

# Hydrel Fixture Housing - Rust Staining Repair Instructions

## IMPORTANT SAFETY INSTRUCTIONS *READ AND FOLLOW ALL INSTRUCTIONS* SAVE THESE INSTRUCTIONS

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### **⚠WARNING**

Before installing this product, read and follow all warning notices and instructions accompanying this product. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage. Call (800) 831-7133 for additional free copies of these instructions.

### **Important Notice**



Attention Installer.

This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

### **⚠ DANGER**



Risk of Electrical Shock or Electrocution.

Always disconnect power to the pool light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to installer, serviceman, pool users or others due to electrical shock.

### **⚠WARNING**

Never operate this underwater light for more than 10 seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in breakage of the lamp or lens. This may result in serious injury to pool users, installers, or bystanders, or in damage to property.

### **⚠WARNING**



Use only the special pilot screw provided with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet fixture housing. Failure to use the screw provided could create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock. This procedure can be performed with the water in the pool.



## SECTION I. FIXTURE HOUSING ENTRY HUB REPAIR INSTRUCTIONS.

### STEP 1

Before starting repair, ensure that the inside of the fixture housing has the same style entry hub as shown in Figure 1. It is necessary to verify the correct style entry hub for this warranty repair. The hub may be at the top on the large radius of the fixture housing (45 degree entry), or assembled to the small fixture housing. Before continuing, ensure the conduit entry hub matches Figure 1.

Do not attempt the repair on any fixture housing with any other style entry hub. Even if another type fixture housing shows the same staining, it is likely to be caused by another problem. In that case this procedure will not work and the repair will not be covered by warranty.

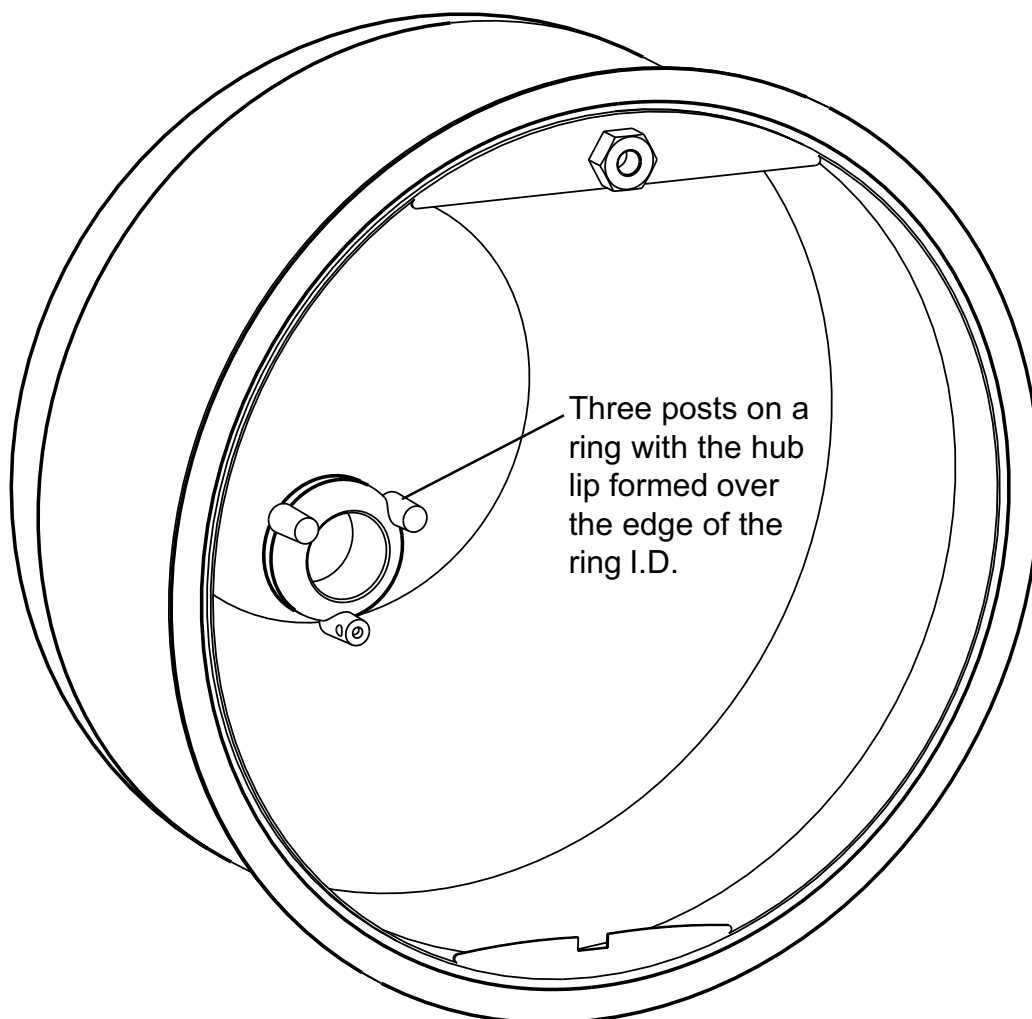
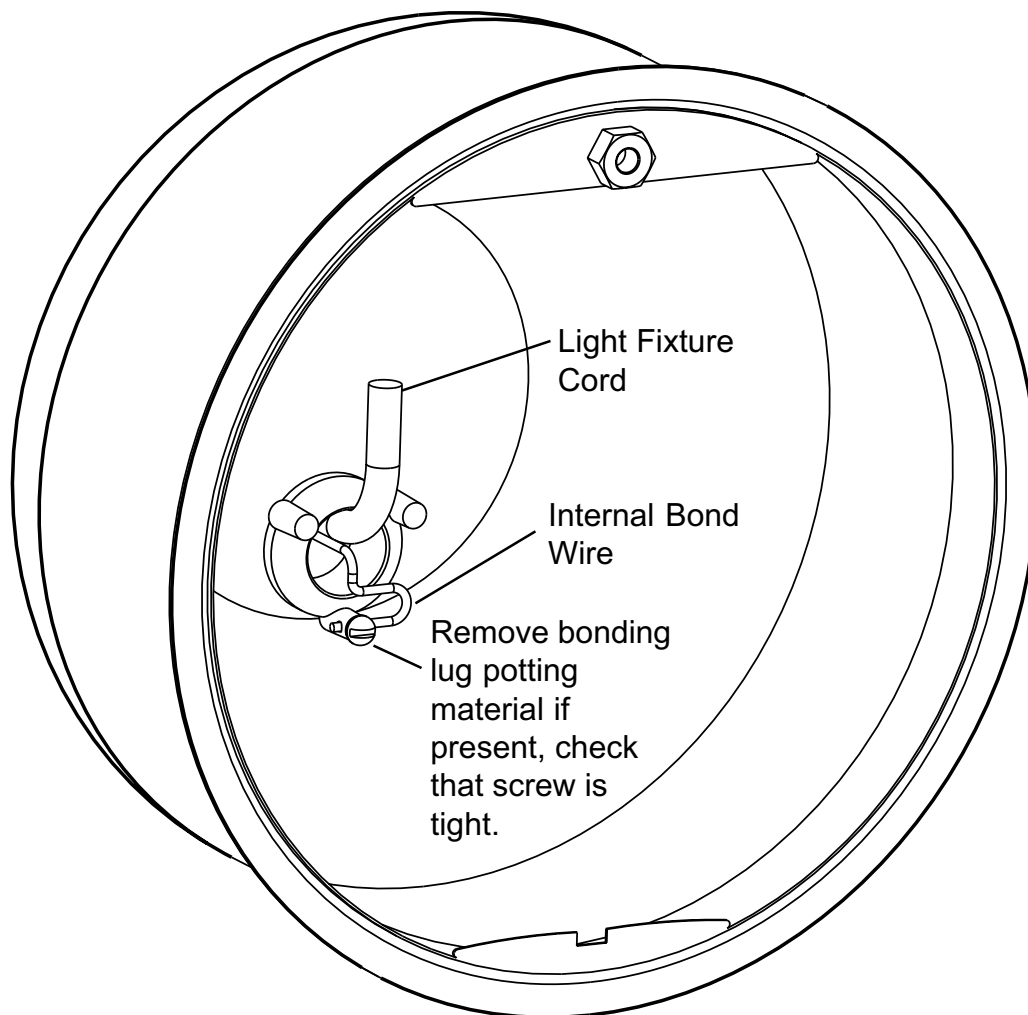


Figure 1.

