

### Standard Installation

# NITE STAR/MICRO NITE CEILING MOUNT - LED/MR16 LOW VOLTAGE



Flammable



Warning



Low Voltage



Hot Surface

#### TOOLS NEEDED:



1/8" Allen Wrench



Waterproof Wire Connectors

### INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS IMPORTANT SAFETY INSTRUCTIONS

#### Lighted fixture is HOT!

#### WARNING - To reduce the risk of FIRE OR INJURY TO PERSONS:

Turn off/unplug and allow to cool before replacing lamp/LED. Fixture gets HOT quickly! Contact only switch/plug when turning on. Do not touch hot lens, guard, or enclosure. Keep fixture away from materials that may burn. Do not operate the luminaire fitting with a missing or damaged shield. Do not touch the source at any time. Use a soft cloth or gloves. Oil from skin may cause damage.

**SAVE THESE INSTRUCTIONS**

### IMPORTANT SAFETY INFORMATION - READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS

- Product must be installed by a qualified person in a manner consistent with its intended use and in compliance with the National Electrical Code, Canadian Electrical Code, and all Local and Provincial Codes.
- Follow product label information and instructions.
- Qualified Personnel with appropriate personal protective equipment must perform all servicing of this product.
- Before wiring to power supply and during servicing, turn off and lock out power at fuse or circuit breaker before service.
- The use of accessory equipment not recommended by the manufacturer or installed contrary to instructions may cause an unsafe condition. The use of damaged components may cause an unsafe condition and void product warranty.
- Do not block light emanating from product in whole or part, as this may cause an unsafe condition.
- Never operate the fixture with missing or damaged lens. Lens must be cleaned on regular basis.
- Entire fixture may become extremely hot. Do not touch hot lens or fixture body.
- Replace LED assembly only with correct wattage and type of power supply appropriate for LED assembly.
- All gaskets, o-rings and sealing surfaces must be kept clean during installation and service; failure to do this may cause an unsafe condition and void product warranty.

### IMPORTANT LISTINGS AND CERTIFICATIONS

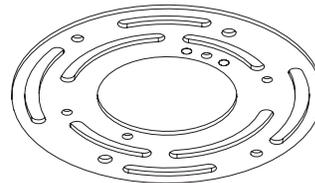
- Suitable for wet location

Please refer to the low voltage design guide at "<https://www.bklighting.com/resources/>" before installation for proper wire selection.

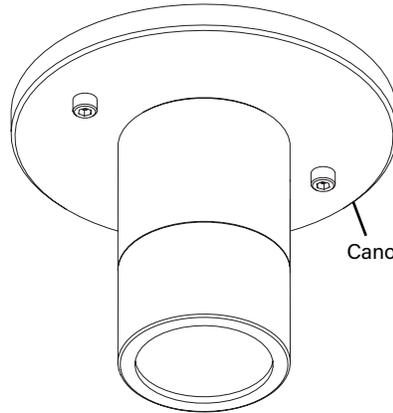
This set of instructions works for:

**NS-CM** - Nite Star Ceiling Mount

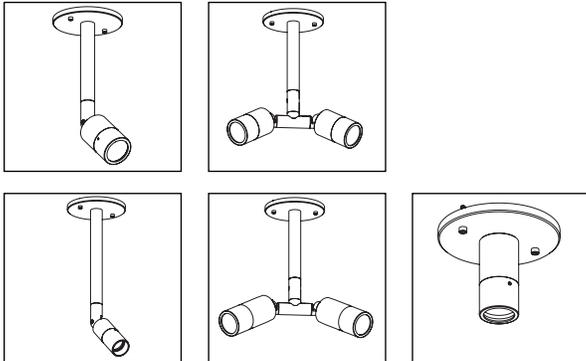
**MN-CM** - Micro Nite Ceiling Mount



Universal Mounting Ring



Canopy



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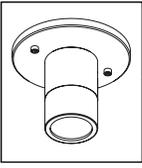
# B-K LIGHTING

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[www.bklighting.com](http://www.bklighting.com) • [info@bklighting.com](mailto:info@bklighting.com)

