LP SERIES INSTALLATION INSTRUCTIONS

Important

THIS SHEET CONTAINS IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

Warning

This product must be installed in accordance with National Electrical Codes and all other local codes by a person familiar with the construction and operation of the product and the hazards involved.

To prevent electrical shock, turn off the power during installation or maintenance.

To reduce the risk of fire, keep away from combustible materials.

Purpose of This Sheet

The purpose of this sheet is to provide step-by-step instructions to help you:

- Install the fixture with any of the following: -00 fitting on an LSI track, -5A canopy, -2G universal flange fitting, or -3G C-Clamp fitting
- Install color/spread gels, glass, hex louver media
- Install external accessory cartridge
- Install hood and barn door and external accessory cartridge
- Replace LED module
- Lens cleaning

Product Overview

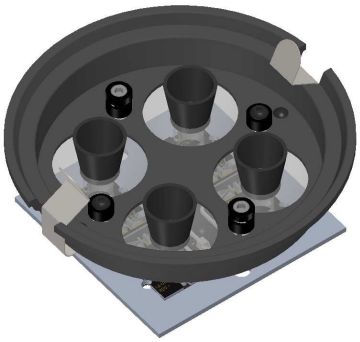
The LP1 and LP2 SuperSPOT lights are high power, focused, LED spotlights designed specifically for long throw, tight beam applications. They are more efficient alternatives to aging low voltage halogen sources, such as PAR56 or PAR64.

See the fixture label for voltage and wattage input.

Please consult our *Product Catalog* or web site for available accessories.

LP1 SuperSPOT Light

LP2 SuperSPOT Light



Sample Replacement LED Module (LP1 LED shown)

Dimming

- The LP1 and LP2 are fully dimmable using compatible low-voltage electronic dimmers. Other dimming options are available. Please consult factory.
- Please review dimming application guide for more detailed information and a list of compatible dimmers.

Installing the Fixture with the -00 Fitting on an LSI Track

FOR USE WITH LSI 3, 4, 5, 6, 8, AND 9 SERIES TRACK

INSTALLATION INSTRUCTIONS: The track must already be installed according to code requirements. When installing or using this track, basic safety precautions should always be followed, including the following:

- Read all instructions.
- Do not install any part of a track less than 5 feet above the floor (8 feet for 277V).
- Do not install any fixture closer than 6 inches from any curtain or similar combustible material.

STEP	ACTION
1	Flip the fitting switch off and open the fitting handle (**Fig. 1**).
2	Are you using a one-circuit or two-circuit system? ▪ *If one-circuit*, make sure the brass contacts that protrude from the side of the fitting face the copper busbars inside the track. ▪ *If two-circuit*, inserting the fitting in one direction connects to circuit one. Removing and reversing the direction of the fitting connects to circuit two.
3	Insert the fitting straight up into the track until fully seated (**Fig. 2**).
4	Close the handle and flip the fitting switch on (**Fig 3**). **WARNING: Do not look directly at lit LED.**
5	To remove the fitting, hold the fixture in place, flip the fitting switch off, open the handle and pull the fitting straight off the track.

Figure 1. Fitting with switch OFF and handle OPEN.

Figure 2. Inserted fitting

Figure 3. Switch ON, fitting handle closed

Installing the Fixture with a 5A Canopy

Before Installing: Consult the code requirements for fixture mounting. Mount the fixture to a ceiling constructed of non-combustible material, away from any flammable materials.

STEP	ACTION
1	Turn off all power to the fixture mount.
2	Unscrew the 2 supplied canopy mounting screws, and remove the crossbar from the canopy (**Fig. 4**).
3	Attach the canopy crossbar (**Fig. 5**) to a ceiling junction box with 2 screws (supplied by others).
4	Fasten the power wires (**Fig. 5**) from the junction box to the fixture wires. *Note:* Connect green to ground, black to the circuit line, and white to neutral.
5	Attach the canopy to the ceiling with the 2 supplied canopy mounting screws.

