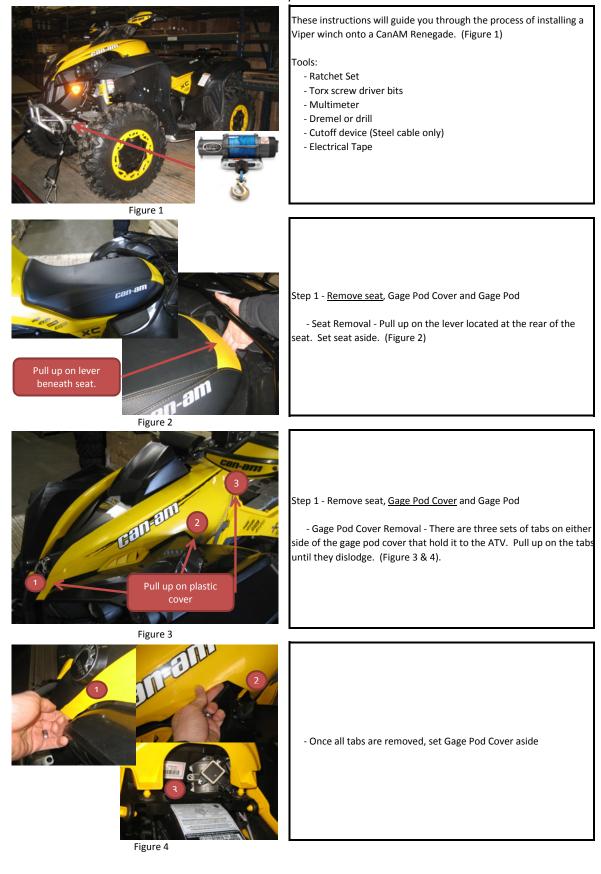
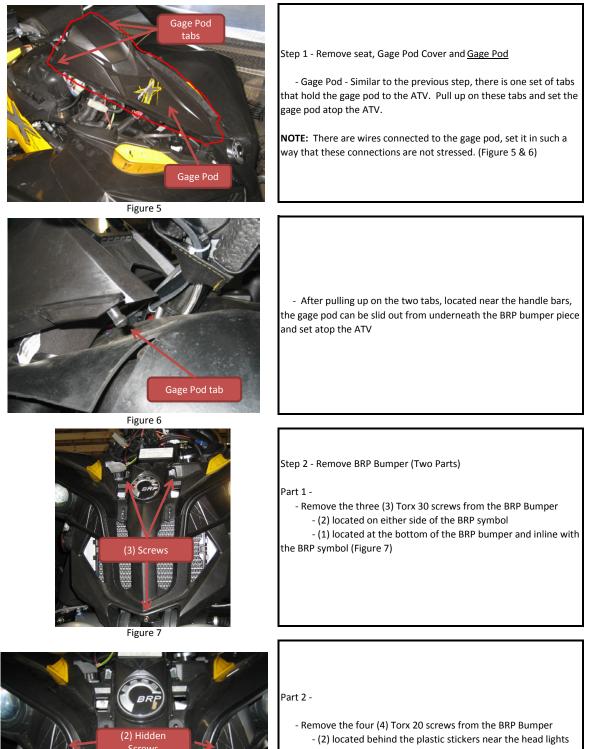
How to Install A Viper Winch On A CanAM Renegade

