

Kawasaki Mule Pro FXT

Winch Mount

Part #: 101230
Hardware Kit: HK-129, HK-031

Contents:

- 1x 101231 - Winch Mount
- 1x 101236 - Support Channel

Hardware Kit:

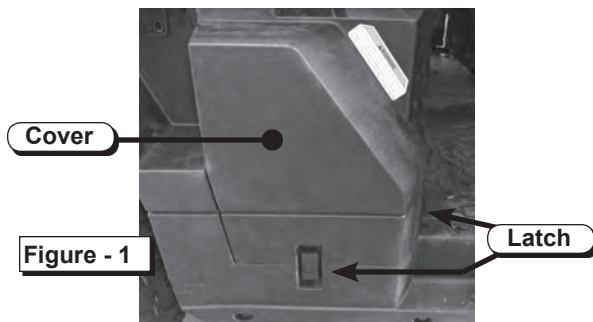
- 4x 3/8"-16 x 1-1/4" Hex Flange Bolt
- 2x 3/8"-16 x 1" Hex Flange Bolt
- 6x 3/8"-16 Hex Flanged Nylock Nut
- 1x 22-18GA Male Insulated Terminal
- 1x HK-031 (UTV Mini-Rocker Hardware)

IMPORTANT: Installation of this winch mount requires KFI Part# UTV-WEK.

INSTALLATION INSTRUCTIONS:

PREPARE MACHINE

1. Begin by turning the vehicle off. Locate and remove the battery compartment cover on the passenger side, behind the rear bench (**Figure 1**).



2. Remove both the front & rear skid plates under the vehicle, and the front hood panel. **Figure 11** shows both skid plates removed.
3. Remove the front bumper by unfastening bolts shown in **Figure 2** at locations (A) on both sides of frame, and three bolts at location (B).

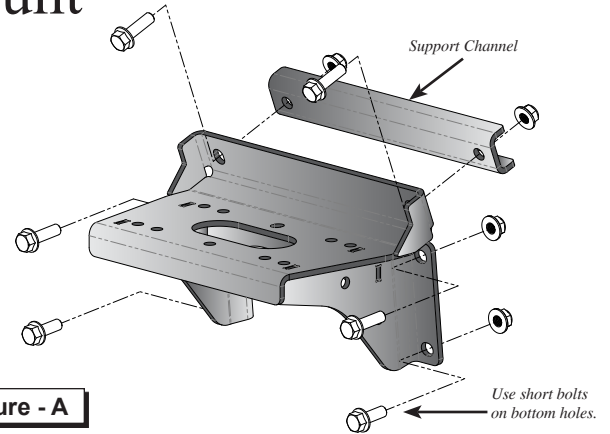
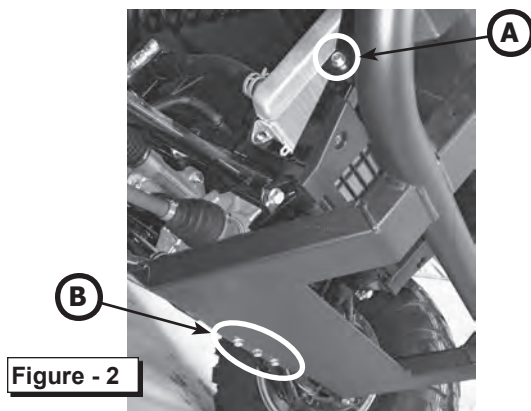


Figure - A
General assembly diagram.

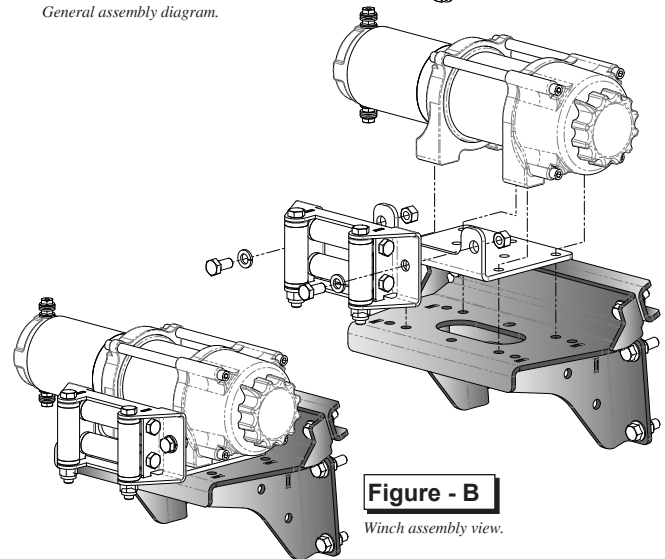


Figure - B
Winch assembly view.

