



BISON WINCH KIT

FOR COME UP WINCH

AEV30330AA

Last Updated: 03/01/19

INSTALLATION GUIDE



PLEASE READ BEFORE YOU START

To guarantee a quality installation, we recommend reading these instructions thoroughly before beginning any work. These instructions assume a certain amount of mechanical ability and are not written nor intended for someone not familiar with auto repair.

INCLUDED PARTS	QTY	REQUIRED TOOLS
Bison Winch Fairlead	1	Common Hand Tools
Controller Mount Bracket	1	
Wiring Harness	1	
Ground Cable	1	
Hardware Pack	1	



I. DISASSEMBLY

1. Disconnect and isolate the negative battery cable.
2. Remove Front Bumper Skid.
 - A. Remove the 4 M4 torx screws attaching the license plate bracket (fig. 1).
 - B. Remove the 2 M10 bolts in middle of Front Bumper Skid (fig. 2).
 - C. Remove the 2 torx bolts from bottom of Front Bumper Skid (fig. 2).

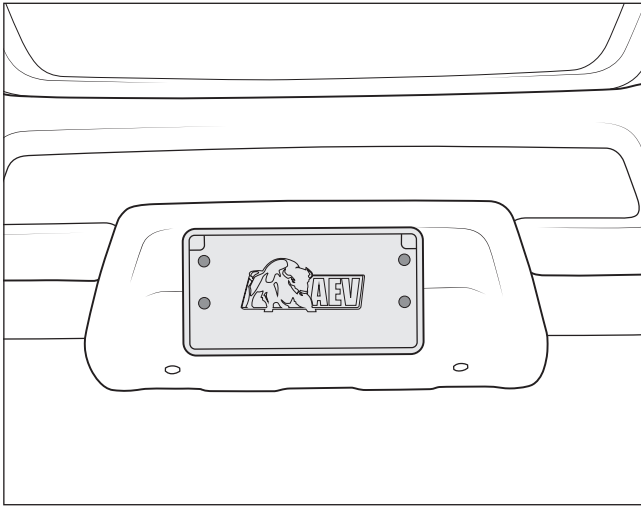


Figure 1

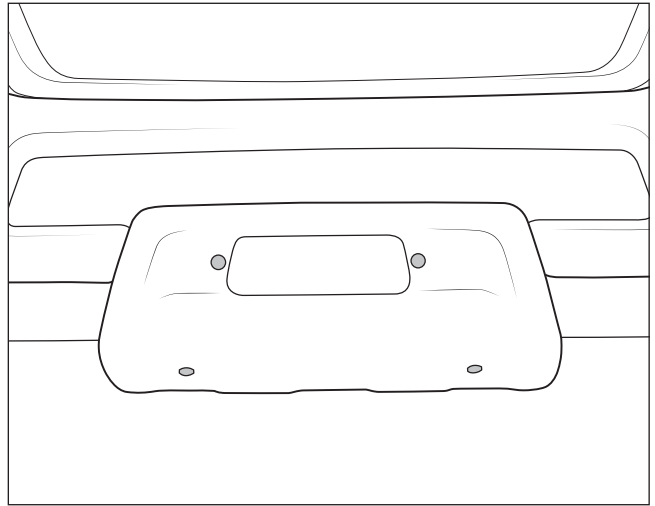


Figure 2

3. Remove Skid 1B by removing the 6 bolts (fig.3).

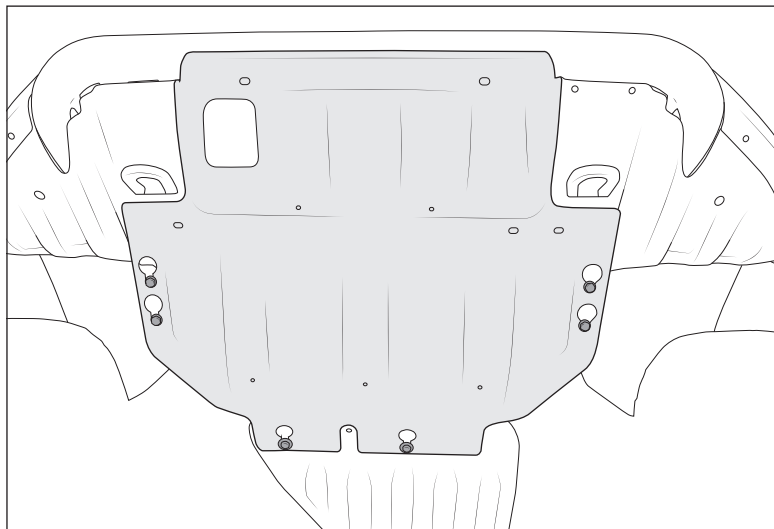


Figure 3



4. Remove the 6 M10 torx bolts attaching the center section of bumper (fig. 4).
5. Remove the 12 push clips attaching the air diverter (fig. 5).

