

BKSSL
SOLID STATE LIGHTING

Mini-Micro Series™ STAFF STAR™ & TWIN STAFF STAR™

Installation Instructions



Warning



Flammable



Hot Surface



High Voltage

TOOLS NEEDED:



5/32" & 9/64" Allen Wrench



Phillips Screwdriver



Waterproof Wire Connectors

By Others

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 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 locations
- Suitable for mounting within 4 ft. of the ground.

Please refer to the low voltage design guide at www.bklighting.com/lvguide before installation for proper wire selection.

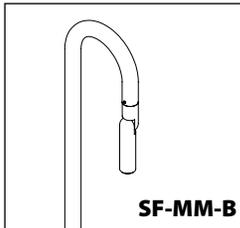
This set of instructions works for:

SF-MM-B - Staff Star Mini-Micro™ Style "B"

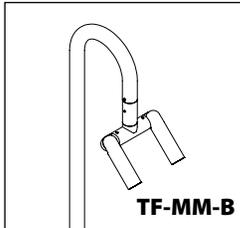
SF-MM-L - Staff Star Mini-Micro™ Style "L"

TF-MM-B - Twin Staff Star Mini-Micro™ Style "B"

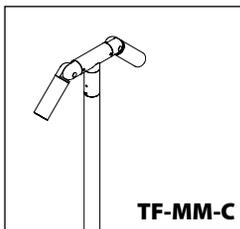
TF-MM-C - Twin Staff Star Mini-Micro™ Style "C"



SF-MM-B



TF-MM-B



TF-MM-C

L.O.C.K.™
Knuckle

SF-MM-L

Junction Box with Integral Transformer Housing with C Cap

Junction Box with B Cap Mounting Option

Stability Flange

Power Pipe

IMPORTANT SAFETY INFORMATION - READ, FOLLOW, AND SAVE THESE INSTALLATION INSTRUCTIONS

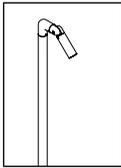
B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

RELEASE DATE
11-30-16

REFERENCE NUMBER
INS000978

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF B-K LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE OR SELL ANYTHING IT MAY DESCRIBE. REPRODUCTION, DISCLOSURE OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF B-K LIGHTING, INC. IS STRICTLY FORBIDDEN.



Installation Instructions

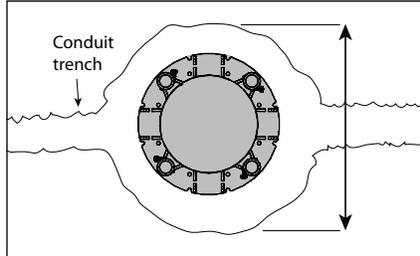
Mini-Micro Series™ STAFF STAR™ & TWIN STAFF STAR™

PROJECT:

TYPE:

**TRANSFORMER HOUSING MUST BE INSTALLED ABOVE GRADE. POWER PIPE™ IS LABELED AT GRADE LEVEL.
TRANSFORMER HOUSING INSTALLED BELOW GRADE WILL VOID WARRANTY**

Soil Prep

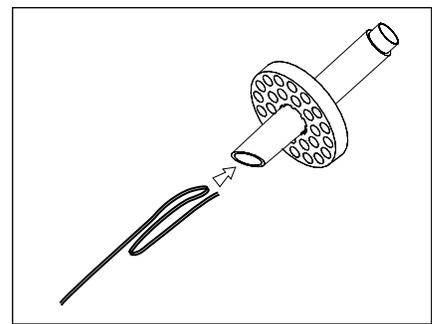
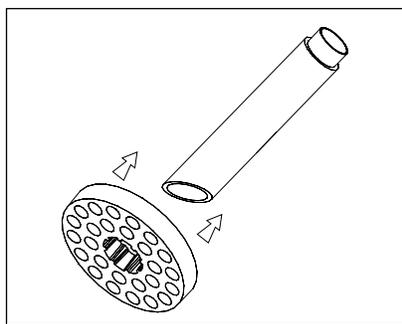
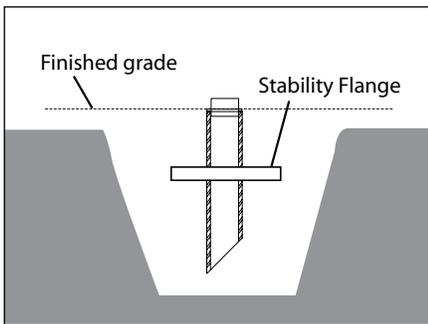