INSTALL WINCH MOUNT TO FRAME

4. Position the winch mount plate against the frame according to **Figure A & Figure 3**. First, loosely install two 3/8" x 1-1/4" Bolts with 3/8" Nylock Nuts at location (C1), then two 3/8" x 1" Bolts with Nuts at location (C2). Do not fully tighten hardware at this time.

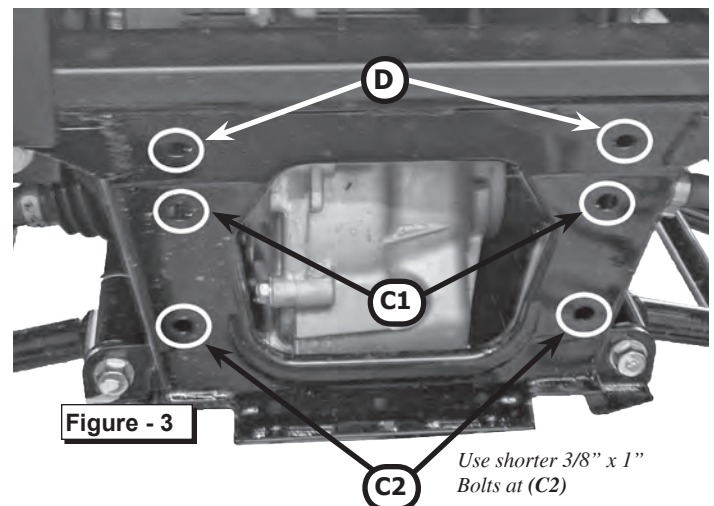
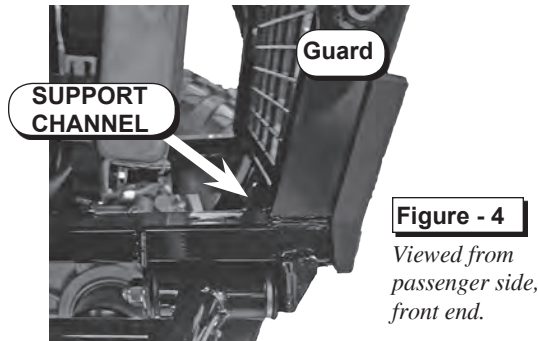


Figure - 3

Use shorter 3/8" x 1" Bolts at (C2)

- Position the Support Channel behind and below the front radiator guard according to **Figure A** and **Figure 4**, sandwiching the winch mount plate and machine frame at bolt locations **(D)** in **Figure 3**.



Pass two 3/8" x 1-1/4" Bolts through holes **(D)** in the winch mount plate, the machine frame, and Support Channel according to assembly **Figure A**. Loosely affix two 3/8" Nylock Nuts.

- Fully tighten all winch mount hardware evenly.

INSTALL WINCH TO WINCH MOUNT

- Assemble your winch, fairlead bracket, and roller fairlead or hawse fairlead to the winch mount as shown in **Figure B** using hardware included with your winch.

Note: If your winch did not come with a roller fairlead or fairlead bracket, you can purchase either separately. See www.kfiproductions.com or contact your local dealer.

- Replace front bumper, using hardware removed in **Step 3**.

WIRING INSTRUCTIONS:

OVERVIEW

Installation requires the use of KFI #UTV-WEK (Extended Wiring Kit). All wiring will first be routed from the hood compartment where the Contactor Block is mounted through a small wiring outlet **(E)**, then either to the battery or the winch.

