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› Torkettle Winch Hand Control Assembly Controller User Manual

Torkettle YHGFDSW0082

Torkettle Winch Hand Control Assembly Controller

User Manual for Models 1500lbs - 4500lbs 12V Electric Winch

1. INTRODUCTION

Thank you for choosing the Torkettle Winch Hand Control Assembly Controller. This product is designed to provide a reliable and integrated solution for controlling your 12V electric winch, eliminating the need for a separate solenoid relay and hand control switch. This manual provides essential information for the safe and effective installation, operation, and maintenance of your new controller. Please read it thoroughly before use.

2. PRODUCT OVERVIEW

The Torkettle Winch Hand Control Assembly Controller is a robust and user-friendly device engineered for various 12V electric winches, specifically those with rated capacities ranging from 1500lbs to 4500lbs. Its integrated design simplifies wiring and operation, making it an ideal replacement for older or damaged control systems.



Figure 2.1: The Torkettle Winch Hand Control Assembly Controller, featuring its durable yellow casing and integrated wiring.

3. FEATURES

- **Integrated Design:** Combines the functions of a solenoid relay and a hand control switch into a single unit, simplifying installation.
- **Wide Compatibility:** Compatible with most 12V winches with rated capacities of 1500lb, 2000lb, 3500lb, 4000lb, and 4500lb.
- **Four-Cable System:** Supplied with four robust cables for direct connection to the winch motor and battery.

- **Durable Construction:** Made from high-quality ABS material, resistant to high temperatures and melting, ensuring a longer lifespan.
- **High-Quality Cabling:** Features electric cable rope with strong resistance to pressure and toughness for reliable performance.



Figure 3.1: The handheld design of the winch controller, operated by simple push buttons.

Support forward and reverse control

Can be installed on a car with a spare winch.



Figure 3.2: Close-up of the control buttons, indicating forward and reverse operation for the winch.

Durable and practical

The handle is made of premium plastic which can resist high temperature and melting



Figure 3.3: The robust construction of the controller, designed for durability and practical use in various conditions.

4. SETUP AND INSTALLATION

The Torkettle Winch Hand Control Assembly Controller is designed for direct installation onto your winch system. Follow the wiring diagram carefully to ensure correct and safe connection.

Wiring Instructions:

1. Identify the four cables extending from the controller: two for the battery (Red+ and Black-) and two for the winch motor (Red+ and Black-).
2. Connect the **Red+** cable from the controller to the **positive terminal** of your 12V battery.
3. Connect the **Black-** cable from the controller to the **negative terminal** of your 12V battery.
4. Connect the **Red+** cable from the controller to the **positive input** of your winch motor.
5. Connect the **Black-** cable from the controller to the **negative input** of your winch motor.
6. Ensure all connections are secure and properly insulated to prevent short circuits.