A. Determine Soil Type by referencing DIG-IT Guide. Prep soil according to DIG-IT Guide.

B. Dig hole 10" wide and 24" deep.

C. Prep soil according to DIG-IT Guide.

POWER PIPE™ INSTALLATION

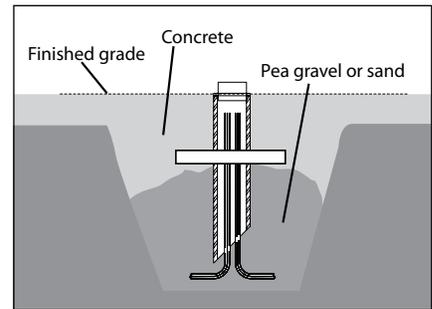
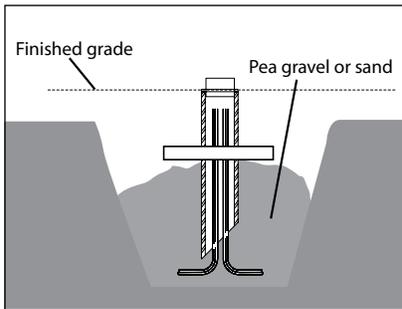
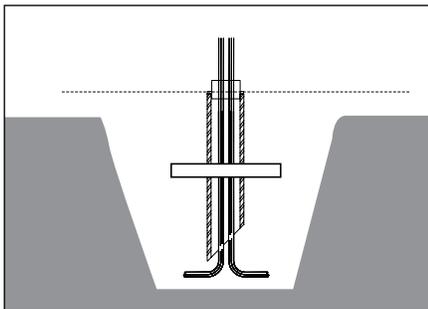


1. Excavate trench according to designed lighting plan. Dig hole a minimum of 24" deep and 10" wide to accommodate Power Pipe™ at desired fixture locations.

2. Slide Stability Flange onto Power Pipe™. Use Stability Flange to aid in installation of Power Pipe™.

3. Loop 12" of low voltage wire inside Power Pipe™. Do not remove temporary cover.

NOTE: Leave sufficient wire length in the Power Pipe™ for future service. Do not cut PVC.



4. Pull low voltage wiring from remote transformer (By Others) to Power Pipe™. Allow for additional cable to make connections to fixture lead and future service. Place Power Pipe™ in hole.

5. Back fill with pea gravel or sand prior to pour.

6. Pour concrete (By Others).

Label on Power Pipe™ indicates installation depth with finished grade.

**IMPORTANT SAFETY INFORMATION LISTED ON REVERSE
READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS**

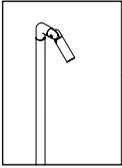


B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

RELEASE DATE
11-30-16

REFERENCE NUMBER
INS000978



Mini-Micro Series™ STAFF STAR™ & TWIN STAFF STAR™

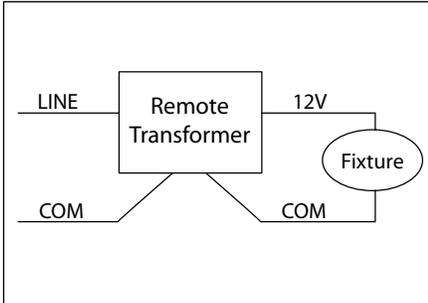
Installation Instructions

PROJECT:

TYPE:

