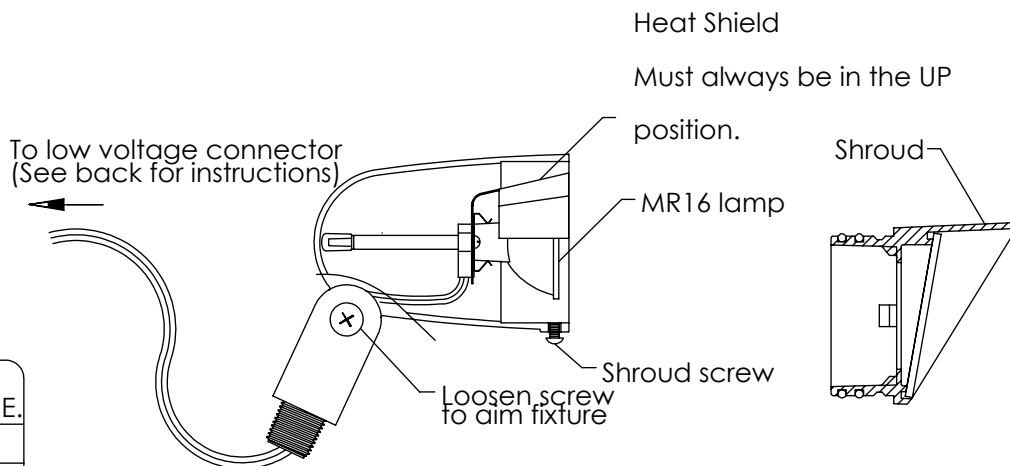


# INSTALLATION INSTRUCTIONS: BUL16 MICRO BULLYTE



|   |                    |
|---|--------------------|
| THE FOLLOWING LAMPS<br>MAY BE USED IN THIS FIXTURE. |                    |
| 20 W MR16   | 42 W MR16          |
| 35 W MR16   | 50 W MR16<br>(MAX) |



**NOTICE:** THIS FIXTURE IS INTENDED FOR INSTALLATION IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODE SPECIFICATIONS.



**READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING THIS FIXTURE.**  
Retain these instructions for future reference. Failure to follow instructions and codes will void warranty, damage fixture and could result in injury.



**SAFETY WARNING:**  
Always turn fixture off, disconnect power and allow it to cool before performing any maintenance, including relamping and cleaning. Failure to do so may result in severe injury or death.



**CAUTION:**

1. The housing should not be installed in insulating materials such as bark, vermiculite, etc. for the full depth of the housing. Surface use of these materials around BUT NOT ON TOP of the fixture is acceptable.
2. **IMPORTANT:** To prevent overheating, regularly check lens, keep it clean and free of debris such as dirt, sand, leaves, mulch, etc. Failure to do so will void warranty and could cause a fire.
3. The fixture should not be installed in low lying areas or where water may accumulate and stand for long periods of time.
4. Do not install fixture within 10 feet (3.05 meters) of a pool, spa or fountain.
5. Use only with low voltage landscape lighting power supplies that are rated for a maximum of 25 amps, 15 volts per circuit.



This fixture is intended for installation in accordance with the National Electrical Code and local code specifications. Failure to adhere to these codes and instructions may result in serious injury and/or damage to the ballast and void the warranty. These instructions do not purport to cover all details or variations in equipment, nor to provide for every possible contingency related to installation, operation, maintenance, or mounting situation. Should specific problems occur that are not addressed by these instructions, contact your Sales Representative or distributor for assistance. Retain these instructions for future reference.

## INSTALLATION INSTRUCTIONS

1. Thread fixture onto ground mounted stake or box (not supplied).
2. Loosen shroud screw (see illustration above) and remove shroud.
3. Insert MR16 lamp (50 W MAX.) (not supplied) into socket.
4. Replace shroud, rotate to desired position, and tighten screw.
5. Loosen screw in arm, aim fixture to desired position, and tighten screw.
6. Wire fixture following the directions for the Low Voltage Connector on the back of this page or hardwire to low voltage cable.

