

Relay and Wireless Switch Replacement for Boat Trailer Winches

1. Disconnect the winch from the power source and remove the winch from the boat trailer.
2. Remove the bolt that holds the handle on the winch. Remove the bolts that hold the plastic cover to the metal frame at the bottom four corners of the winch. Remove the two recessed bolts near the top of the winch. [See. Fig. 1]



Fig. 1

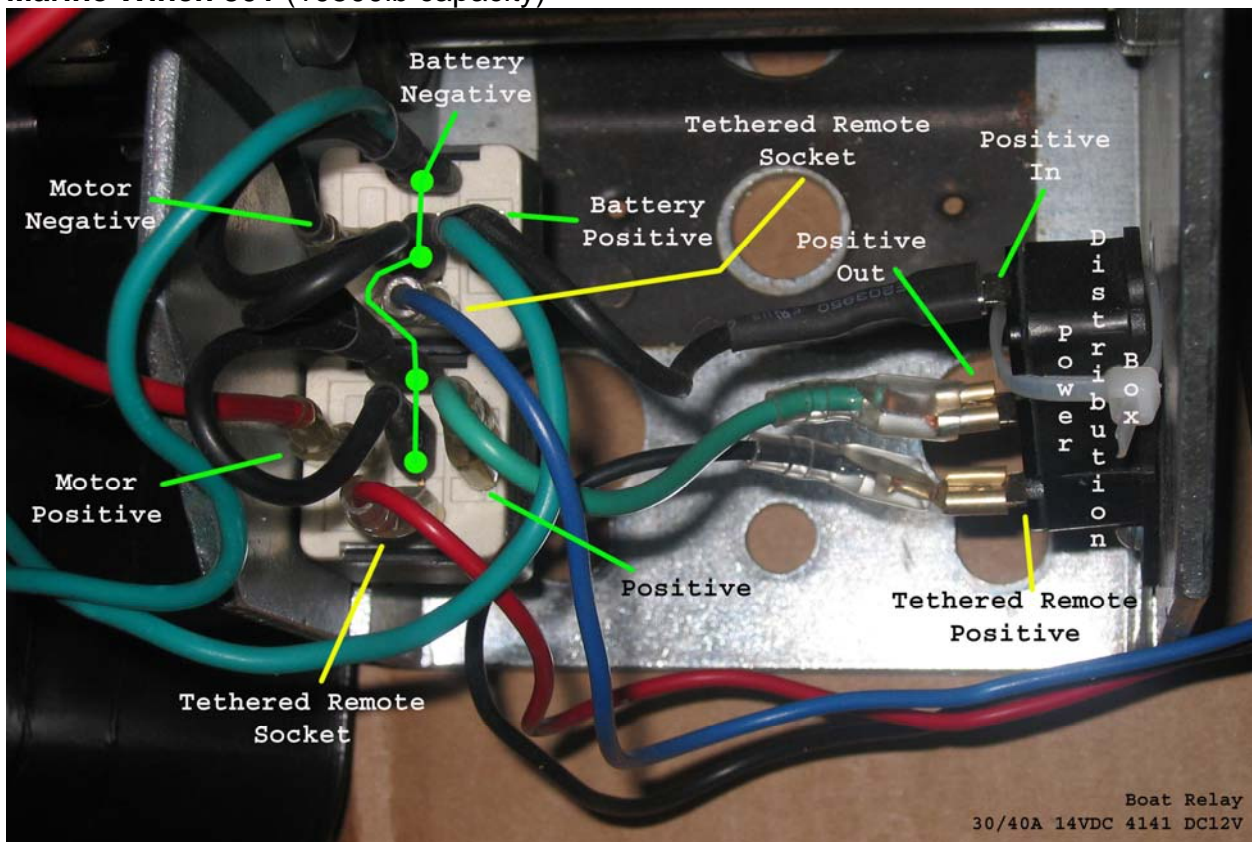
3. Gently pull the two halves of plastic housing apart from each other.
 - * Caution, they will still be connected to the winch by a bundle of small wires.
4. Remove the two small relay boxes on the left side of the metal frame by cutting the plastic zip ties that hold them to the frame.
5. Unbolt the wireless box on the right side of the frame. The back of it is glued to the frame so you may need to twist and pull on the box to remove it.
6. Leaving a long length of wire still attached to the Remote Control Socket cut the three wires that run to the Remote Control Socket. Later you will use the wires still attached to the Remote Control Socket to splice in the new relay.
7. Next take the old relay boxes and remove each wire from the old boxes and place it in the same place on the new boxes. [See Fig. 3]
 - * We recommend that you do one wire at a time so that it is less confusing.
 - * You may need to cut the plastic zip tie that holds the wires together.
8. Orient the new relays similar to the original. Then, one at a time, remove and solder the rocker switch wires (red, blue, black) from the original relays to the new ones. Be sure to get the wires on the same terminals or the winch will not work.
9. Use zip ties to reattach the relay boxes to the winch in the same place where you removed them.

