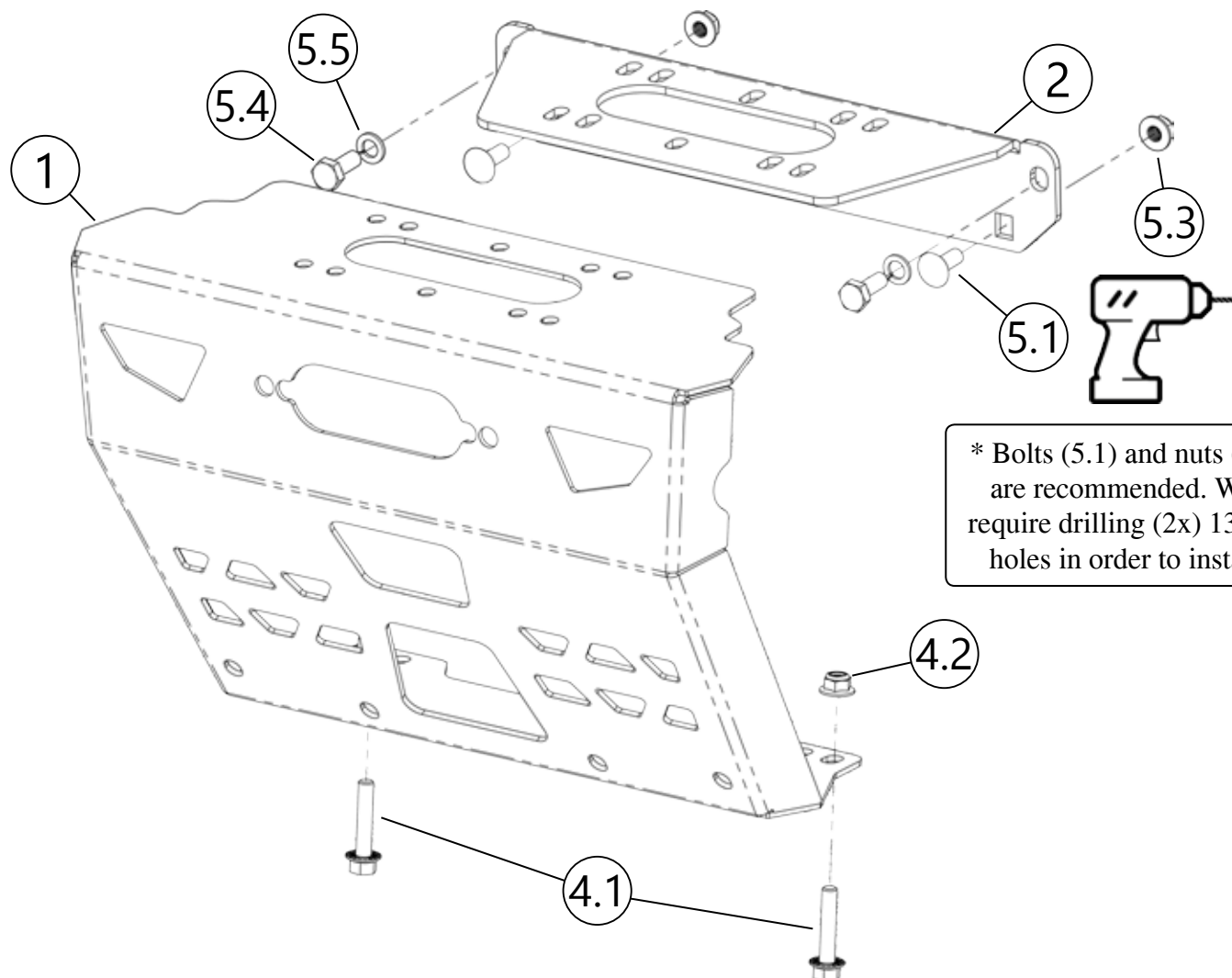


# RANGER / BOBCAT WINCH BUMPER

Winch Mount

PART #101830



\* Bolts (5.1) and nuts (5.3) are recommended. Will require drilling (2x) 13/32\"/>

