.

Liana Track – Hardware

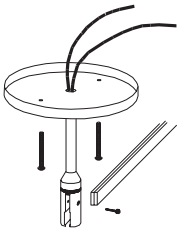
LT-510 Liana Double Power Canopy: Cable



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 the transformer.
3. Insert center finial through the canopy

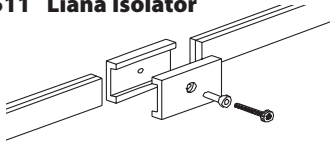
and thread into the installed bracket bar.
4. Secure the connectors to the track and tighten the connector set screws.

LT-525 Liana Power Canopy: Stem



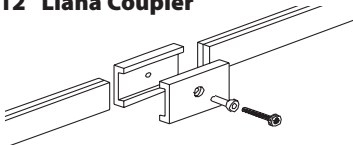
1. Mount bracket bar to a 4" octagon junction box using two supplied machine screws.
2. Connect the Power Canopy to the 12V feeds from transformer.
3. Insert and secure the track into the connector and tighten the connector set screw.

LT-511 Liana Isolator



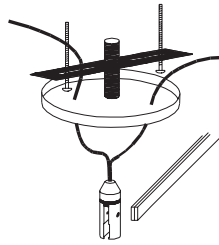
1. Use the Liana Isolators to mechanically connect but electrically isolate two sections of Liana Track.
2. Place the isolator pieces on either side of the track and tighten the metric hex screw. Do not over tighten. This may break the shoulder washer.

LT-512 Liana Coupler



1. Use the Liana Coupler to mechanically and electrically connect two sections of Liana Track.
2. Place the coupler pieces on either side of the track and tighten the metric hex screw. Do not over tighten. This may break the shoulder washer.

LT-509 Liana Power Canopy: Cable

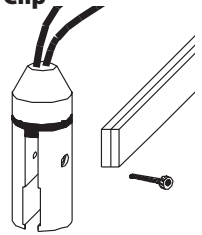


1. Mount bracket bar to a 4" octagon junction box using two supplied machine screws.
2. Connect Power Canopy to the 12V feeds from transformer.
3. Insert center finial through canopy and

thread into the installed bracket bar.
4. Secure the connector to the track and tighten the connector set screw.

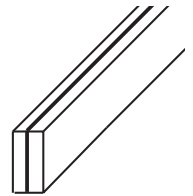
LT-701 Liana Power Clip

1. The Liana Power Clip connects directly to the track. Ensure that the track is properly seated into the Power Clip slots.
2. Use a metric hex key to tighten the clamp onto the track.



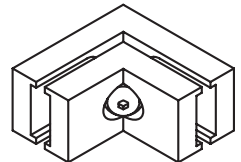
LT-505 Liana Track

Field cutting must be done with great care to avoid a short circuit. Liana Track is field bendable. Supports must be placed at a maximum of 48 inches on straight runs. Curved shapes may need more. Liana Track is rated for 300 watts at 12 volts and 600 watts at 24 volts. After cutting track, clean carefully, removing any metal dust or burrs.



LT-512 Liana 90 Degree Coupler

1. Use the Liana 90 Degree Coupler to mechanically and electrically connect two sections of Liana Track at a 90 degree angle.
2. Place the coupler pieces on either side of the track and tighten the metric hex screw. Do not over tighten. This may break the shoulder washer.



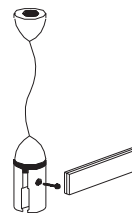
Liana Track – Hardware

LT-310 Liana Ceiling Anchor: Cable



1. Remove the threaded collar from the bullet. Insert the flat head screw through the threaded collar and screw directly to the ceiling. Use the isolator washer when mounting on a conductive surface.
2. Screw the bullet/assembly to the ceiling mounted threaded collar.
3. Insert the Liana Track into the slot at the bottom of the anchor. Tighten the side set screw down on the track. Make sure that the track is properly seated all the way into the slot.

For straight runs only. Supports must be placed at a maximum of 48 inches.



track is shaped by the placement of the anchor and the direction of the connector. Loosen the hex screw on the anchor just above the connector to swivel the connector and adjust the direction of the track.

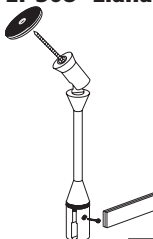
Supports must be placed at a maximum of 48 inches on straight runs. Curved runs may require additional supports at the apex of curves.

