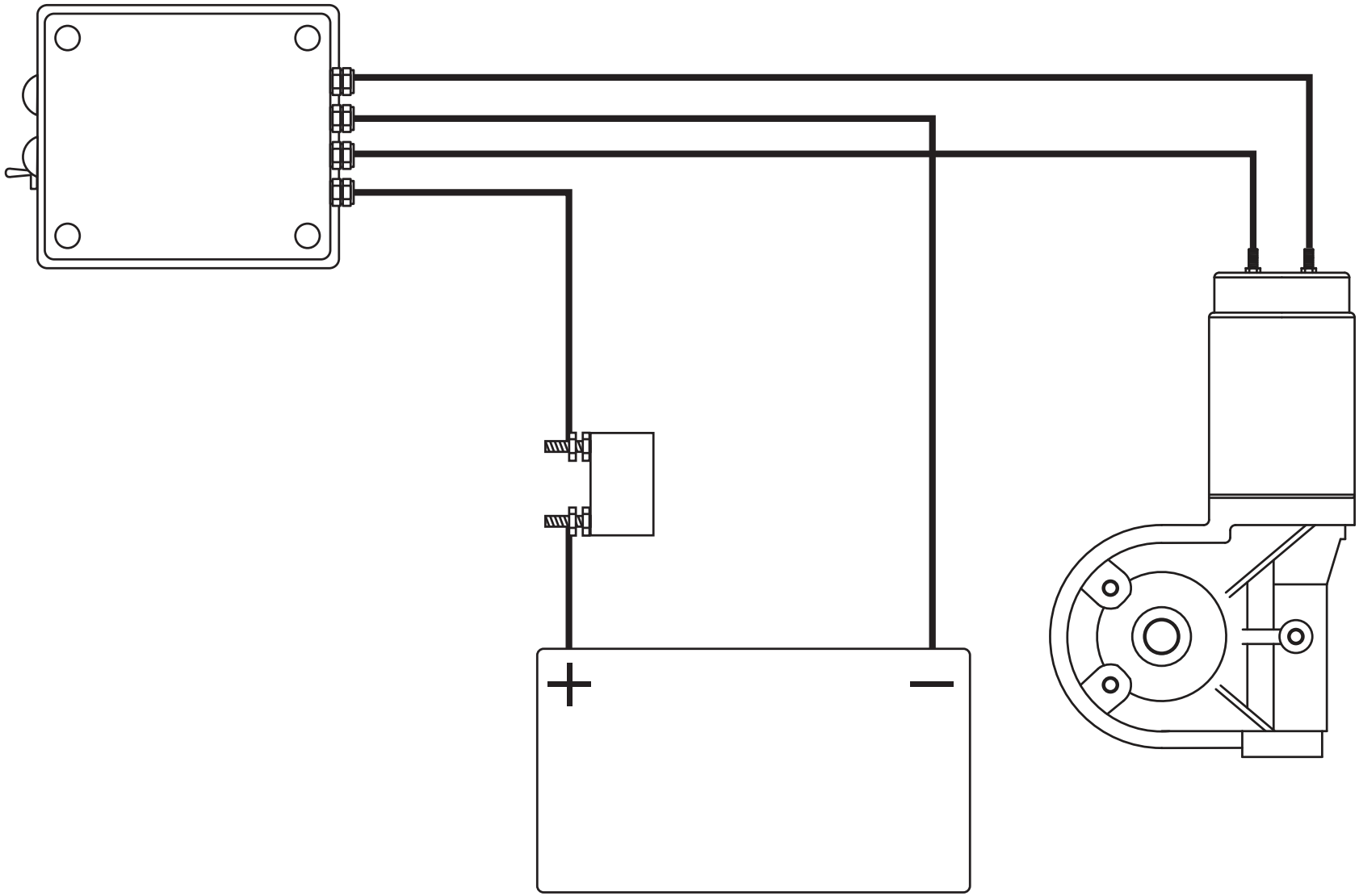
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Superwinch 12 Volt Smart Switch w/ Wireless Remote Kit
Installation Instructions

