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Franklin Electric 14G19-24-00904B

Franklin Electric 1.5 HP Submersible Water Pump Control Box

Model: 14G19-24-00904B

Introduction

This instruction manual provides essential information for the safe installation, operation, and maintenance of the Franklin Electric 1.5 HP Submersible Water Pump Control Box, Model 14G19-24-00904B. This control box is designed to manage and protect 230V, single-phase, 3-wire + ground submersible motors up to 1.5 horsepower. Please read this manual thoroughly before proceeding with installation or service.

Safety Information

WARNING: ELECTRIC SHOCK HAZARD.

- Always disconnect all power to the control box and pump motor before attempting any installation, maintenance, or troubleshooting. Failure to do so can result in severe injury or death.
- Installation and service must be performed by qualified personnel in accordance with all local and national electrical codes.
- Ensure proper grounding of the control box and pump motor.
- Do not operate the pump or control box if any components are damaged.
- This control box contains capacitors that can store electrical charge even after power is disconnected. Exercise caution when handling internal components.

Setup and Installation

Proper installation is critical for the safe and efficient operation of your submersible pump system. Refer to the wiring diagram provided with the control box and adhere to all applicable electrical codes.

1. **Mounting:** Select a dry, accessible location for mounting the control box. Ensure it is protected from direct weather exposure and physical damage. Use appropriate fasteners to secure the box firmly to a stable surface.
2. **Power Disconnection:** Before making any electrical connections, ensure that the main power supply to the pump circuit is completely disconnected at the circuit breaker or fuse panel. Verify with a voltage tester.
3. **Wiring Connections:**

- Connect the incoming power supply (230V, single-phase) to the designated terminals within the control box.
- Connect the 3-wire + ground submersible motor leads to the corresponding terminals (typically L1, L2, and Ground for power, and R, Y, B for motor windings). Ensure correct phase rotation if applicable, though for single-phase, this refers to matching the motor leads to the correct capacitor/relay connections.
- Ensure all connections are tight and secure. Use appropriate wire gauges as specified by electrical codes and the pump motor manufacturer.

4. **Grounding:** Connect the system ground wire to the designated grounding terminal within the control box.
5. **Enclosure Closure:** Once all connections are made and verified, securely close the control box cover.
6. **Power Restoration:** Restore power to the circuit only after all installation steps are complete and verified.

Image 1: Exterior view of the Franklin Electric 1.5 HP Submersible Water Pump Control Box. This image shows the gray metal enclosure with the Franklin Electric logo and warning labels prominently displayed on the front. A mounting bracket is visible at the top.