RELEASE DATE  
02/06/2024

REFERENCE NUMBER  
INS-2320-00

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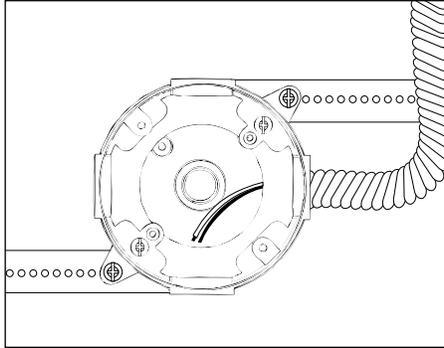
## Standard Installation

# NITE STAR/MICRO NITE

CEILING MOUNT - LED/MR16 LOW VOLTAGE

### Phase 1 - Rough In

Installation of Back box

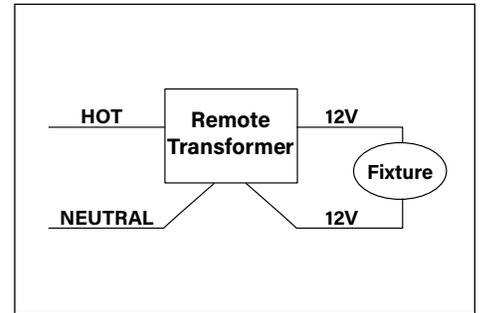
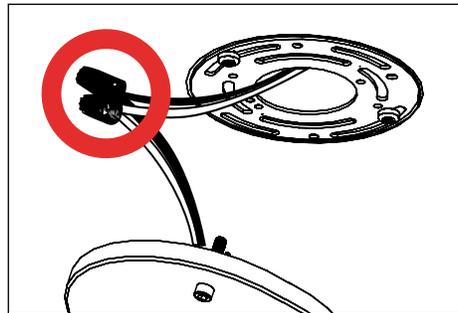
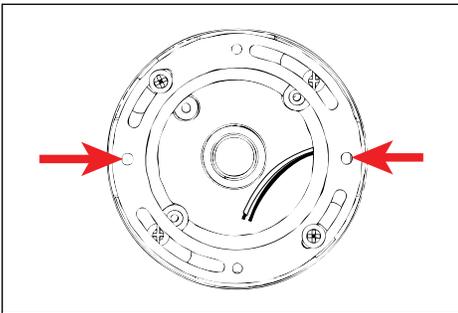


#### Additional Info

- Please follow National and Local electrical codes for your area.
- Use 4" round cast box (not included).
- Suitable for through wire.
- Suitable for installation into combustible materials.
- Rated for 90° C.
- Junction box, universal mounting ring screws, box mounting hardware and gaskets (not included).

1. Install conduit (not included) to be used with this product.
2. Install junction box so that front face is flush with finished ceiling. Seal building envelope as per NEC.
3. Connect box to conduit and pull wires for connections (**See wiring diagram**).

### Phase 2 - Finish Installation of Fixture

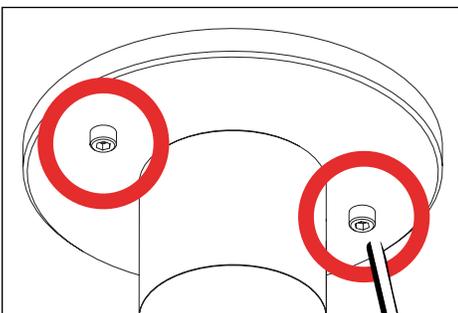


1. Install universal mounting ring (included with fixture) using #10-24 screws onto back box. Align fixture mounting holes to final mounting position.
2. Make watertight connections from remote transformer to fixture leads using waterproof wire connectors (not included). **See wiring diagram.**

#### WIRING DIAGRAM

⚠ **LED** - For use with 12VAC LED remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

⚠ **Low Voltage** - For use with 12VAC remote transformer.