WLH 08/09/18

514-0141



607-0143

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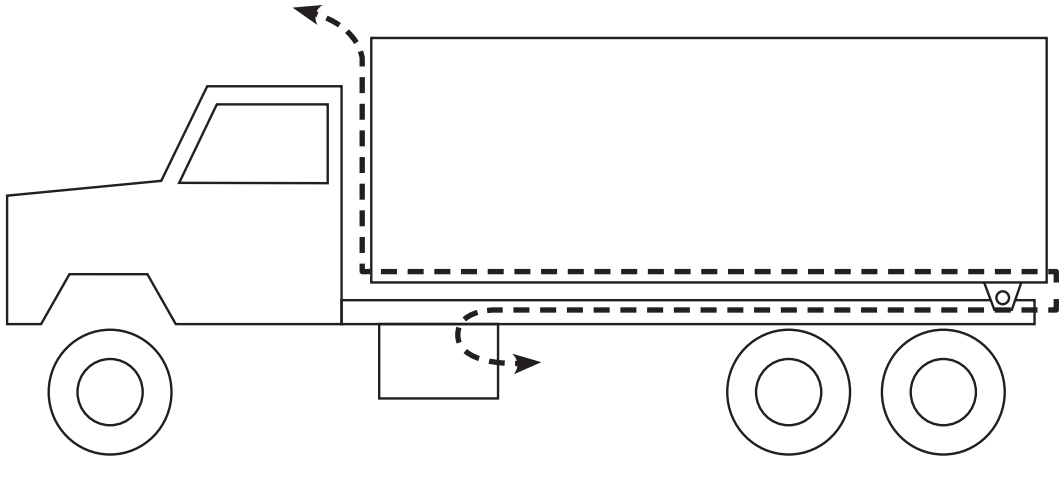
Wiring the Motor

Step 1.
Run the 6 ga. wire to both locations (motor & battery box) and attach to truck body (Fig. 1).

Note: The wire must go beyond the pivot point.

Caution: Make sure wire does not get pinched at the pivot.

Fig. 1



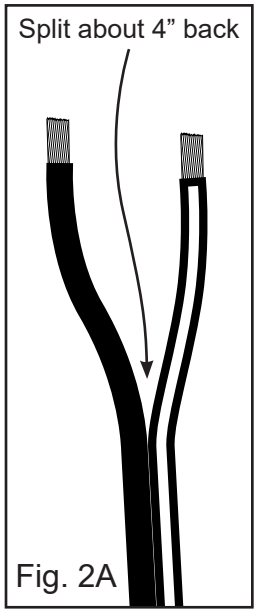


Fig. 2A

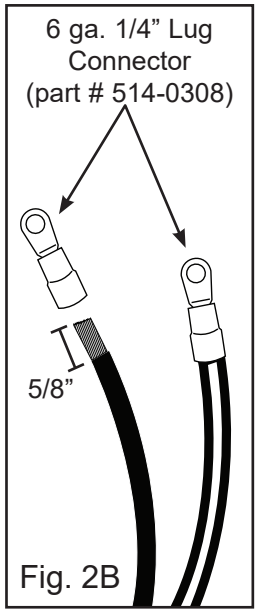
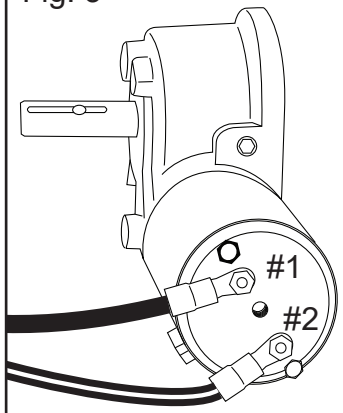