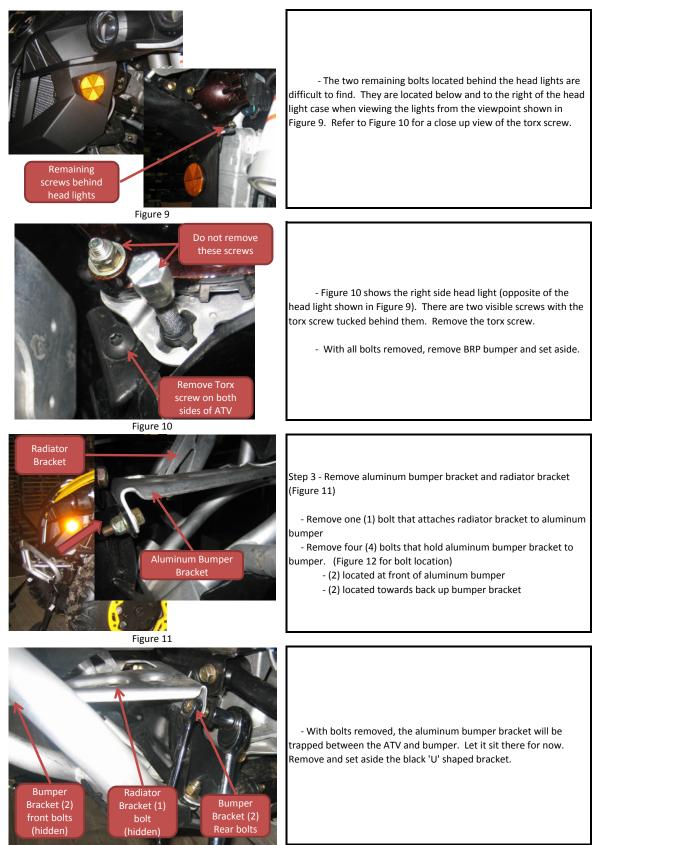
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(Figure 8). Peal sticker away with care and remove bolts using a 10mm wrench to secure the nut on the reverse side. (Figure 8)
- (2) located behind the front head lights

Figure 8





- Remove two additional bolts that attached the radiator bracket to the radiator support arm (Figure 13). Set aside bracket

Figure 13



Figure 14

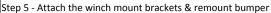
Step 4 - Remove Aluminum Bumper

 Remove any underbody armor and then remove the two (2) bolts that hold the aluminum bumper onto the ATV. Figure 14 shows all brackets and bumper removed.

- You are now ready to begin installing the Viper winch and reassembling your vehicle.



Figure 15



 Lay the aluminum bumper on a work surface with the mounting points towards you.

 Locate the two (2) flat brackets with three holes. Orient them as shown (Figure 15). Take note that the larger hole should be closest to you and the offset holes should be to the outside of the bumper.

- NOTE: In Figure 15, the factory hardware has been used to hold the two brackets to the bumper. These will later be removed.

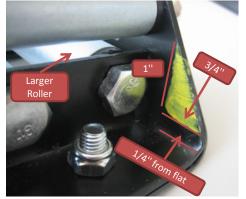


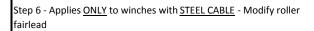
Figure 16

 Locate the winch mount bracket (Figure 16) and attach it using the hardware sent by MotoAlliance (seen in smaller photo of Figure 15). <u>Do not tighten these bolts at this time.</u>

 Remove the factory hardware that was shown in Figure 15 and is no longer shown in Figure 16.

 Remount the aluminum bumper with the attached brackets and mount plate. Use the factory hardware to mount the bumper. <u>Do</u> <u>not tighten the factory bolts at this time.</u>





- Skip ahead to Step 10 for winches with synthetic cable

- The roller fairlead used with steel cable requires a slight modification to the sidewall to best fit the Renegade bumper. Figure 17 shows the general cutout guidelines for the roller fairlead. Using a metal saw or Dremel, cut out this area on both sides (See figure 18)

- After making the notches in the roller fairlead side wall. Lay the

- Do not bolt the fairlead to the bumper at this time.

- Notch the side nearest to the larger roller



Figure 18



- Roller fairlead is at rest on the bumper.

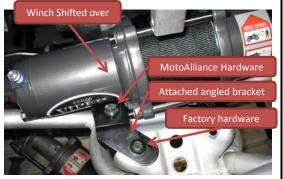
Step 8 - Install Viper Winch

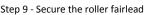
- Position the Viper winch between the bumper and ATV with the mount holes facing the mounting bracket. Be mindful of the radiator clips shown in Figure 20 as you install the winch.

