Step-1 Fixtures & Bulbs

1- The simpliest and easiest part is to select your fixture of preference.
2- Select a bulb for your needs, (see last page).

Step-2 Cable & Mounting hardware

1- Most kits allow for 20 FT runs (40 FT of cable).
   • tracks come in 10 FT sections totally flexable in a horizontal plain.
   • tracks can be extended in sections of 10 FT, (please consult factory for maximum runs).
   • tracks can be cut easily with a hack saw.
2- Select a bulb for your needs, (see last page).

Step-3 Driver

• Decorative

The decorative driver is used where there is an existing electrical box in the ceiling or wall.

• Remote

The remote driver is used in the ceiling or wall or closet where there is access.*

   The 1238 deluxe hardware provides for wiring behind the wall therefore no feed wiring will be exposed.

* (please consult factory for distances between the run of the driver and the connection on the track
   - to make sure the guage of the wire is large enough to accomodate the total wattage of the system
   - to avoid voltage drop ).
When installing or using this cable lighting system, basic safety precautions should always be followed. Be sure to read these instructions fully, and review them as necessary. If you need help or advice any time, please contact us before proceeding.

1. Before installing the power cables, make sure the bottom of the lowest hanging light fixture will be at least 7 feet above the floor. Make sure the fixtures are located away from any flammable material.

2. The run length of each power cable should be at least 5 and no more than 20 feet. For runs longer than 20 feet, consult an electrician.

3. In order to install the two power cables the proper distance apart, carefully measure the distance between the fixture’s two cable contact points.

4. For optimal performance, position the transformer in the center of the cable run as shown in the diagram below.
5. Be sure to tightly fasten all connections. Check the connections regularly and re-tighten them as necessary.
When installing or using this cable lighting system, basic safety precautions should always be followed.

- Before installing the power cables, make sure the bottom of the lowest hanging light fixture will be at least 7 feet above the floor. Make sure the fixtures are located away from any flammable material.
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- For optimal performance, position the transformer in the center of the cable run as shown in the diagram.
- Be sure to tightly fasten all connections. Check the connections regularly and re-tighten them as necessary.

Parts Check List

- Star cable fixtures of your choice
- LED MR-16 light bulbs for each fixtures (Fig. 1)
- Your choice of one LED power supply:
  - (non-dimmable LED power supply in decorative housing (Fig. 2a),
  - or dimmable LED remote power supply (Fig. 2b))
- A pair of power feed (Fig. 3)
- 2x 3 feet insulated cables for power supply & power feed
- 40 feet uninsulated cable (provides a 20-feet cable track) (Fig. 4)
- Eco-pack wall-to-wall mounting hardware (Fig. 5)

For installing Eco-pack mounting hardware, Please refer to Eco-pack Mounting Hardware Installation Guide.
Star Cable Kit - 5-Light fixtures

- For installing Eco-Pack Mounting hardware, please refer to the other included installation manual.
- For some specific information regarding the magnetic remote transformer, also refer to the instruction sheet included with the transformer.
INSTRUCTIONS

LED TRACK LIGHTING

Star Cable

Decorative Installation

1) Turn off the electrical power leading to the junction box where the transformer will be installed.
2) Attach the mounting cross bar to the junction box. [Fig.I]
3) Pull the (usually black and white) house wires from your junction box through the cross bar. [Fig.II]
4) Remove the bottom cover from the transformer. [Fig. III]
5) Carefully pull the wires through center of the threaded pipe in the transformer.
6) Screw the transformer into the crossbar, and tighten. Be very careful not to damage or rip the wires. [Fig.IV]
7) Attach the black transformer wire to the black house wire, and the white transformer wire to the white house wire using wire nuts. [Fig.IV]
8) Reattach the bottom cover to the transformer.

Connecting the Live Feed to the Transfer Installing the Wire Adapter

There is a voltage drop along the feed wire. Use as short a feed wire as possible to minimize this loss of voltage.