## Fixture Housing Entry Hub Repair Instructions.

### STEP 2

1. If there is no internal bond wire as shown, skip to STEP 3.
2. If there is an internal bond wire or a non-listed potting material around the bond post, remove the potting material completely. A non-listed potting material would be silicone, RTV, etc.
  - a. **Be very careful** not to damage the No. 8 bond wire, the screw or the post.
3. Replace the bond wire or the bonding screw if it is damaged. Then go to instruction STEP 4 and complete the procedures through STEP 6.



Fixture 2.

*Fixture Housing Entry Hub Repair Instructions.*

**STEP 3**

If there is no internal bond wire in the conduit, the fixture housing will appear as shown in Figure 3.

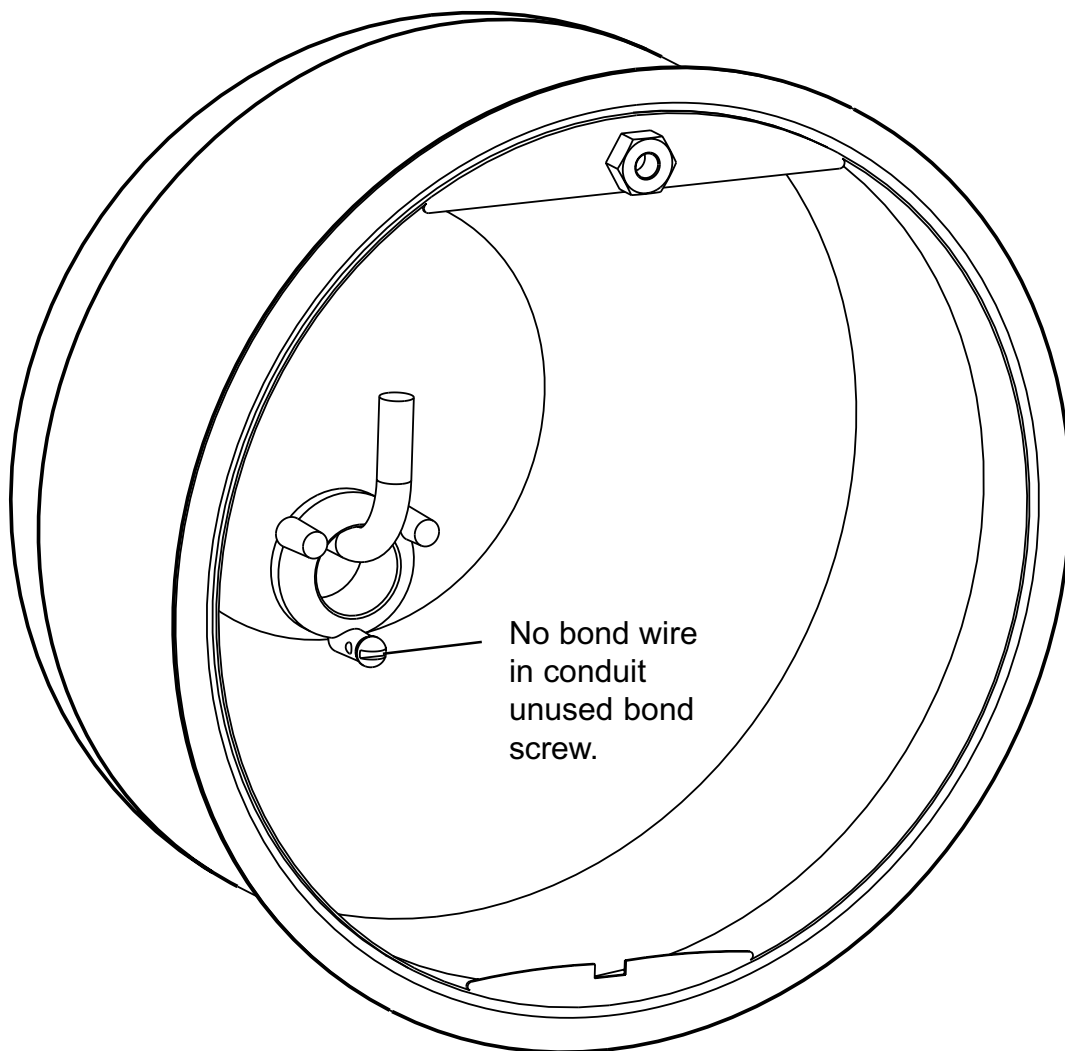


Figure 3.

## Fixture Housing Entry Hub Repair Instructions.

### STEP 4

#### **⚠ WARNING**



Working with muriatic acid can be dangerous. When cleaning elements always wear rubber gloves and eye protection. Add acid to water, do not add water to acid. Splashing or spilling acid can cause severe personal injury and/or property damage.

1. Completely clean the fixture housing, the light fixture and the pool wall of all of the brown/black staining. The stain can be removed by brushing the stained area with a stainless steel pool brush.
  - a. For stubborn stains, treat the stained area with a mild solution of muriatic acid and water (1:5 ratio).
2. Remove any excess plaster that may be around the entry hub area of the fixture housing.