Item #	Qty.	Description
1	1	Fairlead Bumper
2	1	Winch Mount
3	1	HK-031 (See Figure 13)
4	1	Hardware Kit (HK-354)
4.1	2	3/8\"-16 x 1.75\" Hex Flange Bolt
4.2	2	3/8\"-16 Hex Flange Nylock Nut

Item #	Qty.	Description
5	1	Hardware Kit (HK-339)
5.1*	2	3/8\"-16 x 1.00\" Carriage Bolt
5.2	2	3/8\"-16 x 1.00\" Hex Flange Bolt
5.3*	4	3/8\"-16 Hex Flange Nylock Nut
5.4	2	M10-1.50 x 25 Hex Bolt
5.5	2	M10 Lock Washer

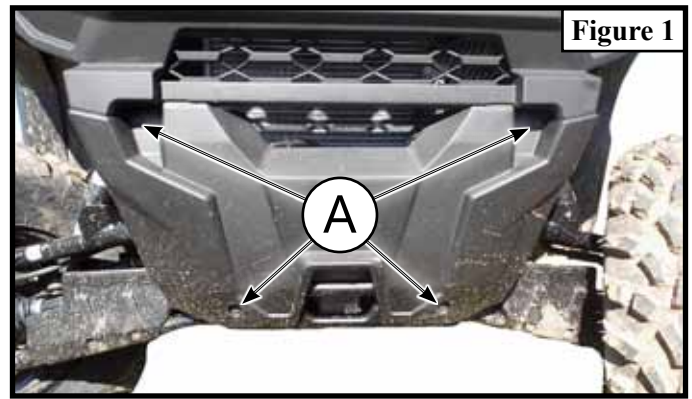
\* Hardware not required but recommended for this mount.



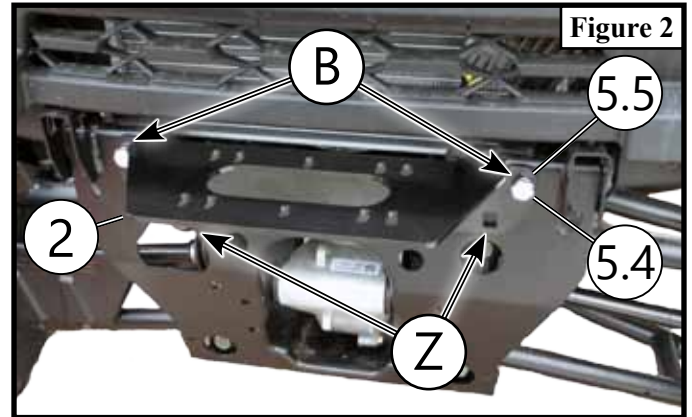
# INSTALLATION INSTRUCTIONS

**Note:** Make sure all hardware needed to complete this mount is in the package. Thoroughly read through and understand the instructions before installing.

