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Tuhorse TCB20M230R

Tuhorse TCB20M230R 2HP Deep Well Pump Control Box Instruction Manual

Model: TCB20M230R

Introduction

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Tuhorse TCB20M230R 2HP Deep Well Pump Control Box. This unit is designed to be a compatible replacement for Franklin 2HP deep well pump control boxes, specifically part number 2823018110. Please read this manual thoroughly before installation and retain it for future reference.

Important Safety Information

WARNING: Electrical shock hazard. Always disconnect power before servicing or installing this control box. Installation should only be performed by a qualified electrician in accordance with all local and national electrical codes.

- Ensure the power supply matches the voltage rating of the control box (230 Volts).
- Do not operate the control box if it is damaged.
- Keep the control box enclosure sealed to maintain its weather resistance.
- Proper grounding is essential to prevent electrical shock.

Setup and Installation

The Tuhorse TCB20M230R control box is designed for wall-mounted installation. Ensure the mounting surface is stable and capable of supporting the unit's weight (approximately 5 pounds).

Mounting

1. Select a suitable location for wall-mounting, protected from direct impact but accessible for maintenance.
2. Use appropriate fasteners to secure the control box to the wall through its mounting tabs.

Wiring Connections

Refer to the internal wiring diagram for precise connections. The control box features color-coded wires and clearly labeled terminals for straightforward installation.