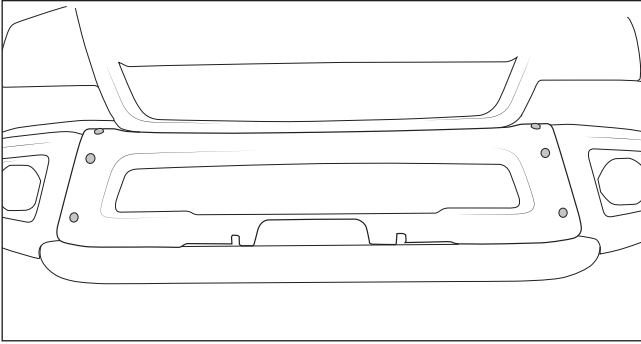


Figure 4

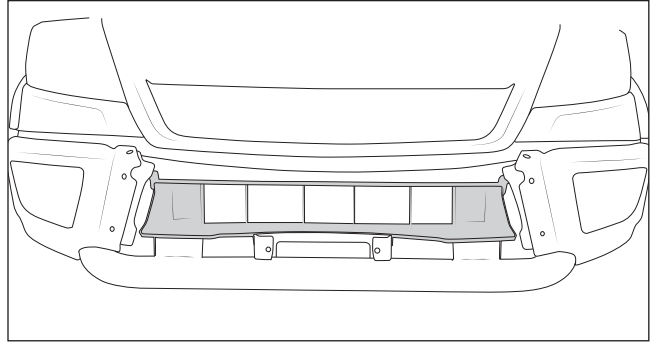


Figure 5

6. Remove LH and RH wheel liner closeouts (fig.6).

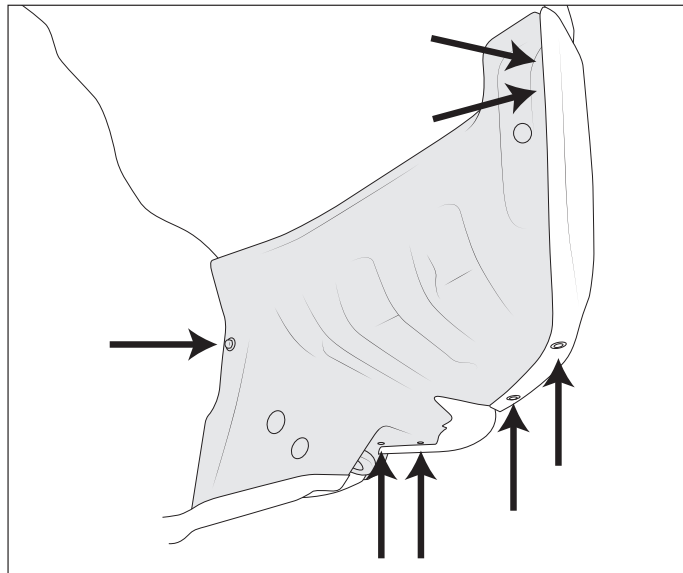


Figure 6

7. Remove Cage nuts in bumper for winch fairlead (fig. 7).

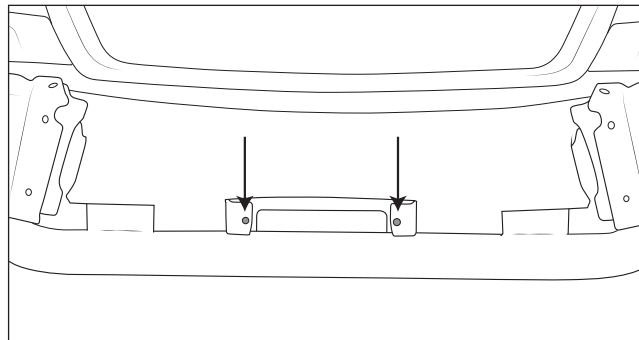


Figure 7



8. Remove 1 M10 bolt on radiator support and SAVE (fig. 8).
9. Remove 1 M6 bolt on radiator support and SAVE (fig. 8).
10. Un-clip radiator overflow hose (fig. 8).