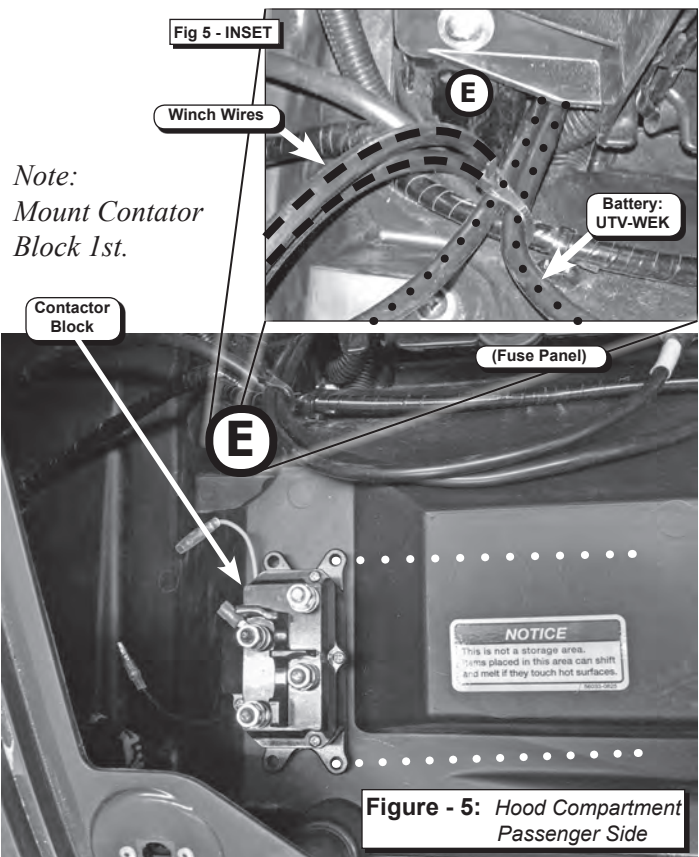
Leave all ends loose until instructed to connect them. You will then work your way back to the front while securing wires to the frame and pulling slack into the hood compartment.

INSTALL CONTACTOR

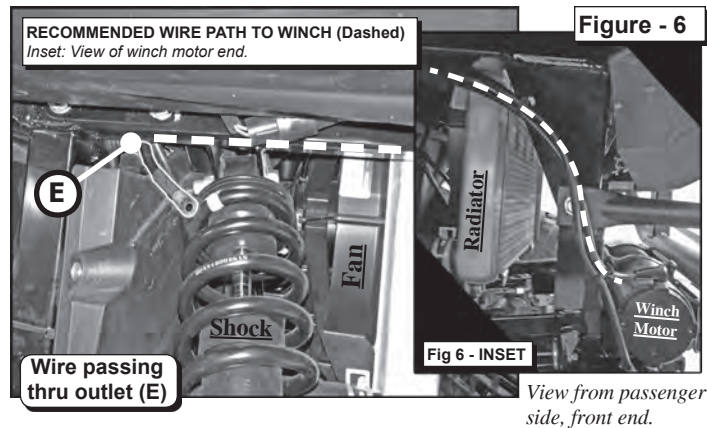
- Position and install the Contactor Block to the preferred location as shown in **Figure 5**. It must be placed as in the photo to avoid radiator hoses directly below the plastic. Use the dotted lines as a guide and visually center the Contactor Block as shown in **Figure 5**. Install using hardware included with your winch, or alternatively, short drywall/multi-purpose screws.

ROUTE WINCH WIRES

- Feed the shortest wires included with your winch (usually **RED & BLACK**) from the hood compartment, through a wire outlet **(E)** as shown in **Figure 5**.



- Run the winch wires down through the outlet, over top the passenger side shock support, and toward the Winch Motor end following the *dashed* path in **Figure 6**.



- Loosely secure winch wires to the frame with zip ties, but do not fully tighten them to allow adjustment.
- Per the **ALTERNATE WINCH WIRING DIAGRAM (pg 5)**, connect the **BLACK** wire to the **NEG (-) BLUE** winch post; connect the **RED** wire to the **POS (+) YELLOW** winch post.
- Working your way back to the outlet **(E)**, secure winch wires tight to the frame and push slack back into the hood compartment. **DO NOT CONNECT** to Contactor Block at this time.

INSTALL SWITCH

15. Use included Mini-Rocker Switch Hardware Kit (HK-031) to fasten a handle bar mounted mini-rocker switch to the dash or any desired location.

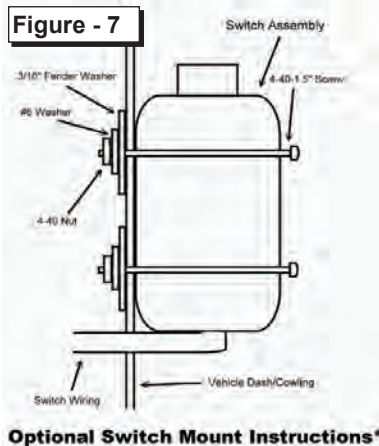
a. Remove handlebar mount hardware from the switch.

b. Locate desired mounting location.

