# POLARIS RANGER XP 900/570

## Winch Mount

*Part #:* **101345**

*Hardware Kit:* **HK-305, HK-031**

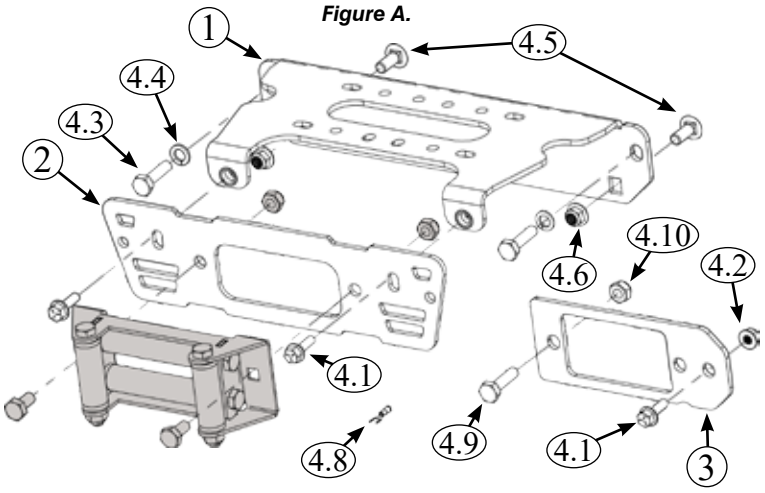
**CONTENTS:**

| *ITEM #* | *QTY* | *DESCRIPTION* |
|---|---|---|
| 1 | (1x) | Winch Mount Plate |
| 2 | (1x) | Replacement Grill Wide |
| 3 | (1x) | Fairlead Converter Bracket |

**HAREWARE KIT CONTENTS:**

| *ITEM #* | *QTY* | *DESCRIPTION* |
|---|---|---|
| 4.1 | (3x) | 5/16”-18 x 1” Hex Flange Bolt |
| 4.2 | (1x) | 5/16”-18 Hex Flange Nylock Nut |
| 4.3 | (2x) | M10x1.50 x 25mm Hex Head Bolt |
| 4.4 | (2x) | M10 Lock Washer |
| 4.5 | (2x) | 3/8”-16 x 1.00” Carriage Bolt |
| 4.6 | (2x) | 3/8”-16 Hex Flange Nylock Nut |
| 4.7 | (1x) | HK-031 (UTV Mini-Rocker Hardware) |
| 4.8 | (1x) | 22-18GA Spade Insulated Terminal |
| 4.9 | (1x) | M10x1.50 x 35mm Hex Head Bolt |
| 4.10 | (1x) | M10x1.50 Hex Nut |

*Figure A.*




**Fairlead and fairlead bolts supplied with winch**

## Installation:

### Prepare Machine

1. Begin by turning machine off and disconnect the battery cables. Locate the battery compartment under the passenger or rear passenger seat. Lift bench seat up and pull out storage compartment. First remove the ground(Black), then positive(Red) terminal.

2. Open the hood and find the recommended contactor location shown in **Figure 1**. Affix the contactor to the recommended location with hardware included with your winch.

   Note: Contactor bolts will create threads in plastic when threaded in. This is normal.


*Figure 1*

* *Note: This is the standard location for contactor with standard length winch wires; if your wires are too short, you can drill holes on the opposite side of the hood compartment and affix contactor as needed.* ***Use caution when drilling holes, there is a radiator hose directly under this location.***

3. 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 through dash using switch housing as a template.

   d. Drill a 3rd hole for switch wiring.

   e. Assemble per **Figure 2**.

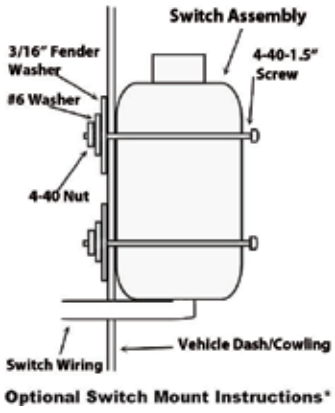



*Figure 2.*

### Lead Rotation

4. For all wide winches with leads on the **end of the motor** in a **vertical** orientation, you will need to **rotate** the **leads** so they do not interfere with the bumper frame once re-assembled. If your winch has leads on the *inside* (near the spool), then move to Step 5, otherwise see **Figure 3** and continue.