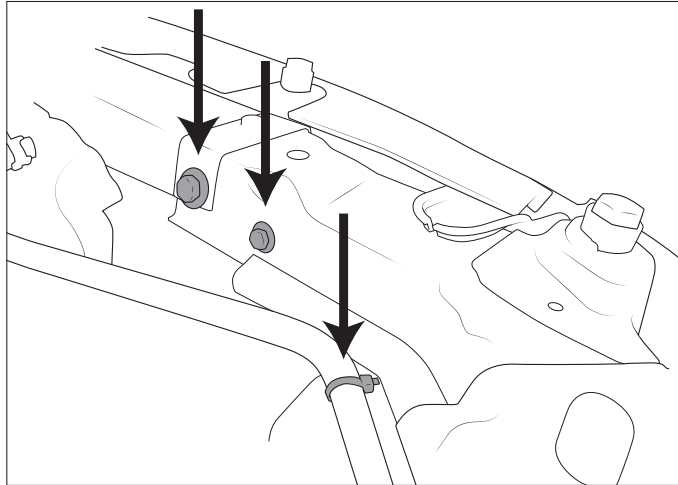


Figure 8

II. ASSEMBLY

1. Assemble Come Up controller onto the AEV Controller Bracket with existing screws (fig. 9).

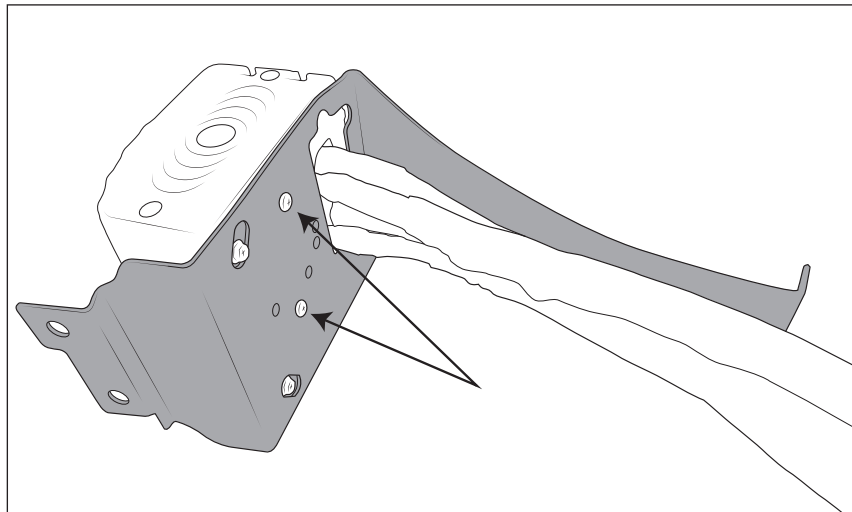


Figure 9



2. Lay the assembly into the engine bay to start routing the wire looms.
3. Route the mesh covered loom through the opening near the horn toward the underside of the vehicle (fig. 10).