1) Once the live feed is connected to the power cable, cut length, making sure to leave some slack in the wire.
2) Strip the outer coating from the end of each feed wire to expose 3/4” of inner core. [Fig. 1]
3) Insert the wires into the connectors on the bottom of the transformer casing, and tighten the set screws. [Fig. 2]

Connect the live feed to the power cables using the 1189 Wire Adapter. Tighten the knurled screw in the wire adapter to ensure that the contact between the live feed and the wire is as secure as possible. A poor contact is usually the result of insufficient contact between the live feed and the power cable, and can result in overheating at the contact point. This can also occur at the contact points between the fixtures and the power cables.
**Preparing the Bases**

1. Remove ball \([c_2]\) from turnbuckle base \([c]\). [Fig. I]
2. Carefully unscrew set screws \([c_1]\).
   (Note: do not try to remove set screws as you may lose them)
3. Repeat steps 1-2 at the dead end base \([d]\).

**Installing the Bases**

1. Drill 1/8” hole at required locations. [Fig. II]
2. Insert plastic wall insert \([b]\)
3. Attach wall base \([c]\) and \([d]\) with #10 wood screw \([a]\).
   Secure with screwdriver.
4. Repeat steps 1-3 at the remaining locations.

**Installing the Turnbuckles**

1. Insert the turnbuckle ball into wall base and screw in the set screws [fig. III]. Take care not to use too much force: do not screw in deeper than the surface of the wall base.
2. Each turnbuckle has two metal cylinders; the tension adjuster \([c_3]\) and the power cable holder \([c_4]\). The tension adjuster has a single set screw \([f]\) in its center, while the power cable has two set screws \([f]\). Slightly loosen these set screws then rotate the two cylinders to extend the turnbuckle to its maximum extension. [fig. IV]
3. Repeat step 1 and 2 on the other turnbuckle.

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*turnbuckle at maximum extension*
Star Cable  Deluxe Hardware

1. Select the right location for the anchors to be mounted.
   Cable separation should be around 4.25”.
   Mark the location of the anchors on the wall or ceiling.
   The distance between the center points of the anchors should be the cable separation.

2. Mount the turnbuckle to the anchors.

3. Unscrew the acorn screw on the turnbuckle body to extend.
   Unscrew the M4 set screws on the end of the turnbuckle body with the included allen wrench.
   Insert the uninsulated cable into the turnbuckle body and tighten the M4 set screws.

4. Finish tightening the cable by inserting an allen wrench into acorn screw hole and rotating it counter clockwise with one hand while holding the turnbuckle body with the other hand.
   Trim off the excess uninsulated cable coming out of the turnbuckles.
Star Cable
LED STAR CABLE

How to select your track lighting
(Easy as 1, 2, 3)

POSSIBLE CONFIGURATIONS IDEAS

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Did the breaker on the transformer trip?
- If powering the system with more than one feed, make sure isolating connectors are separating each feed.
- Check that none of the elements are generating a direct short. If any elements have been shortened, check the FreeJack connector.
- Check the low-voltage side of the transformer with a voltmeter to ensure voltage does not exceed 12 or 24 volts.

Is an individual element not working?
- Check that the lamp is installed securely.
- Check the lamp to see if it has burned out.
- Check the FreeJack connector for proper contact.

Did the breaker on the main panel trip?
- Make sure the circuit has not been overloaded.
- Change the breaker in the panel to an inductive load breaker.

Is the system still not working? Why not try checking the basics?
- Check the light switch (or cord switch on a plug-in transformer).
- Make sure the power feeds from the transformer to the cable are tightly connected.
- Check for loose wire nuts in the junction box, canopy, or transformer cover.
- Make sure the transformer’s 120 volt side is wired correctly.

Dimming Issues
- There are two kinds of low voltage dimmers. If you wish to attach a dimmer to your Star system, make sure to use the correct version. A magnetic dimmer should only be used with a magnetic transformer, and likewise, an electronic dimmer should only be used with an electronic transformer. Using the wrong dimmer will substantially shorten transformer life.
- The dimmer should be placed on the input line BEFORE the transformer.