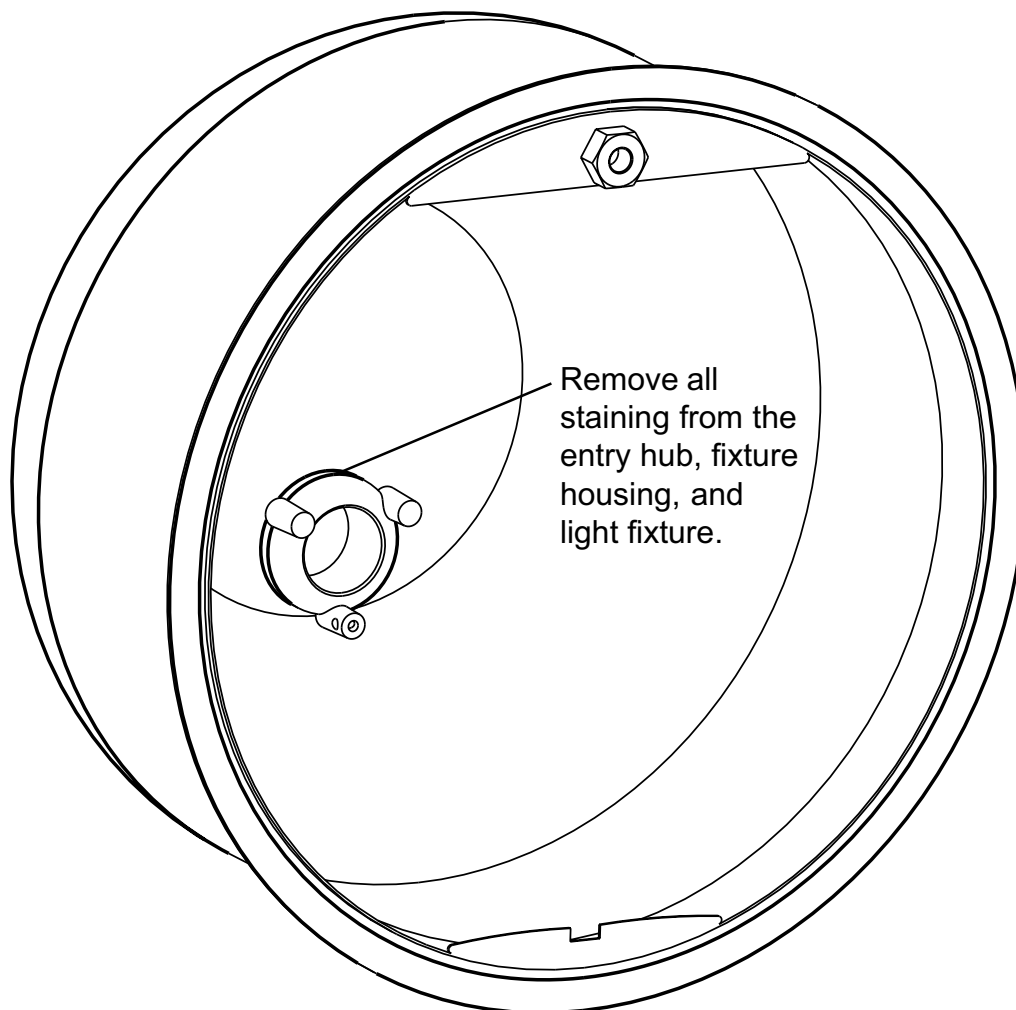


Figure 4.

*Fixture Housing Entry Hub Repair Instructions.*

**STEP 5.**

1. Attach an anode block, (with an allen head set screw), installed directly to one of the two unused posts on the hub ring.
  - a. This is done by pushing the center hole of the block firmly and completely over the post, press-fitting it into place.
2. Position the anode to clear the fixture cord with its rounded edge pointed away from the center of the conduit entry, see Figure 5.

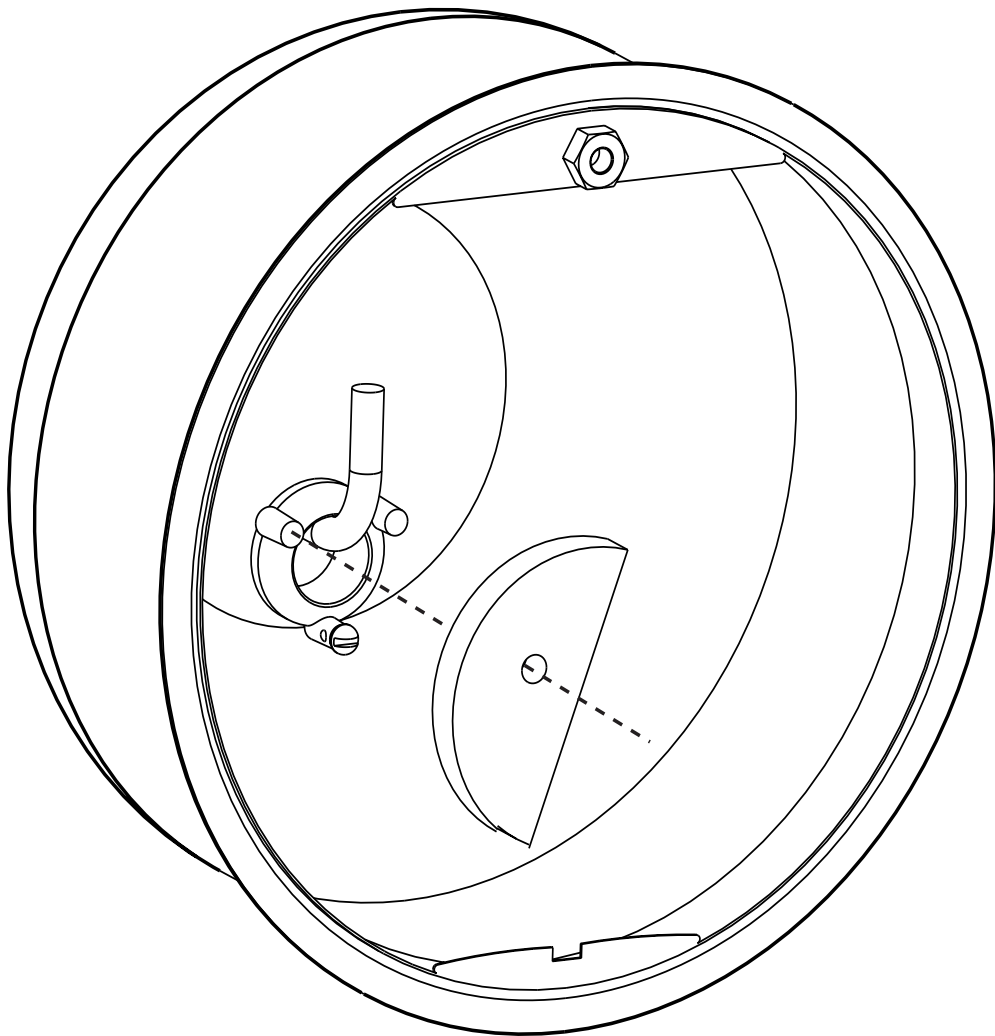


Figure 5.

*Fixture Housing Entry Hub Repair Instructions.*

**STEP 6.**

1. After fully pressing the anode block into place, tighten the set screw with a 3/32 inch allen wrench, see Figure 6.
  - a. The allen wrench is not supplied with the kit.