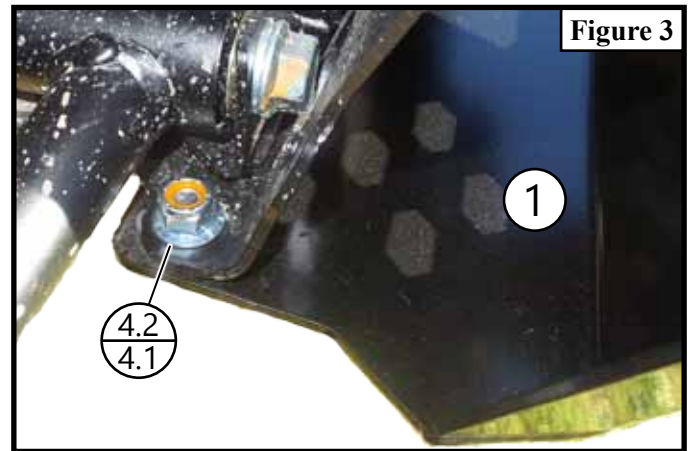
1. Remove the front plastic bumper by removing (4X) OEM torx bolts (A) as shown in **Figure 1**.
2. Install winch mount (2) using bolts (5.4) and lock washers (5.5) in holes (B) as shown in **Figure 2**. Tighten hardware evenly. ***\*Recommended\*:** Drill holes (13/32" bit) for extra bolts to be installed. (5.1 & 5.3) are included in HK-339. See (Z) in Figure 2.*
3. Place top flange of the fairlead bumper (Item 1) on top of winch mount (Item 2) as shown in **Figure 5**. Line up bottom holes in the fairlead bumper (1) to the holes found on the bottom of the machine. Loosely install bolts (4.1) and nuts (4.2) making sure the nut is on the top side. Do not tighten yet. See **Figure 3**.
4. For a 2-Hole mounted winch, use holes (B). For standard 4-Hole winches, use holes (C). For wide 4-Hole winches, use holes (D) as shown in **Figure 4**.
5. Loosely attach the winch upside down to winch mount and fairlead bumper using the hardware supplied with the winch. Make sure the cable is spooling off of the top (between the spool and the winch mount) as shown in **Figure 5**.