   - In general, to rotate the leads, loosen the two screws on the endcap in **Figure 3**, then rotate the entire motor housing 90 or 45 degrees (depending on your winch). For detailed instructions go to the Support section at www.kfiproducts.com and download “Winch Motor Lead Rotation Instructions”.

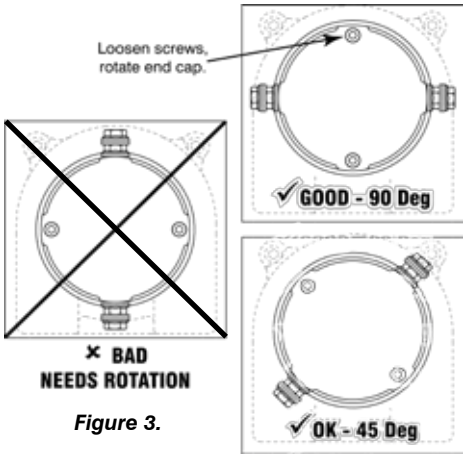


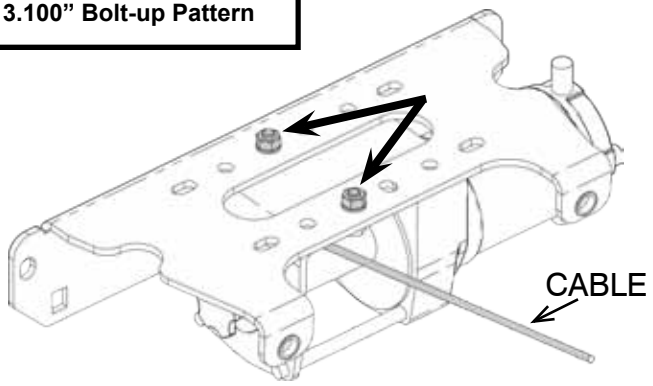

*Figure 3.*

## Install Winch to Mount

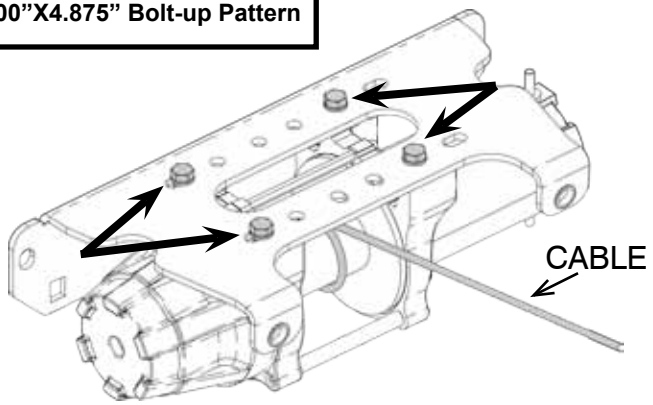
5. Connect the shortest wires (usually **RED** & **BLACK**) to the motor end of the winch per the ALTERNATE WIRING DIAGRAM shown in **Figure 15 (pg 5)**. Connect **BLACK** wire to NEG(-) **BLUE** winch post; connect **RED** wire to POS(+) **YELLOW** winch post.

6. Assemble your winch to the mount plate. Depending on your winch there are three different bolt pattern's shown in the following images. Use the hardware included with your winch. Most winches will be installed upside down with the clutch end on the passenger side of the machine and the motor to the driver's side once bolted to the machine.