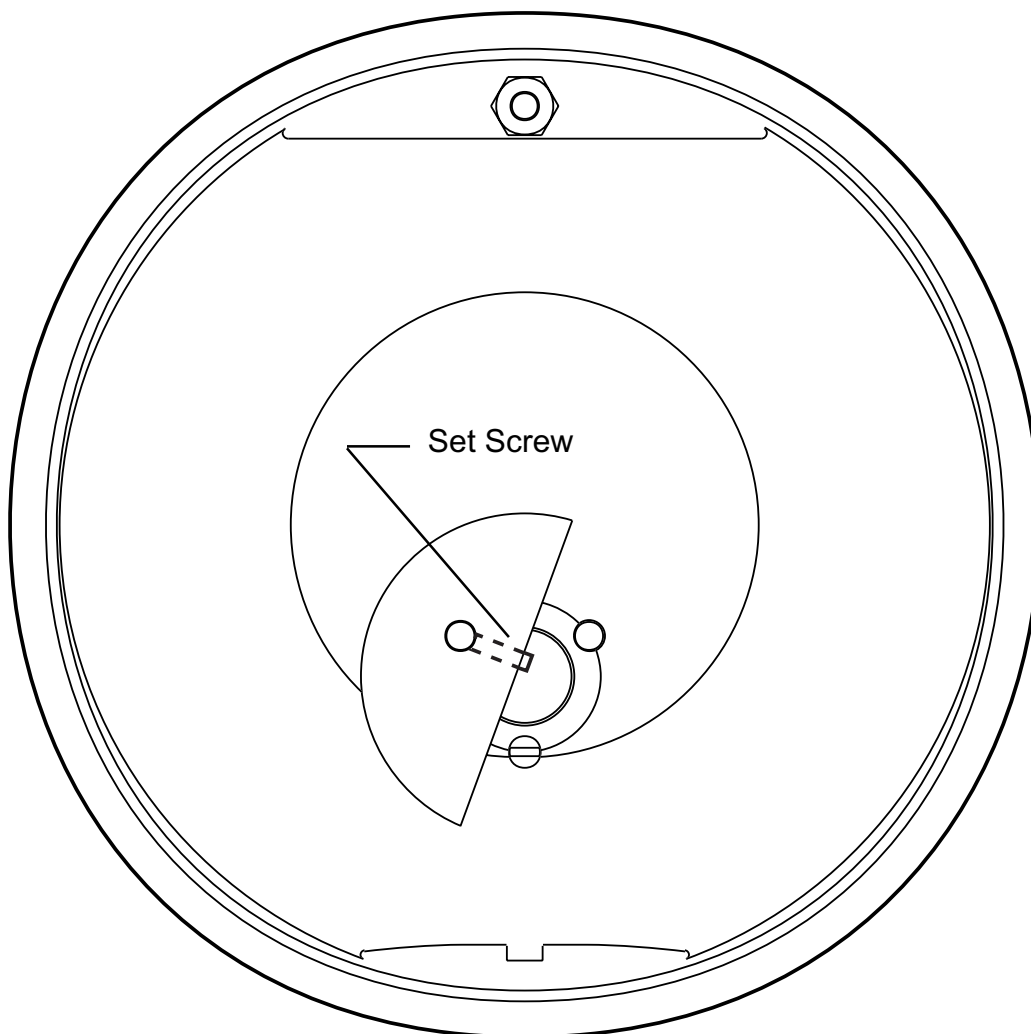


Figure 6.

## Fixture Housing Entry Hub Repair Instructions.

### STEP 7

1. If a bonding wire is connected to the bonding lug in the fixture housing cover this connection with a listed potting compound, (Scotchcast 2134 or equivalent).
  - a. This will require the pool water level to be lowered and the potted area dried.
  - b. Allow 30 minutes prior to applying the epoxy putty; see item 2, below.
2. Completely cover the exposed entry hub with two parts of underwater epoxy putty, (supplied with this kit), to at least 1/4 inch thickness.
  - a. Do not cover the anode block.
  - b. Allow the light fixture cord to move freely within the putty.

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#### NOTE

Cord must move freely within the putty to allow the removal of the light fixture should it ever need repair or replacement.

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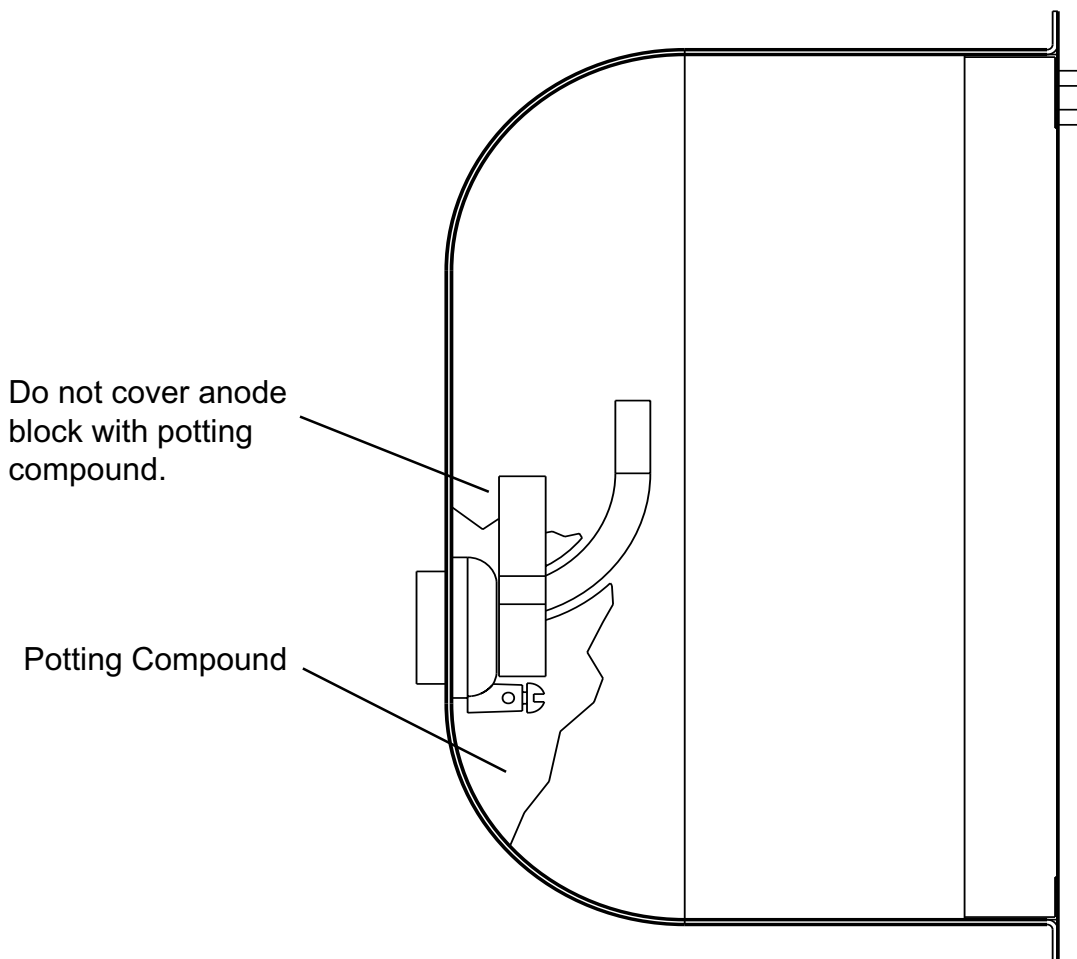


Figure 7.



## SECTION II. ALTERNATE REPAIR INSTRUCTIONS, BEFORE 1998.

This repair procedure can be used both for small fixture housings and for those with angled conduit hubs.

### STEP 1.

Before starting repair, ensure that the inside of the fixture housing has the same style entry hub as shown in Figure 1. It is necessary to verify the correct style entry hub for this warranty repair. The hub may be at the top on the large radius of the fixture housing (45 degree entry), or assembled to the small fixture housing. Before continuing, ensure the conduit entry hub matches Figure 1.

Do not attempt the repair on any fixture housing with any other style entry hub. Even if another type fixture housing shows the same staining, it is likely to be caused by another problem. In that case this procedure will not work and the repair will not be covered by warranty.