Figure 4. Fixture mounted on the 5A Canopy

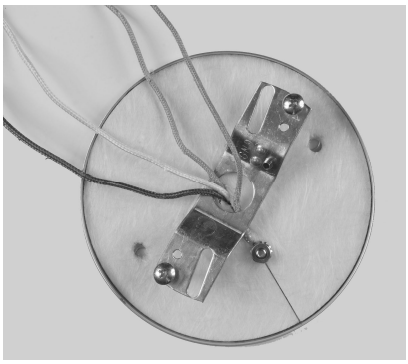


Figure 5. Ground and power wires with canopy crossbar

Installing the Fixture with a -2G Universal Flange Fitting and a -3G C-Clamp Fitting

Before Installing: Consult the code requirements for fixture mounting, and check the distance-from-wall label inside the fixture. Mount away from any flammable materials.

For the -2G fitting, follow steps 1, 2, 4, and 5.
For the -3G fitting, follow steps 1, 3, 4, and 5.

STEP	ACTION
1	Turn off all power to the fixture.
2	Attach the -2G fitting (**Fig. 6**) to any non-combustible material, using the 2-hole flanged mounting plate with 2 screws (supplied by others) or bolt-up applications, such as Unistrut or Kindorf systems.
3	Attach the -3G fitting (**Fig. 7**) to a non-combustible pipe measuring 5/8” to 2” in outside diameter, and then secure the fitting by turning the C-clamp bolt clockwise.
4	Plug the fixture into a power source. **IMPORTANT SAFETY INSTRUCTIONS** This product has a polarized plug (one blade is wider than the other) as a feature to reduce the risk of electric shock. This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless the plug can be fully inserted. Do not alter the plug.
5	Turn on the main power, and then flip the fitting switch on. Note: The switch is located on the base of fitting.

Figure 6. -2G universal flange fitting

Figure 7. -3G C-clamp fitting

Installing or Removing Gel, Glass, or Hex Louver media

Gel and spread lens media is installed into the media holder assembly through the front of the fixture. The media, once seated in the holder is held in by spring clips.

STEP	ACTION
1	Turn off all power to the fixture, including the fixture switch on the fitting, and let the LED cool. It is recommended to remove the fixture from its mounting for easier installation. **WARNING: LED and fixture may be hot.**
2	If color/spread gel is needed locate printed label attached to media. Printed label will denote which side of the media should face out of the fixture, as well as spread direction in the case of a spread gel. Face the appropriate side of media away from the fixture, and align media to fixture as required. Place media and backer ring into media holder inside fixture (**Fig. 8**). Backer ring will hold media in desired orientation. Fine adjustment can then be made once installed (**Fig. 9).**
3	Backer ring can be replaced by Glass media or Hex Louver and can be installed with or without gel media (**Fig. 10**)**.**
4	To remove media, repeat step 1 above. Press outward on spring clips and media can then be removed. LP1 has 2 spring clips. LP2 has 4 spring clips.

