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Tuhorse SK4C101214

Tuhorse Well Pump Wire Splice Kit Instruction Manual

Model: SK4C101214 | Brand: Tuhorse

1. Introduction

This manual provides instructions for the proper installation and use of the Tuhorse Well Pump Wire Splice Kit. This kit is designed to create a secure, waterproof electrical connection for submersible deep well pumps and other applications requiring a watertight seal. The kit includes 3M™ dual wall heat shrink tubing and copper butt connectors, suitable for #10, #12, or #14 AWG wires.

Key Features:

- 4 x 3M Dual Wall Heat Shrink Tubings
- 4 x Pure Electrolytic Copper Butt Connectors
- Clear tubing for visual inspection of the splice
- Designed for submersible deep well pump and other waterproof applications
- Manufactured by 3M for groundwater applications
- Provides a permanent, flexible, and waterproof barrier

2. Safety Information

Always prioritize safety when working with electrical components. Failure to follow these safety guidelines may result in electric shock, injury, or damage to equipment.

- **Disconnect Power:** Always ensure that power to the well pump or electrical circuit is completely disconnected and locked out before beginning any work.
- **Use Proper Tools:** Utilize insulated tools and personal protective equipment, including safety glasses and gloves.
- **Work in a Dry Environment:** Avoid working in wet or damp conditions unless absolutely necessary and with extreme caution.
- **Ventilation:** When using a heat gun or torch, ensure adequate ventilation to prevent inhalation of fumes.
- **Professional Assistance:** If you are unsure about any step or procedure, consult a qualified electrician or pump technician.

3. Package Contents

Verify that all components are present in your kit before beginning installation:

- 4 x 3M Dual Wall Heat Shrink Tubings
- 4 x Pure Electrolytic Copper Butt Connectors

4. Installation Instructions

This section outlines the steps for properly splicing wires using the Tuhorse Well Pump Wire Splice Kit to ensure a watertight and durable connection.

Tools Required:

- Wire Strippers (appropriate for #10, #12, #14 AWG)
- Crimping Tool (for butt connectors)
- Heat Gun or Propane Torch (with flame spreader for even heat)
- Safety Glasses
- Utility Knife or Wire Cutters

Step-by-Step Guide:

1. **Prepare Wires:** Ensure all power is disconnected. Cut the wires cleanly. Strip approximately 3/8 to 1/2 inch (10-12 mm) of insulation from the ends of the wires to be joined. Ensure the stripped copper is clean and free of damage.
2. **Slide Heat Shrink Tubing:** Before crimping, slide one piece of the clear heat shrink tubing over one of the wires, ensuring it is far enough away from the splice area to avoid premature shrinking during crimping.
3. **Insert and Crimp Wires:** Insert one stripped wire end into one side of a copper butt connector until it bottoms out. Using a suitable crimping tool, firmly crimp the connector onto the wire. Repeat this process for the other wire end into the opposite side of the butt connector. Ensure a secure electrical and mechanical connection.
4. **Position Heat Shrink Tubing:** Carefully slide the heat shrink tubing over the crimped butt connector, centering it so that it extends equally over the insulation of both wires. The clear tubing allows you to visually confirm proper positioning.
5. **Apply Heat:** Using a heat gun or a propane torch with a flame spreader, apply even heat to the heat shrink tubing. Start heating from the center of the tubing and work outwards towards the ends. Rotate the wire to ensure uniform heating. The tubing will begin to shrink and conform tightly to the wire and connector. Continue heating until the adhesive sealant flows out from both ends of the tubing, indicating a complete and watertight seal. The clear tubing will become translucent, allowing inspection of the crimp.
6. **Cool Down:** Allow the spliced connection to cool completely before handling or submerging.
7. **Repeat for all Wires:** Follow these steps for each of the four wires requiring splicing.



Image: Components of the Tuhorse Well Pump Wire Splice Kit, showing the clear heat shrink tubing and copper butt connectors.

5. Operation

Once properly installed, the Tuhorse Well Pump Wire Splice Kit provides a passive, permanent, and waterproof electrical connection. The spliced wires are designed to operate reliably in submersible environments, protecting the

electrical connection from water ingress and corrosion. No further operational steps are required for the splice itself after installation.

6. Maintenance

The Tuhorse Well Pump Wire Splice Kit is designed for long-term, maintenance-free operation once correctly installed. However, periodic visual inspection of the splice area is recommended if the pump is removed for service or if there are any concerns about the integrity of the wiring. Look for any signs of physical damage, cracking, or water intrusion. If any issues are detected, the splice should be replaced.

7. Troubleshooting

If an electrical connection issue arises after splicing, consider the following troubleshooting steps:

- **No Power/Intermittent Power:** This could indicate a poor crimp connection or incomplete heat shrink seal.
- **Water Intrusion:** If water is found near the splice, the heat shrink tubing may not have been heated sufficiently or evenly, or the tubing was not properly centered over the connector.
- **Solution:** In most cases, if a splice fails, it cannot be repaired. The recommended action is to cut out the faulty splice, re-strip the wires, and create a new splice following all installation instructions carefully. Ensure adequate heat is applied until the adhesive flows from the ends of the heat shrink tubing.

8. Specifications

Attribute	Detail
Brand	Tuhorse
Model Number	SK4C101214
Material	Plastic (Tubing), Pure Electrolytic Copper (Connectors)
Color	Clear (Tubing)
Item Weight	0.32 ounces (approx. 9.07 g)
Nominal Wall Thickness	1 millimeter
Item Length	3 Inches
UPC	722301638224, 798167885010
Manufacturer	USA Made
Specific Uses	For connecting 4 wires in deep well pump or other watertight applications
Included Components	4x Heat Shrink Tubes and Butt Connectors

9. Warranty and Support

Specific warranty information for the Tuhorse Well Pump Wire Splice Kit is not provided in this manual. For details regarding warranty coverage, technical support, or any product-related inquiries, please contact Tuhorse directly through their official website or customer service channels.

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