3. Mount fixture using two (2) #10-24 hex screws to installed back box using a 1/8" allen wrench. **Seal building envelope as per NEC. Do not overtighten.**

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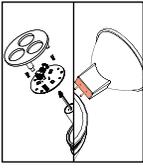


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# LED BOARD, DRIVER, & OPTICS

2-1/4" SIZE

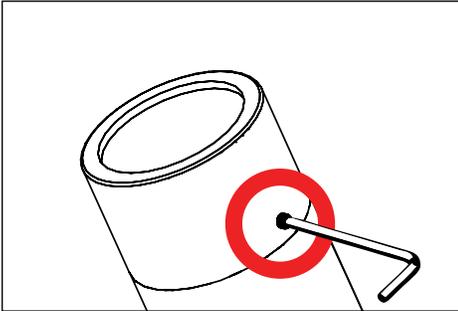
## Replacement Instructions



**This product is available with Adjust-e-Lume® (Patent Pend.) for Dynamic Lumen Output Control**

**Warning!** The light output of this product may be dynamically adjusted as desired to raise and lower light levels. Please ensure the fixture is set to the appropriate light level desired during installation.

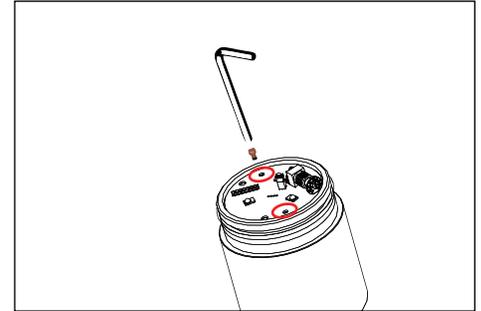
### Replacing LED Board/Driver and Optics



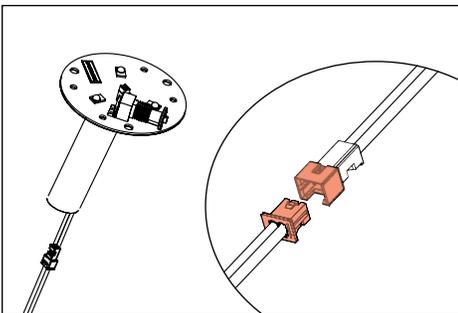
1. Use a 5/64" allen wrench to loosen #8-32 stainless set screw and remove cap.



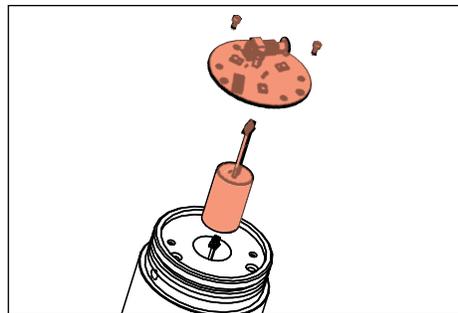
2. Space three fingers evenly around the optic and gently rock optic to remove.



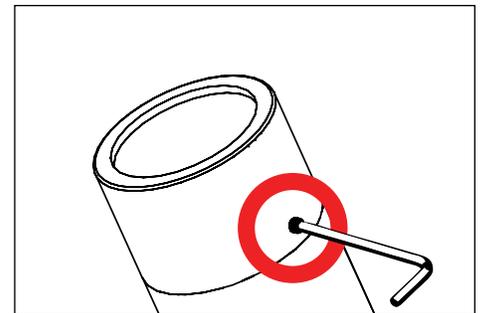
3. Use a 5/64" allen wrench to remove two (2) #2-56 socket head cap screws on LED board, grasp LED board and gently pull up to expose quick disconnect.



