



APPENDIX B — POWER WAGON WINCH INSTALLATION

Requires Power Wagon Winch Mounting Kit (PN: 10305134AA)

ROTATE THE GEAR HOUSING

1. Remove the Power Wagon winch mount bracket.
2. Remove the winch hook (if installed).
3. Unplug and remove the winch remote connector from the winch mount (fig. 1).
4. Remove the four (4) bolts holding the winch mount bracket to the winch and save the hardware.
5. Remove the P-clips holding the winch wiring to the winch (fig. 2).



Figure 1

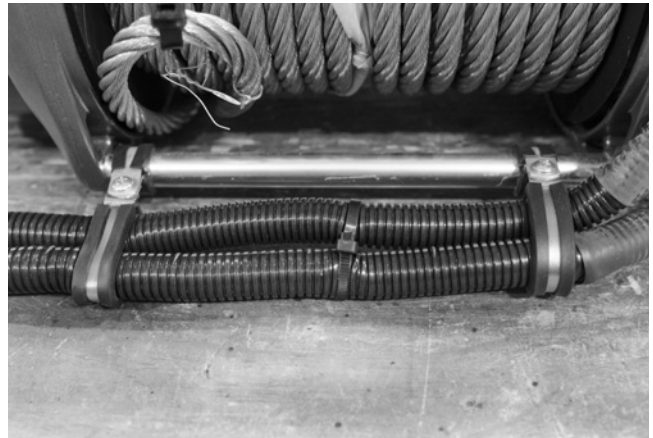


Figure 2

6. Disconnect the solenoid pack wiring from the winch motor (fig. 3).
7. Remove the winch solenoid pack from the winch by removing the two worm gear clamps (fig. 4).

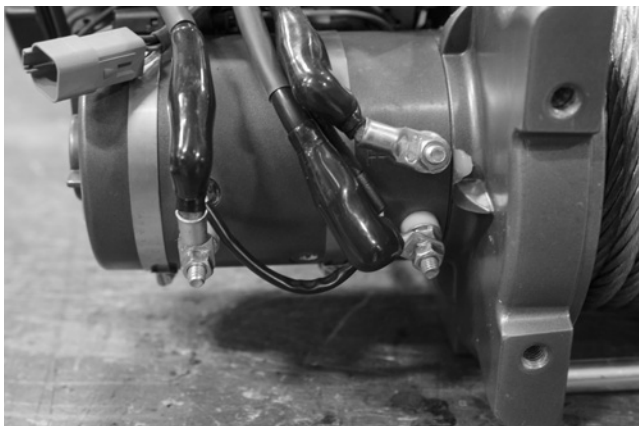


Figure 3



Figure 4



8. Place the winch upside down. This will be the new orientation in the bumper (fig. 5).
9. Remove the bolts holding the drum assembly and carefully remove the housing (fig. 6).

