



INSTALLATION INSTRUCTIONS

For Mounting a Warn Winch on Multi-Mount Kit No. 89990

Your safety, and the safety of others, is very important. To help you make informed decisions about safety, we have provided installation and operating instructions and other information on labels and in this guide. This information alerts you to potential hazards that could hurt you or others. It is not possible to warn you about all potential hazards associated with this product, you must use your own good judgment.

CARELESS INSTALLATION AND OPERATION CAN RESULT IN SERIOUS INJURY OR EQUIPMENT DAMAGE. READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND OPERATING INSTRUCTIONS BEFORE INSTALLING AND OPERATING THIS PRODUCT.

This guide identifies potential hazards and has important safety messages that help you and others avoid personal injury or death. **WARNING** and **CAUTION** are signal words that identify the level of hazard. These signal words mean:

WARNING signals a hazard that could cause serious injury or death, if you do not follow recommendations.

CAUTION signals a hazard that may cause minor to moderate injury, if you do not follow recommendations.

This guide uses **NOTICE** to call attention to important mechanical information, and **Note**: to emphasize general information worthy of special attention.

WARNING

INJURY HAZARD

Failure to observe these instructions could lead to severe injury or death.

- Always** verify area is clear of fuel lines, fuel tank, brake lines , electrical wires, etc when drilling.
- Never** short battery terminals with metal objects.
- Always** use extreme caution when drilling, cutting and trimming during fitting.
- Always** remove jewelry and wear eye protection.
- Never** lean over battery while making connections.
- Never route electrical cables:**
 - o Across any sharp edges.
 - o Through or near moving parts.
 - o Near parts that become hot.
- Always** insulate and protect all exposed wiring and electrical terminals.
- Always** take time to fully read and understand the Installation Instructions and Operator's Guide included with this product.
- Always** inspect the quick connect polarity on the cable from the battery AND the cable from the winch.
- Never** operate this WARN product with damaged or missing parts.
- Never** install a winch with a capacity over 10,000 lbs (4536 kg)
- Never** exceed 10,000 lbs (4536 kg) pulling force.

Caution

Impact Hazard

Failure to observe these instructions could lead to minor or moderate injury.

- Always** use proper posture / lifting technique or get lifting assistance while handling and installing product.
- Always** use appropriate and adequate care in lifting components into place.
- Always** insure components will remain secure during installation and operation.