10. Place the two halves of plastic housing on the frame and make sure there are no loose wires hanging out. Bolt the housing back together. Then bolt the four corners of the housing to the frame. Put the handle back in place and bolt it on.

* One side of the plastic housing is keyed for the nut on the recessed bolts. Make sure to place the nut on the side that is keyed.

Below are diagrams of the 10500lb and 15000lb versions of our Marine Winch. Look closely at the pictures to see which one fits your application.

Marine Winch 301 (10500lb capacity)



Marine Winch 501 (15000lb capacity)

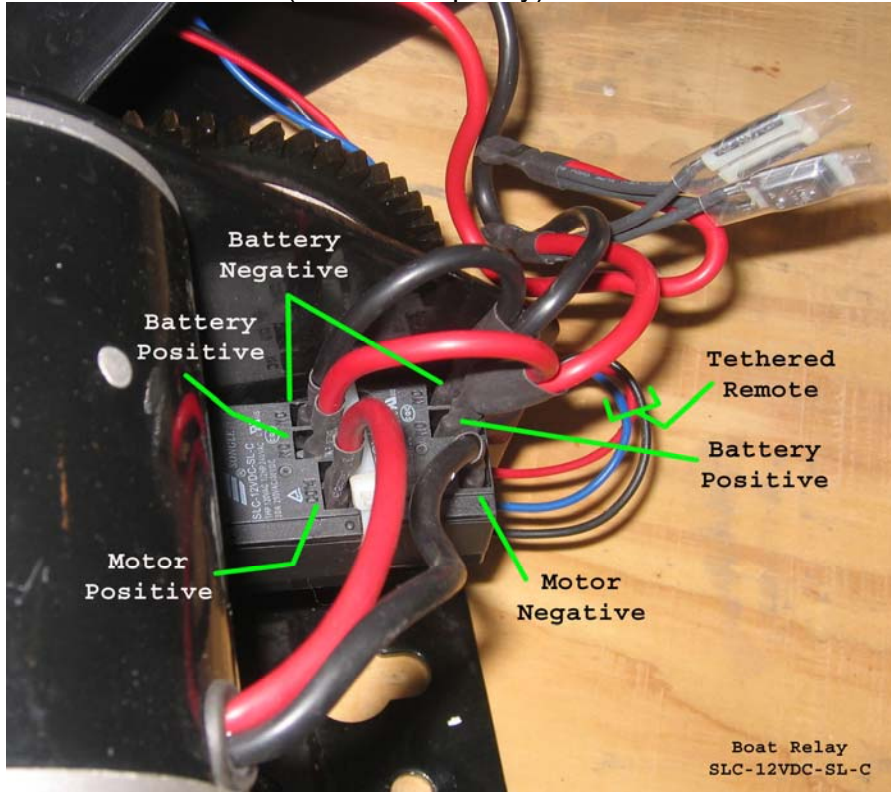


Fig. 1

Marine Winch 501 (15000lb capacity bottom of relay)



Fig. 2