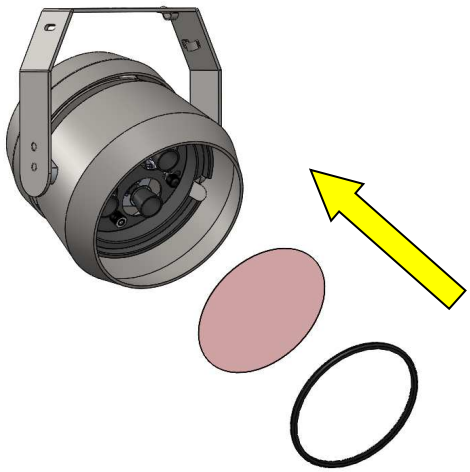


Figure 8. Color/Spead gel media with backer ring

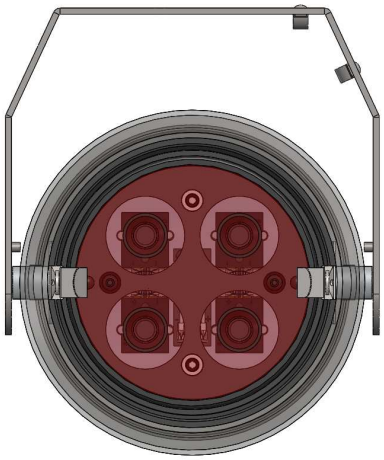


Figure 9. Color/Spead gel media with backer ring installed in LP1

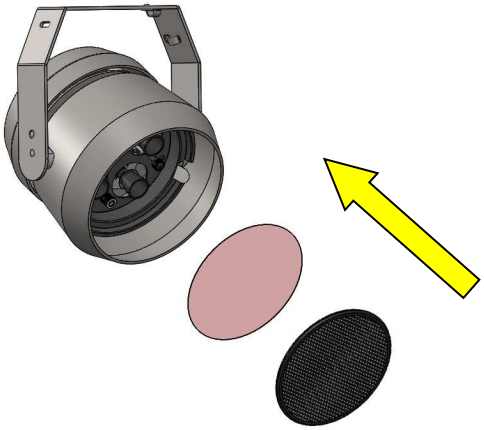


Figure 10. Color/Spead gel media with hex louver

Installing or Removing Accessory Holder

The external accessory holder is installed on the front of the fixture and is secured with a thumb screw and mounting tabs. Removal is accomplished by loosening thumb screw and pulling out the accessory holder.

STEP	ACTION
1	Turn off power to the fixture, including the fixture switch on the fitting, and let the LED cool. It is recommended to remove the fixture from its mounting for easier installation. **WARNING: LED and fixture may be hot.**
2	Insert accessory holder into front of fixture. Angle accessory toward fixture when inserting to allow black tabs on accessory to clear the opening of the fixture. Once tabs clear the opening, rotate accessory toward fixture to seat it, making sure accessory flange sits flush with front edge of fixture housing. (**Fig. 11 & 12**) Rotate accessory holder to achieve desired orientation.
3	Locate the locking knob on the inside of accessory holder (opposite from the tabs). Turn knob clockwise until tight. (**Fig. 13**). Test that accessory is fully seated and does not move. If not fully seated, loosen locking knob fully, remove accessory and reinstall.
4	Reinstall fixture and restore power. **WARNING: Do not look directly at the lit LED.**
5	To remove accessory holder, repeat step 1. Locate the locking knob and turn counter-clockwise, until fully loosened. (**Fig 13**) Rotate the locking knob side of the accessory outward from the fixture, and lift out from the fixture. If the locking knob does not clear the fixture opening, loosen the locking knob further.

Figure 11. Insert accessory

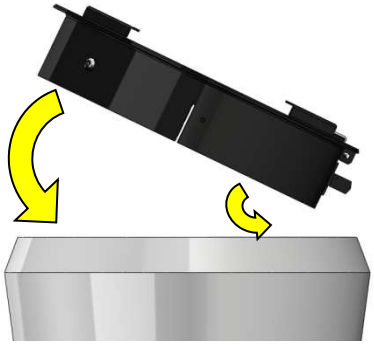


Figure 12. Insert accessory at an angle to allow black tabs to clear the fixture opening, and rotate into place

Figure 13. Rotate knob clockwise to lock accessory into place

Installing or Removing Barn Door and Hood

The barn door and hood accessories are installed in the external accessory holder using a spring loaded clip. Removal is accomplished by releasing the spring loaded clip and sliding out the accessory.

STEP	ACTION
1	Turn off power to the fixture, including the fixture switch on the fitting, and let the LED cool. It is recommended to remove the fixture from its mounting for easier installation. **WARNING: LED and fixture may be hot.**
2	Slide retaining clip to the left and rotate up away from the fixture **(Fig. 14)**.
3	Slide accessory into holder **(Fig. 15)**.
4	Slide retaining clip to the left and rotate down towards the fixture **(Fig. 16)**.
5	Accessories have a mounting hole for a safety cable. Install the safety cable through the hole in the accessory and around a major supporting structure then attach the two loops in the cable together using the supplied carabineer clip.
6	Reinstall fixture and restore power. **WARNING: Do not look directly at the lit LED.**
7	To remove accessory, repeat step 1. Remove safety cable. Slide retaining clip to the left and rotate up **(Fig. 14)**. Remove accessory from holder **(Fig. 15)**.

