

# MB4 12V

## LAMP TYPES:

- 12V MR16 GU5.3 bi-pin base; Max. 10W LED, 50W halogen
- LED Module; Max. 12W

**WARNING** — Risk of Electric Shock. Install all luminaires 10 feet (3.05 m) or more from a pool, spa, or fountain. This fixture must be installed in accordance with the National Electric Code and/or local codes. Failure to do so may result in serious personal injury or death. Wiring must be done by a licensed electrician.

For luminaires equipped with halogen lamps:

**INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR INJURY TO PERSONS**  
**IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS**  
 Lighted lamp is HOT!

**WARNING** – To reduce the risk of FIRE OR INJURY TO PERSONS:

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

This is a low-voltage fixture for use with maximum 25A, 15V power units only. A remote transformer is required. Do not overload the transformer by installing or relamping with higher wattage lamps that together exceed the capacity of the transformer. The unit low-voltage cable shall: a) be protected by routing in close proximity to the luminaire or fitting, or next to a building structure such as a house or deck; b) not be buried except for a maximum 6 inches (15.2 cm) in order to connect to the main low-voltage cable; and c) have the length cut off so that it is connected to a connector within 6 inches (15.2 cm) from a building structure, a luminaire, or fitting. Contact Beachside Lighting for low voltage cable and direct burial wire for use as main secondary wiring.

## INSTALLATION on BRASS SURFACE BOX (BSB)

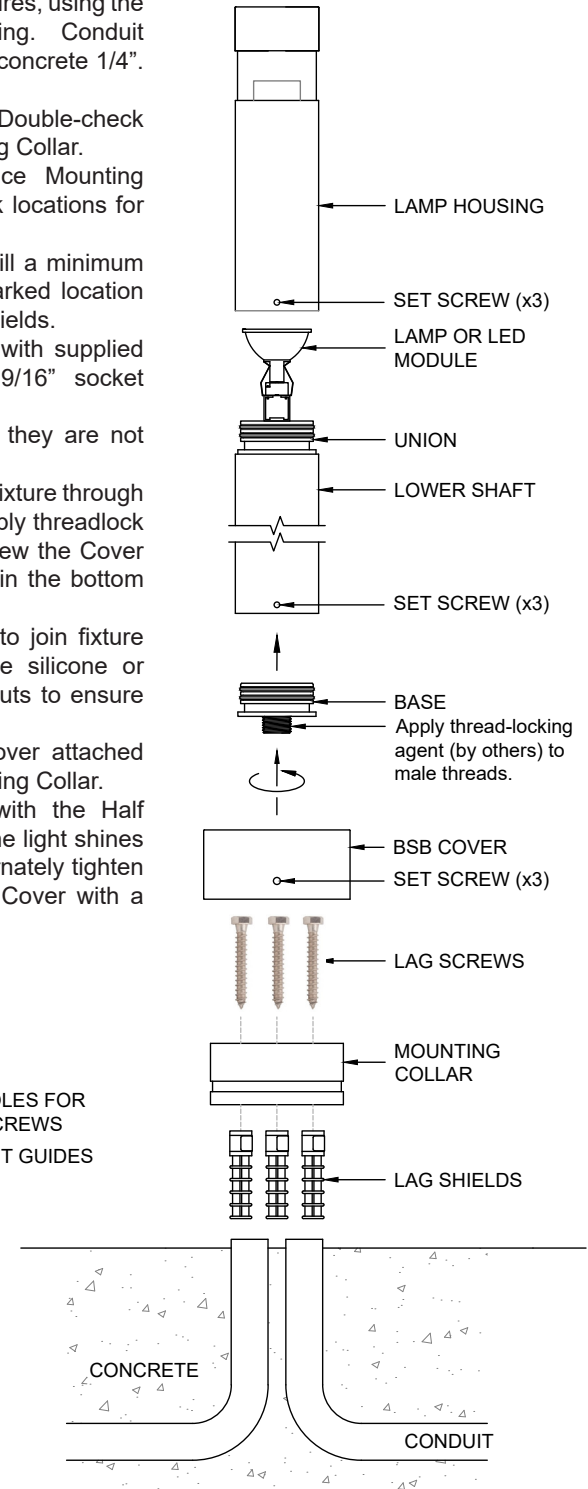
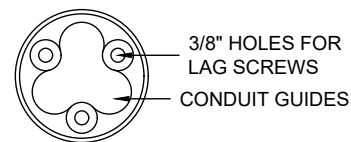
1. For mounting to concrete, skip to Step 5.
2. When mounting to a wooden surface, use the Mounting Collar to mark locations of the three mounting screws and hole(s) for the supply wiring.
3. Drill holes for wires as needed and drill pilot holes at the marked screw locations using a 15/64" drill bit.
4. Secure the Mounting Collar with supplied 3/8" lag screws using a 9/16" socket/wrench. Proceed to Step 10.
5. Dig a hole at desired location at least 12" diameter x 12" deep and run conduit as