4. Disengage LED board and driver assembly. Replace with new board and driver assembly.

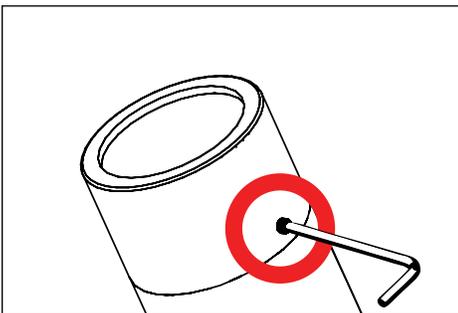


5. Reverse install LED board and driver.

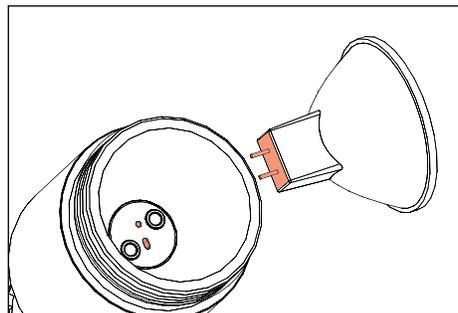


6. With flat head screw driver rotate dial to desired lumen output. Replace cap.

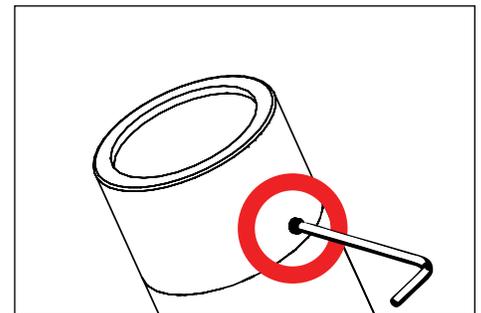
### Lamp Installation or Relamping if Required for MR16 Low Voltage Lamp



1. Use a 5/64" allen wrench to loosen #8-32 stainless set screw and remove cap.



2. Firmly insert lamp pins into socket to make connection. Rocking motion may be required.



3. Place cap on fixture and tighten set screw. Tighten screw to 1/2 in-lbs. Top of screw should sit flush with fixture cap.

**⚠ Do not exceed the maximum wattage listed on the fixture label before installing.**

**⚠ Warning: Do not over tighten set screw. Doing so will compromise o-ring seal and will void warranty.**

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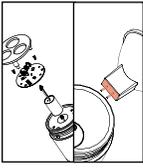


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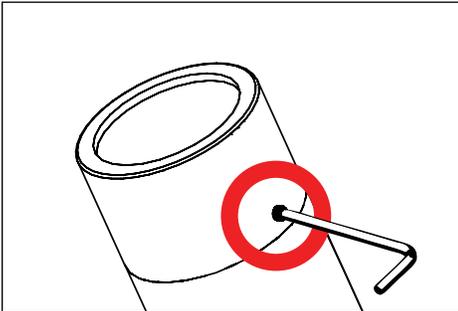


# LED & LOW VOLTAGE LED LAMP

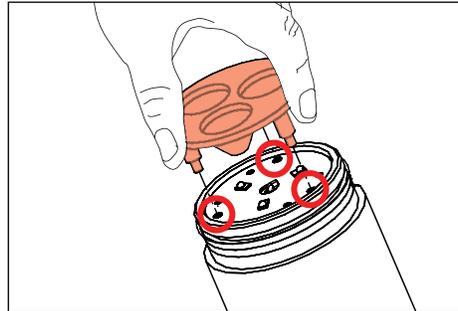
1-5/8" SIZE

## Replacement Instructions

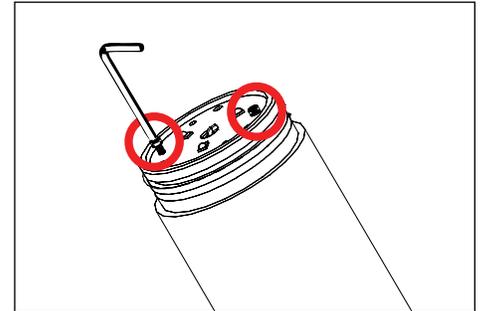
### Replacing LED Board/Driver and Optics



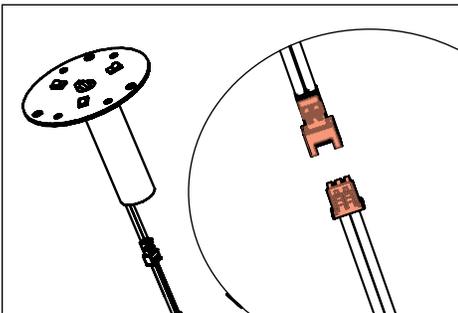
1. Use a 5/64" allen wrench to loosen #8-32 stainless set screw and remove cap.