Fig. 2B

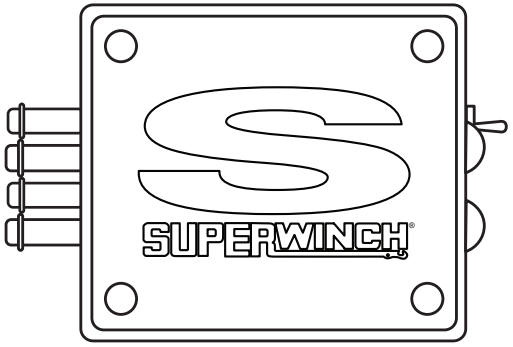
Step 2. Preparing the Connectors
On the motor side, split the molded 6 ga. wire approximately 4” (Fig 2A) and strip the ends about 5/8” down. Then attach connectors (part # 514-0308) and crimp (Fig. 2B).

Fig. 3



Step 3. Attaching Connectors to the motor
Attach black wire to Terminal #1 on motor. Then attach the red striped wire to Terminal #2 on motor (Fig. 3).

Fig. 4



Step 4. Mount the control box near the battery (Fig. 4).
Note: Do not expose the control box to direct pressure washing. Keep the nozzle at least 3 feet away from the box.

Wiring the Smart Switch

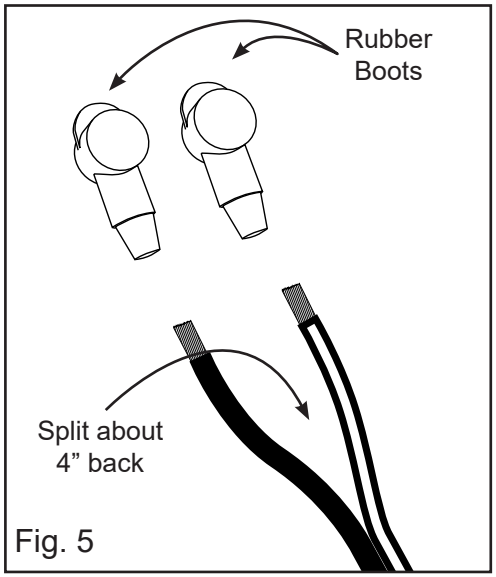


Fig. 5

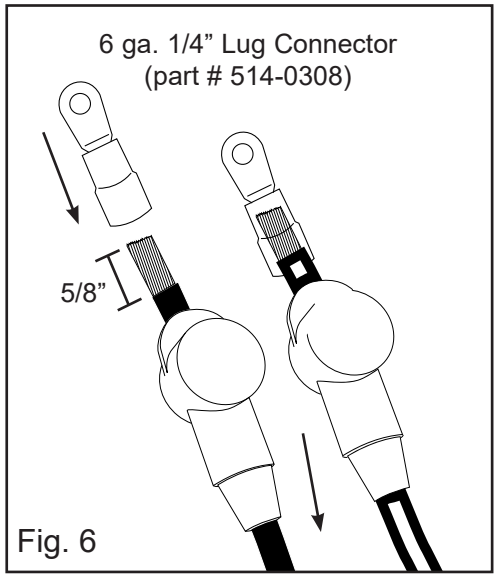
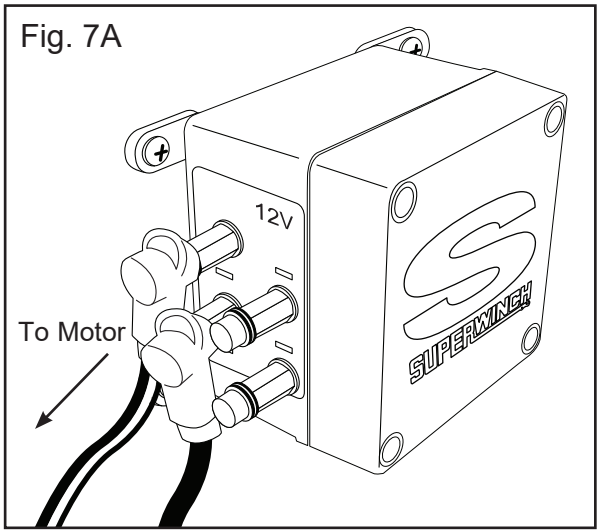


Fig. 6

Step 5: Prepping the Wire
Take the other end of the wire and Split the 6 ga. wire at the control box about 4” back and slip on rubber boots - Red Boot (part # 514-0319) on red striped wire and Black Boot (part # 514-0317) on black wire (Fig. 5).