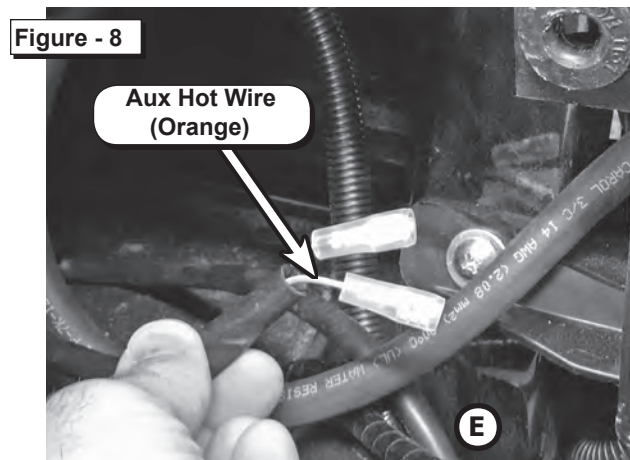
c. Mark & drill 2 switch holes thru dash using switch housing as a template.

d. Drill a 3rd hole for switch wiring.

e. Assemble per **Figure 7**.



16. Connect the red ignition fed wire for a Mini-Rocker Switch or other controller to the orange terminal of the auxilliary wiring harness that is pre-installed on the passenger side in the front hood compartment. See **Figure 8**. Attach using the supplied **22-18GA Male Insulated Terminal**. Wire to Contactor per your winch manual. Secure wires as needed.

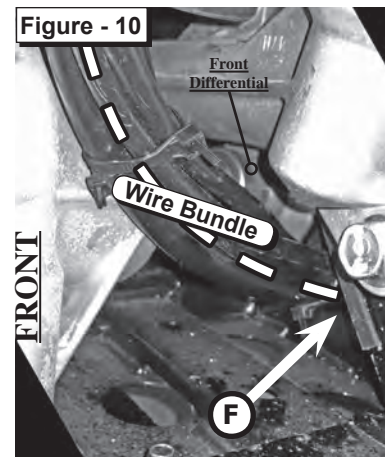
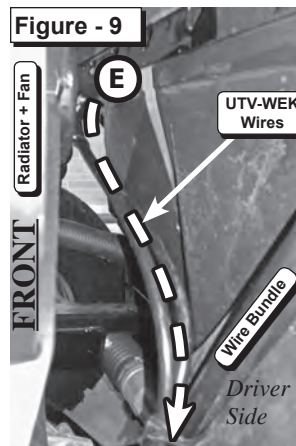


ROUTE BATTERY WIRES

You will route the wires from UTV-WEK to the battery along the same path as the parking brake wire bundle. (See Fig 11)

17. This vehicle **requires** extended 11FT battery wires included with the Wire Extension Kit (**KFI#:** **UTV-WEK**, sold separately). Use only the **BLUE & YELLOW** color coded wires found in **UTV-WEK** to connect the battery.
18. Feed the wires from #UTV-WEK through outlet (**E**) in the hood compartment shown in **Figure 5**, then down behind the fan, going from the passenger side strut support toward the driver side and the parking brake wire bundle as shown in **Figure 9**.

19. Before moving on to the next steps, **tape off the YELLOW wire end** left in the hood compartment with electrical tape for safety. You will be connecting these wires to the battery once they are routed properly, and this prevents arcing.



20. Locate a wire bundle (**Figure 10**) and follow its path under the vehicle. Route the **UTV-WEK** wires *along this cable bundle* (as shown in **Figure 11**) towards the rear of the vehicle to the battery compartment. Using zip ties, loosely secure the **UTV-WEK** wires to the wire bundle and pass it through the following key junction points:
21. **Point F** - Passing under the front differential (see **Figure 10**).