Notice

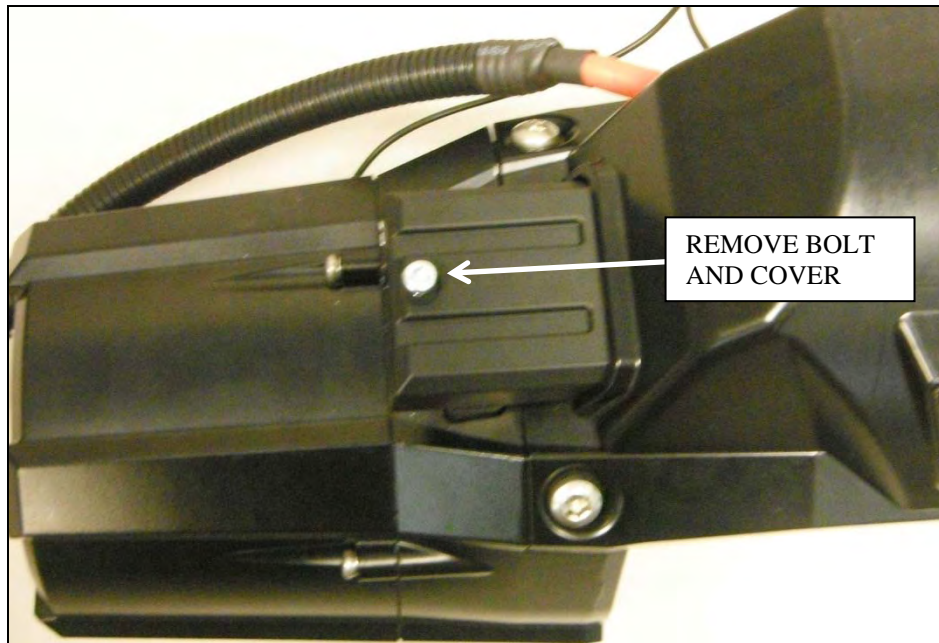
Equipment Damage

- Always** refer to the Installation Instructions and Operator's Guide, supplied in the winch kit, for all wiring schematics and specific details on how to wire this WARN product to your vehicle.

NOTE: This unit is to be used only on vehicles equipped with a Warn Front Receiver or a class 3 receiver trailer hitch.

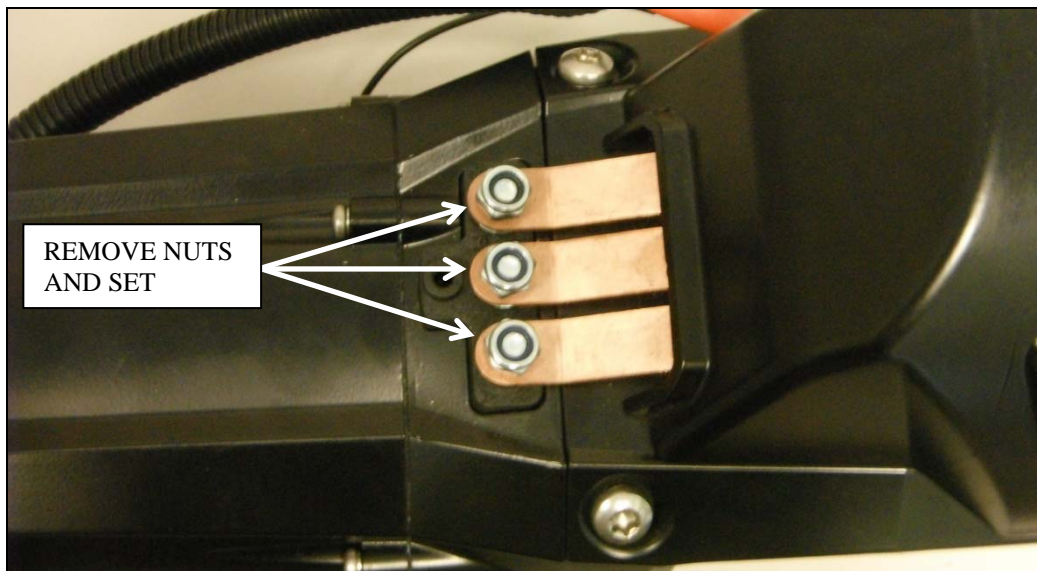
1. First, remove the cover as shown in **Figure 1** below.

FIGURE 1



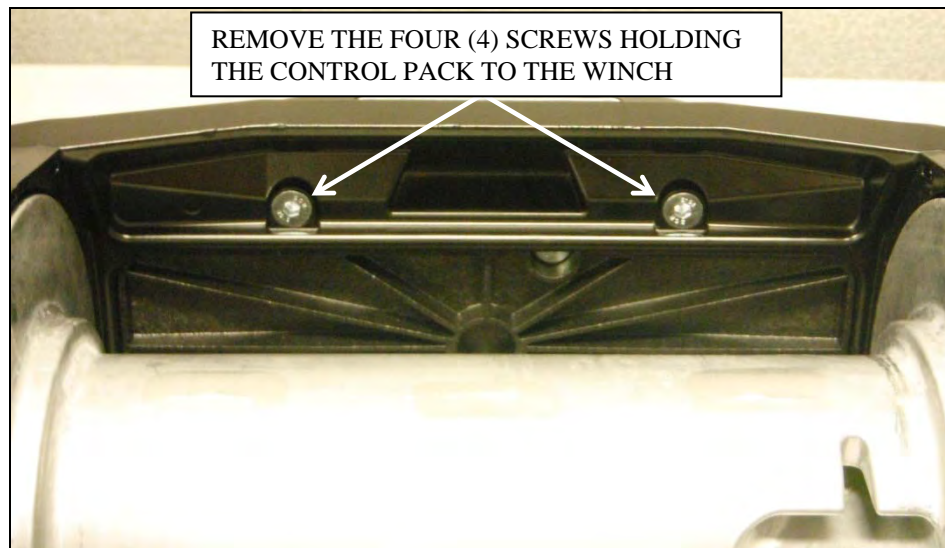
- Set the cover aside and remove the three (3) nuts connecting the BUS Bars to the electric motor as seen in **Figure 2** below.