Strip wire about 5/8” and attach connectors (part # 514-0308) (Fig. 4). Crimp Connectors (Fig. 6).

Note: Do not over tighten nuts on connections!



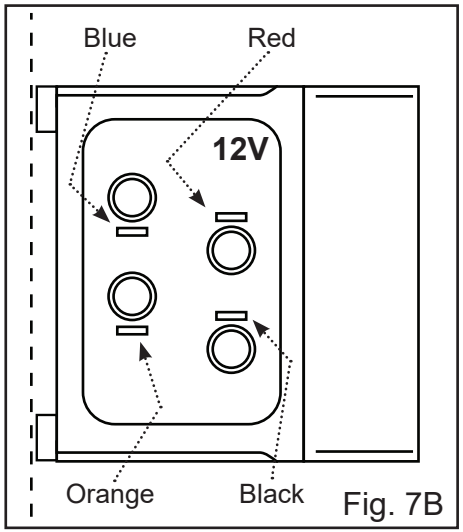


Fig. 7B

Step 6: Attaching the Connectors
Attach red striped wire to the connector (+ / blue) and connect the black wire to control box (- / orange). Both wires lead to the motor (Fig. 7A & 7B).

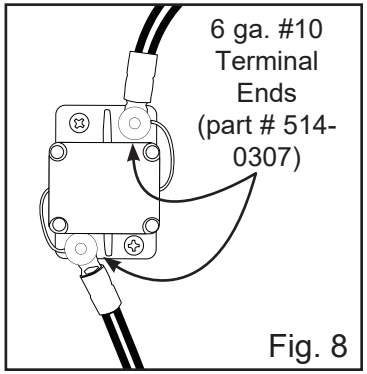
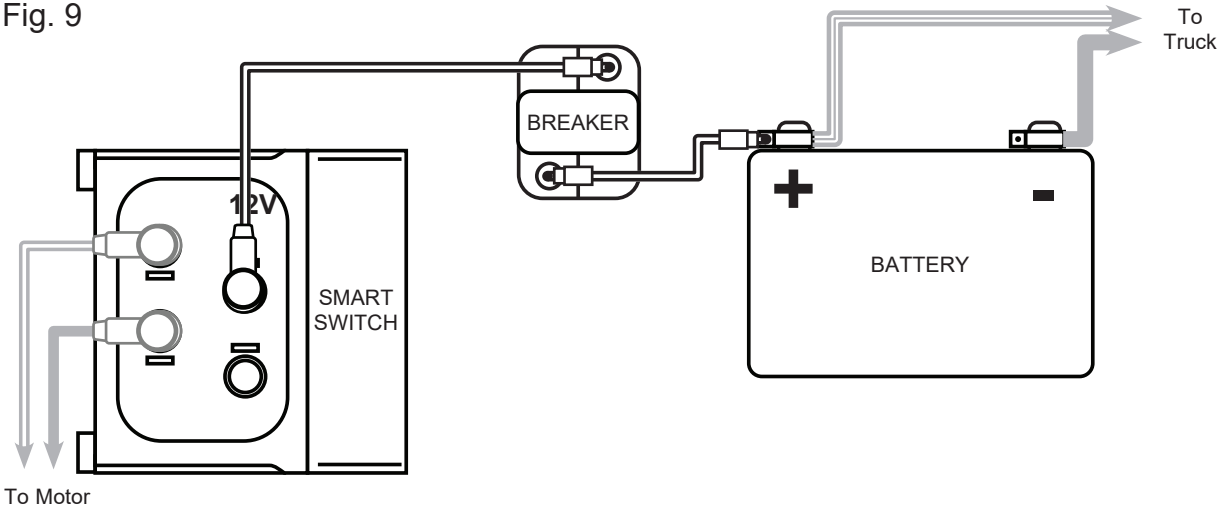


Fig. 8

Step 7. Wiring the Breaker
Mount breaker in the battery box away from moisture. Cut a section in the red 6 ga. wire that will run to the positive terminal on the battery (Fig. 8). Strip the ends about 5/8” and attach the 6 ga. #10 terminal ends (Part # 514-0307). Attach to breaker.