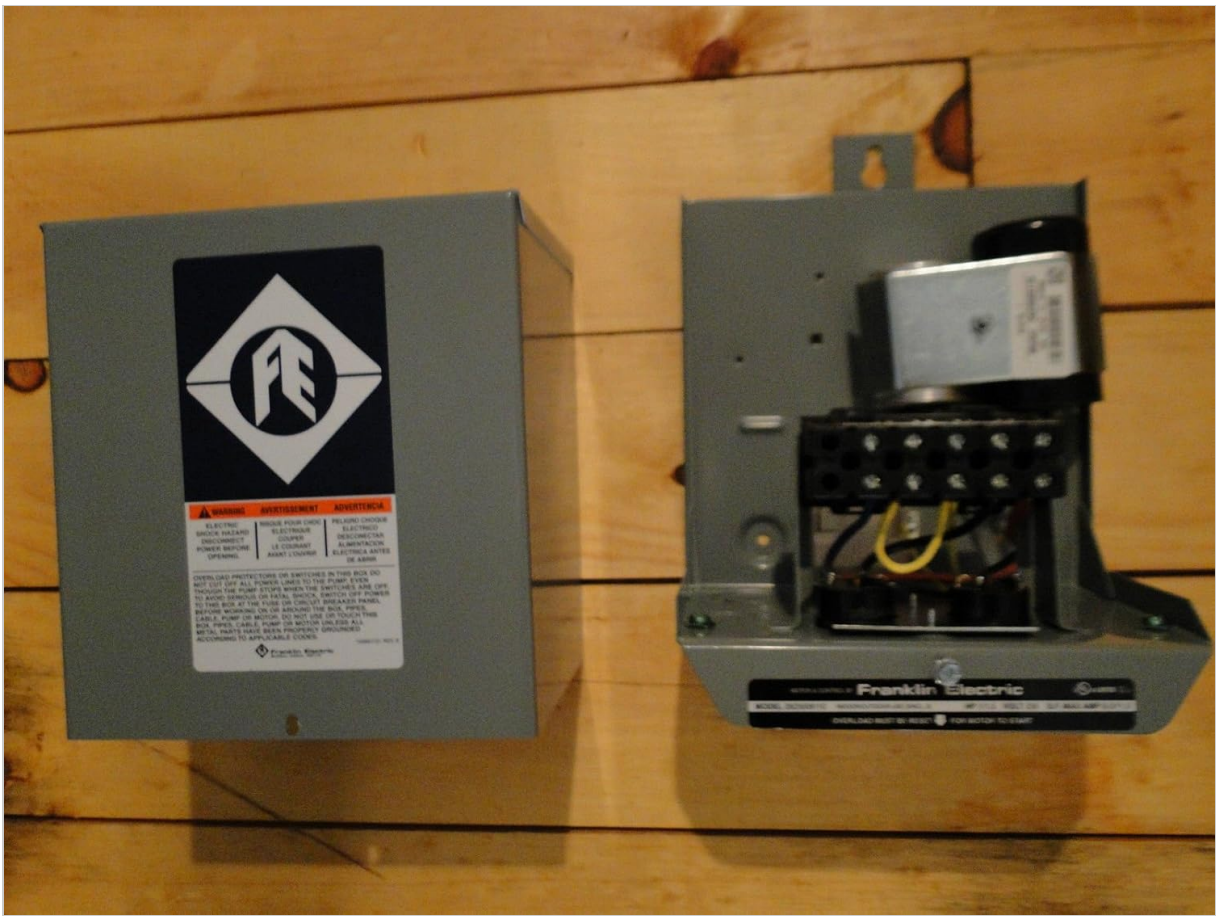


Image 2: Interior view of the Franklin Electric 1.5 HP Submersible Water Pump Control Box. The cover is removed, revealing the internal components including capacitors, relays, and terminal blocks for wiring connections. Wires are visible, indicating the pre-wired nature of some internal components.

Operating Instructions

The control box operates automatically in conjunction with your pump's pressure switch or other control devices. It provides the necessary starting components and overload protection for the submersible motor.

- Once properly installed and powered, the control box will energize the pump motor when a demand for water is detected (e.g., pressure switch closes).
- The control box includes an overload protector. If the pump motor draws excessive current, the overload protector will trip, shutting off power to the motor to prevent damage.
- To reset the overload protector, locate the reset button (typically labeled "OVERLOAD RESET" or similar) on the exterior or interior of the control box. Press the button firmly. If the overload trips repeatedly, investigate the cause before continuous resetting.

Maintenance

Regular inspection can help ensure the longevity and reliable operation of your control box.

- **Visual Inspection:** Periodically inspect the control box for any signs of physical damage, corrosion, or loose connections. Ensure the cover is securely closed.
- **Cleaning:** Keep the exterior of the control box clean and free of dust or debris. Do not use harsh chemicals or abrasive cleaners.
- **Internal Inspection (by qualified personnel only):** If internal inspection is required, ensure power is disconnected. Check for signs of overheating, such as discolored wires or components. Verify that capacitors are not bulging or leaking.

Troubleshooting

Before attempting any troubleshooting, ensure power is disconnected. If you are unsure about any step, contact a qualified electrician or pump technician.