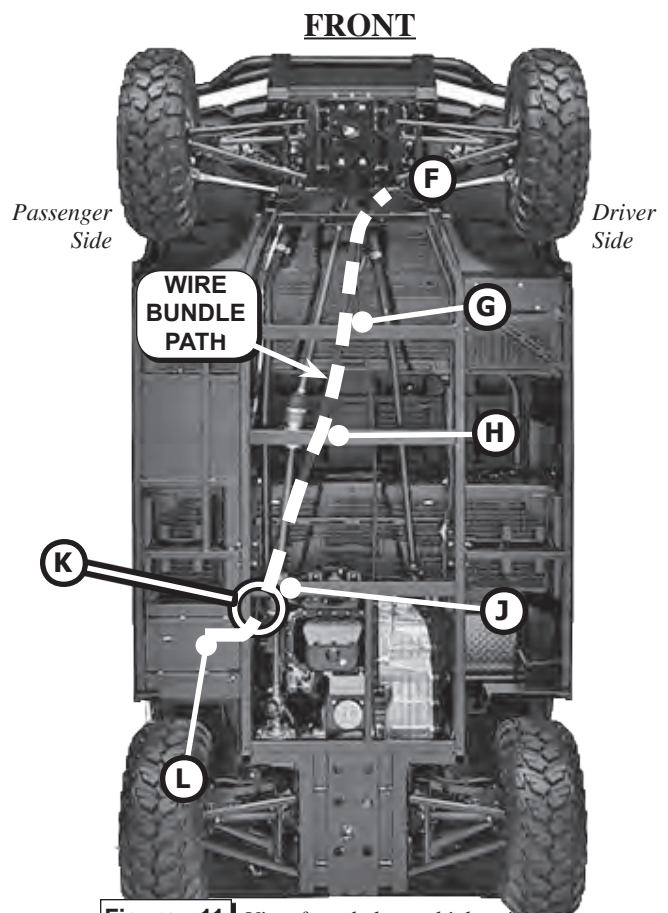


Figure - 11 View from below vehicle w/ skid plates removed.

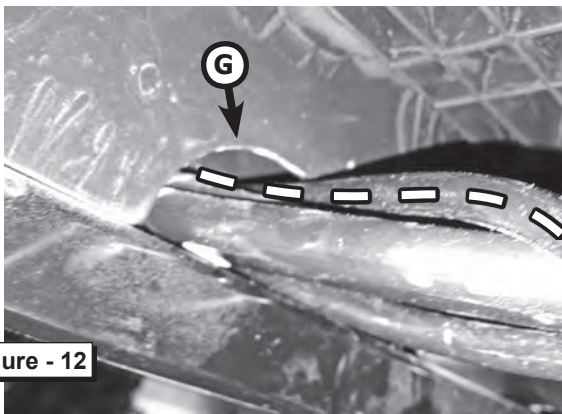


Figure - 12

22. **Point G** - Through a wire hole in the plastic (see **Figure 12**).

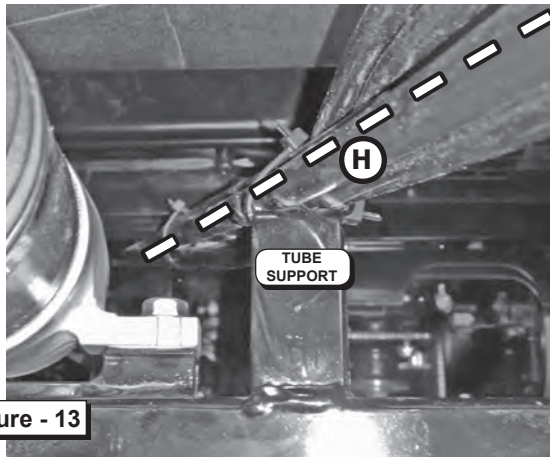


Figure - 13

23. **Point H** - Across and on top of a tube support (see **Figure 13**).

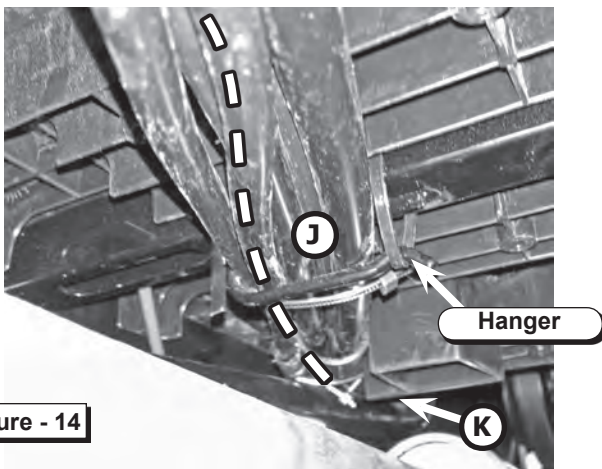


Figure - 14

24. **Point J** - Through a hanger (see **Figure 14**).
25. **Point K** - Special Note: KFI recommends using a 12" Wire Loom on the UTV-WEK wires in the location where the wires cross paths with the radiator lines at point (**K**).
26. **Point L** - Into the battery compartment; feed both ends of the wires from UTV-WEK, from under the vehicle, up through a hole found at location (**L**) directly above the wire bundle as shown in **Figure 15**.

