

LODORE POOL AQUARUST SHIELD

INSTALLATION AND USING INSTRUCTION



⚠ WARNING

THIS EQUIPMENT MUST BE INSTALLED AND SERVICED BY A QUALIFIED TECHNICIAN. IMPROPER INSTALLATION MAY RESULT IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH. IMPROPER INSTALLATION AND/OR OPERATION WILL VOID THE WARRANTY.

THIS MANUAL CONTAINS IMPORTANT INFORMATION ABOUT THE INSTALLATION, OPERATION AND SAFE USE OF THIS PRODUCT. ONCE THE PRODUCT HAS BEEN INSTALLED THIS MANUAL MUST BE GIVEN TO THE OWNER / OPERATOR OF THIS EQUIPMENT.

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- ⚠ WARNING:** Professional installation recommended
 - ⚠ WARNING:** Do not connect the AquaRust Shield module and wire with any eutermic parts
 - ⚠ WARNING:** Do not connect the AquaRust Shield module to power supply directly
 - ⚠ WARNING:** Do not immerse the product in any liquid
 - ⚠ WARNING:** Keep equipment out of reach of children.
 - ⚠ WARNING:** When installing and using this electrical equipment, always follow basic safety precautions.
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General

This appliance is an electronics rust proofing system for any type of metal or metal related equipment/structure in swimming pool system. LODORE AquaRust Shield can effectively prevent metal from corrosion caused by salt, humidity or any other reasons.

Specifications

Model:	PSR-8		
Description:	AquaRust Shield module	Volts:	(110-240VAC to 12VDC)
	Sacrificial Anode	Freq:	20Mhz
		Amps:	40mA

Installation

Install the Control Box

1. Select Installation Location

Mount the control box to a wall near the pool equipment area (such as the pump and filter).

Important: Install the control box at least 5 ft (1.5 m) from the inside wall of the pool or spa unless separated by a permanent barrier.

2. Mount at Proper Height

Position the control box at eye level for easy access. Ensure adequate clearance on all sides of the chassis for ventilation and maintenance.

3. Check Power Supply Voltage

Verify the input voltage before wiring. The system supports both 120V and 240V connections.

4. Wire the Power Input (left side of the control box):

Black: Line / Hot

White: Neutral (120V) or Hot (240V – requires tape marking)

Green: Connection to Ground screw in control box

For 120V connections:

- Connect the blue wire from the controller to the white (neutral) power wire.
- Connect the black wire from the controller to the black (hot) power wire.
- Connect the green wire to the ground.

Note: The blue wire from the controller functions as the neutral conductor

For 240V connections:

- Connect the red wire from the controller to the white (hot) power wire.
- Connect the black wire from the controller to the black (hot) power wire.
- Connect the green wire to the ground.

Note: In 240V installations, the white conductor is used as a hot leg and must be re-identified with black or red electrical tape to indicate it is not a neutral conductor.

WARNING – Electrical Hazard

Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

Before performing any installation or maintenance, shut off power at the main circuit breaker to disconnect the control box from the electrical supply.

The supply circuit must be protected by a Ground-Fault Circuit Interrupter (GFCI).

All wiring must be completed in accordance with applicable codes, including the National Electrical Code (NEC), NFPA 70 in the United States, or the Canadian Electrical Code (CEC), CSA C22.1 in Canada. Local installation codes and regulations must also be followed.

Grounding

To ensure safe operation of the AquaRust Shield, the green ground wire from the control box must be securely connected to the grounding system of your electrical service panel.

Use a continuous copper conductor with green insulation, Use a copper grounding conductor with green insulation not smaller than the circuit supply conductors and in accordance with local electrical codes.

Proper grounding is essential to reduce the risk of electric shock and equipment malfunction.

Wiring

1. Locate the yellow wire (bonding wire) from the AquaRust Shield module.
2. Securely connect this bonding wire to the bonding lug on the pool equipment.

Important Notes:

- Ensure the connection is tight and properly fastened to maintain effective bonding.
- This connection is critical for corrosion protection and electrical safety.
- Always turn off power before installation.
- Installation should be performed in accordance with local electrical codes and regulations.

Install Sacrificial Anode

Install the sacrificial anode in the ground within 3–6 feet (0.9–1.8 m) of the pool equipment. Drive the anode firmly into the soil, leaving only the copper head exposed above ground. Loosen the top screw on the anode to create a small gap. Insert the terminal of the green wire from the module under the screw, then tighten the screw securely. Ensure the green wire terminal is firmly clamped and maintains solid electrical contact with the screw and anode.

Important Notes:

- The anode must be installed in moist soil for optimal performance.
- Verify all connections are tight and corrosion-resistant.
- Follow all applicable local electrical and bonding requirements.

Connect the transformer with power supply. Test to ensure correct installation (LED is on).

Warranty

LODORE POOL PRODUCTS as manufacturer warrants each LODORE product unit delivered to the original consumer/purchaser to be free from defects in material and workmanship under the intended normal use as described in LODORE pool product installation and operating instructions enclosed with each unit, for a period of **THREE years** from the date of purchase.

During the warranty period LODORE POOL PRODUCTS agrees to repair or, at its own option, replace the unit or any part of it without charge for labor or parts. This warranty shall not apply if the unit is subjected to misuse, neglect or accident.

Please refer to the detailed LODORE products warranty booklet available at LODORE website www.lodorepool.com.

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