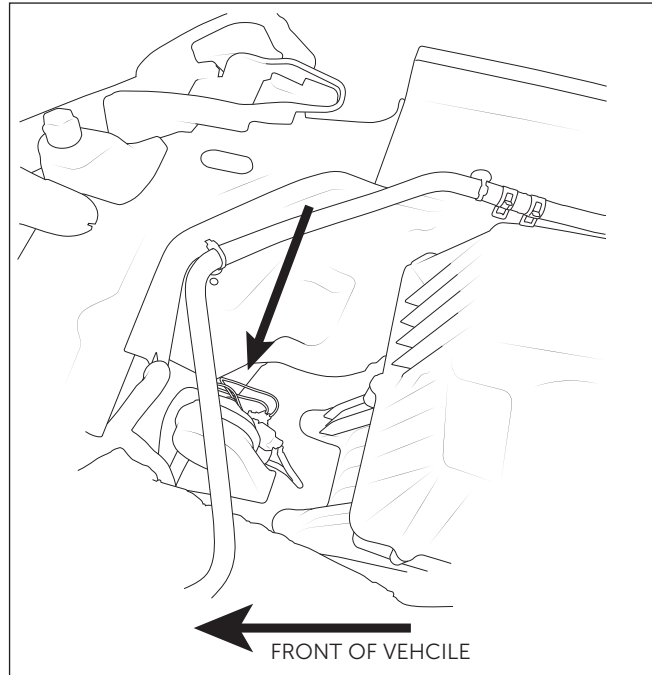


Figure 10

4. Position the controller bracket in place and loosely install the radiator support bolts removed earlier (fig. 11).

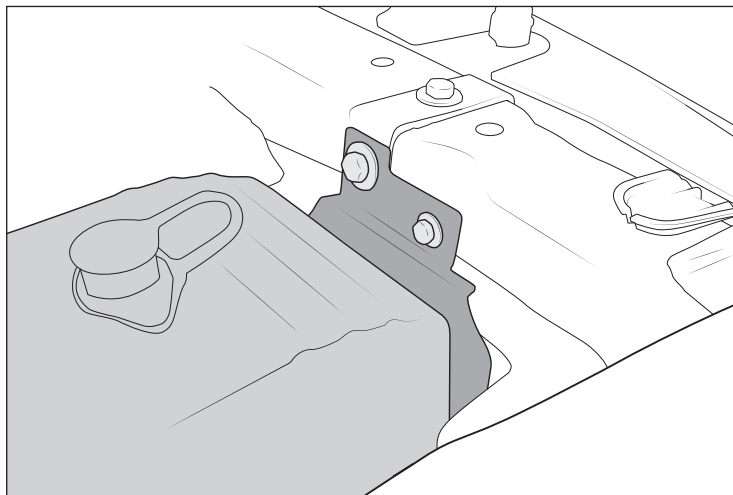


Figure 11



5. Install supplied bolt through the tab at the bottom of the bracket into the existing hole shown (fig. 12).

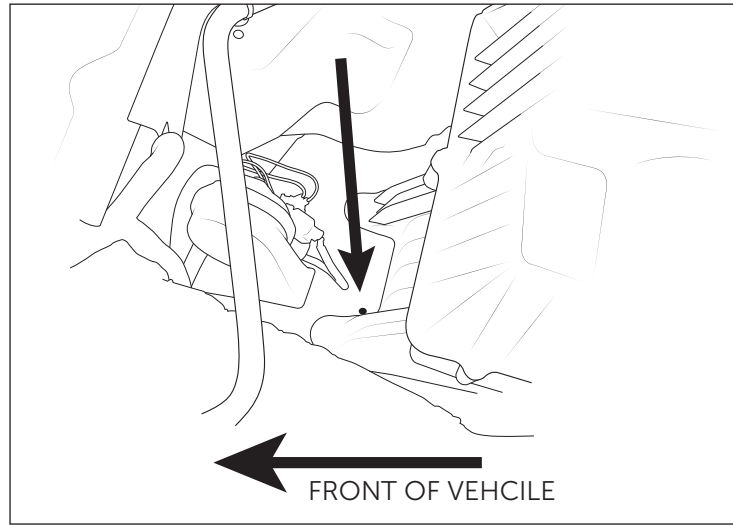


Figure 12

6. Run the wiring loom over the radiator overflow hose and across the front of the vehicle. Detach the radiator supports to run the loom underneath as shown (fig. 13) then reinstall fasteners.

