

Installation Instructions

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

(Failure to follow the warnings and instructions on this sheet could result in fire, injury, failure of product, and/or voiding of warranty.)

1. Do not touch while lamp is on. Turn off/unplug and allow to cool before replacing lamp.
2. Lamp gets HOT quickly! Contact only switch/plug when turning on.
3. Keep lamp away from materials that may burn.
4. Do not install fixture with MR16 halogen lamp options in contact with combustible materials.
5. Do not touch lamp at any time. Use a soft cloth. Oil from your skin may damage lamp.
6. Do not operate with damaged or missing parts.
7. Do not disassemble beyond cover & faceplate/cap removal to facilitate lamp and accessory installation/replacement, or as otherwise directed in the installation instructions below.
8. Remove any debris or build-up accumulated on the faceplate or lens periodically. Failure to do so could result in reduction in performance, fixture overheating, or fire.
9. Do not install within 10 feet of a pool, spa, or fountain.
10. Have installed in accordance with all applicable installation codes and standards by a person familiar with the construction, operation, and hazards involved. Consult a qualified electrician to ensure correct branch circuit conductor.
11. Cable buried more than 6" must be suitable for direct burial. Direct burial cable may be ordered from Vision3 Lighting.
12. Lens temperatures can get hot enough, with some lamps, to cause injury when touched.
13. Failure to follow these instructions can cause fire, injury, and/or void warranty.

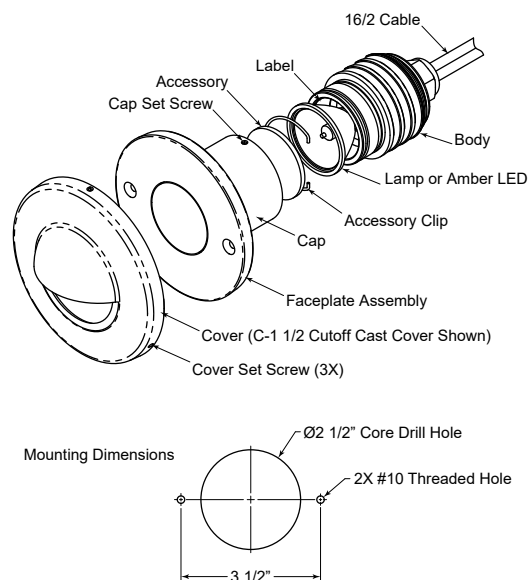
Installation:

Notes:

- This fixture should not be mounted in such a way that it is buried or in direct contact with the ground or soil.
- This fixture requires a remote transformer.
- LED & COB LED models should only be powered and controlled by compatible transformers and control systems. Contact Vision3 Lighting for approved transformer / controls list. Using non-approved transformers / controls could cause the LED to not operate properly or fail.
- (For Integral LED option only) Integral LED options come with a High/Low switch. See 'LED Switching' instructions on next page. Switch will be set to 'High' setting at the factory, unless otherwise specified when ordered.
- (For Retrofit LED option only) Use only Vision3 approved Retrofit MR16 LED options and supplied Heatsink Mount, otherwise LED may overheat and fail.
- (For Amber LED option only) Amber retrofit LED option must follow LED manufacture and wildlife certification program installation & configuration requirements.
- (For COB LED w/ Driver option only) COB LED w/ Driver system design should allow an additional 2W per fixture (6W for LE2-0400 & 10W for LE2-0700 or LE2-1000), to reduce system stress during start up.
- LED ratings subject to change without notice. See website or contact V3 for most current info.

Caution! Fixture will be hot if lamp is on. Remove power and allow fixture to cool before performing any adjustments or maintenance.