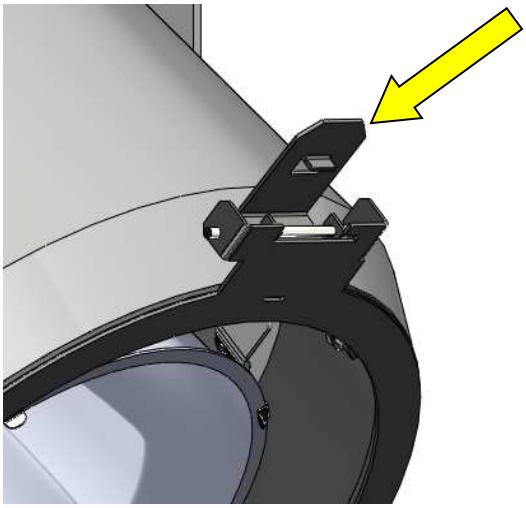


Figure 14. Release retaining clip

Figure 15. Slide accessory into holder

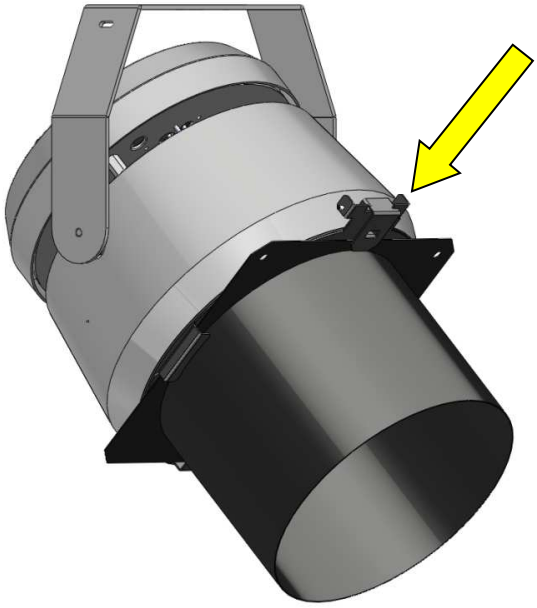


Figure 16. Lock retaining clip

Replacing the LED Module

If you need to change the LED Module, follow the steps below.

NOTE: LP1 SHOWN TO THE RIGHT, LP2 IS PHYSICALLY DIFFERENT BUT HAS THE SAME PROCEDURE.

STEP	ACTION
1	Remove all power to the fixture, and let the LED board cool. Remove the fixture from its current location. Set on a clean firm work-surface with the LED board facing up. **WARNING: LED Module and fixture may be hot.**
2	Using a 7/64 allen key remove the LED module by unscrewing the two knurled screws securing the module to the fixture (**Fig. 17**). All hardware is self-retained on the module.
3	Remove the LED module from the fixture (**Fig. 18**).
4	To reinstall module align pin on the LED module (**Fig. 19**) with hole in fixture housing(**Fig. 18**)
5	Tighten the two thumb screws until module is securely seated.
6	Reinstall the fixture and restore all power to the fixture. WARNING: Do not look directly at the lit LED.

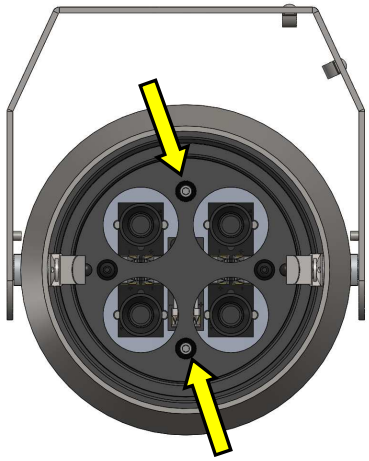


Figure 17. Two knurled thumb screws for module removal

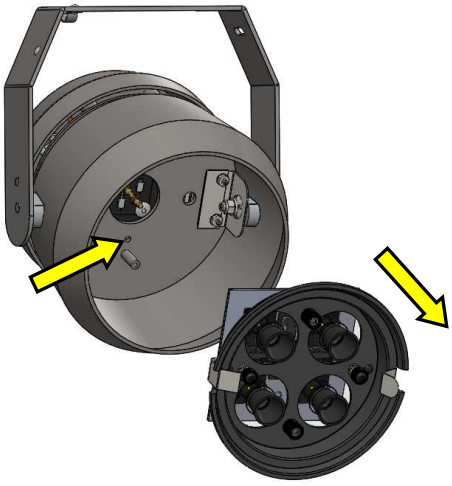


Figure 18. LED modules separated from fixture. Alignment hole inside housing indicated.