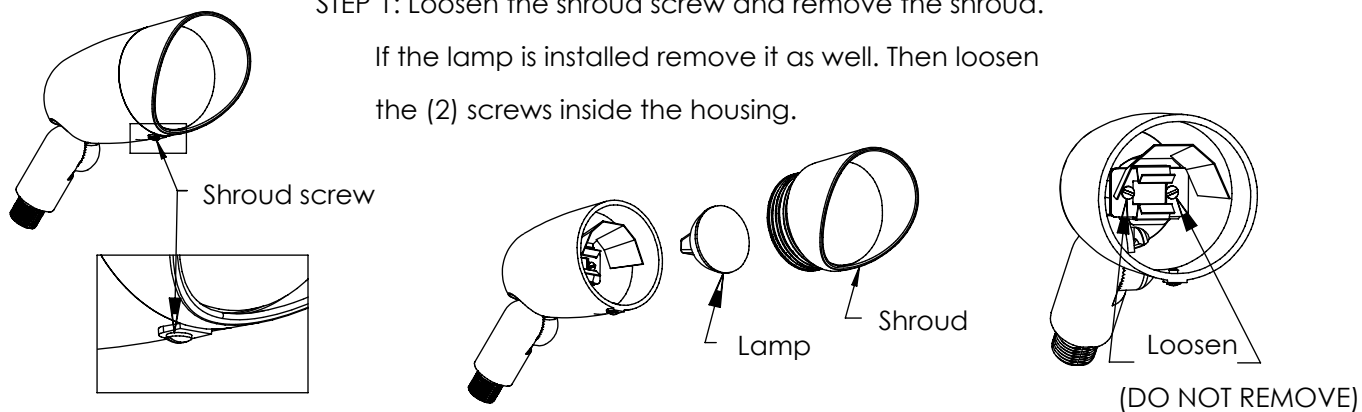
## HEAT SHIELD INSTRUCTIONS

Depending on how the fixture is mounted you may need to adjust the placement of the heat shield.

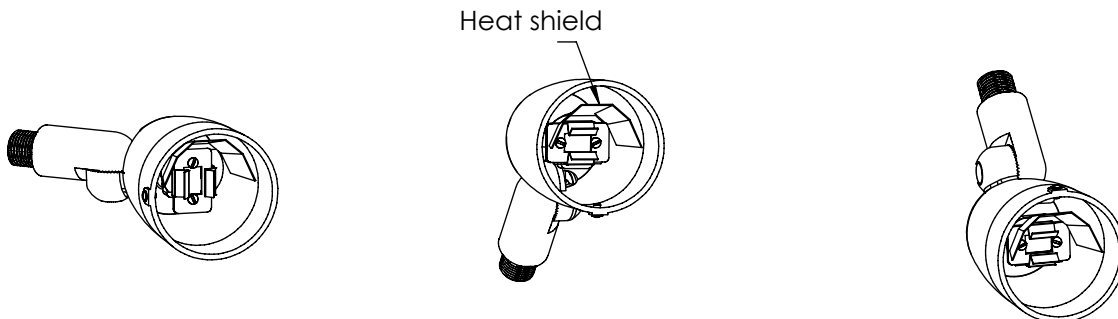
The Heat Shield should always be on top of the lamp assembly. Failure to adjust the heat shield properly may cause the outside of the fixture to become excessively hot and be a safety hazard for the customer to touch.

STEP 1: Loosen the shroud screw and remove the shroud.

If the lamp is installed remove it as well. Then loosen the (2) screws inside the housing.



STEP 2: Rotate the heat shield until it is on top of the lamp assembly. This depends on how you will be mounting the fixture. Once it is in the proper location tighten down the (2) screws, replace the lamp and shroud and tighten the shroud screw.



## LOW VOLTAGE CABLE CONNECTOR INSTRUCTIONS

Low voltage cable connector to be used with 10 or 12 gauge supply cable and 18 gauge fixture cable. Hadco recommends using SPT-3 water resistant (marked "WA", "W" or similar marking) supply cable such as our SCW500-10 or our SCW100-12. Hadco also recommends ordering the entire system, which includes the power console (maximum 25 Amps, 15 Volts per circuit), fixture(s) (low voltage cable connector included) and supply cable to ensure proper installation and operation.

When using our supply cable, it can be laid on top of the ground, placed under "ground cover" (that is, shallow burial less than 6 inches or 15.2 cm deep), or directly buried in accordance with the NEC. If not using our cable, per UL 1838-Standard for Low Voltage Landscape Lighting Systems, the secondary cable must be SPT-3 or suitable for wet locations, sunlight resistant and direct burial per UL 493 and sized per UL 1838, and it must be buried less than 6 inches (15.2 cm).

Hadco recommends a minimum depth of 4 inches when burying in the lawn to prevent damage from aerators or other lawn plugging equipment.

The 18 gauge fixture cable (provided with fixture) must be protected by routing in close proximity to the fixture or secured to a building structure such as a house or deck. The fixture cable must be cut off so that it is connected to the low voltage cable connector within 3 inches (7.6 cm) of the fixture or the building structure. When making an underground connection to the 10 or 12 gauge supply cable (not provided), the fixture cable must not be buried more than 3 inches (7.6 cm).

1. Connect the supply cable to the terminals on the power console (transformer) and turn ON.
2. Disassemble the connector by removing the Phillips head screw.
3. Inspect the connector to ensure the prongs are straight. If the prongs are bent, straighten with pliers.
4. Insert the end of the fixture cable into the square opening in the connector body. Bend wire over so that wire is laying in the recess marked '18 GA'. This will help hold the wire in place while performing steps 5 and 6. Only 2-wire cable is to be used and the common (smooth) wire and hot (ribbed) wires must be oriented as shown.
5. Press the supply cable into the recess marked '10,12/2 GA' on the connector body. Again the common (smooth) wires and the hot (ribbed) wires must be oriented as shown.
6. Press the connector cover onto the connector body, making sure the screw holes line up with each other.
7. Assemble the connector by tightening the Phillips head screw. NOTE: Make sure the metal prongs in the connector pierce all 4 wires; the fixture will light as the prongs pierce the wires.