1. Unpack the PA3 Step Light from its shipping container
2. Check to make sure that there are no damaged or missing components.
3. Using the information shown for 'Mounting Dimensions', make the required holes in the mounting surface. For the #10 mount holes, use appropriate threaded inserts for the material being mounted in. Note: When using the MR16 Halogen lamp option, this fixture is not suitable for use in contact with combustible materials or insulation. See specification sheet.
4. Install lamp and accessories, as described on next page, if not already installed from the factory. Note: Check label for any limitations on Accessories or Lamp wattages.
5. Connect the fixture leads (16/2 Cable) to the power supply wires (not supplied) using the appropriate water tight connectors (not supplied) per applicable codes. It is possible for water to travel thru the strands of the fixtures power leads, so all wiring connections must be done in an industry approved water tight manner. Failure to do so may cause water intrusion related failures. Use enough cable to allow for removal of the fixture from the core drilled hole. Note: Be sure that the power being supplied by the power supply leads matches the rating on the fixture Label.



6. Insert Body into the core drilled hole until the Faceplate meets the wall. Make sure wiring is not kinked or pinched in any way. Note: Silicone sealant can be applied to the back of the Faceplate to prevent water entry into the core drill hole.
7. Thread #10 flat head screws (not supplied) thru the faceplate holes and into the mount holes to secure the Faceplate to the wall. Note: It is recommended that stainless steel screws be used to prevent corrosion.
8. Loosen the Cover Set Screws (3X) with a 3/32" hex tool (do not remove screws) so that the Cover will slide over the Faceplate.
9. Place the Cover/Cutoff Assembly over the Faceplate and properly orient. For some options, the Cover and Cutoff will be two separate parts. Make sure the Cutoff fits properly into the recessed groove in the Cover before installing. Note: Cover Assembly should not be installed in an orientation that allows any eyelids or hoods to fill with water or debris.
10. Gently tighten each Cover Set Screw against the side of the Faceplate. Note: Make sure that the Cover/Cutoff Assembly is tightened onto the Faceplate with all three Cover Set Screws; otherwise, it may loosen.

Maintenance Disassembly / Reassembly Instructions:

Disassembly:

1. Remove power from fixture and let cool before touching. **Caution! Fixture may still be hot!**

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- Loosen, but do not remove, the Cover Set Screws (3X) and remove the Cover. Note: Thoroughly clean any dirt and debris from the hex in each screw before attempting to loosen. Failure to do so will cause the screw heads to strip.
- Loosen and remove the screws holding the Faceplate to the wall.
- Pull the fixture out of the wall, being careful to not twist, kink, or cut any of the wiring.
- Loosen the Cap Set Screw using a 3/32" hex tool – **do not remove screw!**
- Remove the Faceplate Assembly from the Body. Holding the Body and twisting while removing reduces the risk of damaging the O-ring.
- Inspect O-ring for damage. Replace if necessary.

Reassembly:

- Install Faceplate Assembly onto Body by pushing and twisting slowly. If O-ring is excessively dry, use a small amount of Krytox lubricant.
- Tighten Cap Set Screw with the 3/32" hex tool so that it just bottoms out. **Do not over tighten the Cap Set Screw!** This may cause the fixture to not seal properly.
- Insert Body into the core drilled hole. Make sure wiring is not kinked or pinched in any way. Note: Clean off silicone and reapply to the back of the Faceplate Assembly if previously used.
- Secure the Faceplate Assembly to the wall with appropriate screws.
- Slide the Cover over the Faceplate Assembly as far as it will go, and properly orient. Note: Eyelid should not point up as it will fill with water and debris.
- Gently tighten each Cover Set Screw against the Faceplate Assembly. Note: Make sure that the Cover/Cutoff Assembly is tightened onto the Faceplate Assembly with all three Cover Set Screws; otherwise, it may loosen.

Accessory Maintenance:

- Disassemble as explained in the Disassembly section of the Maintenance Disassembly / Reassembly Instructions.
- Remove Accessory Clip from Faceplate Assembly.
- Carefully remove Accessories, if any.
- Inspect Faceplate Assembly, Cap, Accessories, and Clip for damage. Replace if necessary.
- Clean Faceplate Assembly, Cap, and Accessories with a clean, damp cotton cloth.
- Carefully install new Accessories into Faceplate Assembly.
- Compress Clip and push into Faceplate Assembly until it holds Accessories tightly.
- Reassemble as explained in the Reassembly section of the Maintenance Disassembly / Reassembly Instructions.