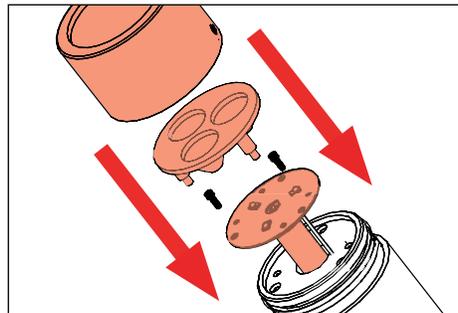
2. Space three fingers evenly around the optic and gently rock optic to remove.



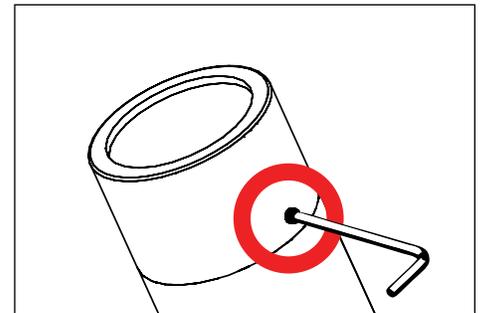
3. Use a 5/64" allen wrench to remove two (2) #2-56 socket head cap screws on LED board, grasp LED board and gently pull up to expose quick disconnect.



4. Disengage LED board and driver assembly. Replace with new board and driver assembly.



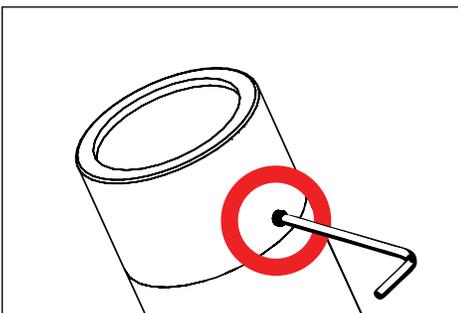
5. Reverse install LED board and driver by carefully wrapping 18 gauge wires around driver and inserting into fixture body. Secure LED board in place with stainless steel screws.



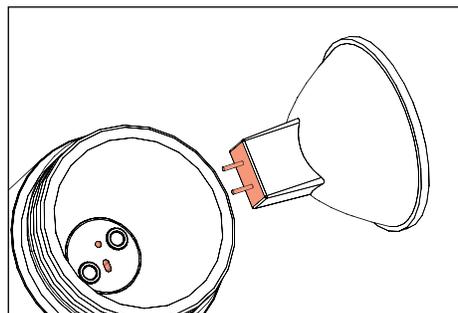
6. Place cap on fixture and tighten set screw. Tighten screw to 1/2 in-lbs. Top of screw should sit flush with fixture cap.

**Warning:** Do not over tighten set screw. Doing so will compromise o-ring seal and will void warranty. Cap should be able to rotate without force.

### Replacing MR16 Low Voltage Lamps

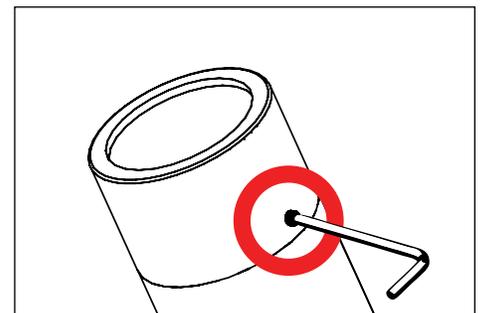


1. Use a 5/64" allen wrench to loosen #8-32 stainless set screw and remove cap.



2. Firmly insert lamp pins into socket to make connection. Rocking motion may be required.

**Warning:** Do not exceed the maximum wattage listed on the fixture label before installing.



3. Place cap on fixture and tighten set screw. Tighten screw to 1/2 in-lbs. Top of screw should sit flush with fixture cap.

**Warning:** Do not over tighten set screw. Doing so will compromise o-ring seal and will void warranty. Cap should be able to rotate without force.