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6. Fill hole with concrete. Double-check conduit location with Mounting Collar.
7. Once concrete is set, place Mounting Collar over conduit and mark locations for the three mounting holes.
8. Use a 5/8" masonry bit to drill a minimum 2-1/2" deep hole at each marked location and tap in the supplied lag shields.
9. Secure the Mounting Collar with supplied 3/8" lag screws using a 9/16" socket wrench.
10. Pull supply wires and verify they are not energized.
11. Feed the wire leads from the fixture through the top of the BSB Cover, apply threadlock to the Base threads, and screw the Cover tightly onto the 1/2" threads in the bottom of the fixture.
12. Use silicone-filled wire nuts to join fixture leads to supply wires. Use silicone or electrical tape around wire nuts to ensure proper connection.
13. Slide the fixture with the Cover attached straight down over the Mounting Collar.
14. If the fixture is equipped with the Half Shield, orient the fixture so the light shines in the desired direction. Alternately tighten the three set screws in the Cover with a 1/8" hex wrench.

### MOUNTING COLLAR TOP VIEW



**Figure 1**

## INSTALLATION on JUNCTION BOX (JB)

1. Dig a hole at desired location at least 12" diameter x 12" deep and run conduit as necessary for power supply wires. Position the Junction Box (JB) so that the bottom of its Cover will be above grade after the concrete is poured. (Figure 2)
2. Plug unused holes and ensure all fittings are watertight.
3. Fill hole with concrete, making sure JB is level and that its Cover will be above grade.
4. Once concrete is set, remove Cover using a 5/32" hex wrench and pull the supply wires. Verify they are not energized.
5. Feed the wire leads from the fixture through the top of the JB Cover and gasket, apply threadlock to the Base threads, and screw the Cover tightly onto the 1/2" threads in the bottom of the fixture.
6. Use silicone-filled wire nuts to join fixture leads to supply wires. Use silicone or electrical tape around wire nuts to ensure proper connection.
7. Push the connections into the JB and reattach the Cover/fixture assembly.
8. If the fixture is equipped with the Half Shield, it can be aimed by loosening the three set screws at the base of the Shaft (or Lamp Housing if not equipped with a lower Shaft) with a 3/32" hex wrench. Aim the fixture as desired and alternately retighten the set screws.

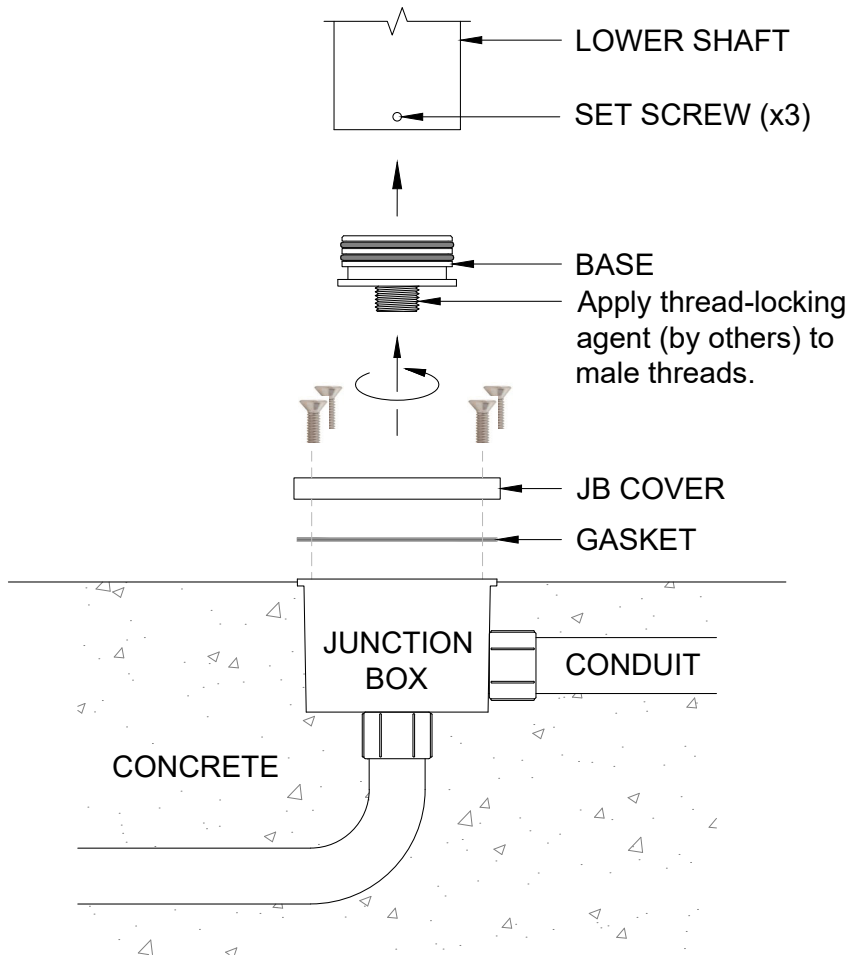


Figure 2

## INSTALLATION on GROUND SPIKE (GS2BC)

Mounting on ground spike is only recommended for the 9" version of the MB4. Taller versions require use of the BSB or JB mounting accessories.