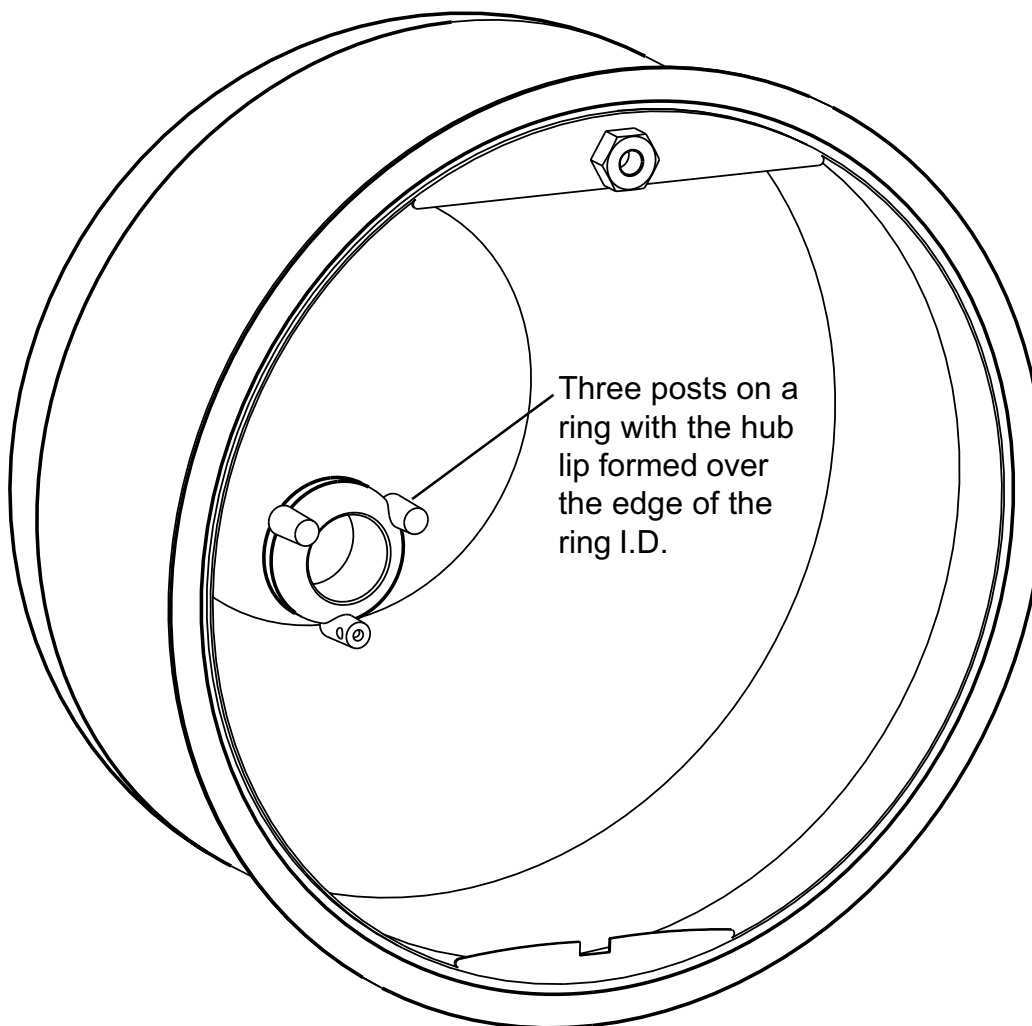


Figure 1.

## Alternate Repair Instructions

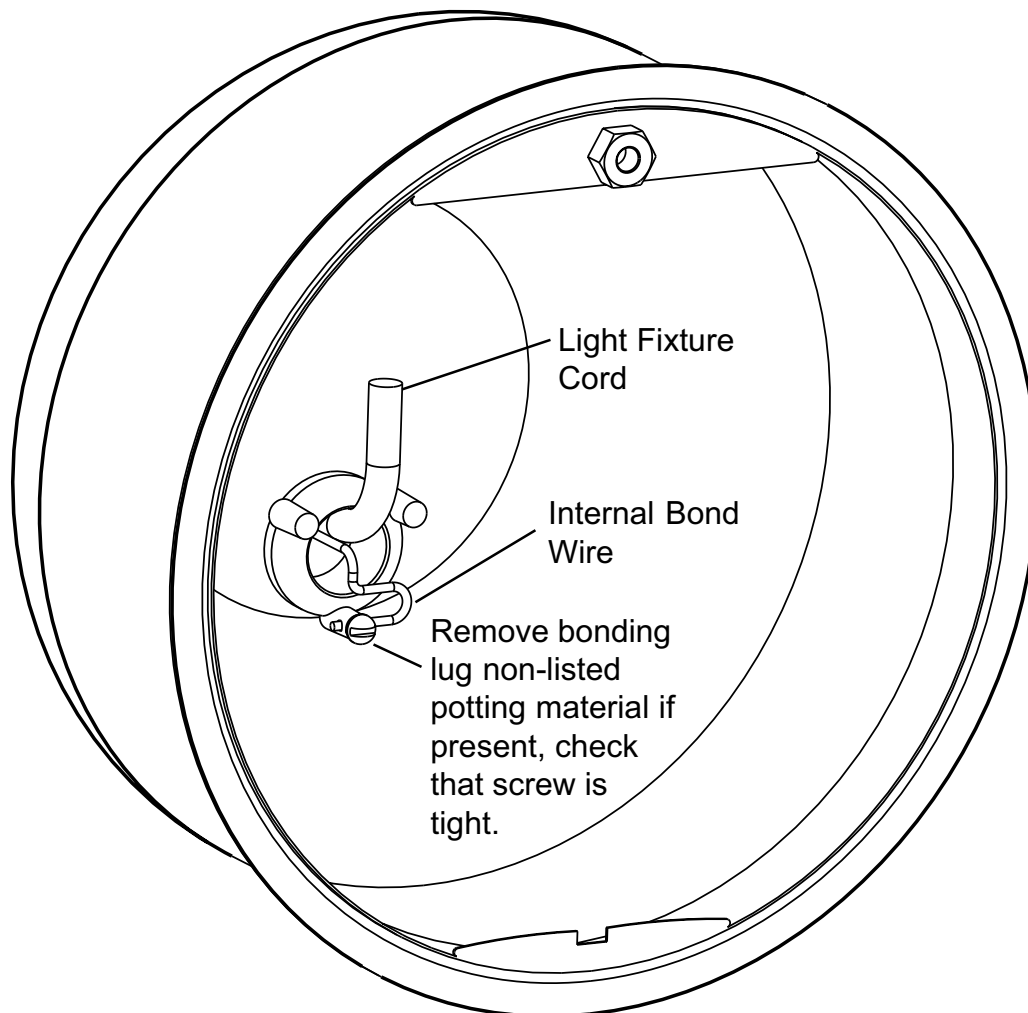
### STEP 2

#### **⚠ WARNING**



Working with muriatic acid can be dangerous. When cleaning elements always wear rubber gloves and eye protection. Add acid to water, do not add water to acid. Splashing or spilling acid can cause severe personal injury and/or property damage.

1. If there is no internal bond wire as shown, skip to STEP 6.
2. If there is an internal bond wire with a non-listed potting material around the bond post, remove the potting material completely. A non-listed potting material would be silicone, RTV, etc.
  - a. **Be very careful** not to damage the No. 8 bond wire, the screw or the post.
3. Replace the bond wire or the bonding screw if it is damaged. Then, go to instruction STEP 3 and complete the procedures through STEP 5.



Fixture 2.

## Alternate Repair Instructions

### STEP 3

1. Attach No. 8 copper jumper wire to one of the two unused posts on the hub ring.
  - a. Place the ring over the post, and press the jumper wire in the gap between the ring and post opposite the ring set screw.
2. Tighten the set screw firmly.