Figure 20

Be mindful of **Radiator Clips**







 Locate the MotoAlliance angled brackets, bolts and nuts, and previously removed hardware that came from the aluminum bumper bracket.

- Shift the winch to one side as seen in Figure 21. Attach the angled bracket to the bumper using the factory hardware. Using the MotoAlliance hardware, attach the bracket to the roller fairlead.

 With one side attached, shift the winch to the other wise and perform the same attachment procedure with the remaining angled bracket and hardware.



- Roller fairlead attached to bumper and winch recentered.

The next section applies only to winches with Synthetic cable, skip to Step 11

Figure 22



Figure 23

Step 10 - <u>Only</u> applies to winches <u>with Synthetic Cable</u> - Install fairlead and winch

- Mount the aluminum hawse fairlead to the universal mountplate included in your winch box. (Figure 23).

- Set the fairlead and mountplate onto the winch mount plate shown in (Figure 23)

- Slide winch between bumper and ATV to rest atop the universal mount plate (Figure 24). Again, be mindful of the plastic clips on the radiator



 Mount the winch to the universal mount plate using the bolts in the winch box. <u>DO NOT tighten the winch bolts at this time</u>.

Figure 24

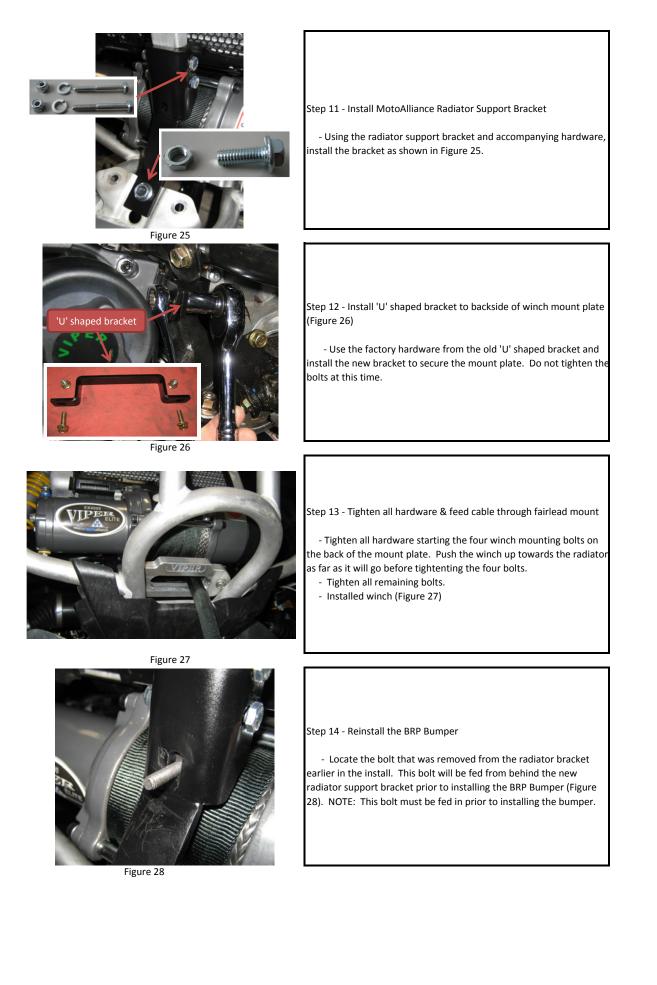




Figure 29

- Reinstall the BRP Bumper, being mindful not to knock the loose bolt in the radiator bracket out of its hole. Reinstall all bolts in reverse order.

Step 15 - Wire winch according the documentation included with winch kit. The following instructions are specific to the vehicle shown and may differ from vehicle to vehicle.

GENERAL WIRING PRINCIPALS

 Read and adhere to all factory documentation prior to beginning and wiring projects

 When running wires, avoid running wires close to moving parts and keep as much distance from the exhaust pipes as possible (ie. run wires on other side of vehicle)

 In general, find the route that the manufacturer runs wires and follow them.