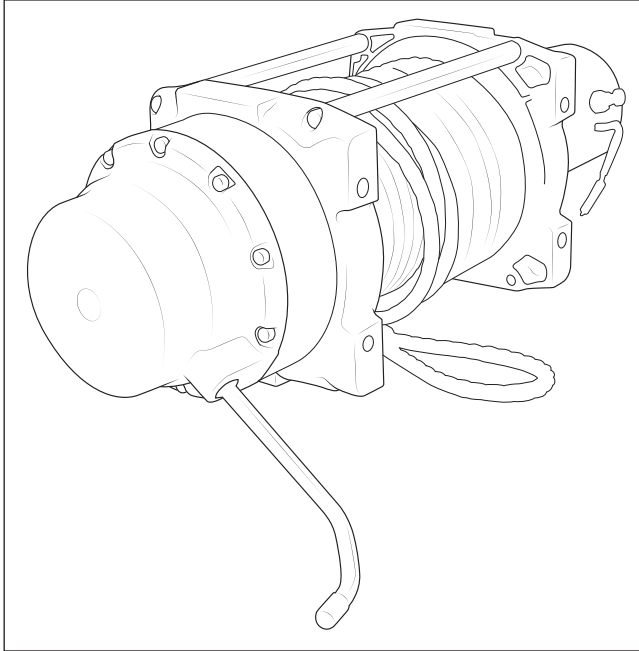


Figure 5

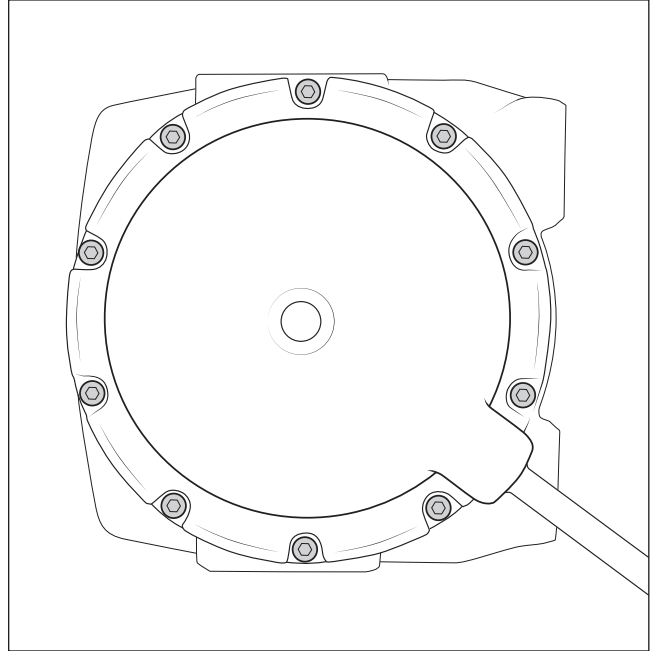


Figure 6

10. Separate both pieces of the planetary gear housing (fig. 7).
11. Place the planetary housing in the orientation shown (fig. 8). **Note: This will keep the detent ball and spring from falling out.**

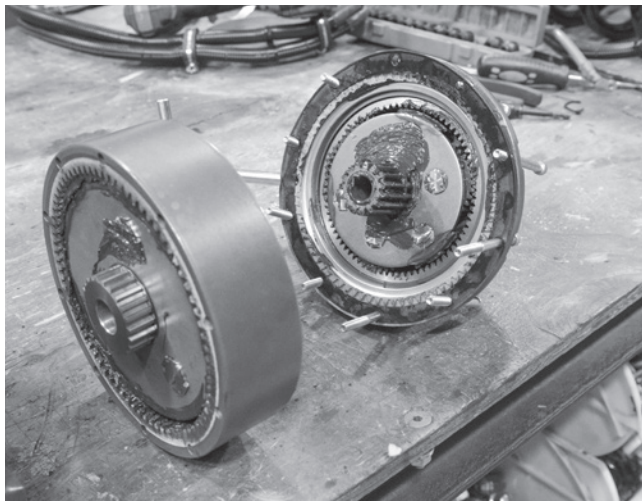


Figure 7

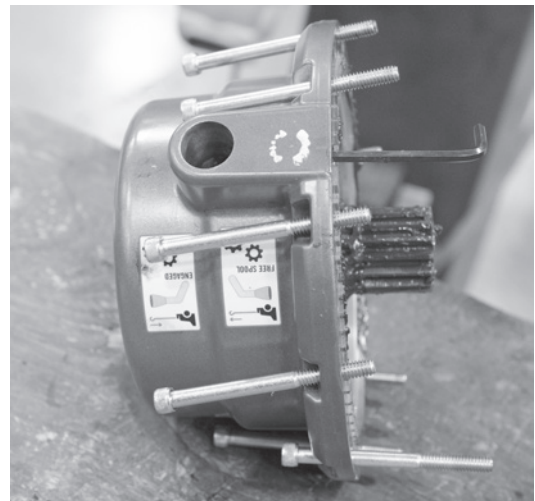


Figure 8



12. Remove the gasket to reveal the set screw that retains the engagement lever (fig. 9).
13. Using a 5/32" Hex Key, remove the set screw.
14. Remove the engagement lever. **NOTE: BE CAREFUL NOT TO LOSE THE DETENT BALL AND SPRING WHILE PULLING THE LEVER OUT.**
15. Remove the O-ring from the old engagement lever and install it on the new lever.
16. Install the new engagement lever into the housing. Refer to image for lever orientation (fig. 10).
17. Install the detent ball followed by the spring into the set screw hole—if removed—(fig. 10).
18. Install the set screw. **Note: Do not over tighten. Once the set screw is snug, check for proper lever movement and adjust as needed.**