Reducing Dimmer Noise
Dimmers can generate a buzzing noise that some people may find disturbing. To reduce buzzing, we recommend:
- using the dimmer type compatible with the transformer;
- adding a debuzzing dimmer coil in series. This coil is included with all our magnetic surface transformers;
- Loading the system to at least 80% of capacity. For example, a 300 watt transformer should have at least a 240 watt load.

Installation Tools

Phillips Screwdriver
Wire Cutter
Drill + Bit
Allen Key
(provided)

ETL Listed
Tracking System
Conforms to UL Std. 1574
ETL Testing Laboratories, Inc.

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Eco-pack Mounting Hardware Installation Guide (cont.)

1. Pull the cable to the turnbuckle.
2. Align the cable with the turnbuckle, mark on the cable with marker, then cut.

3. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
4. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
5. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
6. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
7. Align the cable with the turnbuckle, mark on the cable with marker, then cut.

8. Pull the cable to the turnbuckle.
9. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
10. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
11. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
12. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
13. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
14. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
15. Pull the cable to the turnbuckle.
16. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
17. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
18. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
19. Pull the cable to the turnbuckle.
20. Align the cable with the turnbuckle, mark on the cable with marker, then cut.
How to select your track lighting
(Easy as 1, 2, 3)

POSSIBLE CONFIGURATIONS IDEAS
Ceiling to Wall

Configuration ideas

LED STAR CABLE

Mounting Options
Ceiling to Wall

Ceiling to Wall
Wall to Ceiling Turn

Live Feed turnbuckle for 1248 Ecopack

End Piece for 1248 Ecopack

Post 1175

Mechanical turnbuckle
Wall to Wall Turn

Wall

Live Feed turnbuckle for 1248 Ecopack

End Piece for 1248 Ecopack

Post 1175

Mechanical turnbuckle
Star Cable
LED STAR CABLE

INSTRUCTIONS
Configuration ideas

Wall to Wall Turn

“L” turn Wall to Wall

“Zig Zag” Wall to Wall

“U” Wall to Wall

Mounting Options
Wall to Wall Turn

These configurations also can be done
• Wall to Wall.
• Ceiling to Wall.
• Ceiling to Ceiling.

These are just ideas how you can configure your star cable system to your needs.
Star Cable
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Mounting Hardware
Star Cable

Deluxe Hardware
SKU: 1238

• Deluxe hardware each unit has a double tension device (thereby creating better straight lines).

• Please note there is a all live feed wire (and screw tightening device for hiding the feed wire.
  - for much cleaner look.

• Thereby hiding the feed wire).
Star Cable
LED STAR CABLE

Eco-Pack
SKU: 1248

Economy wall pack used to mount cable system Wall to Wall. Can be in conjunction with posts, to hold system from the ceiling. In both Wall to Wall and Wall to Ceiling configurations.
Eagle Pack
SKU: 1288

Star Cable
LED STAR CABLE

Eagle pack is used to mount Ceiling to Ceiling when the runs are too long to reach the walls. It can also be used Wall to Ceiling.

10”
Star Cable

Mounting Hardware

SUPPORT HARDWARE
Chrome wall post use to:
- Wall to Wall - supports
- Wall to Ceiling - supports
- General turning of systems
  (in conjunction with anchor supports)
Chrome stand-off post
Shown with eco-pack tightening down device.
• 2 posts.
• 2 ball joint turn buckles.
• 4 plastic anchors.
• 4 screws for the anchors.
• 2 wire clamps.
Horizontal support is used to alleviate the tension or sag that is inherent in all cable systems.
Star Cable

LED STAR CABLE

Mounting Hardware

LIVE FEED & CABLE
Chrome Live Feeds
if the unit uses a remote driver and the 1238 Deluxe Hardware the 1189 Live Feeds will not be needed. The remote driver with 1238 Hardware allows for the wiring to be hidden behind the Wall or Ceiling.
1451 wire for the Star Cable System.
10 AWG wire.
Star Cable
LED STAR CABLE

1453 Feed wire from the driver to the Star Cable System.
8 AWG wire.
From the transformer to the 10 AWG wire.

Live Feed 8AWG