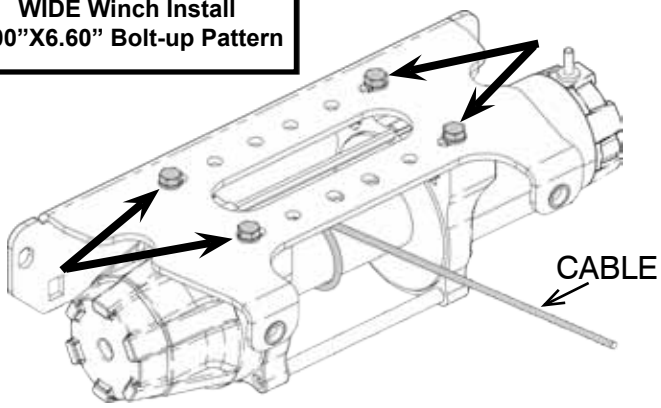
**Two Hole Winch Install**
**3.100" Bolt-up Pattern**




**Sandard Winch Install**
**3.00"X4.875" Bolt-up Pattern**




**WIDE Winch Install**
**3.00"X6.60" Bolt-up Pattern**




## Install Winch/Mount Assembly and Grill

7. Remove the front bumper. Remove the 4 bolts attaching front bumper (B) and (C) as shown in Figure 4. (See inset) views. Remove OEM plastic grill from bumper frame held in place by 2 Torx head screws (D). Discard OEM grill.

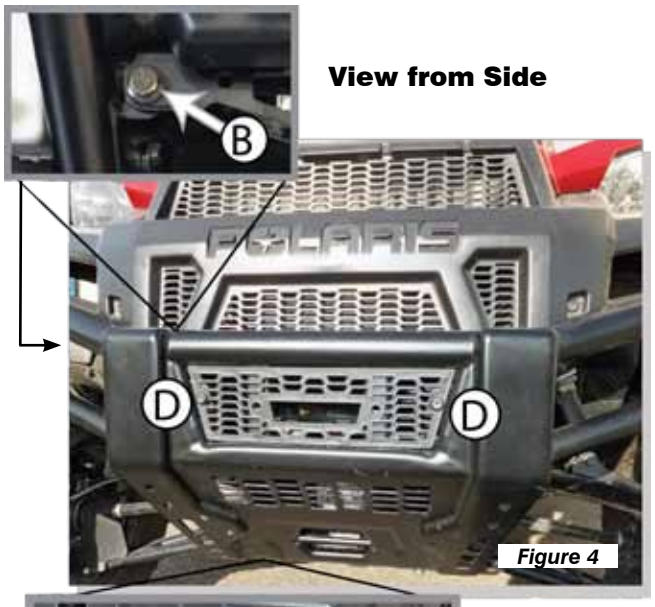



*Figure 4*

**WIDE Rollers**
**Discard Fairlead Converter**

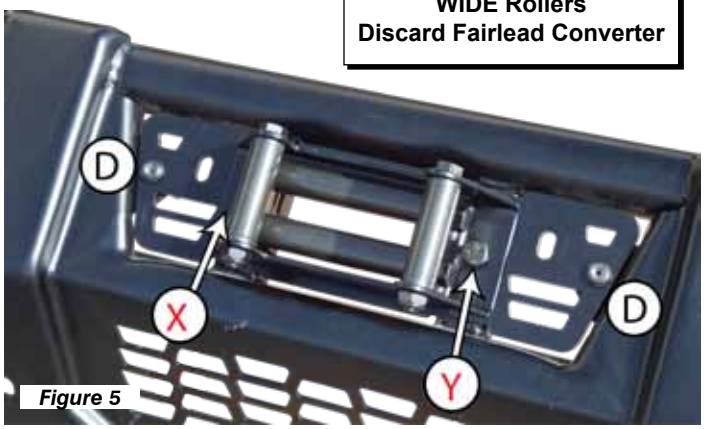



*Figure 5*

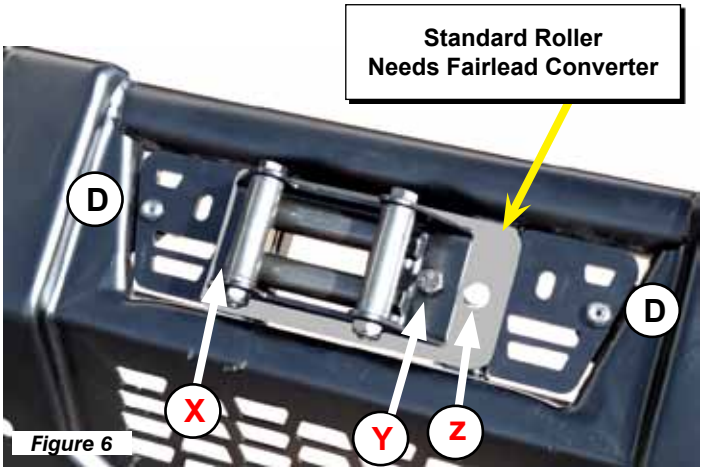


Figure 6

8. Install replacement grill to bumper as shown in Figure 5&6 using original Torx screws (D). Do not fully tighten.

*Note: If you have a two hole, or a standard winch you will need the converter bracket. If you have a wide winch discard the converter bracket, shown in (Figure 6). Without the bracket Install bolt (Y&X) directly to the grill & fairlead using hole (Z).*