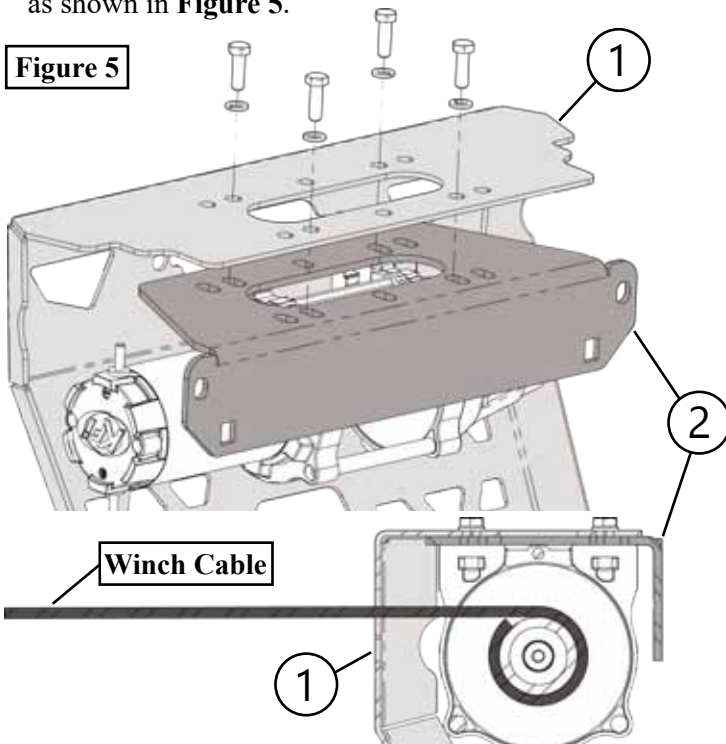
**Figure 1**



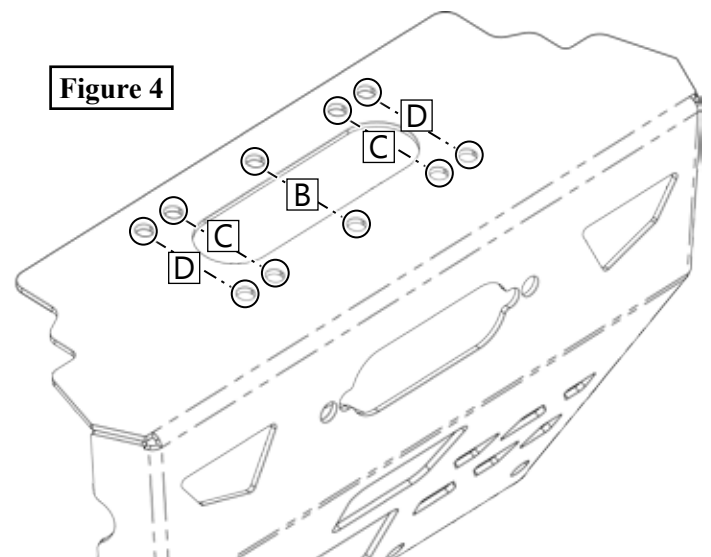
**Figure 2**



**Figure 3**



**Figure 5**



**Figure 4**

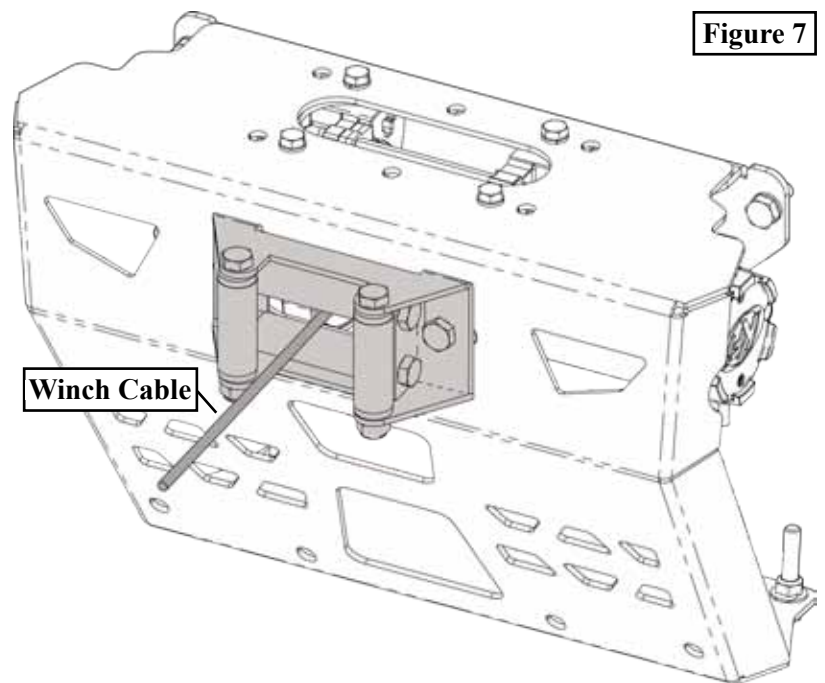
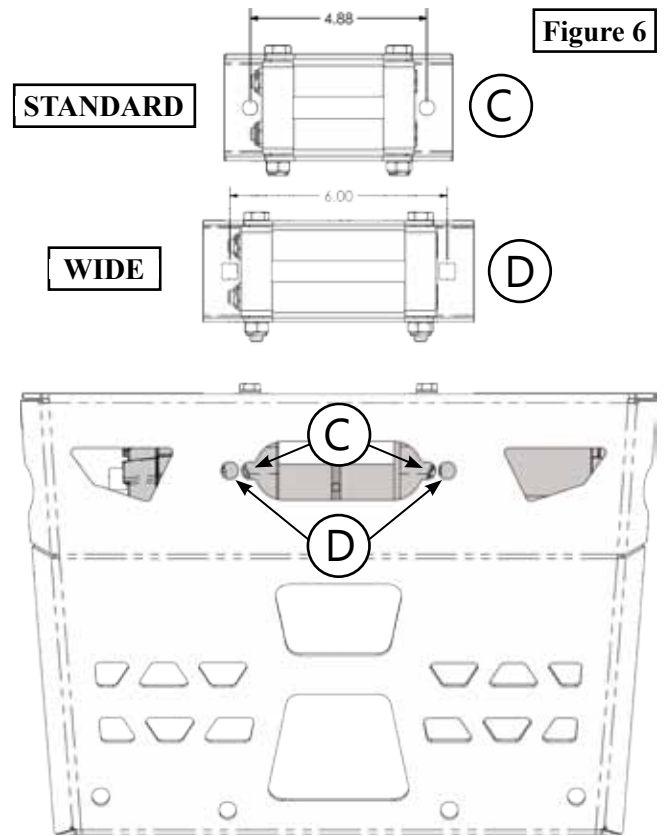
6. Tighten hardware from steps 3 & 5.