Problem	Possible Cause	Solution
Pump does not start.	No power to control box. Tripped overload protector. Faulty pressure switch or control device. Motor or pump issue.	Check circuit breaker/fuses. Press overload reset button. Inspect pressure switch wiring and operation. Consult a pump technician for motor/pump diagnosis.
Overload trips frequently.	Low voltage. Motor drawing excessive current (e.g., worn pump, clogged impeller). Faulty capacitors in control box. Incorrect motor wiring.	Verify supply voltage. Inspect pump and motor for mechanical issues. Have capacitors tested/replaced by qualified personnel. Verify wiring against diagram.
Pump runs continuously.	Faulty pressure switch. Leak in plumbing system. Control box relay stuck.	Inspect/replace pressure switch. Check for leaks. Consult qualified personnel for control box inspection.

Specifications

- **Model:** 14G19-24-00904B
- **Horsepower (HP):** 1.5 HP
- **Voltage:** 230 Volts
- **Phase:** Single Phase
- **Motor Compatibility:** 3-wire + Ground Submersible Motors
- **Manufacturer:** Franklin Electric
- **UPC:** 755717496515
- **Product Dimensions:** Approximately 10.79 x 8.43 x 6.14 inches
- **Item Weight:** Approximately 6.15 pounds
- **Power Source:** Corded Electric

Image 3: Product label from the Franklin Electric control box packaging. This label displays key specifications such as HP (1/1.5), Volts (230), Hz (60), PH (1), and the Part Number (14G19-24-00904B), confirming the model and electrical characteristics.

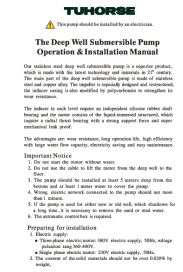
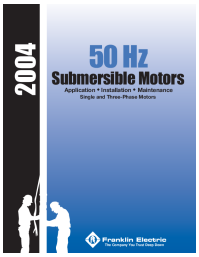
Warranty Information

Warranty coverage for the Franklin Electric 1.5 HP Submersible Water Pump Control Box is provided by the manufacturer. Please refer to the warranty documentation included with your purchase or visit the official Franklin Electric website for detailed terms and conditions. Keep your proof of purchase for warranty claims.

Support

For technical assistance, replacement parts, or further inquiries, please contact Franklin Electric customer support or a certified Franklin Electric service provider. Always provide the model number (14G19-24-00904B) and serial number (if applicable) when seeking support.
You can find contact information on the official Franklin Electric website: www.franklinwater.com

Related Documents - 14G19-24-00904B

	[Franklin Electric 7" Rewindable Submersible Motor Specifications and Data] Detailed specifications, features, advantages, performance data, and part lists for the Franklin Electric 7" Rewindable Submersible Motor series, designed for various submersible applications.
	[Franklin Electric 6" Rewindable Submersible Motors: Specifications, Performance Data, and Parts List] Comprehensive technical specifications, performance data, features, options, and a detailed parts list for Franklin Electric 6" rewindable submersible motors (6K series). Includes power ratings from 5.5 HP to 60 HP, voltage, current, efficiency, dimensions, and exploded view.
	[Franklin Electric 5" Rewindable Submersible Motor Technical Specifications] Detailed technical specifications, features, performance data, dimensions, and part list for Franklin Electric's 5" rewindable submersible motors (5K series).
	[TUHORSE Deep Well Submersible Pump Operation and Installation Manual] Detailed operation and installation guide for TUHORSE deep well submersible pumps. Covers electrical requirements, cable sizing, connection procedures, troubleshooting common issues, and system setup with an installation diagram.
	[Franklin Electric 50 Hz Submersible Motors: Application, Installation, and Maintenance Manual] A comprehensive technical manual from Franklin Electric detailing the application, installation, and maintenance of 50 Hz submersible motors. Covers single-phase and three-phase models, electrical specifications, troubleshooting, and control systems.
	[Victron Energy MultiPlus Compact User Manual] Comprehensive user manual for the Victron Energy MultiPlus Compact series, detailing safety, operation, installation, configuration, troubleshooting, and technical specifications for this versatile inverter charger.