MR16 Halogen Lamp & Amber LED Maintenance:

- Disassemble as explained in the Disassembly section of the Maintenance Disassembly / Reassembly Instructions.
- Pull lamp/LED straight out. **Caution! Lamp/LED may still be hot! Be sure lamp has cooled before touching.**
- Inspect socket for any damage.
- Clean inside of fixture and Cap with a clean dry cloth.
- Push new lamp/LED straight in, being careful to align pins. **Note:** Replacement lamp/LED must not exceed ratings on Label.
- Reassemble as explained in the Reassembly section of the Maintenance Disassembly / Reassembly Instructions.

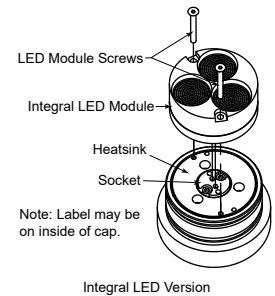
Integral LED Module Maintenance:

Integral LED Module Replacement:

- Disassemble as explained in the Disassembly section of the Maintenance Disassembly / Reassembly Instructions.
- Loosen and remove the LED Module Screws.

- Pull LED straight out. Do not twist or the pins will break off in the socket. **Caution! LED may still be hot! Be sure LED has cooled before touching.**

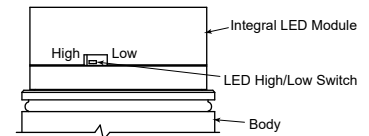
- Clean the grease off of the Heatsink top surface using a rag dipped in alcohol.
- Inspect the socket for any damage.
- If the replacement LED Module does not come with a thermal transfer pad on the base, apply a thin layer of thermal grease (not supplied) to the surface of the Heatsink that will contact the bottom of the LED Module.



- Align the pins on the LED Module with the socket and push straight in. Do not twist or push in at an angle or the pins may be damaged.
- Install and tighten the LED Module Screws. **Caution!** Over tightening of screws could crack the LED Module case.
- Reassemble as explained in the Reassembly section of the Maintenance Disassembly / Reassembly Instructions.

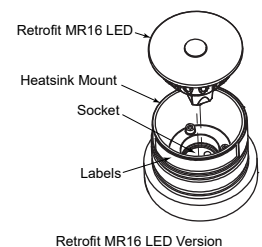
Integral LED Output Switching:

- Disassemble as explained in the Disassembly section of the Maintenance Disassembly / Reassembly Instructions.
- Inspect for damage. Replace any damaged parts, if necessary.
- Clean inside of fixture and Cap with a clean, damp cotton cloth.
- Find LED High/Low Switch on side of Integral LED Module.
- Using a pin, small nail, etc, flip the switch in the desired direction. See the LED Module Switch sketch for which direction corresponds to which setting.
- Reassemble as explained in the Reassembly section of the Maintenance Disassembly / Reassembly Instructions.



Retrofit MR16 LED Maintenance:

- Disassemble as explained in the Disassembly section of the Maintenance Disassembly / Reassembly Instructions.
- Pull lamp straight out. **Caution! Lamp may still be hot! Be sure lamp has cooled before touching.**
- Inspect socket for any damage.
- Clean inside of fixture and Cap with a clean dry cloth.
- Push new lamp straight in, being careful to align pins. Make sure Retrofit MR16 Lamp fully contacts Heatsink Mount, otherwise lamp may overheat and fail prematurely. **Note:** Replacement lamp must not exceed ratings on Label. Only use Vision3 approved Retrofit MR16 Lamp and supplied Heatsink Mount, otherwise LED may overheat and fail.
- Reassemble as explained in the Reassembly section of the Maintenance Disassembly / Reassembly Instructions.