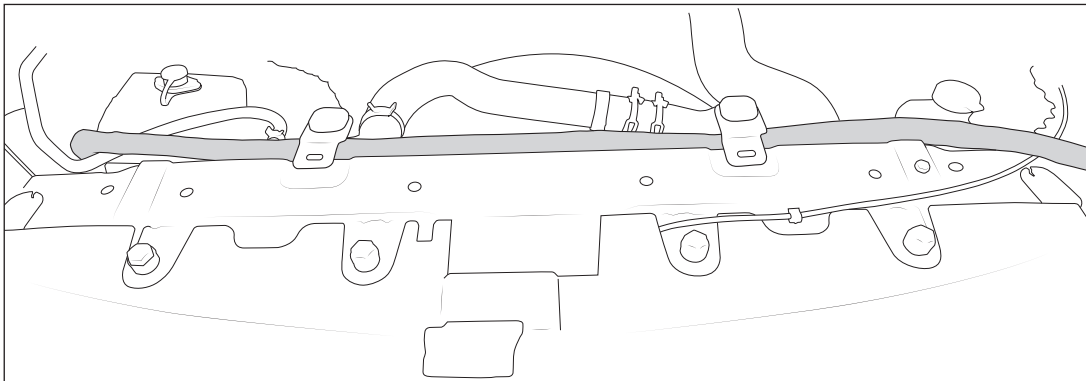


Figure 13

7. Rout the other end of the harness through the bottom of the engine bay (fig. 14)

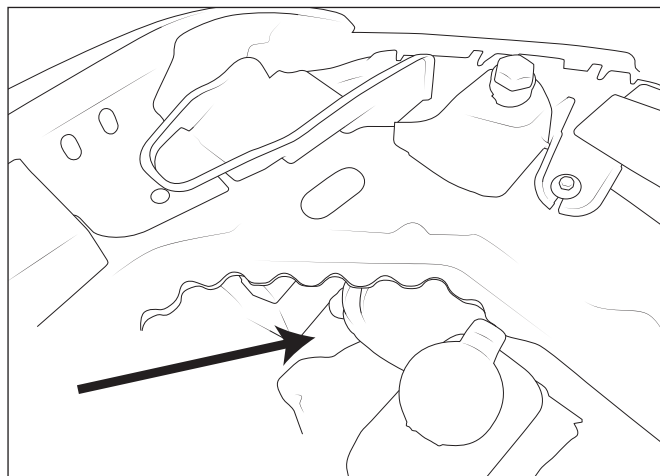


Figure 14



8. Attach ground from the main harness to the ground stud. Attach the supplied ground cable to the ground stud, routing the other end toward the battery. (fig. 15).

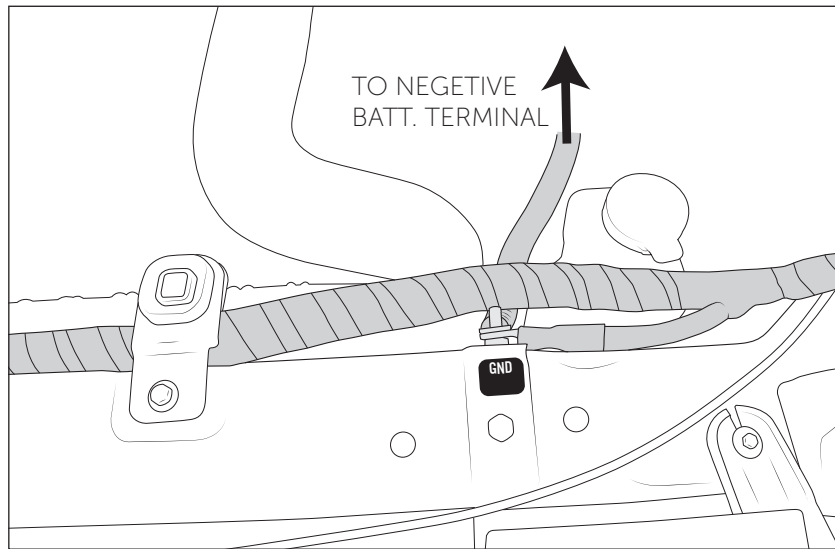


Figure 15

9. Rout the positive battery lead to the battery. **DO NOT** hook up at this time.
10. Install winch body (fig. 16).
- A. Start bottom 2 winch bolts.
 - B. Start top winch bolts.
 - C. Tighten bottom bolts.
 - D. Remove top winch bolts for now.