9. Install fairlead to grill & bumper assembly as shown in Figure 5&6. ***FOR STANDARD WINCH:*** At X, Pass bolt (4.9) through fairlead, converter bracket, grill, and bumper frame rails, then tighten with nut (4.10). If using Converter bracket install fairlead bolt supplied with winch (Y) directly to the converter bracket. Use Bolt (4.1) and Flange Nylock Nut (4.2) from hardware kit to fasten grill to bumper frame at location (Z).

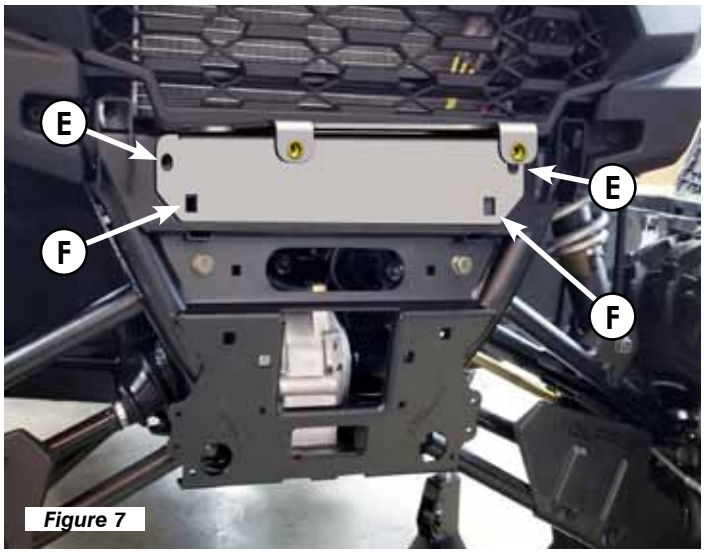


Figure 7

10. Lift assembled winch and mount into position on machine frame as shown in Figure 7. Fasten to frame using two M10 bolts & lock washers at positions (E) and two 3/8" carriage bolts & flange nuts at positions (F). Loosely start the top bolts first to make install easier. Install carriage bolts (F) with the head to the rear of the frame and nut on the front side with the mount plate as shown in Figure 7 and Figure A (pg.1). Tighten all hardware evenly.

11. Re-assemble bumper to frame, using bolts removed in step 7. Loosely affix nuts to bolts allowing for final adjustment of grill to mount plate. Fasten grill to mount using two 5/16" Flange Bolts included in hardware kit (See Figure A pg.1). Evenly tighten all mount and frame hardware.

## Route Wires

12. *If you have a **Crew** model*, you will need to use the extended 11' cables included with the Crew Kit (KFI#: UTV-WEK Sold Separately)

    Locate starter solenoid next to battery as shown in Figure 8. Using the ALTERNATE WIRING DIAGRAM (Figure 15, pg.5) as a guide, attach the **YELLOW POS(+)** wire to the battery fed solenoid as shown in Figures 8&9. Then, attach the **BLUE NEG(-)** wire to the ground post as shown in Figure 9.