**TRANSFORMER HOUSING MUST BE INSTALLED ABOVE GRADE. POWER PIPE™ IS LABELED AT GRADE LEVEL.
TRANSFORMER HOUSING INSTALLED BELOW GRADE WILL VOID WARRANTY**

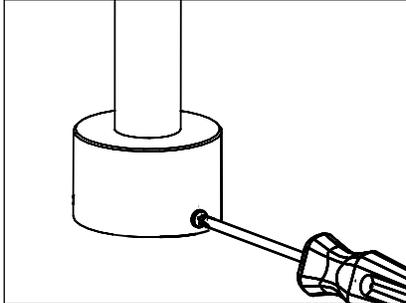
POWER PIPE WITH B CAP FIXTURE MOUNTING OPTION



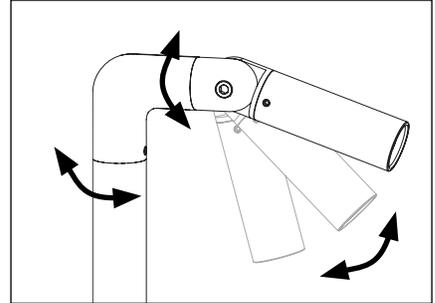
WIRING DIAGRAM

6. Make watertight connections from remote transformer to fixture leads using waterproof wire connectors (By Others). See wiring diagram.

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

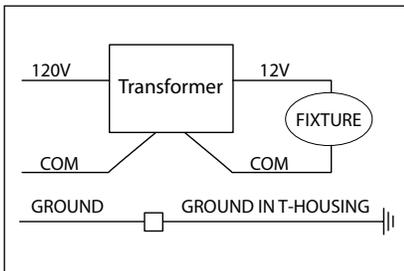


7. Place fixture on Power Pipe™. Tighten three (3) #8-32 stainless steel round head Phillips screws to secure to installed Power Pipe™.



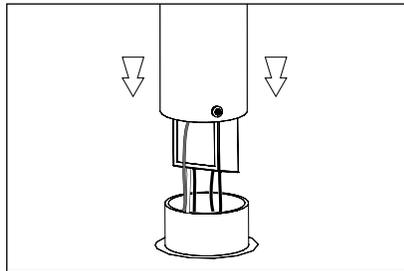
8. Use 5/32" Allen wrench to slightly loosen #10-32 stainless steel set screw on the stem for 180° aiming purpose. Tighten to secure aiming position.
9. Use 9/64" Allen wrench to loosen #8-32 screws at bend(s). Aim fixture to desired position. Tighten to secure aiming position.

POWER PIPE™ WITH TRANSFORMER HOUSING BASE MOUNTING OPTION

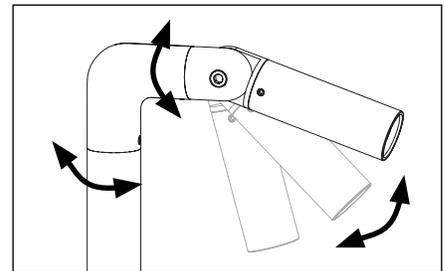


WIRING DIAGRAM

6. Make watertight connections from branch circuit wiring to transformer primary leads using waterproof wire connectors (By Others).
7. Attach ground from branch circuit wiring to ground screw in transformer housing.



8. Place wires, connectors and transformer into transformer housing and attach to Power Pipe™. Tighten three (3) #8-32 stainless steel round head Phillips screws at transformer housing base to secure.



9. Use 5/32" Allen wrench to slightly loosen #10-32 stainless steel set screw on the stem for 180° aiming position. Tighten to secure aiming position.
10. Use 9/64" Allen wrench to loosen #8-32 screws at bend(s). Aim fixture to desired position. Tighten to secure aiming position.

**IMPORTANT SAFETY INFORMATION LISTED ON REVERSE
READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS**

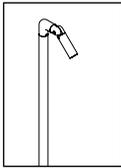


B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

RELEASE DATE
11-30-16

REFERENCE NUMBER
INS000978



Mini-Micro Series™ STAFF STAR™ & TWIN STAFF STAR™

Anchor Base Installation Instructions



Warning



Flammable



Hot Surface



Low Voltage

TOOLS NEEDED:



5/32" & 9/64" Allen Wrench



Standard Screwdriver



Waterproof Wire Connectors

By Others

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 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 locations
- Suitable for mounting within 4 ft. of the ground.