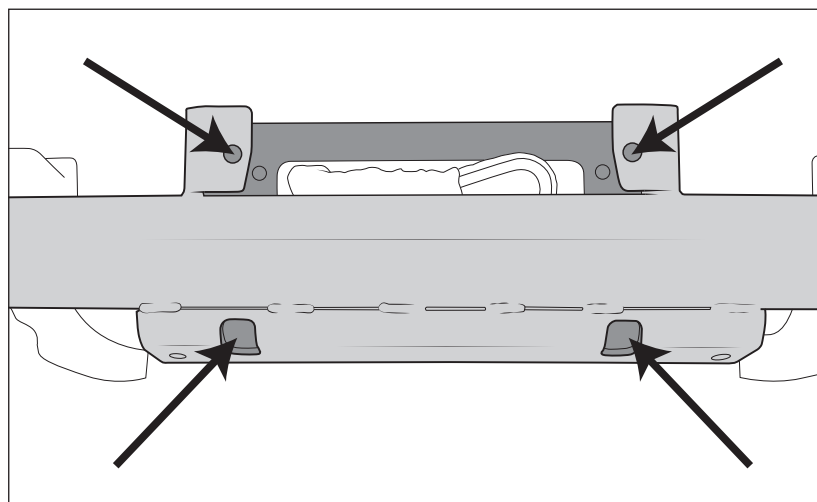


Figure 16



11. Connect wiring to winch.

- A. Feed wire looms into winch cavity as shown (fig. 17). Leave service loop at pencil braces to allow for body movement.

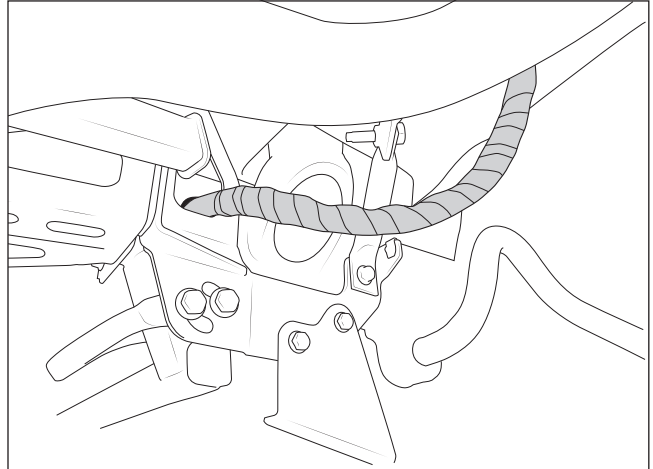
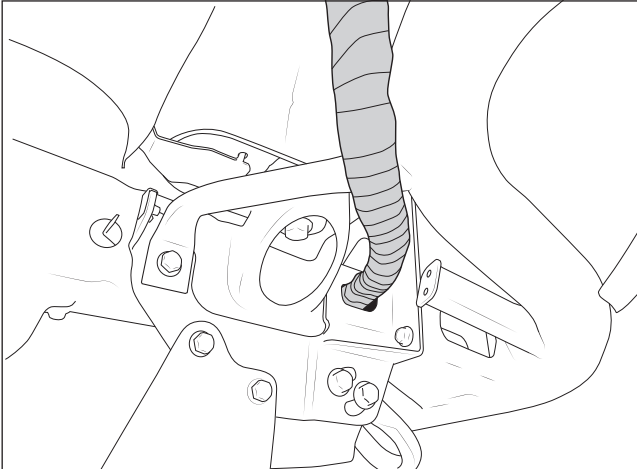


Figure 17

- B. Attach main wires matching colors.
- C. Attach ground wire.
- D. Connect Plug.

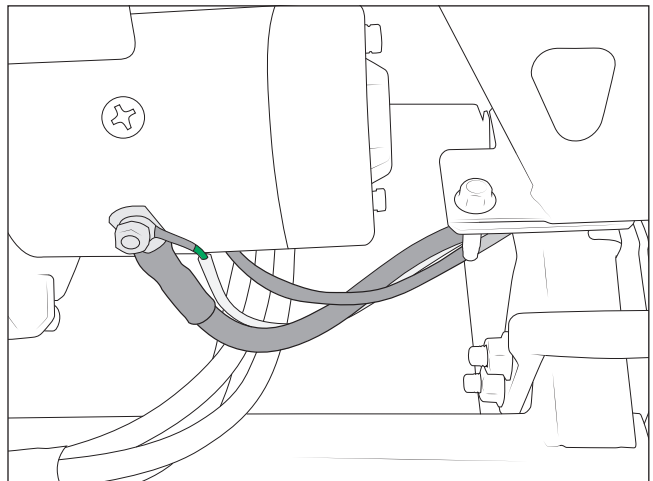
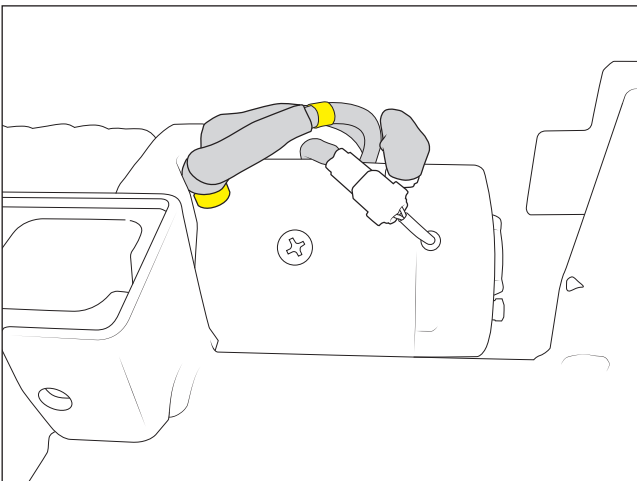