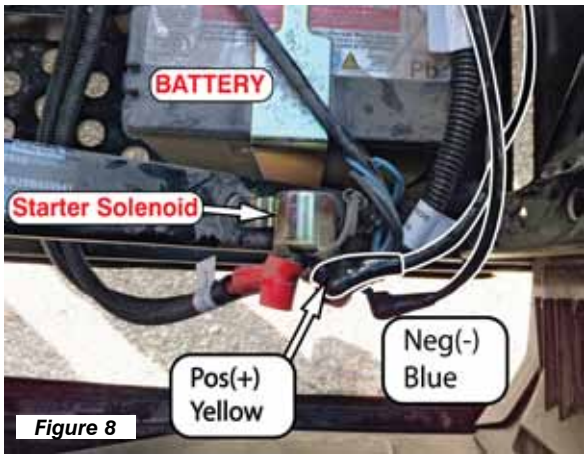


Figure 8

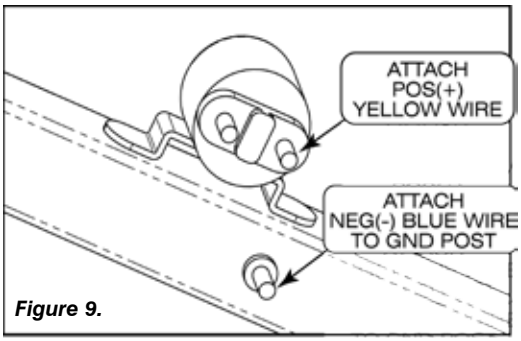


Figure 9.

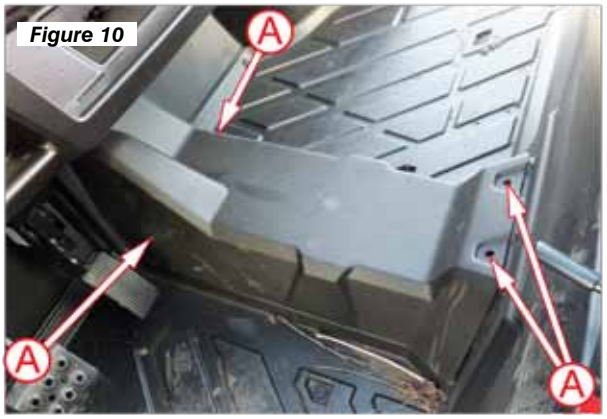


Figure 10

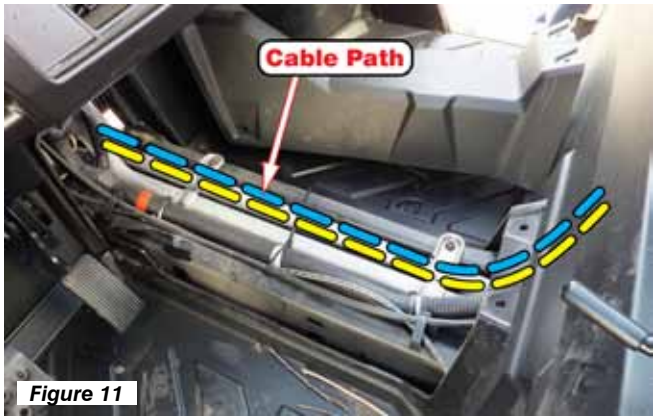


Figure 11

13. Remove plastic shroud covering center floor console by taking out the the 4 plastic rivets (A) shown in Figure 10. Route the longest wires (usually **BLUE** & **YELLOW**) included with your winch from the battery to the contactor location by passing through the opening to the battery compartment and through the front foot well as shown in Figure 11.

13. Finish routing longest wires up along frame and through outlet noted in Figures 1 (pg1) and 12. Do NOT connect wires to contactor at this time.

15. Route wires from winch motor end to the contactor location (**Figure 1, pg1**) by running them in front of the radiator. Do NOT connect wires to contactor at this time.

16. Route switch wiring behind front dash and through a wiring grommet located behind the glove box. See grommet (G) located in Figure 13. You may remove the top access panel (H) to aid in routing and securing wiring.