Wiring the Battery

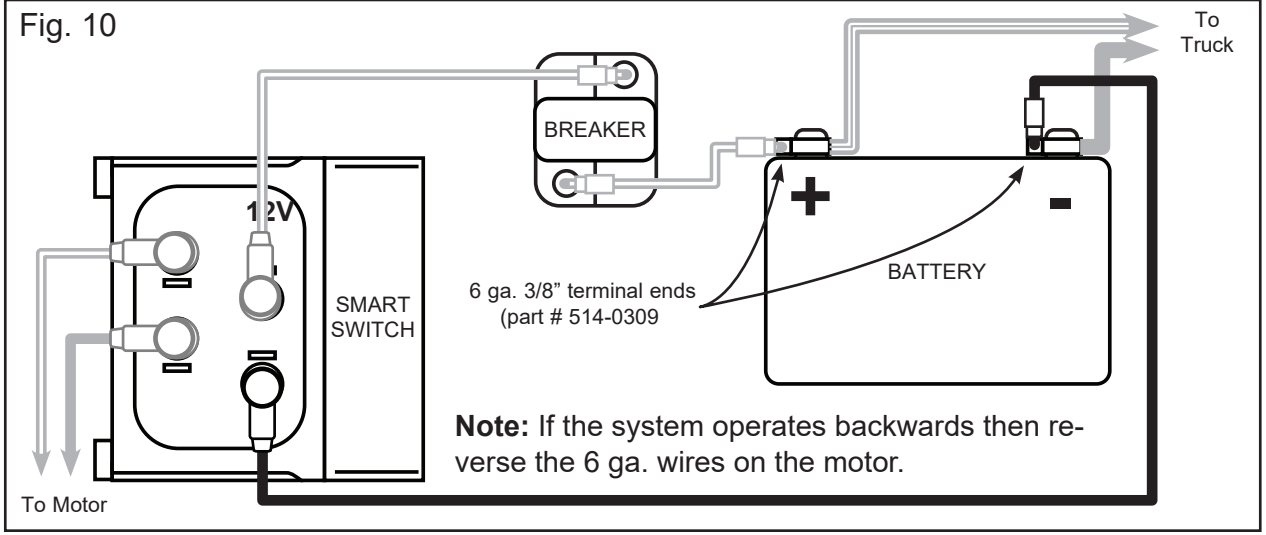
Fig. 9



Step 8
Attach the red striped 6 ga. wire to BAT (+) at the control box. Slide Red Terminal Boot over the end and connect using the Lug Connector (part # 514-0308) as done in Step 5.

Attach the other end of the red striped 6 ga. wire to the positive terminal on the battery using a 6 ga. 3/8” terminal end (part # 514-0309) or 1/4” terminal end (part # 514-0308) depending on the size of the terminal at the battery (Fig. 9).

Fig. 10



Step 9
Connect the black 6 ga. wire to the negative terminal on the battery using a 6 ga. 3/8” terminal end (part # 514-0309) or 1/4” terminal end (part # 514-0308) depending on the size of the terminal at the battery (Fig. 10).

Attach the other end of the black 6 ga. wire to BAT (-) at the control box as done in step 5. Slide Black Terminal Boot over the end and connect using the Lug Connector (part # 514-0308) (Fig. 10).

Warning: You must attach the black 6 ga. wire to the battery first, before attaching it to the box.