**Note:** If the winch terminals contact or come close to contacting the machine, you may need to rotate the motor end cap.

7. Align fairlead holes with holes on the fairlead bumper. See **Figure 6** for determining which fairlead holes to use.

**Note:** If the fairlead supplied with the winch does not match bolt pattern shown in **Figure 6**, one will need to be purchased that does.

8. Install fairlead to fairlead bumper using bolts and nuts supplied with the winch. Be sure winch cable or rope is ran through fairlead and did not get bolted between fairlead bumper and fairlead. See **Figure 7**.
9. Double check all hardware is tight and rope or cable moves freely.
10. Bobcat model will require trimming of the plastic grill in order to install.





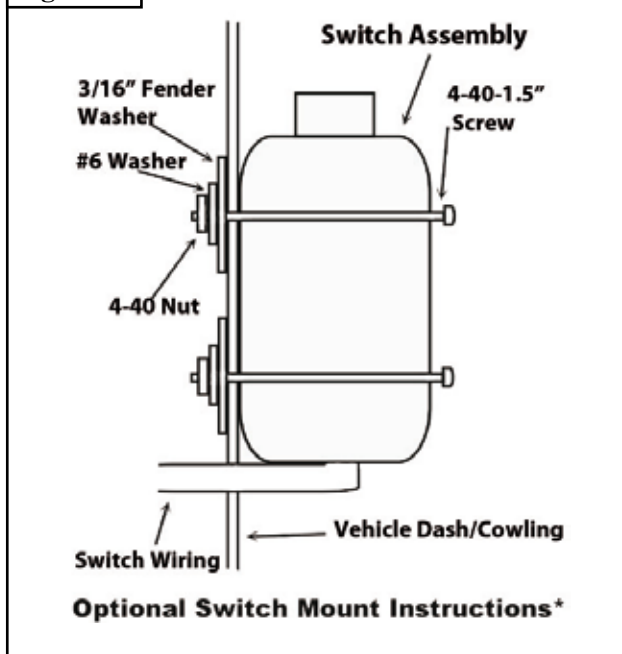
# WIRING INSTRUCTIONS

1. Under the hood you will find the contactor location with holes pre-drilled shown in Figure 10.
2. Run the red positive (+) battery wire from the contactor to the positive (+) post on the pulse bar. Run the black ground wire (-) from the contactor to the ground (-) post on the pulse bar shown in Figures 10 & 11.
3. In the center console of the ranger, there are pre-notched holes for the dash rocker switch to mount as shown in Figure 12.

**Note:** If your winch only comes with a handbar mounted rocker switch and wish to install it in the dash, assemble per **Figure 13** using hardware kit HK-031 (3).

4. Attach the ignition fed wire (RED) from your switch to the orange and white wire (H) shown in Figure 10 & 11.
5. For more details on wiring the winch see your winch manual.

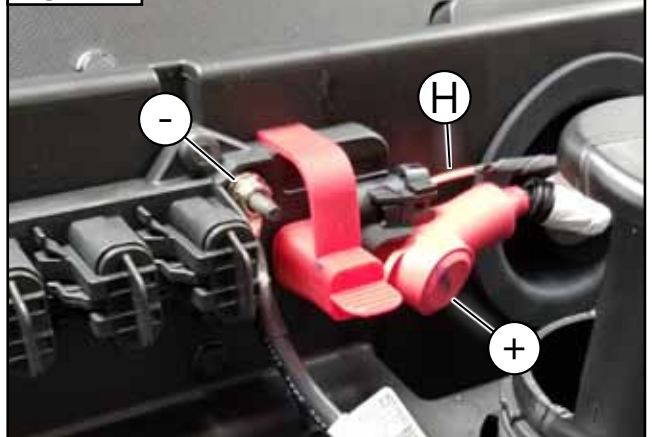
**Figure 13**



**Figure 10**



**Figure 11**



**Figure 12**