 Incorrectly wiring your winch can result in severe damage or injury.



Step 16 - Attach cables to winch

- After reading through ALL wiring instructions AND adhering to their instruction, wire cables following the color coded scheme. Keep wires tightly bound together, away from moving parts and anything that will become hot (primarily the exhaust system) (Figure 30).

Figure 30



Figure 31

- Follow the original manufacturers wiring to route your cables to the rear of the vehicle where the contactor and battery are located. (Figure 31 & 32)

- The side panels of the ATV pop off in a similar fashion to the panels in the first few steps.





Note wires following manufacturers wiring route.

Figure 32

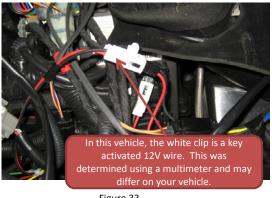


Figure 33



Several layers of electrical tape were used to seal the soldered joint together.

- Mount handle bar switch in a desireable place where it will not be accidentally hit. - Run handle bar switch wires and red wire neatly along the same path as the manufactureres wires prior to installing the red wire.

Step 17 - Mount Handle Bar Switch and connect key power wire

be able to run your winch without the key ON)

- You will notice a red wire at the end of the handle bar switch. This wire is a mandatory safety feature and eliminates the use of the winch without the ATV key being in the ON position. (ie. You won't

- Ensure that the wire chosen to power the red safety wire is indeed a switched power wire. Attach the two terminals of a multimeter to the two wires that are key activated. When the key is off there should be zero (0) volts and when the key is activated there should be approximately twelve (12) volts.

- Once a power wire that is activated when the key is in the ON has been verified attach the red handle bar switch wire. It is best to solder the red wire onto the switched power line and then tightly wind it with electrical tape (Figure 33 & 34)

- Once the key activated power cable has been wired correctly according to the manufacturers instructions, run the cable terminal along the manufacturers wiring route back to the contactor. Secure the cable with zip-ties as needed.

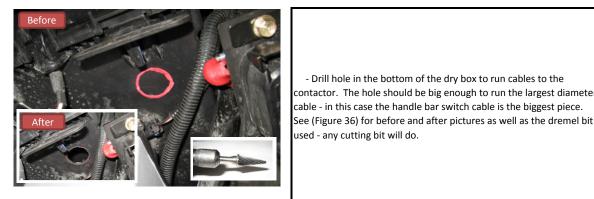
Figure 34 All and D Plastic Flange removed Dry Box

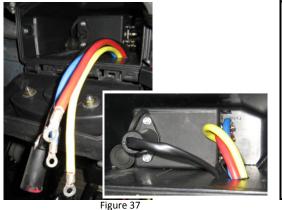
Figure 35

Step 18 - Mount Contactor - Open the built in dry box (Figure 35)

- For simpler contactor installation the plastic divider flange was emoved using a hammer and chisel







- Run all cables through the newly drilled hole and connect them to the contactor using the color coded scheme. Be mindful of the final position and direction of the contactor when determining the order in which you attach each wire. Some trial and error may be needed before getting this step right. See (Figure 37) for wired contactor.

- Drill hole in the bottom of the dry box to run cables to the



Step 19 - Connect power to the contactor

- Remove the black plastic cover shown in (Figure 38)

Figure 38

Figure 39

- At this point the winch should be wired using the color coded wiring scheme, the handle bar switch is mounted and kill switch is correctly wired into a switched power line, all wires are neatly run through the vehicle following the manufactures wiring routes and not touching hot or moving parts, the contactor is wired and all that remains to do electrically is to connect the red and black cables that come from the contactor.

- With the key off, connect the red wire to the positive side of the vehicles starter solonoid. Verify this using a multimeter, connect the negative side of the multimeter to the negative battery terminal and the positive wire to both sides of the starter solonoid, whichever has a positive 12V is the side to wire the positve cable to.