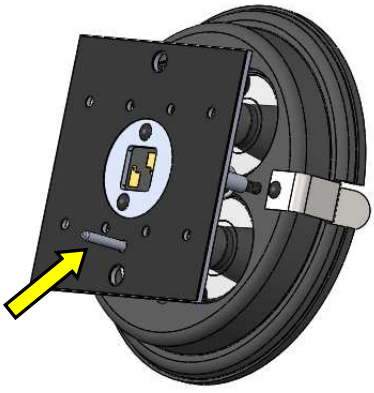


Figure 19. Back of LED module, pin location

OPTIONAL DMX CONTROL

The UV8 and UV90 are available with DMX/RDM control via 5 pin XLR connectors. The controller can be set to two different modes, DMX and Standalone.

DMX MODE

- The fixture is controlled by the data it receives on the 5 pin XLR connectors located on the side of the yoke. **(Fig. 27 & 28).** When DMX signal is lost/not present light output will default to 100%.

NOTE: Two DMX universes can be passed thru the XLR connectors but the fixture will only listen to data on pins 2/3 **(Fig. 29).**

PIN	Description
1	Common (shield)
2	Data -
3	Data +
4	Pass thru
5	Pass thru

- 1 DMX channel is used for 8 bit dimming. The microprocessor controller converts data to 10 bit dimming by a smoothing algorithm. Dim curve is linear.

- DMX address is set by a 3 digit push button. Numbers 001-512 will set the DMX address **(Fig. 30).**

NOTE: Top button decreases the value of the digit in that column by one. Bottom button increases the value of the digit in that column by one.

- If RDM (Remote Device Management) is needed set number to 000 **(Fig. 30).** Use a DMX/RDM interface (by others) to configure the fixture's DMX address.

STANDALONE MODE

- In standalone mode the fixture can be controlled directly from the 3 digit push button without the need of a DMX control device.

- Fixture is controlled from 0-100% intensity by setting the 3 digit push button from 900-999. 900 being 0% (off) and 999 being 100% (full on) **(Fig. 30).**

NOTE: Top button decreases the value of the digit in that column by one. Bottom button increases the value of the digit in that column by one.

Figure 27. DMX controller on yoke

Figure 28. DMX controller housing

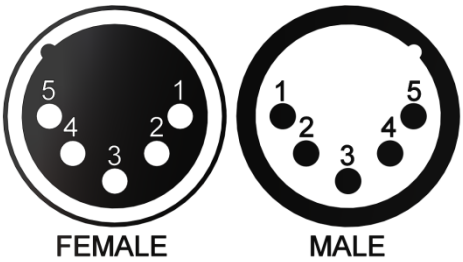


Figure 29. XLR 5 pin layout

Figure 30. DMX address, 3 digit push button

CLEANING INSTRUCTIONS FOR LP1 AND LP2 LED OPTICS

Important

FOLLOW THESE INSTRUCTIONS TO PREVENT DAMAGE TO THE LED MODULE. NOT CLEANING THE OPTICS CORRECTLY CAN REDUCE THE EFFICIENCY OF THE OPTICAL SURFACE. DO NOT TOUCH THE SURFACE OF THE BOARD OR OPTICS WITH YOUR BARE SKIN, AS HUMAN SKIN OIL WILL DEGRADE THE OPTICAL SURFACE.

Cleaning the Reflector

INSTRUCTIONS: Wear blue nitrile gloves during this process to ensure not to touch the optical surface of the optic with your bare skin.

MATERIALS REQUIRED:

- De-ionized water
- Blue Nitrile Gloves
- Dish soap (such as Dawn®)
- Air Bulb (aka suction bulb)
- Lens Tissue (Kemwipes®) OR • Terry Cloth

STEP	ACTION
1	Remove accessories and gels from fixture to allow access to LED board.
2	Using air bulb, blow clean air across the front of the optics to remove any surface dust or debris.
3	Apply a generous amount of De-ionized water combined with a small amount of dish soap to a lens tissue or terry cloth.
4	While wearing nitrile gloves, gently clean the top surface of the optic with the wet lens tissue or terry cloth.
5	Allow optic to dry prior to reinstalling onto the fixture.