1. Dig a hole at desired location roughly 10" diameter x 18" deep and route the supply wires coming from the power source to the hole, entering it near the bottom. (Figure 3)
2. Remove the Brass Cap from the Ground Spike by removing the screw from the side of the Cap.
3. Feed the supply wire into the bottom of the Spike and out through the top while placing the Spike into the hole.
4. Refill the hole while keeping the Spike vertical. Position the Spike so that the bottom of its Cap will be at grade when the hole is completely filled.
5. Feed the wire leads from the fixture through the top of the Cap, apply threadlock to the Base threads, and screw the Cap tightly onto the 1/2" threads in the bottom of the fixture.
6. Use silicone-filled wire nuts to join fixture leads to supply wires. Use silicone or electrical tape around wire nuts to ensure proper connection.
7. Feed the wires and connectors into the top of the Spike while replacing the Cap/fixture assembly onto the Spike. Align the hole and fasten the Cap to the Spike with the screw removed in Step 2.
8. If the fixture is equipped with the Half Shield, it can be aimed by loosening the three set screws at the base of the Lamp Housing with a 3/32" hex wrench. Aim the fixture as desired and alternately retighten the set screws.

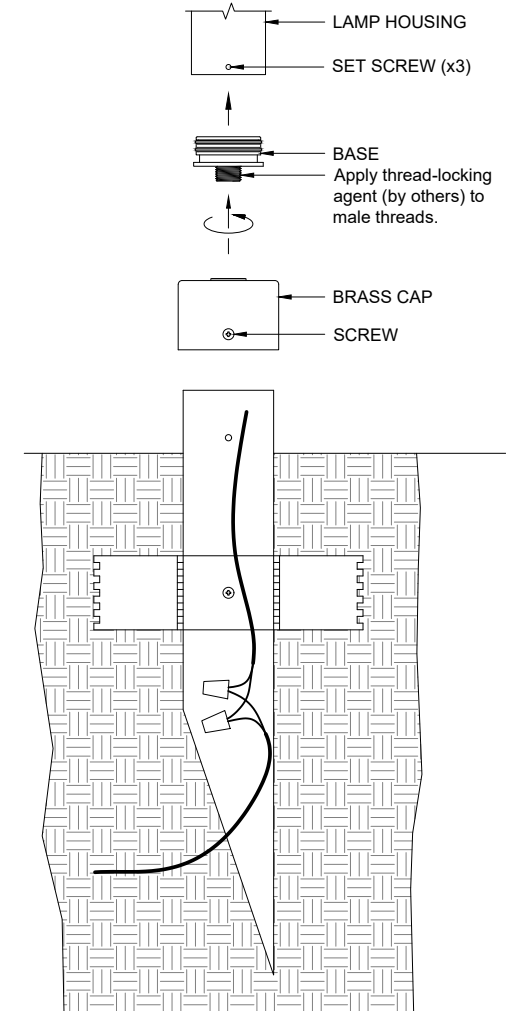


Figure 3

## **LAMPING – MR16**

1. Make sure the power to the fixture is off.
2. To access the lamp compartment, loosen the three set screws at the bottom of the Lamp Housing with a 3/32" hex wrench and slide it straight up to remove, exposing the Lamp. (Figure 1)
3. Grasp the Lamp at its base and pull straight up to remove from socket.
4. Holding the new Lamp at its base, align its pins with the holes in the socket and push straight down.
5. Reinstall the Lamp Housing. Apply a grease appropriate for use on silicone o-rings to the o-rings if necessary.
6. Alternately tighten all three set screws.

## **LAMPING – Integrated LED Module**

This fixture has a long-life LED Module that should not need replacement for years. However, if a Module fails or technology improves and a new one is desired, replacements are available from Beachside Lighting (808-263-5717). Once received:

1. Make sure the power to the fixture is off.
2. With the fixture still attached, remove the Cap or Cover from the Ground Spike, Junction Box, or BSB.
3. Disconnect the fixture leads from the supply wires.
4. Loosen the three set screws at the bottom of the Lamp Housing with a 3/32" hex wrench and slide it straight up to remove, exposing the LED Module.
5. If the fixture is equipped with a Lower Shaft, loosen the three set screws at its bottom with a 3/32" hex wrench and slide it up off the Base, pulling the wires up through the red silicone plug inside the Base. (Figure 1)
6. Unscrew the LED Module 4-5 revolutions to remove it.
7. Carefully press the red silicone plug out the bottom of the Base from the top with a narrow, blunt object and save to be reinserted later.
8. Feed the lead wires from the new LED Module through the Base (or Union and Lower Shaft, if equipped, then the Base) and screw the Module down until it bottoms out.
9. Replace the Lamp Housing (and Lower Shaft, if equipped) and alternately tighten the set screws.
10. Feed the leads through the silicone plug. Carefully slide the plug up the wires and reinsert the plug back into the Base.
11. Follow the final three Steps in the appropriate "Installation" section of these instructions to complete the operation.