Method of connecting wire

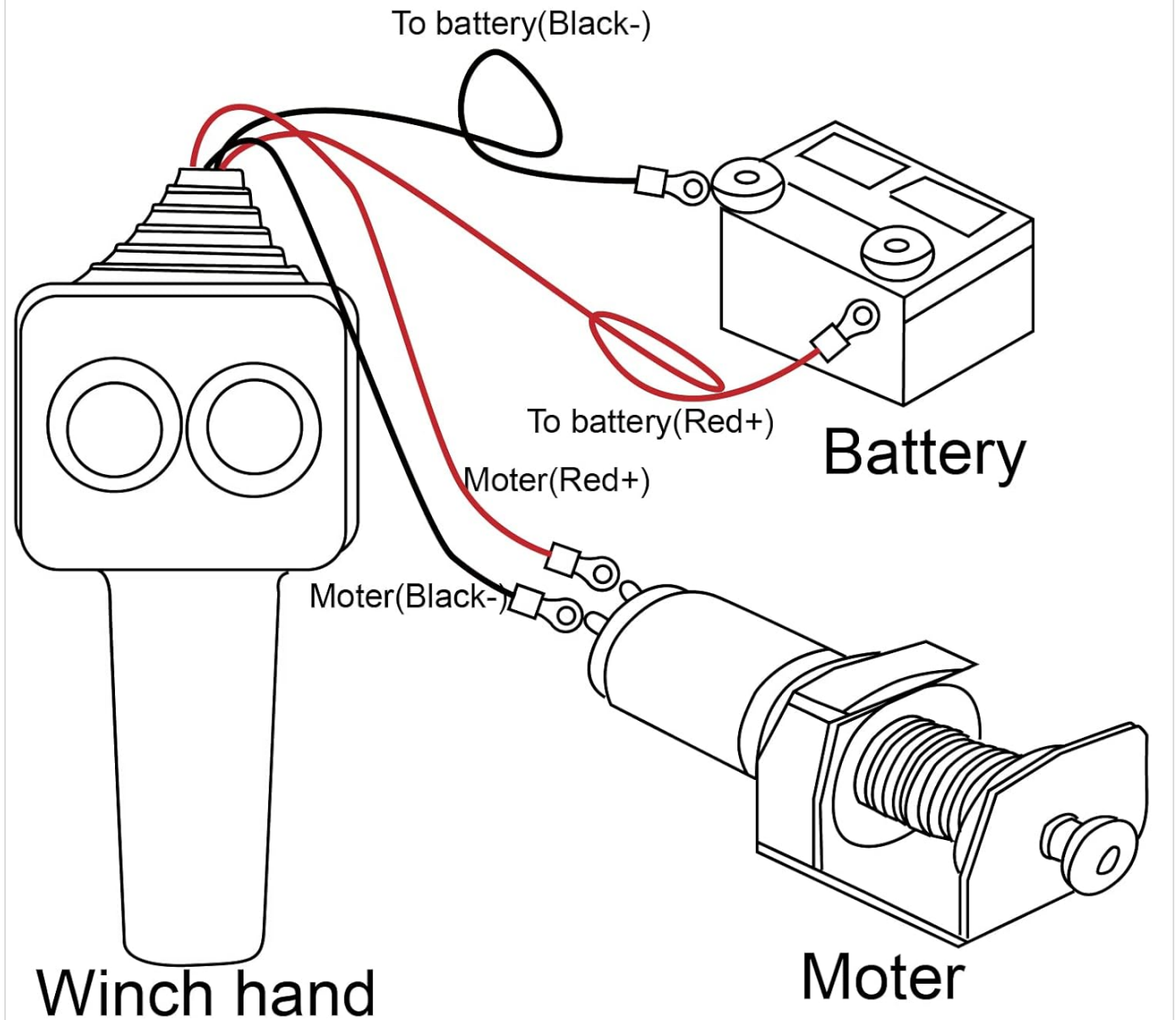


Figure 4.1: Detailed wiring diagram for connecting the Torkettle Winch Hand Control Assembly Controller to a 12V battery and winch motor.

Note: This controller is designed to replace a solenoid relay. Do not use it in conjunction with an existing solenoid relay unless specifically instructed by a qualified technician.

5. OPERATING INSTRUCTIONS

Once properly installed, operating the Torkettle Winch Hand Control Assembly Controller is straightforward.

Basic Operation:

- The controller features two distinct buttons for winch operation.
- Press and hold the button with the **arrow pointing away from the hook** (usually indicating 'OUT' or 'UNWIND') to extend the winch cable.
- Press and hold the button with the **arrow pointing towards the hook** (usually indicating 'IN' or 'WIND') to retract the winch cable.
- Release the button to stop the winch operation immediately.



Figure 5.1: Close-up view of the winch control buttons, showing the directional indicators for cable movement.



Figure 5.2: Demonstrating the ergonomic design of the controller for comfortable handheld operation.

Always ensure the area around the winch and cable is clear of obstructions and personnel before operating. Never exceed the rated capacity of your winch or the controller.

6. MAINTENANCE

The Torkettle Winch Hand Control Assembly Controller is designed for minimal maintenance. However, regular checks can ensure its longevity and reliable performance.

- **Cable Inspection:** Periodically inspect the cables for any signs of wear, fraying, cuts, or damage to the insulation. Replace if damage is observed.
- **Connection Check:** Ensure all electrical connections remain tight and free from corrosion. Clean terminals if necessary.
- **Housing Cleanliness:** Keep the controller housing clean and free of dirt, mud, or debris. Wipe with a damp cloth if needed. Avoid using harsh chemicals.
- **Storage:** When not in use, store the controller in a dry, clean environment, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your Torkettle Winch Hand Control Assembly Controller, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Winch does not operate.	No power to controller; loose connections; faulty motor.	Check battery connections and ensure they are secure. Verify battery charge. Inspect all wiring connections as per Section 4. Test winch motor independently if possible.
Winch operates in wrong direction.	Incorrect motor wiring.	Review the wiring diagram (Figure 4.1) and ensure the Red+ and Black- motor wires are connected correctly. Reverse them if necessary.
Controller feels hot during operation.	Overload; prolonged use; insufficient gauge wiring.	Reduce load on winch. Allow controller to cool down. Ensure your winch system's wiring is appropriate for the current draw.
Buttons are unresponsive or sticky.	Dirt/debris; internal damage.	Clean the controller housing. If problem persists, contact customer support.

If the issue persists after attempting these steps, please contact Torkettle customer support for further assistance.

8. SPECIFICATIONS

Key technical specifications for the Torkettle Winch Hand Control Assembly Controller:

Attribute	Detail
Brand	Torkettle
Model Number	YHGFDSW0082
Compatibility	12V Electric Winches
Rated Capacity	1500lb / 2000lb / 3500lb / 4000lb / 4500lb
Item Weight	1.17 pounds (approx. 0.53 kg)
Package Dimensions	8.7 x 4.25 x 2.76 inches (approx. 22.1 x 10.8 x 7 cm)
Material	High-quality ABS
Cable Length (Long)	131 cm / 4.3 ft
Cable Length (Short)	113 cm / 3.7 ft
Controller Length	200 mm / 7.87 inches

Product size

Note: All dimensions are measured manually, there may be measurement errors



Figure 8.1: Visual representation of the controller's dimensions and cable lengths.

9. WARRANTY AND SUPPORT

Torkettle products are manufactured to high-quality standards. For specific warranty information regarding your Winch Hand Control Assembly Controller, please refer to the product packaging or contact Torkettle directly.

Customer Support:

For technical assistance, troubleshooting, or warranty claims, please visit the official Torkettle store or contact their customer service department.

Torkettle Official Store: <https://www.amazon.com/stores/TORKETTLE/page/B280EAA5-7A97-4E80-8674-81701CAC50D7>