COB LED & Driver Maintenance:

Changing Optics:

- Disassemble as explained in the Disassembly section of the Maintenance Disassembly / Reassembly Instructions.
- Twist Reflector counter-clockwise to unlock and remove.
- Insert new Reflector and twist clockwise to lock.
- Reassemble as explained in the Reassembly section of the Maintenance Disassembly / Reassembly Instructions.

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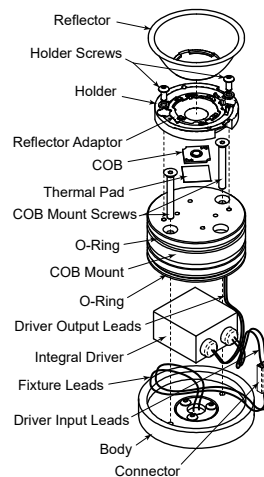
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Changing COB Chip:

1. Disassemble as explained in the Disassembly section of the Maintenance Disassembly / Reassembly Instructions.
2. Twist Reflector counter-clockwise to unlock and remove.
3. Loosen and remove the two Holder Screws, the Reflector Adapter, and the Holder. Note: Twist Holder to facilitate COB removal.
4. Note the orientation of the COB. Compress the Holder clip and carefully remove the COB chip.
5. Thoroughly clean the COB Mount with a lint free towel. Note: Make sure the old Thermal Pad and any residue are removed from the COB Mount.
6. Place the new COB up against the Holder clip in the same orientation as the removed COB. Ensure that the polarity marks on the Holder match the polarity marks on the COB. Slowly press on the opposite side of COB to compress the Holder clip until the COB drops into the recess. Note: Only touch the edges of the COB as oils and dirt from your skin can damage the diodes.
7. Remove clear plastic film from supplied Thermal Pad, and, using light pressure, apply to back of the new COB chip. Make sure pad is square and fully covers the back of the COB. Remove secondary clear plastic film from the exposed side of the Thermal Pad.
8. Place the Holder and Reflector Adapter on the COB Mount in the same orientation as it was removed.
9. Install and tighten the two Holder Screws. Do not overtighten.
10. Insert Reflector and twist clockwise to lock.
11. Reassemble as explained in the Reassembly section of the Maintenance Disassembly / Reassembly Instructions.
9. Inspect O-rings for any damage, replace if necessary.
10. Install new Integral Driver by inserting input leads (black) into Connector. Route Integral Driver leads similarly as the removed Integral Driver.
11. Route the Driver Output Leads (red & blue) through the COB Mount and then seat the Integral Driver in the COB Mount.
12. Install COB Mount onto the Body in the same orientation as it was removed.
13. Install and tighten the two COB Mount Screws. **Caution! Do not pinch leads!**
14. Place the Holder with COB and Reflector Adapter on the COB Mount in the same orientation as it was removed. Note: If COB chip needs to be replaced also, do that now, as explained above.
15. Install and evenly tighten the two Holder Screws. Do not overtighten.
16. Install Driver Output Leads into the Holder (red to '+' & blue to '-'). Excess wire can be pushed into COB Mount.
17. Insert Reflector and twist clockwise to lock.
18. Reassemble as explained in the Reassembly section of the Maintenance Disassembly / Reassembly Instructions.

Changing COB LED Integral Driver:

1. Disassemble as explained in the Disassembly section of the Maintenance Disassembly / Reassembly Instructions.
2. Twist Reflector counter-clockwise to unlock and remove.
3. Lightly pull and twist Driver Output Leads (red & blue) until they are removed from the Holder. Note lead position.
4. Loosen and remove the two Holder Screws, the Reflector Adapter, and the Holder. Note: Twist Holder to facilitate COB removal.
5. Loosen and remove the two COB Mount Screws.
6. Note the orientation of the COB Mount. Remove the COB Mount by slowly pulling it off the body.
7. Note positioning and routing of Integral Driver wires. Remove Integral Driver from COB Mount.
8. Lightly pull and twist Driver Input Leads (black) to remove from Connector.



COB LED Version