LT-309 Liana Ceiling Anchor: Stem

1. Remove the threaded collar from the bullet. Insert the flat head screw through the threaded collar and screw directly to the ceiling. Use the isolator washer when mounting on a conductive surface.
2. Screw the bullet/assembly to the ceiling mounted threaded collar.
3. Insert the Liana Track into the slot at the bottom of the anchor. Tighten the side set screw down on the track. Make sure that the track is properly seated all the way into the slot.
4. On curved runs, use the anchor to reinforce the bend and hold the track to shape. A curve in the track is shaped by the placement of the anchor and the direction of the connector. Loosen the hex screw on the anchor just above the connector to swivel the connector and adjust the direction of the track.



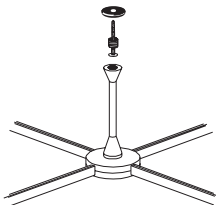
LT-308 Liana Sloped Ceiling Anchor



1. Remove the threaded collar from the bullet. Insert the flat head screw through the threaded collar first and then through the accompanying washer. Screw directly to the ceiling. Use the isolator washer when mounting on a conductive surface.
2. Screw the bullet/assembly to the ceiling mounted threaded collar.
3. Insert the Liana Track into the slot at the bottom of the anchor. Tighten the side set screw down on the track. Make sure that the track is properly seated all the way into the slot.
4. On curved runs, use the anchor to reinforce the bend and hold the track to shape. A curve in the track is shaped by the placement of the anchor and the direction of the connector. Loosen the hex screw on the anchor just above the connector to swivel the connector and adjust the direction of the track.

Supports must be placed at a maximum of 48 inches on straight runs. Curved runs may require additional supports at the apex of curves.

LT-515 Liana Cross Connector



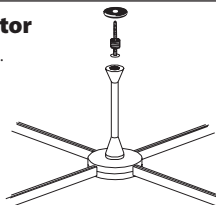
1. Use the Liana Cross Connector to attach crossing perpendicular lengths of Liana Track. Cross Connector is field cuttable. Use the isolator washer when mounting on a conductive surface.
2. Screw the threaded collar directly into the ceiling with the flat head screw at a point of suitable reinforcement.
3. Screw the bullet/assembly to the ceiling mounted threaded collar.
4. Loosen the hex screws in the Cross Connector assembly. Insert the Liana Track into the slots in the Cross Connector assembly. Make sure that the track is properly seated all the way into the slots. Tighten the hex screws and the Cross Connector down evenly on the track pieces.

Supports must be placed at a maximum of 48 inches on straight runs.

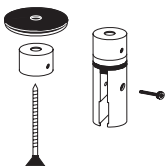
LT-514 Liana T-Connector

1. Use the Liana T-Connector to construct "T" connections with Liana Track. T-Connector is field cuttable.
2. Screw the threaded collar directly into the ceiling with the flat head screw at a point of suitable reinforcement. Use the isolator washer when mounting on a conductive surface.
3. Screw the bullet/assembly to the ceiling mounted threaded collar.
4. Loosen the hex screws in the T-Connector assembly. Insert the Liana Track into the slots in the T-Connector assembly. Make sure that the track is properly seated all the way into the slots. Tighten the hex screws and the T-Connector down evenly on the track pieces.

Supports must be placed at a maximum of 48 inches on straight runs.



LT-311 Liana Ceiling Anchor



1. Use an allen key to loosen the upper hex screw and remove the anchor from the connector. Screw the anchor directly into the ceiling with the flat head screw at a point of suitable reinforcement. Use the isolator washer when mounting on a conductive surface.
2. Insert the connector into the ceiling mounted anchor and retighten the hex screw, securing the connector to the anchor.
3. Insert the Liana Track into the slot at the bottom of the anchor. Tighten the side set screw down on the track. Make sure that the track is properly seated all the way into the slot.
4. On curved runs, use the ceiling anchor to reinforce the bend and hold the track to shape. A curve in the track is shaped by the placement of the anchor and the direction of the connector. Loosen the hex screw on the anchor to swivel the connector and adjust the direction of the track.

Supports must be placed at a maximum of 48 inches on straight runs. Curved runs may require additional supports at the apex of curves.

IMPORTANT – ENSURE ALL ELECTRICAL CONNECTIONS ARE VERY TIGHT

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.

(continued on next page)

Troubleshooting *(continued)*

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.