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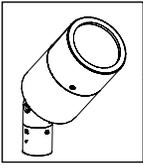


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## Standard Adjustment

# 360SL KNUCKLE MOUNTING SYSTEM



Flammable



Warning



Hot Surface

### TOOLS NEEDED:

➤ 5/32" & 5/64" Allen wrench

### INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS IMPORTANT SAFETY INSTRUCTIONS

#### Lighted fixture is HOT!

#### WARNING - To reduce the risk of FIRE OR INJURY TO PERSONS:

Turn off/unplug and allow to cool before replacing lamp/LED. Fixture gets HOT quickly! Contact only switch/plug when turning on. Do not touch hot lens, guard, or enclosure. Keep fixture away from materials that may burn. Do not operate the luminaire fitting with a missing or damaged shield. Do not touch the source at any time. Use a soft cloth or gloves. Oil from skin may cause damage.

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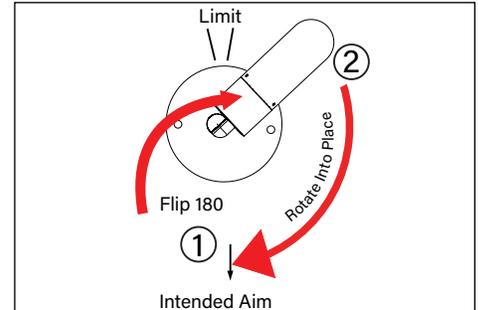
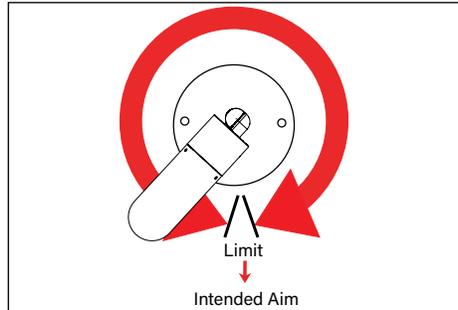
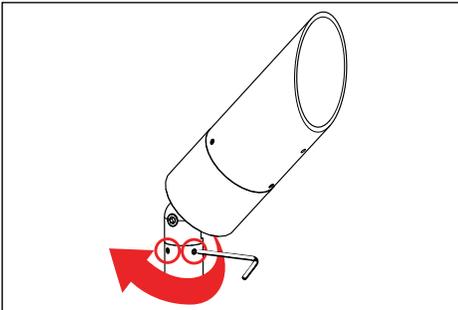
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- Follow product label information and instructions.
- Qualified Personnel with appropriate personal protective equipment must perform all servicing of this product.
- Before wiring to power supply and during servicing, turn off and lock out power at fuse or circuit breaker before service.
- The use of accessory equipment not recommended by the manufacturer or installed contrary to instructions may cause an unsafe condition. The use of damaged components may cause an unsafe condition and void product warranty.
- Do not block light emanating from product in whole or part, as this may cause an unsafe condition.
- Never operate the fixture with missing or damaged lens. Lens must be cleaned on regular basis.
- Entire fixture may become extremely hot. Do not touch hot lens or fixture body.
- Replace LED assembly only with correct wattage and type of power supply appropriate for LED assembly.
- All gaskets, o-rings and sealing surfaces must be kept clean during installation and service; failure to do this may cause an unsafe condition and void product warranty.

### IMPORTANT LISTINGS AND CERTIFICATIONS

- Suitable for wet locations • Additionally suitable for mounting within 4 ft. of the ground

## 360SL Knuckle Mounting System



1. Use a 5/64" allen wrench to slightly loosen two (2) #8-32 set screw on the knuckle for 360° aiming purpose.
2. Rotate fixture at base and aim fixture to desired horizontal location.
3. If the over-rotation protection pin is in the desired aiming position, do not force the fixture past the limit. Using a 5/64" and 5/32" allen wrench, slightly loosen both set screws in the knuckle and knuckle screw enough to move the fixture freely on both axes.
4. Flip the fixture 180 degrees over the knuckle. The rotational range limit will now be 180 degrees from the original position. Now rotate the fixture into the desired aiming position.
5. Secure aim by tightening two (2) #8-32 set screws using a 5/64" allen wrench and one (1) #10-32 screw using a 5/32" allen wrench.