FIGURE 2



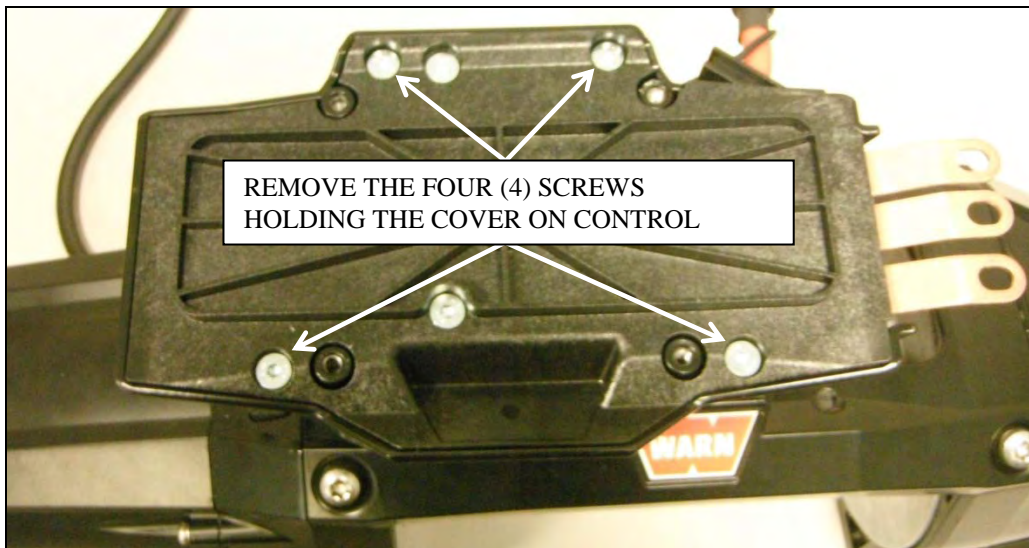
2. Remove the four (4) screws holding the control pack to the winch. This is done by first setting the winch on its back to remove the front two (2) screws (shown in **Figure 3**) and then on its front to remove the two (2) screws in back.

FIGURE 3



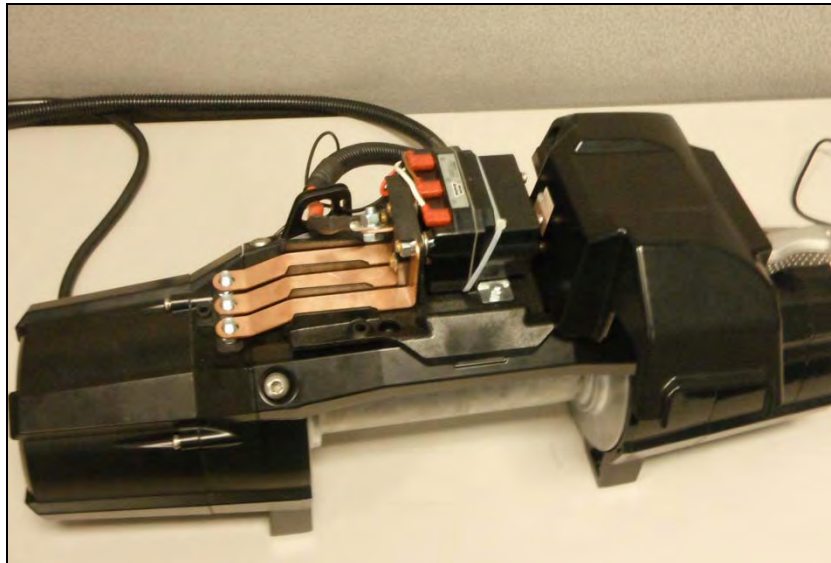
3. Remove the control pack from the winch and set it upside down on top of the winch. Remove the four (4) screws holding the cover on the the control pack shown in **Figure 4**. **NOTICE** Do not tug or pull on the black ground wire attached to the winch frame.