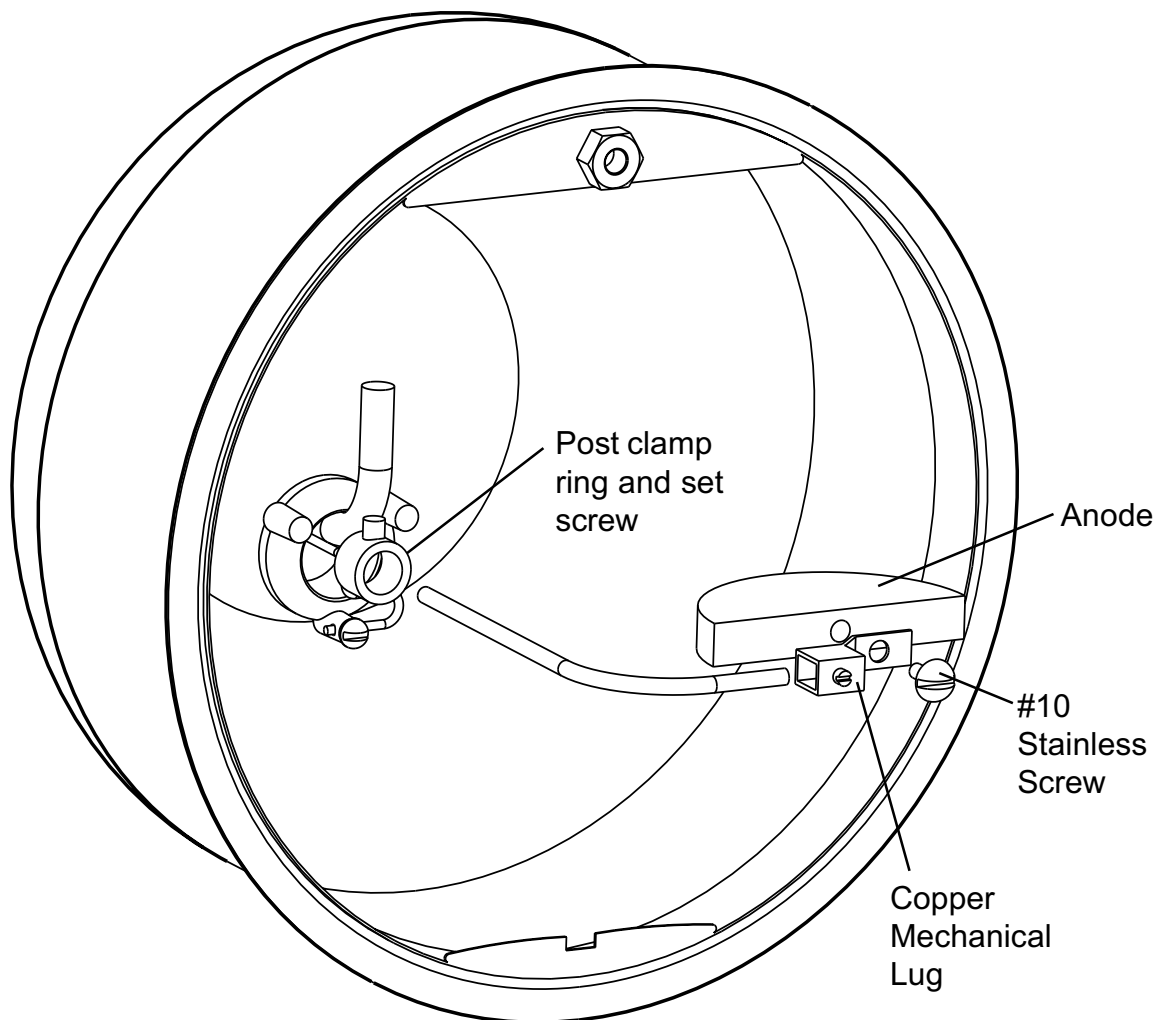


Figure 3.

## *Alternate Repair Instructions*

### STEP 4

1. Attach the anode assembly to the jumper wire using the mechanical lug.
2. Tighten all the screws firmly.
3. Position the anode to clear the light fixture and the cord, and to be away from the entry hub.

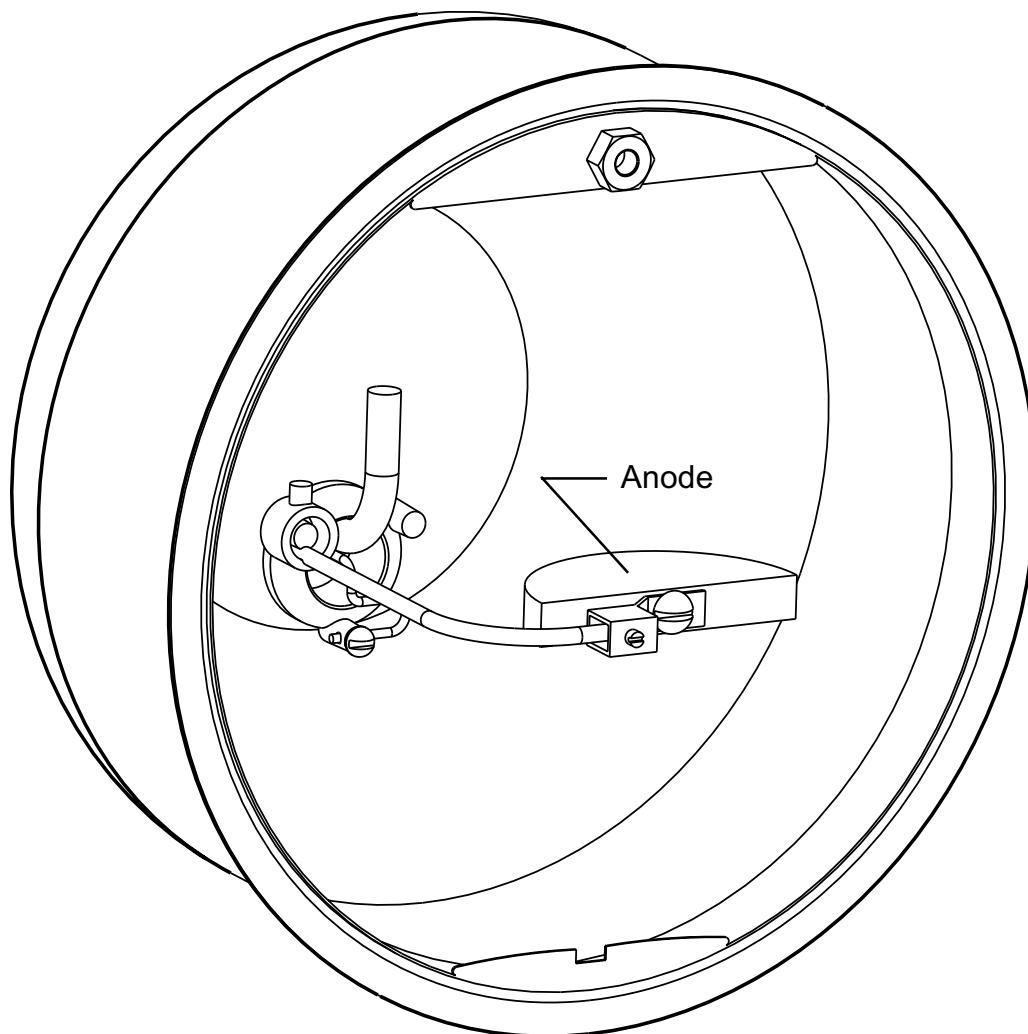


Figure 4.