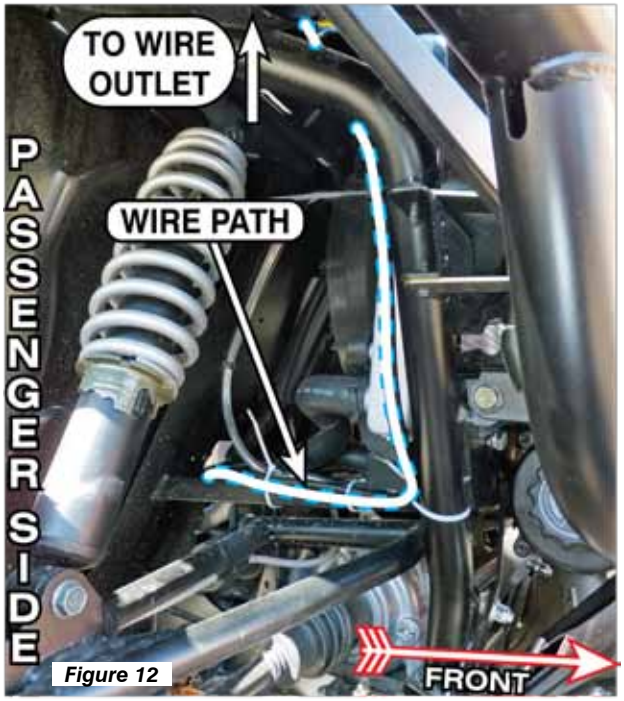


Figure 12

## Finalize Wiring

17. Attach the ignition fed wire (RED) from your switch to the post labelled (J) in Figure 14, using the 22-18GA Spade Insulated Terminal included in the winch mount hardware kit.

18. Connect wire to contactor according to **ALTERNATE WINCH WIRING DIAGRAM** shown in **Figure 15**.

19. **Secure all wires**, **reconnect battery positive & ground** cable, and **replace access panels** and shrouds removed.