Transmitter Function



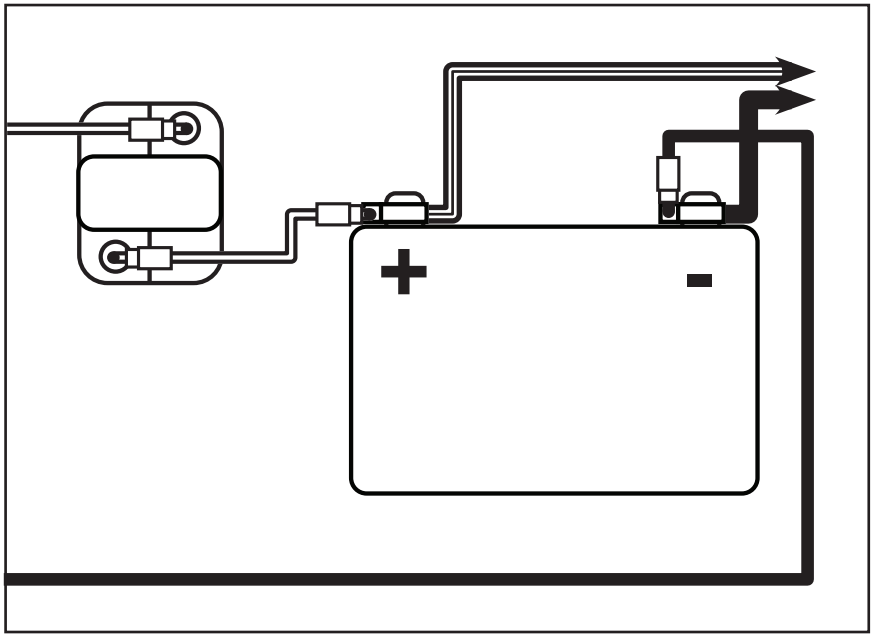
Fig. 11

Step 10 - Transmitter On/Off Function
All controls are on the front of the remote (Fig. 11). Press the START button to activate the remote and press STOP to deactivate it.

When the remote is active, you can press the up (↑) button to extend the arm system. When you want to rectract the arm system, press the down (↓) button.