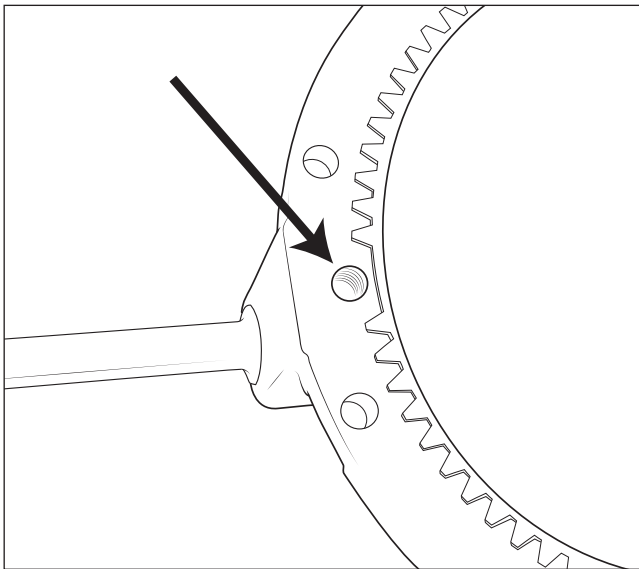


Figure 9

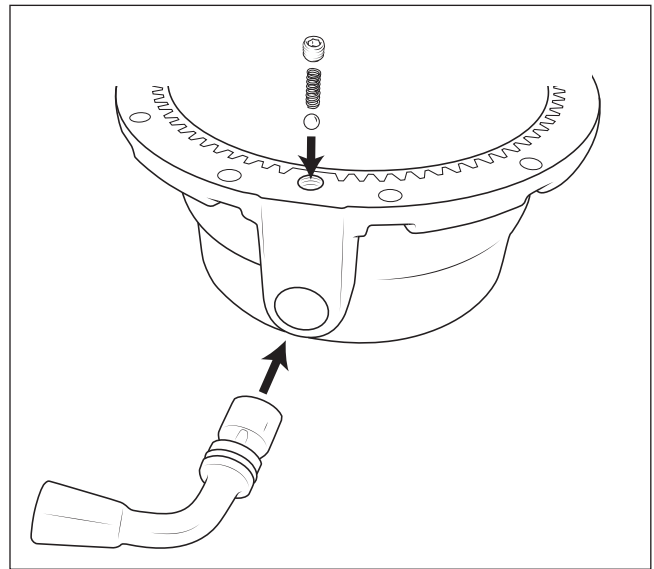
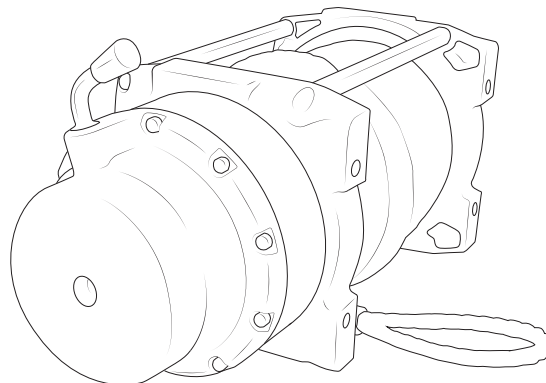


Figure 10

19. Set the engagement lever to the engaged position.
20. Use the new supplied gaskets and reassemble the housing in its new position. Install the motor rod into the drum assembly first, then install the drum assembly to the winch. **Note: Do not draw the bolts in to seat the drum. Make sure the drum fits with no gaps before tightening the bolts. Torque to 80 in-lbs.**





ROTATE THE WINCH MOTOR

1. Remove the two (2) bolts holding the winch motor (fig. 11). **DO NOT SLIDE THE WINCH MOTOR BACK MORE THAN 3/8" OR THE BRUSHES WILL UNSEAT.**
2. Slide the winch motor back **NOT MORE THAN 3/8"** (fig. 12).