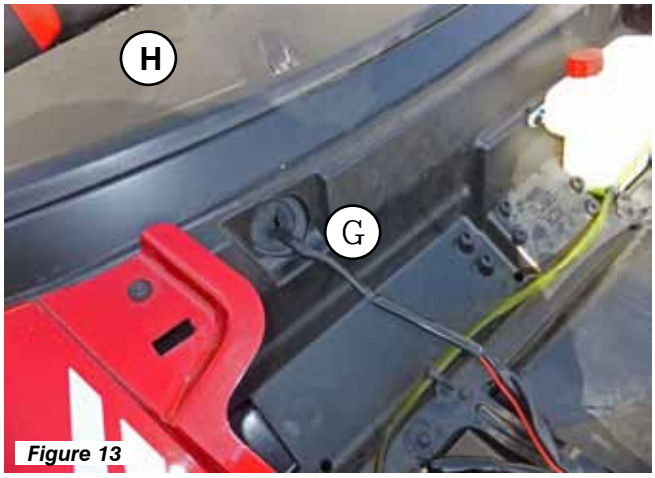


Figure 13

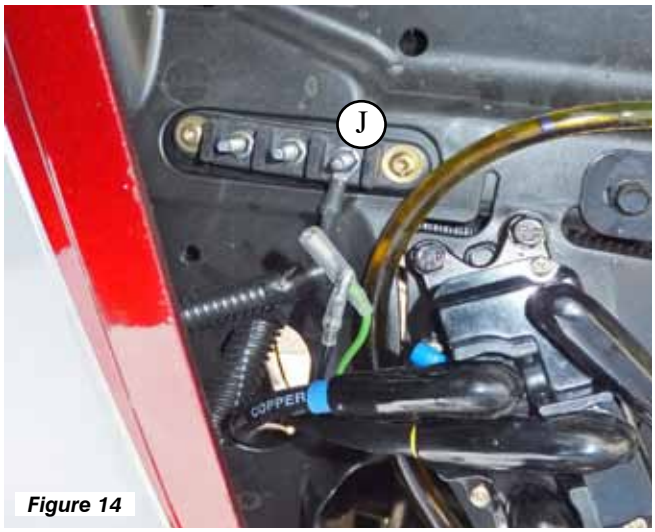
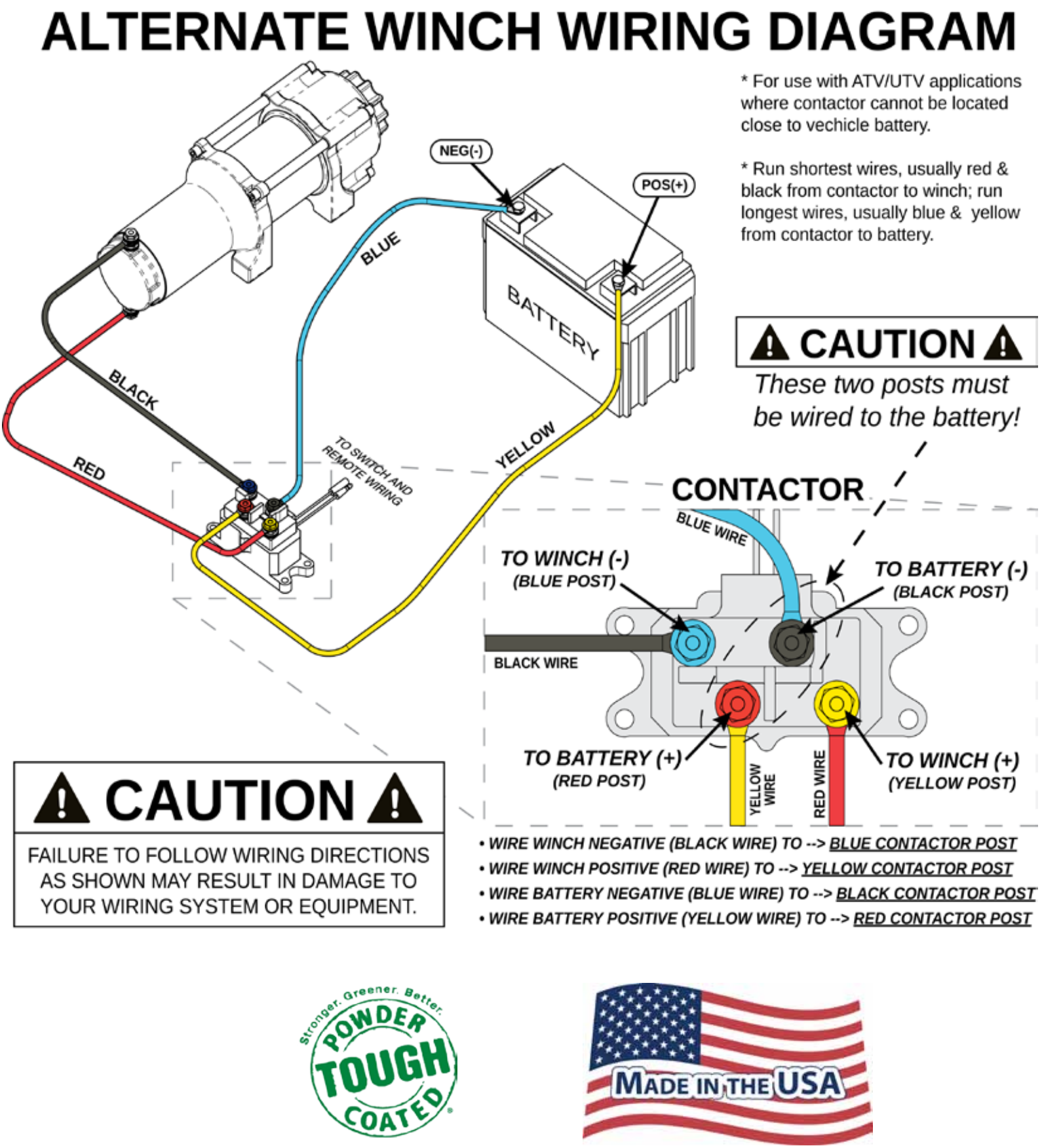


Figure 14

*Figure 15.*


ALTERNATE WINCH WIRING DIAGRAM
* For use with ATV/UTV applications where contactor cannot be located close to vechicle battery.
* Run shortest wires, usually red & black from contactor to winch; run longest wires, usually blue & yellow from contactor to battery.
NEG(-)
POS(+)
BLUE
BATTERY
BLACK
RED
YELLOW
TO SWITCH AND REMOTE WIRING
CAUTION
These two posts must be wired to the battery!
CONTACTOR
BLUE WIRE
TO WINCH (-)
(BLUE POST)
TO BATTERY (-)
(BLACK POST)
BLACK WIRE
TO BATTERY (+)
(RED POST)
YELLOW WIRE
RED WIRE
TO WINCH (+)
(YELLOW POST)
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
Stronger. Greener. Better.
POWDER TOUGH COATED
MADE IN THE USA