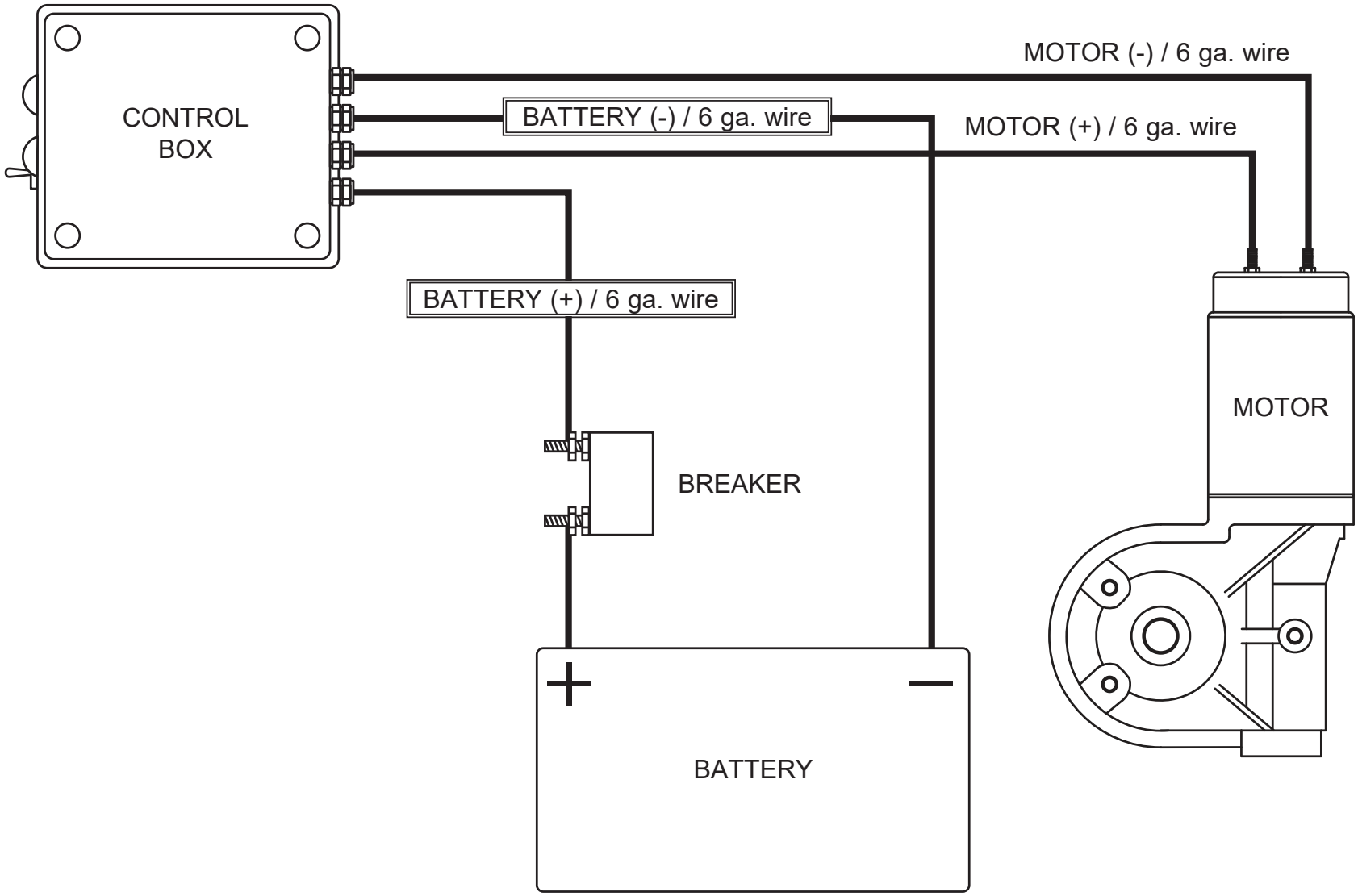
That Battery indicator on the upper left show how much battery power is left in the remote. The Transmit Signal indicator on the upper right shows when the remote is connected to the Exernal Switch.

Motor Check Out Procedure



1. Remove leads from motor & attach volt meter to the leads.
2. With the switch in to on position, the volt meter should read 12 volts minimum. If voltage is low recheck with engine running. Recheck wiring and connections (minimum 6 gauge wire must be used).
3. Return switch to the neutral position & reattach leads to motor.
4. Attach volt meter to leads at the motor.
5. With the switch in the on position and the leads attached, the volt meter should read 8.5 volts minimum. If voltage is low recheck with engine running. Recheck wiring and connections (minimum 6 gauge wire must be used).
6. Return switch to the neutral position and attach amp meter to leads at the motor.
7. With the switch in the on position, amp meter should read approximately 30 amps. Constant amperage reading of over 50 amps indicated binding in the system and/or low voltage.
8. Disconnect 6 ga #10 terminal end from the solenoid side of the breaker.
9. Connect the 6 ga #10 terminal end to the battery side of the breaker. This will bypass the breaker.
10. Test the tarp system. If the motor operates properly then replace the breaker.