Please refer to the low voltage design guide at www.bklighting.com/lvguide before installation for proper wire selection.

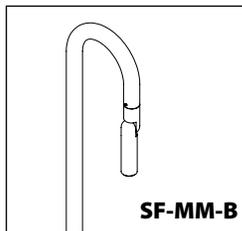
This set of instructions works for:

SF-MM-B - Staff Star Mini-Micro™ Style "B"

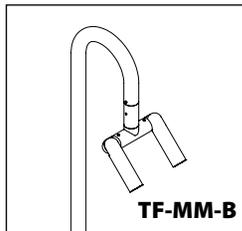
SF-MM-L - Staff Star Mini-Micro™ Style "L"

TF-MM-B - Twin Staff Star Mini-Micro™ Style "B"

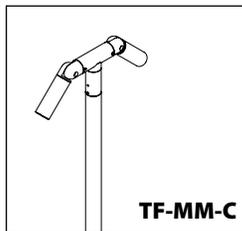
TF-MM-C - Twin Staff Star Mini-Micro™ Style "C"



SF-MM-B



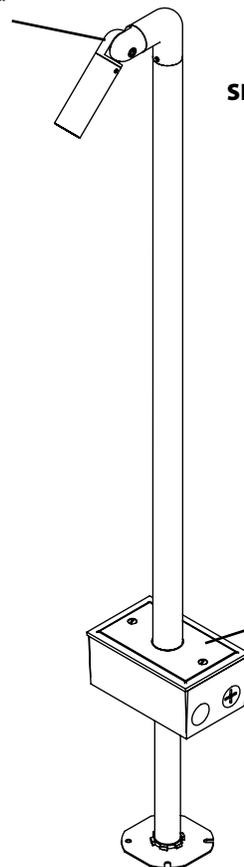
TF-MM-B



TF-MM-C

L.O.C.K.[™]
Knuckle

SF-MM-L



Anchor Base

IMPORTANT SAFETY INFORMATION - READ, FOLLOW, AND SAVE THESE INSTALLATION INSTRUCTIONS

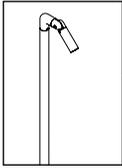
B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

RELEASE DATE
11-30-16

REFERENCE NUMBER
INS000978.1

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF B-K LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE OR SELL ANYTHING IT MAY DESCRIBE. REPRODUCTION, DISCLOSURE OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF B-K LIGHTING, INC. IS STRICTLY FORBIDDEN.