FIGURE 4



4. Next separate the control pack and its cover and set them back on the winch as shown in **Figure 5**. **NOTICE** Do not pull or tug on the wires leading from the control pack to the control pack cover.

FIGURE 5

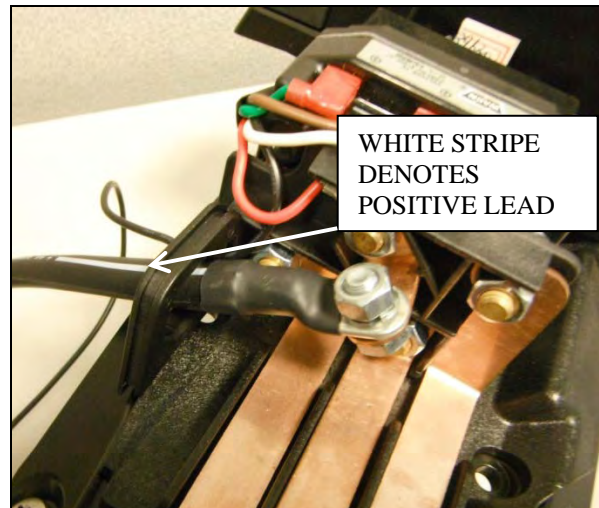


5. Remove the red power cable seen in **Figure 6A** and replace it with the positive (+) lead from the short quick-connect provided in the kit as seen in **Figure 6B**. The longer 6' quick connect cable will be used later to connect to your battery. **NOTICE** The positive (+) lead on the short quick-connect will be the longer of the two leads and will be marked with both a white stripe running the length of the cable and positive symbols.