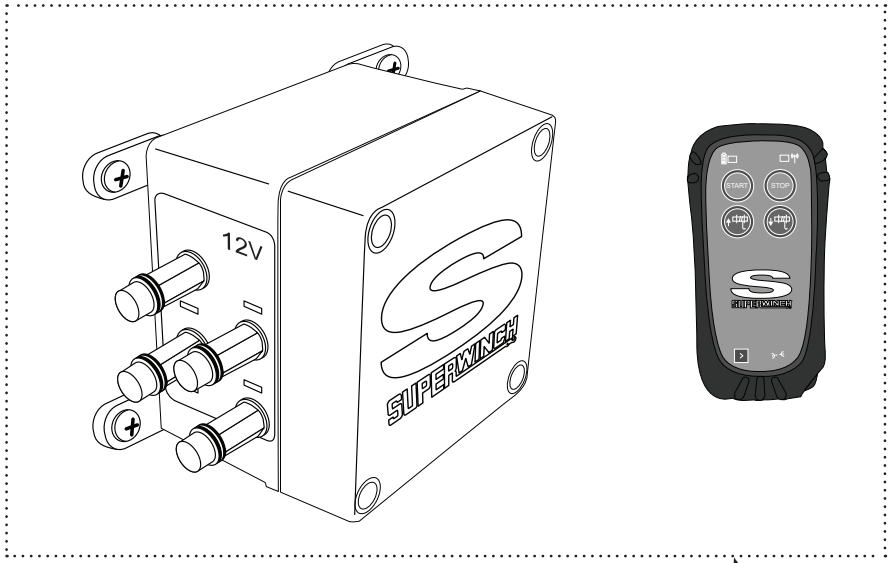
Smart Switch Basic Kit - Wiring Diagram # 514-0141

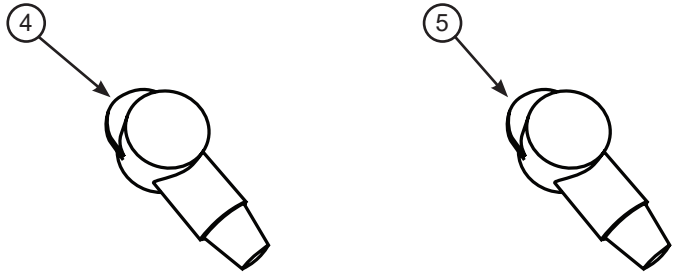


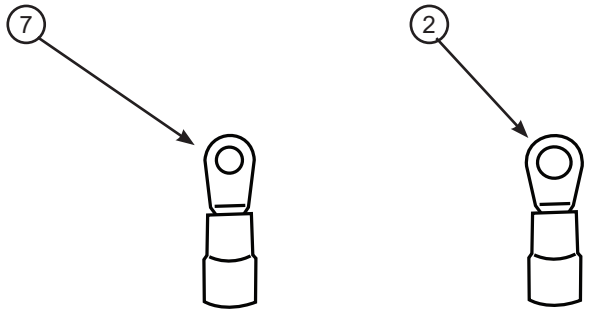
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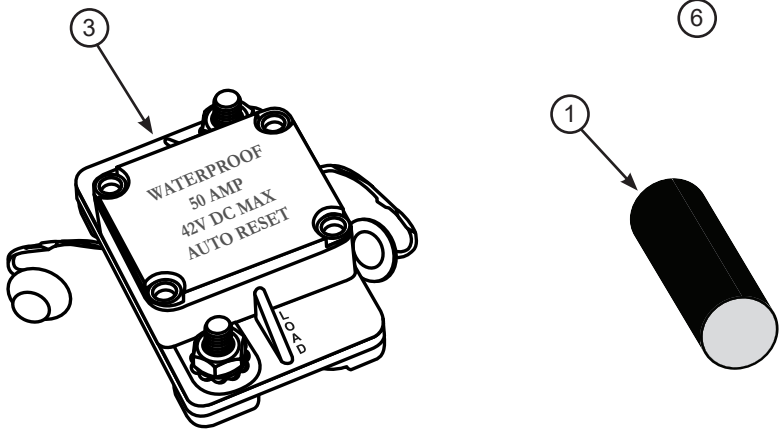
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Smart Switch Basic Kit # 514-0141









ITEM	PART #	DESCRIPTION	QTY
1	501-1545	1/2” Dia X 1-1/2” L Black Heat Shrink Tubing	4
2	514-0309	Connector 6 ga. with 3/8” Hole	2
3	514-0432	50 Amp Type 1 Breaker	1
4	514-0317	6 ga. Black Terminal Boot	2
5	514-0319	6 ga. Red Terminal Boot	2
6	517-0939	12V Wireless Remote Control	1
7	514-0308	Connector 6 ga. with 1/4” Hole	8

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