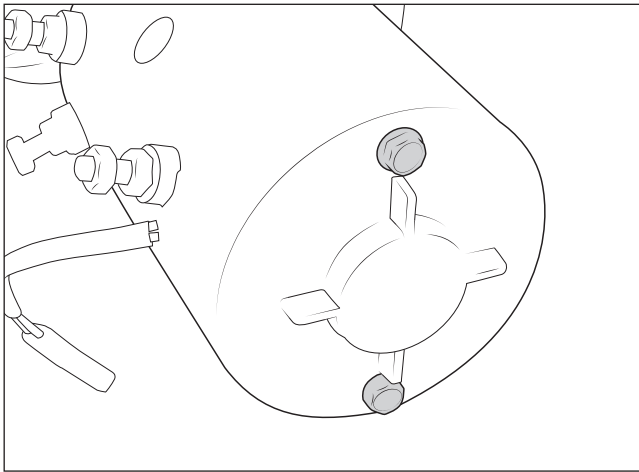


Figure 11

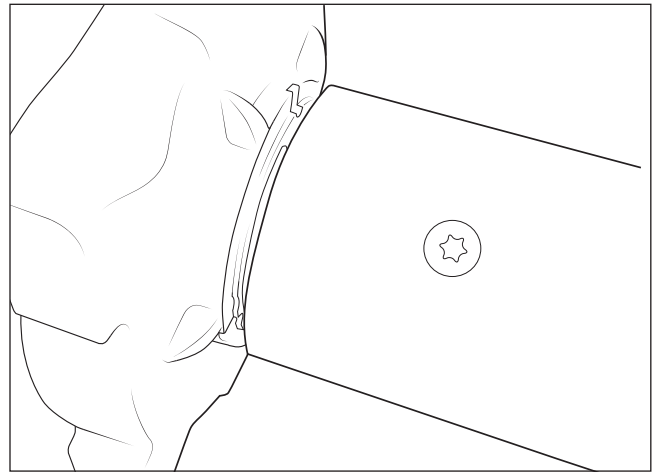


Figure 12

3. Clean the silicone out of the mating surface. Be careful not to tear the gasket (fig. 13).
4. Rotate the motor 180°, align the dowel pin with the hole, and slide it back forward (fig. 14).