FIGURE 6A

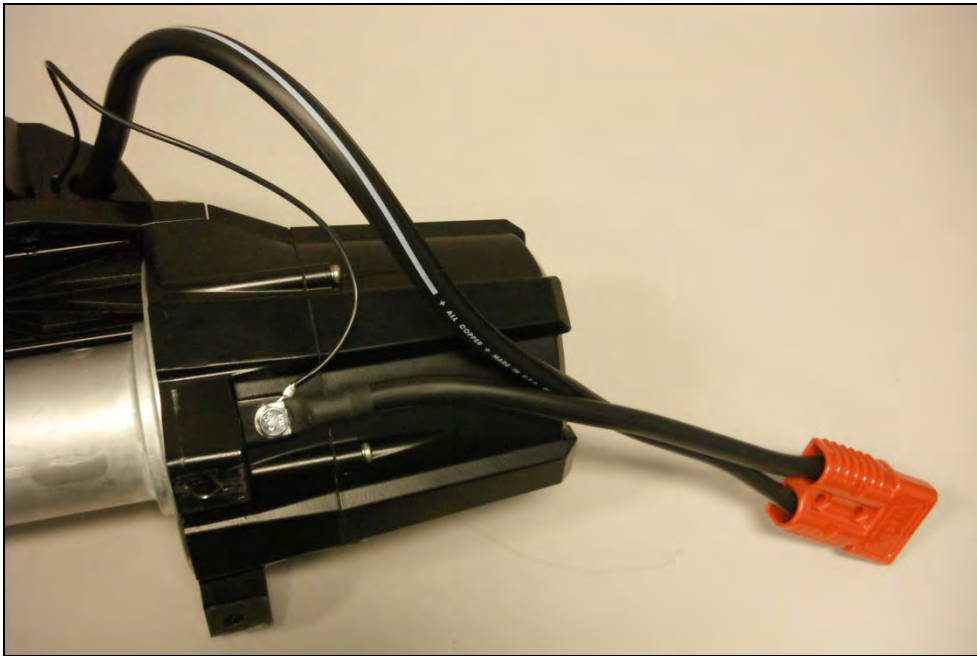


FIGURE 6B



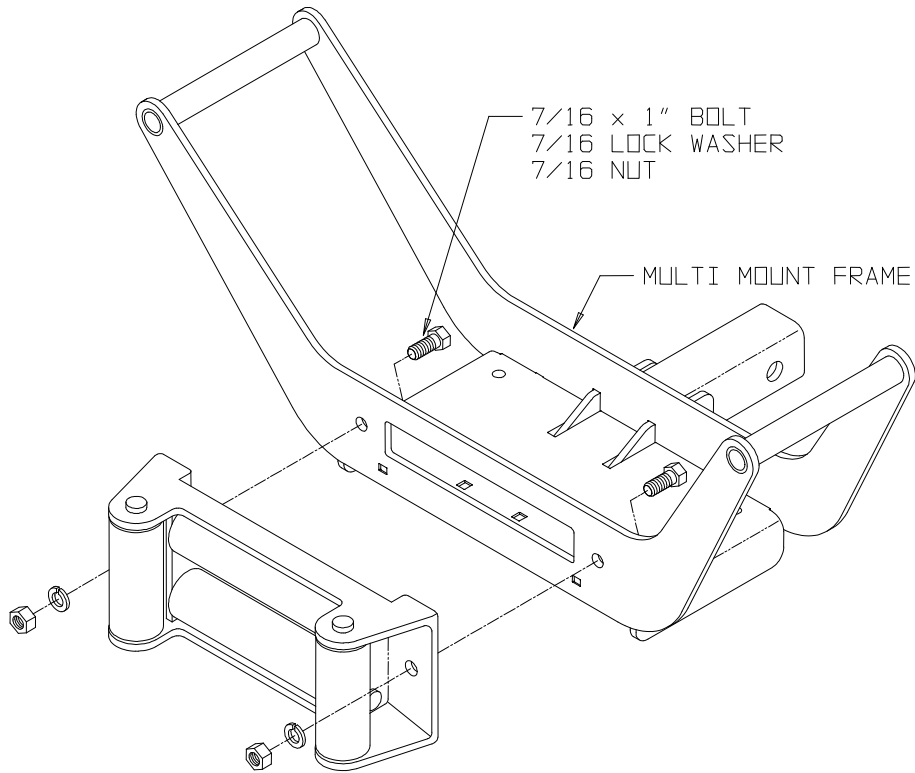
6. Reassemble the control pack in the reverse order that it was disassembled.
7. Remove the long black ground cable from the motor ground (-) terminal and replace with the ground cable from the quick-connect in the same orientation shown in **Figure 7**. Note: The small black wire attached to the motor ground (-) terminal must be reattached to the motor ground (-) terminal when installing the quick-connect ground cable. **NOTICE** The ground cable on the quick-connect is solid black and shorter than the positive cable.