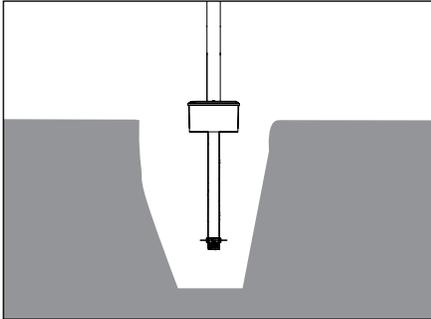


Mini-Micro Series™ STAFF STAR™ & TWIN STAFF STAR™

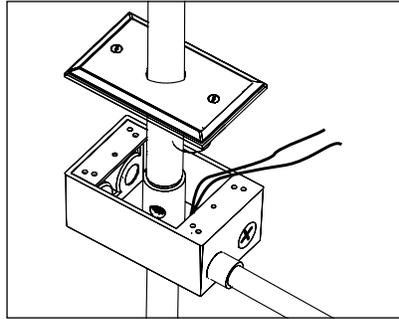
Anchor Base Installation Instructions

TRANSFORMER HOUSING MUST BE INSTALLED ABOVE GRADE. TRANSFORMER HOUSING INSTALLED BELOW GRADE WILL VOID WARRANTY

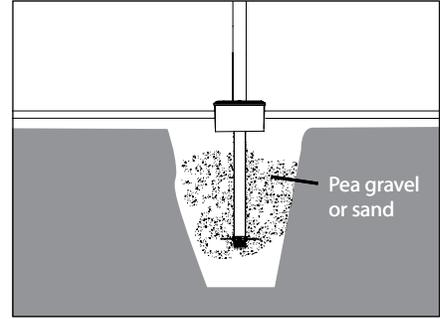
ANCHOR BASE MOUNTING OPTION



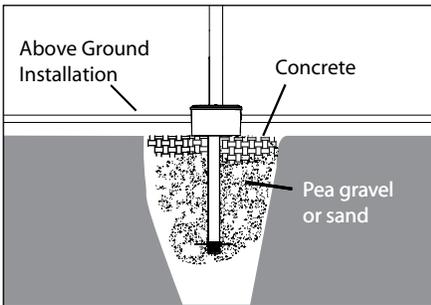
1. Excavate trench according to designed lighting plan. Dig hole a minimum of 18" deep and 10" wide to accommodate anchor base at desired fixture locations.



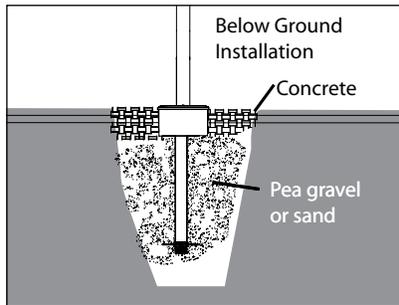
2. Connect 1/2" conduit connector through female threaded conduit entry.
3. Pull low voltage wiring from remote transformer (By Others) to junction box on anchor base. Allow for additional cable to make connections to fixture lead and future service. Place anchor base in hole.



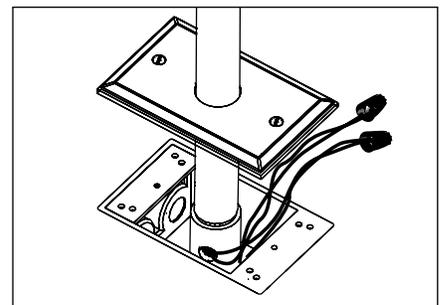
4. Back fill with pea gravel or sand prior to pour. Junction box can be installed above or below grade level.



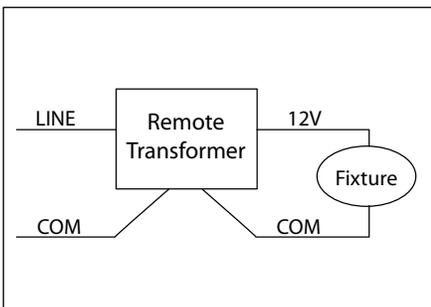
5. **For above ground installation:** Pour concrete (By Others) below junction box.



6. **For below ground installation:** Pour concrete (By Others) to grade and flush with junction box.

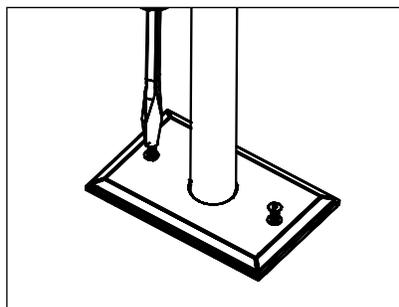


7. Make watertight connections from remote transformer to fixture leads using waterproof wire connectors (By Others). **See wiring diagram.**

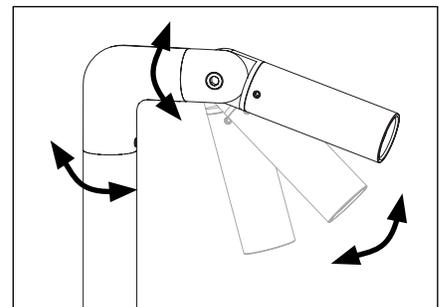


WIRING DIAGRAM

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



8. Attach box cover to junction box by tightening two (2) #6-32 stainless steel slotted screws to secure.



9. Use 5/32" Allen wrench to slightly loosen #10-32 stainless steel set screw on the stem for 180° aiming purpose. Tighten to secure aiming position.