## Alternate Repair Instructions

### STEP 5

1. Completely cover the entire entry hub, the bond wire and the post clamp with two parts underwater epoxy putty, (supplied with this kit), to at least 1/4 inch thickness.
  - a. If a bonding wire is connected to the bonding lug in the fixture housing cover this connection with a listed potting compound, (Scotchcast 2134 or equivalent).
  - b. This will require the pool water level to be lowered and the potted area dried.
  - c. Allow 30 minutes prior to applying the epoxy putty.
2. Do not cover the anode block.
3. Allow the light fixture cord to move freely within the putty.

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#### NOTE

Cord must move freely within the putty to allow the removal of the light fixture should it ever need repair or replacement.

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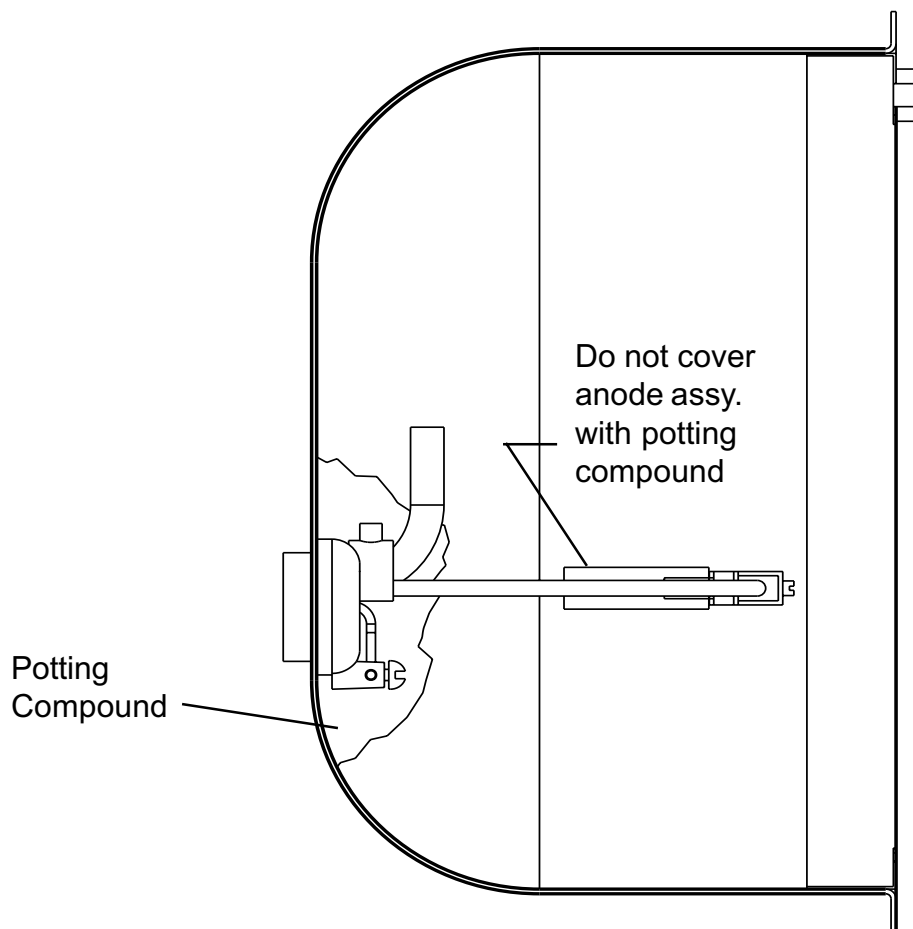


Figure 5.

*Alternate Repair Instructions*

**STEP 6**

If there is no internal bond wire in the conduit, the unused bond screw and hub can be used to attach the jumper wire.

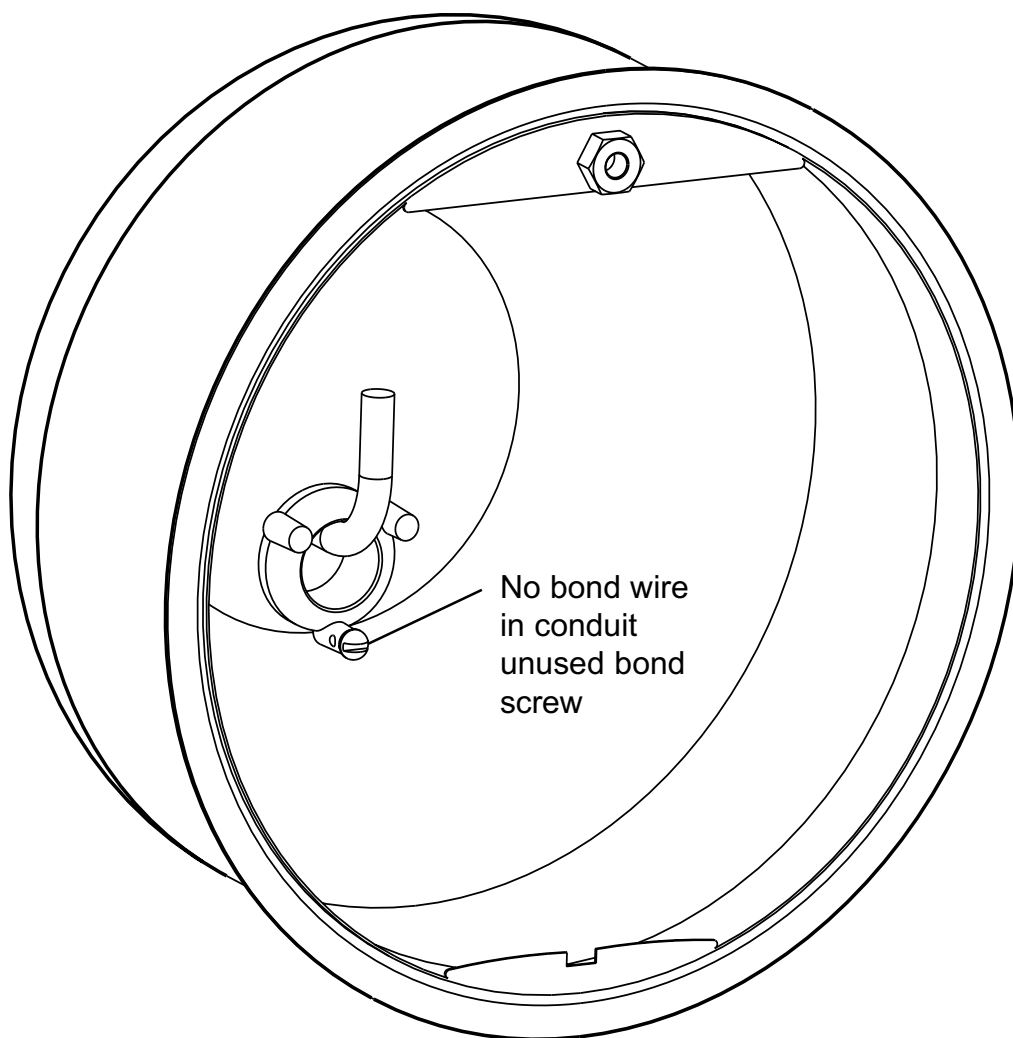


Figure 6.

## *Alternate Repair Instructions*

### STEP 7

1. Attach the No. 8 copper jumper wire to the unused bond lug and tighten the screw firmly.
2. Attach the anode assembly to the jumper wire using the mechanical lug.
3. Tighten all the screws firmly.
4. Position the anode to clear the light fixture and the cord.
  - a. Ensure the anode is positioned away from the entry hub.