FIGURE 7



8. Install the fairlead on the front of the winch mounting plate as seen below in **Figure 8**.



FIGURE 8

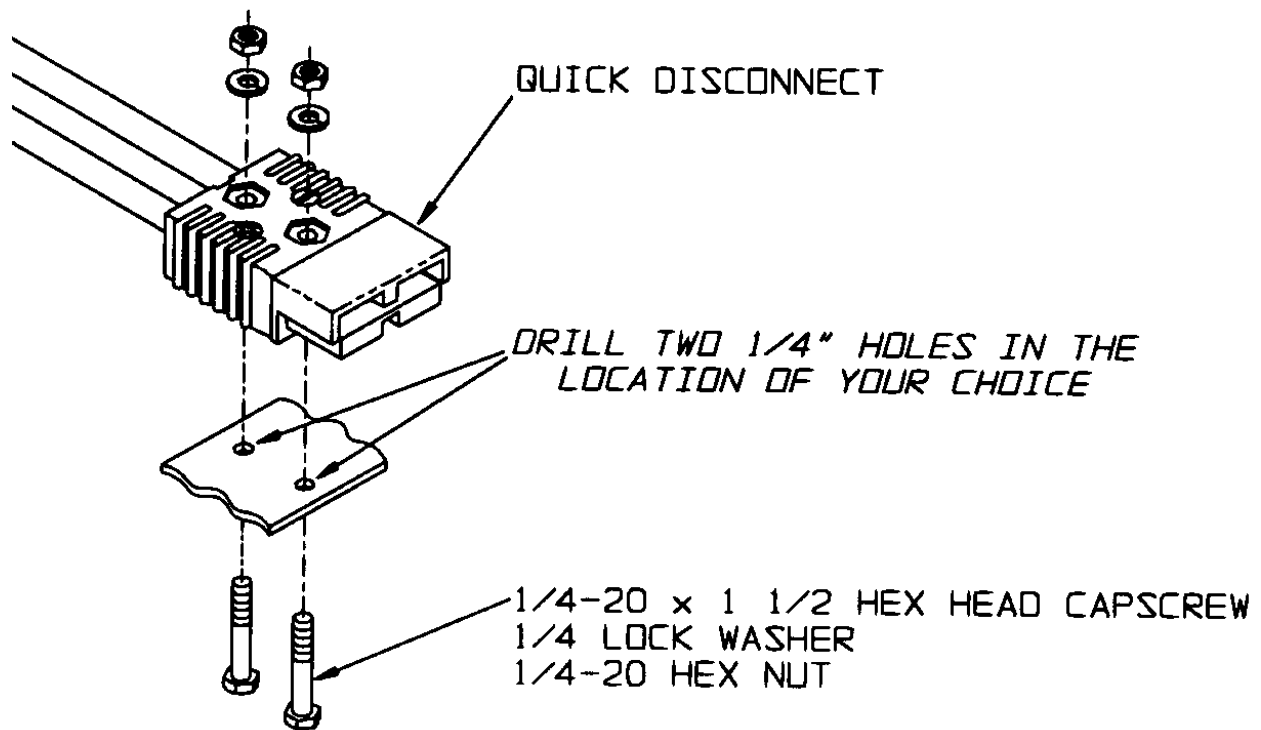


9. Install the winch to the mounting plate using the instructions and fasteners provided with the winch.

10. The 6 foot electrical quick-connect cable furnished is intended for connection to the battery on vehicle front receiver installations. For winch use at the rear of vehicle, longer quick-connect cables are available from Warn dealers. For 20 foot kit, order part number 32963. For 24 foot kit, order part number 32966. Choose a location on the bumper or grille to mount the quick-connect plug as shown in **Figure 9**. Be sure that the plug from the winch will reach when the multi-mount is inserted in the receiver with hitch pin in place. Connect the + and - cable ends to the vehicle battery.

FIGURE 9

⚠ WARNING	
	
CHEMICAL AND FIRE HAZARD	
Failure to observe these instructions could lead to severe injury or death.	
• Always inspect the quick connect polarity on the cable from the battery AND the cable from the winch.	



11. Snap the dust cover into the vehicle mounted plug to keep it clean when not in use. The lanyard can be attached to one of the cables or to other locations.

NOTE: The quick-connect plug mounted on the vehicle and wired to the battery makes an ideal point to connect booster cables. A heavy duty 16 foot set of boosters made for this purpose is available from Warn dealers under part number 26771.