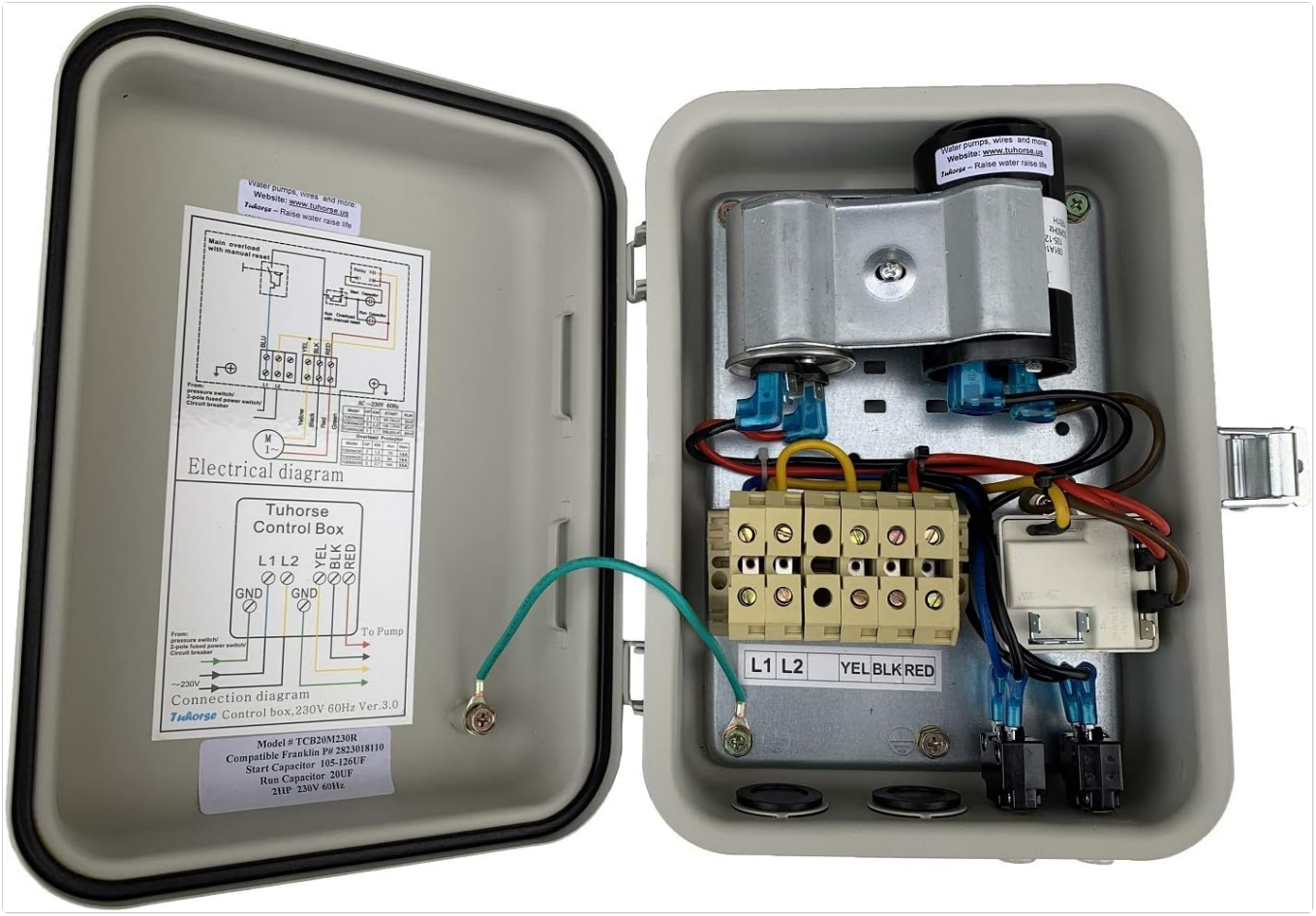


Figure 1: Internal view of the Tuhorse TCB20M230R control box, showing the wiring diagram printed on the inside cover and the internal electrical components, including capacitors and terminal blocks. The diagram illustrates connections for L1, L2, Ground, and pump motor wires (Yellow, Black, Red).

1. Ensure all power is disconnected at the main breaker before beginning any wiring.
2. Connect the incoming power supply (L1, L2, Ground) to the corresponding terminals in the control box. The connectors accept wire diameters from 14 to 6 AWG.
3. Connect the pump motor wires (Yellow, Black, Red, Ground) to their respective terminals as indicated by the internal wiring diagram.
4. Verify all connections are secure and properly insulated.
5. Close and secure the control box cover to maintain its weather resistance.

Operation

Once properly installed and wired, the Tuhorse TCB20M230R control box manages the starting and running of your 2HP deep well pump. It provides the necessary starting torque and continuous power for efficient pump operation.

Overload Protection

The control box is equipped with overload protection featuring a manual reset switch. In the event of an electrical overload or pump malfunction, the protection circuit will trip, disconnecting power to the pump to prevent damage. To reset, allow the unit to cool, identify and resolve the cause of the overload, then press the manual reset switch located on the unit.

Maintenance

The Tuhorse TCB20M230R control box is designed for durability and minimal maintenance. Regular inspection can help ensure long-term reliable operation.

- **Periodic Inspection:** Annually inspect the control box for any signs of physical damage, corrosion, or loose connections. Ensure the cover gasket is intact to maintain weather resistance.
- **Cleaning:** Keep the exterior of the control box clean and free from debris. Do not use harsh chemicals or abrasive cleaners.
- **Electrical Connections:** With power disconnected, periodically check all wiring connections for tightness. Loose connections can lead to overheating and component failure.



Figure 2: Exterior view of the Tuhorse TCB20M230R control box, highlighting its robust metal casing and sealed design for weather resistance. Labels with model information and electrical warnings are visible.

Troubleshooting

This section provides guidance for common issues you might encounter with your control box.

Problem	Possible Cause	Solution
Pump does not start.	No power to control box, tripped overload protector, faulty pump motor, incorrect wiring.	Check main power supply. Reset manual overload switch. Consult a qualified technician to inspect pump motor and wiring.

Problem	Possible Cause	Solution
Overload protector frequently trips.	Pump motor overload, low voltage, damaged pump, incorrect capacitor.	Verify pump motor specifications match control box. Check power supply voltage. Inspect pump for blockages or damage. Contact a professional.
Control box humming loudly.	Loose components, faulty capacitor.	Disconnect power and check for loose internal components. If humming persists or is accompanied by other issues, a capacitor may need replacement by a qualified technician.

If troubleshooting steps do not resolve the issue, contact a qualified pump technician or the manufacturer for assistance.

Specifications

Feature	Detail
Model Number	TCB20M230R
Compatible Replacement For	Franklin Part# 2823018110
Horsepower (HP)	2 HP
Voltage	230 Volts
Wattage	1.5 KW
Amperage Capacity	14 Amps
Start Capacitor	108-130 UF
Run Capacitor	20 UF
Material	Metal Cased
Weather Resistance	Yes
Installation Method	Wall-Mounted
Product Dimensions	10.5 x 8 x 4.25 inches
Item Weight	5 pounds
Wire Connector Range	14 to 6 AWG

Warranty Information

Specific warranty details for the Tuhorse TCB20M230R control box are typically provided at the point of purchase or by the manufacturer. Please retain your proof of purchase. For warranty claims or detailed information, contact your seller or Tuhorse directly.

Customer Support

For technical assistance, parts, or service inquiries regarding your Tuhorse TCB20M230R control box, please contact

the seller from whom you purchased the product or visit the official Tuhorse website for support resources.

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Example: How do I reset this device or fix this error?

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