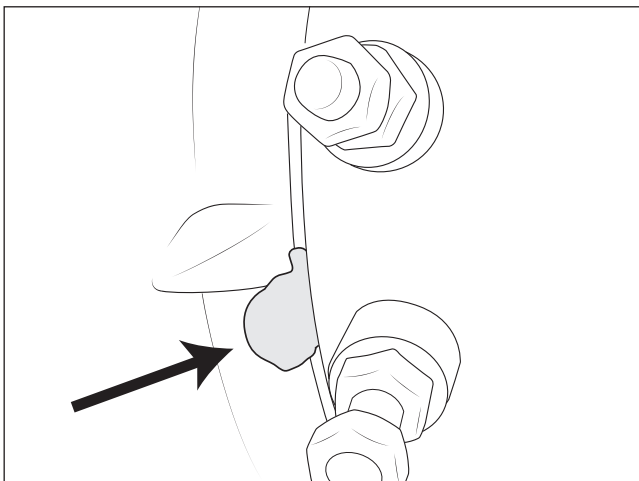


Figure 13

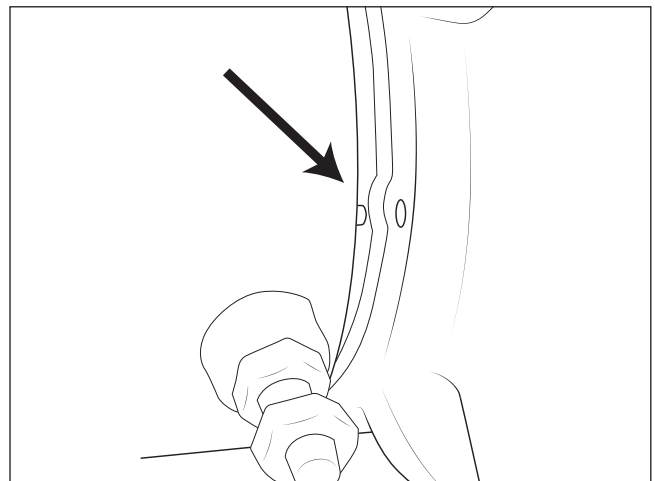


Figure 14



5. Re-install the bolts and tighten to 40 in-lbs.
6. Plug the upper two (2) slots where the winch motor meets the winch with silicone (fig. 15).

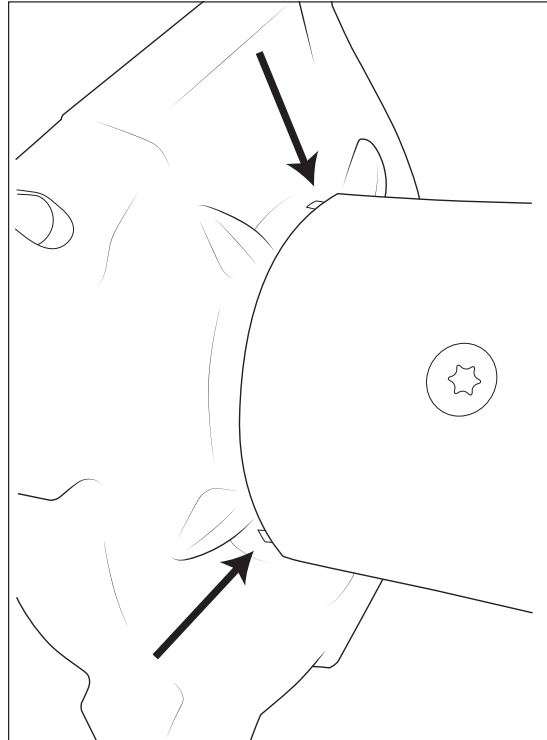


Figure 15

7. The instruction and warning labels on the winch will now be upside down. Remove these and replace with the supplied labels in the proper orientation (fig. 16).



Figure 16



MODIFY THE SOLENOID PACK.

1. Remove the solenoid pack cover (fig. 17).
2. Remove the plastic rivets holding the small box to the side of the solenoid pack (fig. 18).