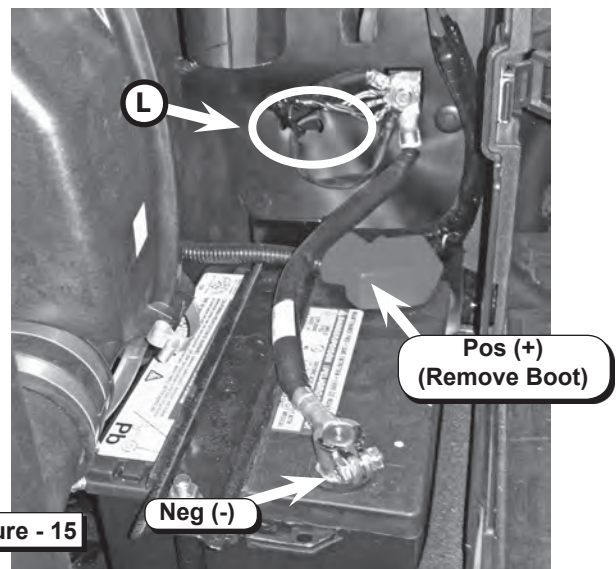


Figure - 15

27. Per the **ALTERNATE WINCH WIRING DIAGRAM**, attach the **YELLOW** wire to the screw on the **POS(+)** battery post. Attach the **BLUE** wire to the **NEG(-)** battery post.
28. Working your way back to the front hood compartment, pull wires taught and take out any slack as you go. Secure them with additional zip ties and tighten loosely placed zip ties from earlier steps.

Note: Keep battery wires tight & secure against the wire bundle! DO NOT let them come in contact with any heat source or moving components!

COMPLETING INSTALLATION

29. In the hood compartment, finally connect the winch and battery wires to the Contactor Block per the **ALTERNATE WINCH WIRING DIAGRAM** shown on **Page 5**.

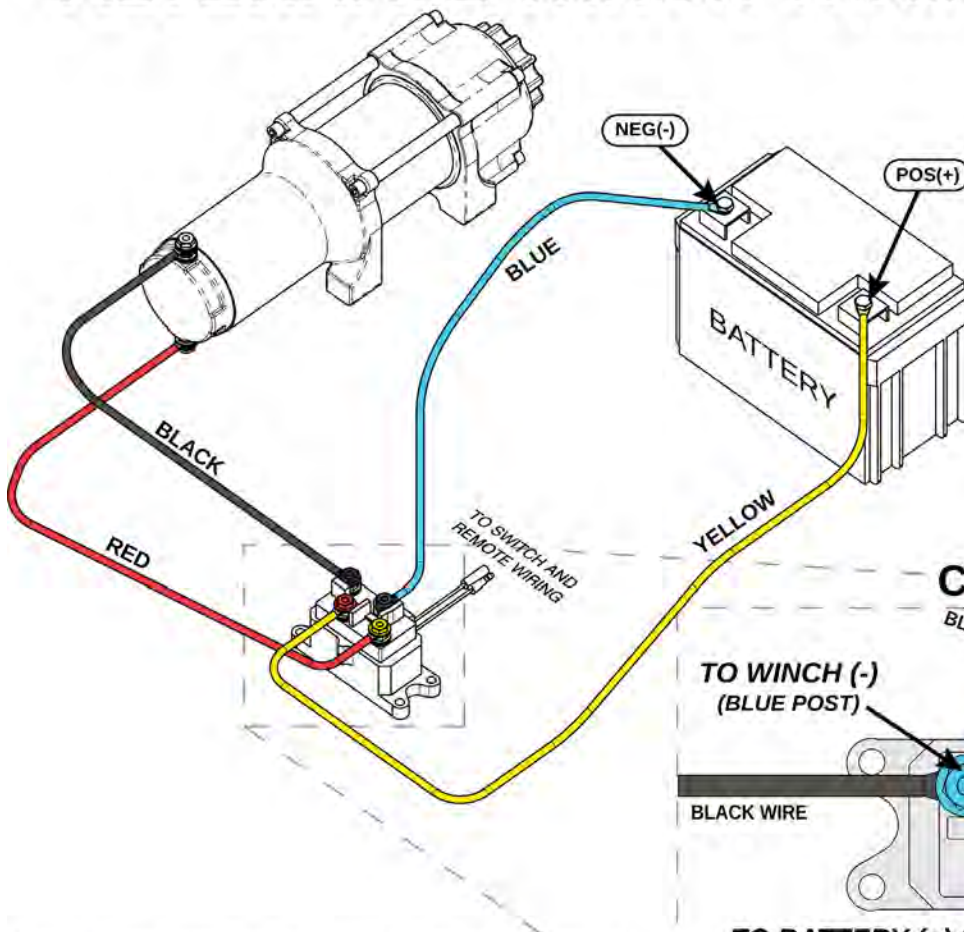
*Note: Remove the electrical tape from the YELLOW wire end applied in **Step 19** before making connections!*