10. Use 9/64" Allen wrench to loosen #8-32 screws at bend(s). Aim fixture to desired position. Tighten to secure aiming position.

**IMPORTANT SAFETY INFORMATION LISTED ON REVERSE
READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS**

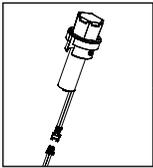


B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

RELEASE DATE
11-30-16

REFERENCE NUMBER
INS000978.1



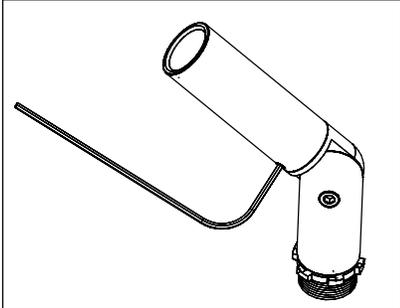
LED BOARD, DRIVER AND OPTICS - MINI-MICRO

Replacement / Installation Instructions

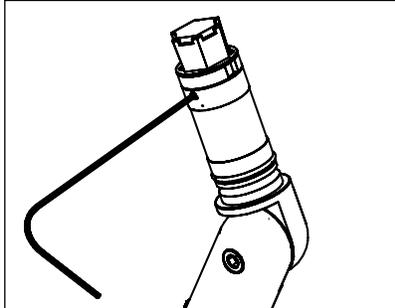
PROJECT:

TYPE:

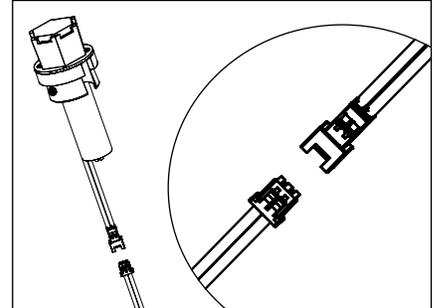
RE-PLACING LED BOARD, DRIVER AND OPTICS



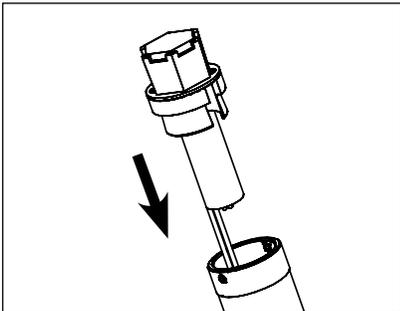
1. Use 5/64" Allen wrench to loosen #8-32 stainless steel set screw and remove cap.



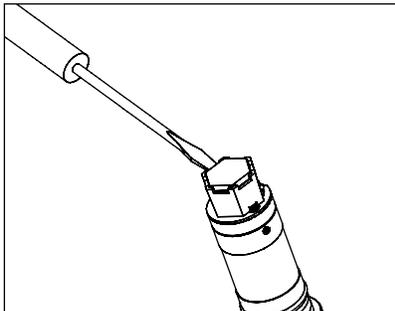
2. Use .050" Allen wrench to loosen two (2) #4-40 stainless steel set screws below LED board on the heat sink. Gently pull up on LED board and Driver assembly to expose quick disconnect.



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



4. 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 set screws.



5. Use small flat head screw driver to remove lens from optic holder on the LED. Snap new optic in place. Replace cap on fixture and tighten set screw.

**IMPORTANT SAFETY INFORMATION LISTED ON REVERSE
READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS**



B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

RELEASED
10-31-13

REFERENCE NUMBER
INS000003

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF B-K LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE OR SELL ANYTHING IT MAY DESCRIBE. REPRODUCTION, DISCLOSURE OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF B-K LIGHTING, INC. IS STRICTLY FORBIDDEN.