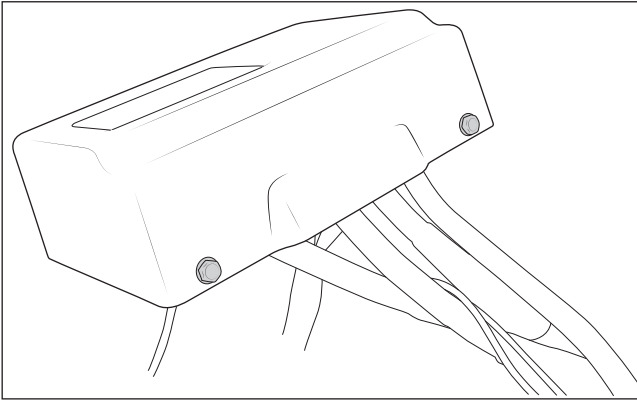


Figure 17

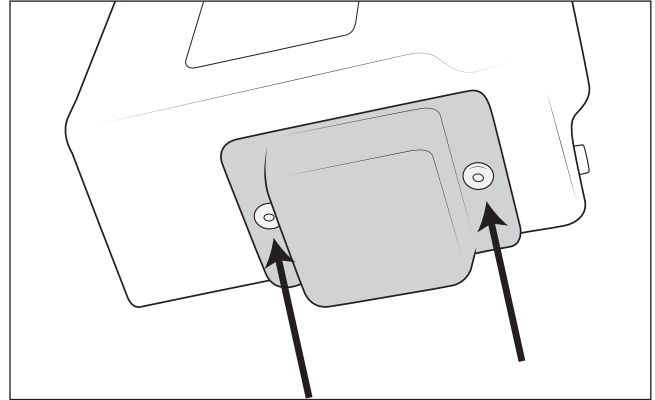


Figure 18

3. Bolt the solenoid pack to the new AEV bracket with the supplied m6 x 20 bolts, nuts, and washers. Install the bolts in the direction shown—through the bracket into the solenoid pack (fig. 19).
4. Insert the new m6 x 20 bolts and washers through the solenoid bracket, then re-install the solenoid pack cover (fig. 20).

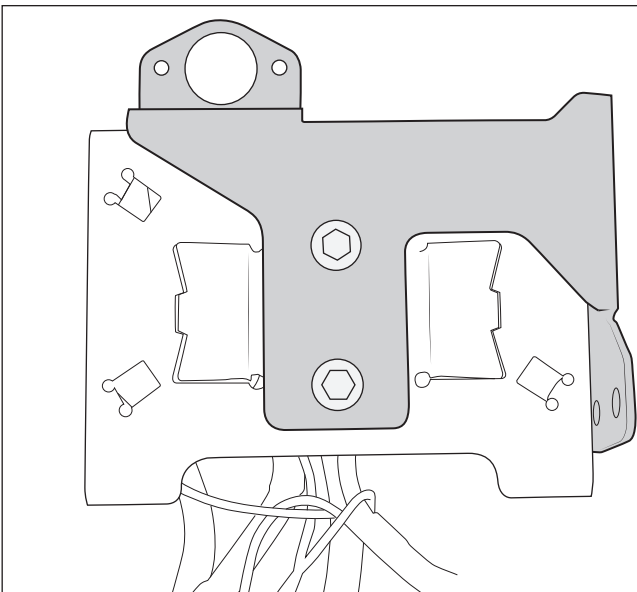


Figure 19

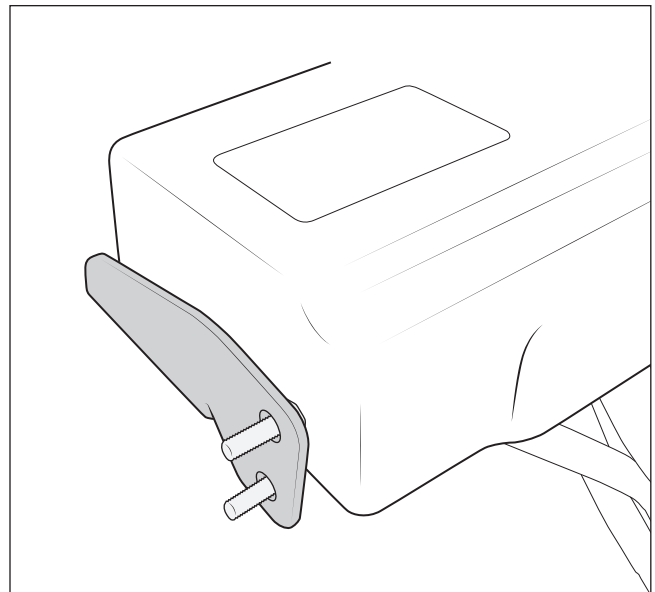


Figure 20



5. Attach the small box to the bottom of the solenoid pack with the supplied double sided adhesive. Be sure to clean and prep the surface with alcohol (fig. 21).
6. Install the winch remote plug into the AEV bracket with the supplied hardware and reconnect to the winch (fig. 22).