- Wire Winch NEG (BLACK WIRE) to BLUE Contactor post.
 - Wire Winch POS (RED WIRE) to YELLOW Contactor post.
 - Wire Battery NEG (BLUE WIRE) to BLACK Contactor post.
 - Wire Battery POS (YELLOW WIRE) to RED Contactor post.
30. If applicable, connect the small GREEN & BLACK wires from a Mini-Rocker switch or similar to the standard Contactor Block. Consult your Winch manual for specific wiring instructions.
31. Finish securing wires in the hood compartment, bundle up slack, and zip tie as needed. Replace the hood panel.
32. Replace skid plates removed in previous steps.
33. Replace battery compartment cover.

Note: Battery shown in this diagram represents a *battery fed source*. Depending on your vehicle configuration, power leads may attach to a primary/secondary battery or starter solenoid. Follow all vehicle specific installation instructions.

Figure - 16

ALTERNATE WINCH WIRING DIAGRAM

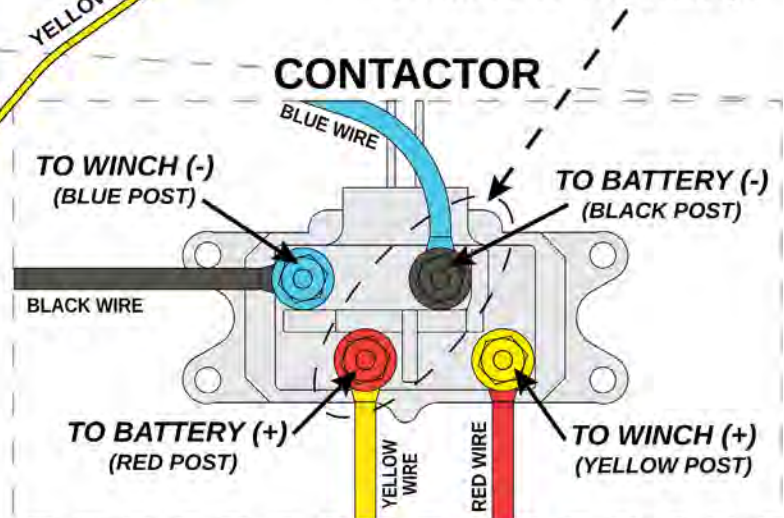


* For use with ATV/UTV applications where contactor cannot be located close to vehicle battery.

* Run shortest wires, usually red & black from contactor to winch; run longest wires, usually blue & yellow from contactor to battery.

CAUTION

These two posts must be wired to the battery!



CAUTION

FAILURE TO FOLLOW WIRING DIRECTIONS AS SHOWN MAY RESULT IN DAMAGE TO YOUR WIRING SYSTEM OR EQUIPMENT.

- WIRE WINCH NEGATIVE (BLACK WIRE) TO --> BLUE CONTACTOR POST
- WIRE WINCH POSITIVE (RED WIRE) TO --> YELLOW CONTACTOR POST
- WIRE BATTERY NEGATIVE (BLUE WIRE) TO --> BLACK CONTACTOR POST
- WIRE BATTERY POSITIVE (YELLOW WIRE) TO --> RED CONTACTOR POST