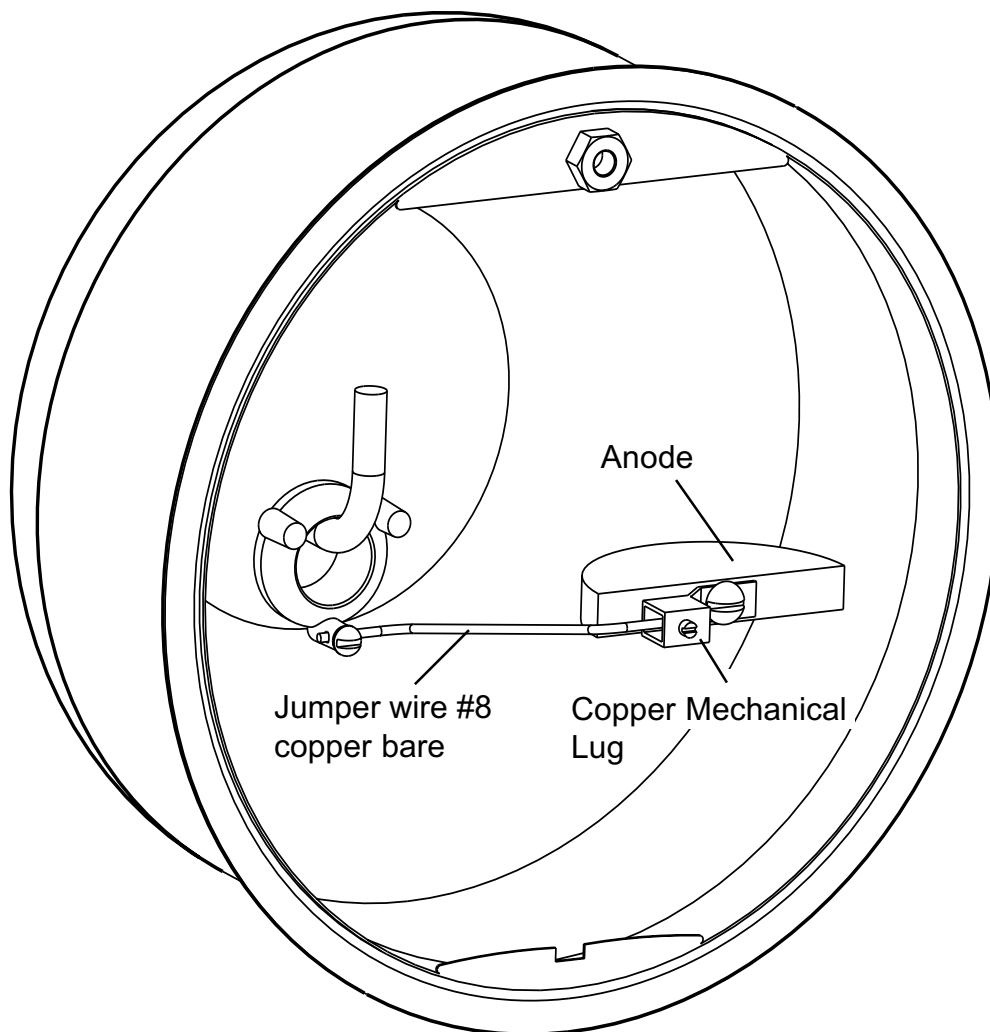


Figure 7.

## Alternate Repair Instructions

### STEP 8

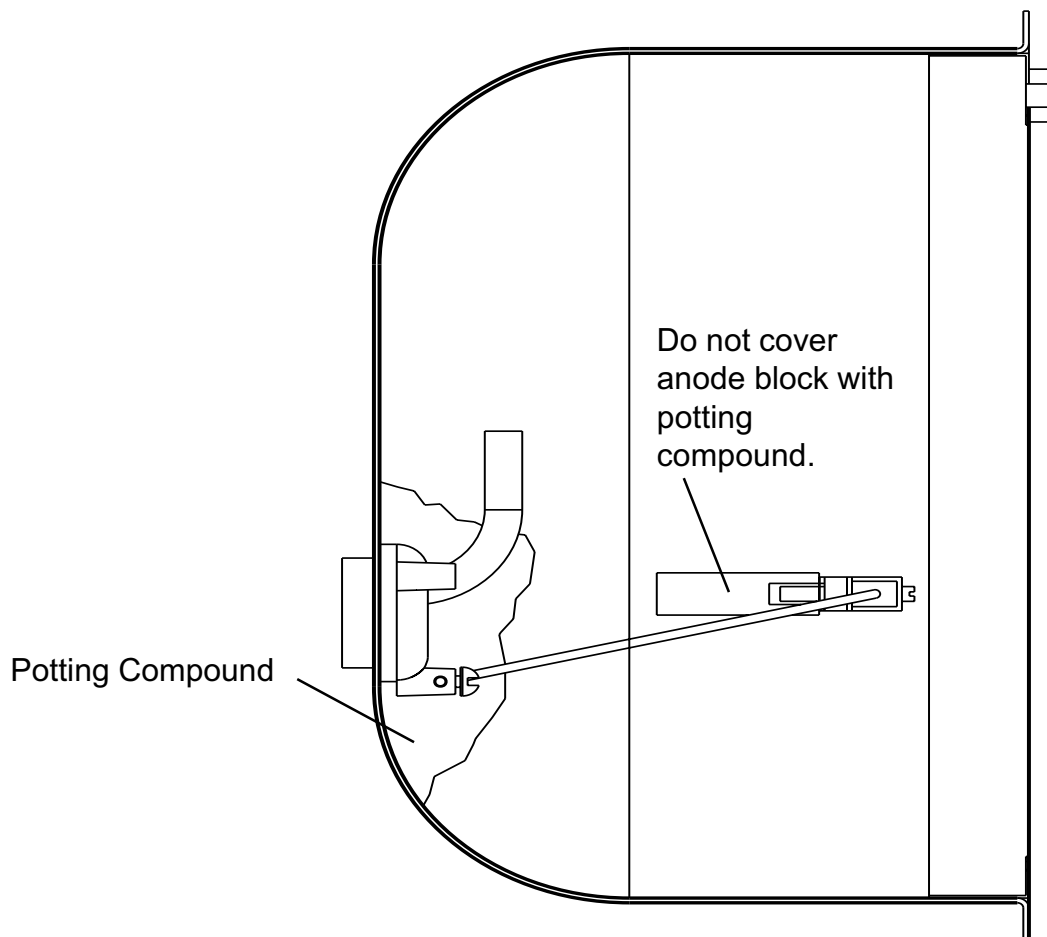
1. Completely cover the entire entry hub and the jumper wire connection with two parts of underwater epoxy putty, (supplied with this kit), to at least 1/4 inch thickness.
  - a. If a jumper wire is connected to the bonding lug in the fixture housing cover this connection with a listed potting compound, (Scotchcast 2134 or equivalent).
  - b. This will require the pool water level to be lowered and the potted area dried.
  - c. Allow 30 minutes prior to applying the epoxy putty.
2. Do not cover the anode block.
3. Allow the light fixture cord to move freely within the putty.

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#### NOTE

Cord must move freely within the putty to allow the removal of the light fixture should it ever need repair or replacement.

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**SAVE THESE INSTRUCTIONS.**



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