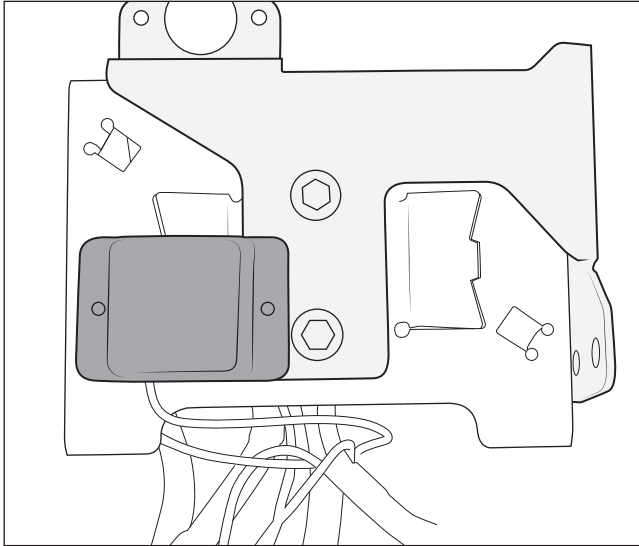


Figure 21

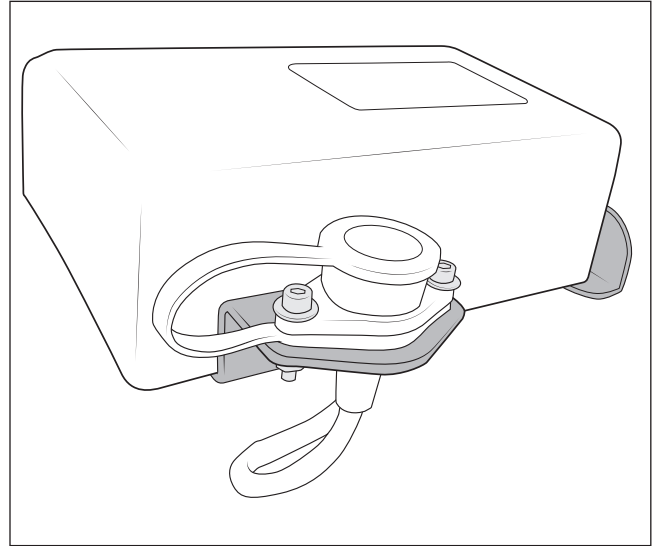


Figure 22

7. Lay the solenoid pack on the winch motor with the remote plug facing forward.
8. Re-attach the wiring to the winch. **NOTE: The winch wires and motor are labeled F1, F2, and A.**
9. Place the winch assembly into the bumper center section. Secure through the front using the factory hardware. Note: You will need to remove the side rollers from the fairlead for access (fig. 23).
10. Attach the solenoid pack to the bumper using the supplied hardware (fig. 24). NOTE: You may need to adjust the solenoid pack on the bracket to fit between the winch and the bumper.

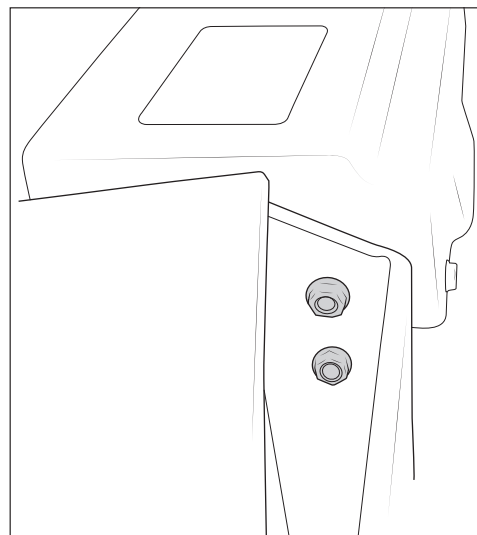


Figure 24

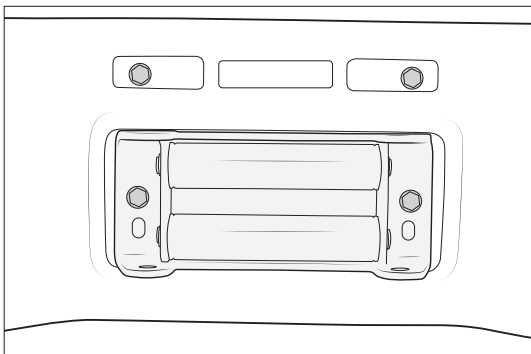


Figure 23