⚠ **Rotating the cap may be necessary for proper weep hole and cutoff position**

⚠ **Warning: Do not over tighten cap set screws. Doing so will compromise o-ring seal and will void warranty.**

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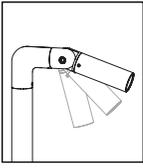
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## Standard Adjustment

|                      |                              |
|----------------------|------------------------------|
| <b>TOOLS NEEDED:</b> | ➤ 5/32" & 5/64" Allen Wrench |
|----------------------|------------------------------|



Flammable



Warning



Hot Surface

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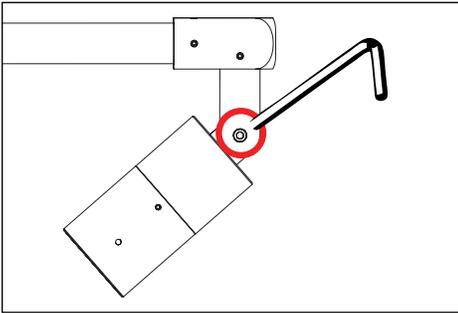
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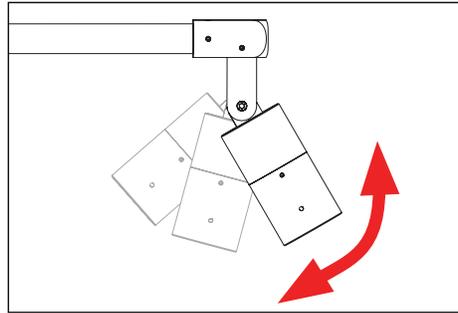
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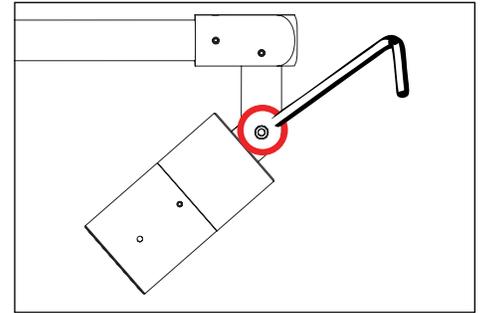
#### L.O.C.K. Knuckle - (Locking 'O' Ring Compression Knuckle)



1. Use a 5/32" allen wrench to slightly loosen #10-32 stainless steel set screw on the stem for 180° aiming purpose.

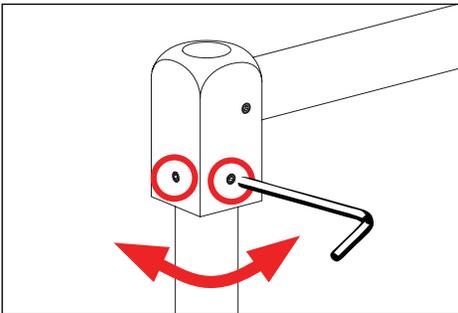


2. Aim fixture to desired angle.

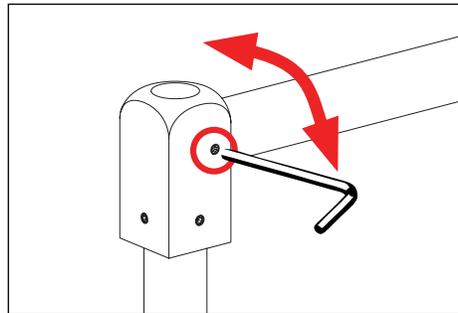


3. Tighten #10-32 stainless steel set screw using a 5/32" allen wrench to secure aiming position.

**⚠ Warning: Do not over tighten set screw. Doing so will compromise o-ring seal and will void warranty.**



4. To adjust stem horizontally, loosen two (2) #8-32 screws at base of stem cap using a 5/64" allen wrench. Adjust as needed, then secure.



5. To adjust stem, loosen #8-32 screw with a 5/64" allen wrench at stem cap. Adjust as needed, then secure.

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