Figure 18



12. Secure wire loom with zip ties (fig 19).

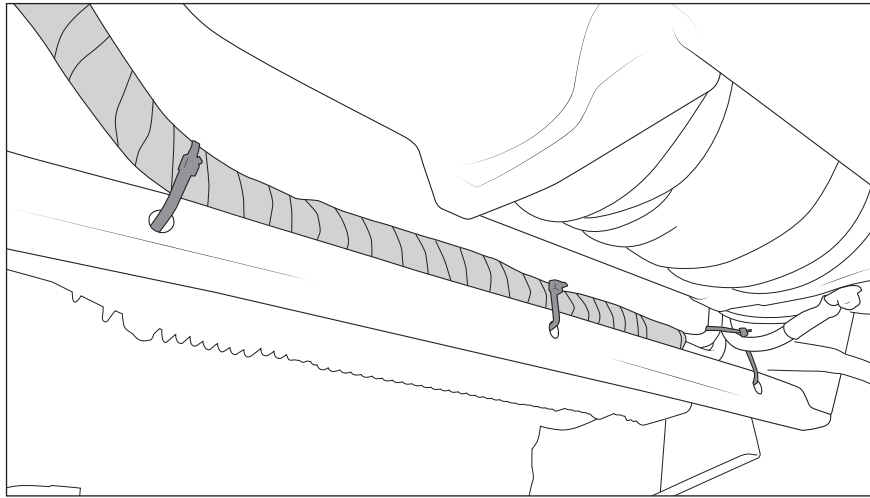


Figure 19

13. Run the winch cable through the Bison fairlead and drop into place (fig. 20).

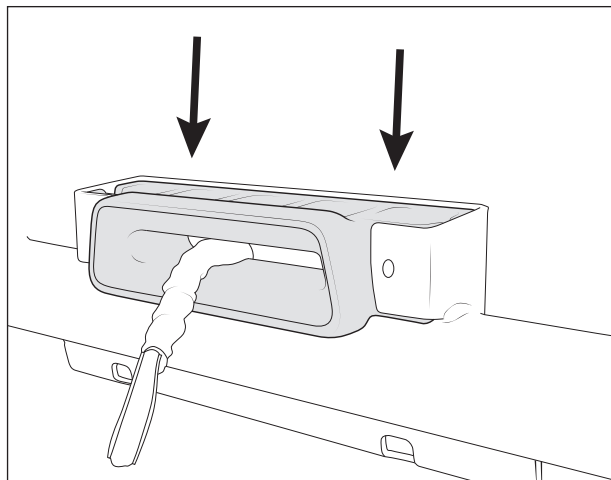


Figure 20

14. Trimming the air diverter (fig. 21).

- A. Using scribe line and template (AEV30342) cut air diverter for handle and spool
- B. Reinstall air diverter with 12 clips

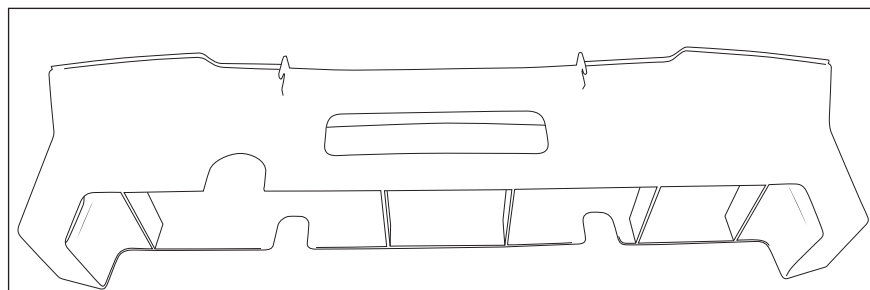


Figure 21



15. Reinstall Center section of bumper
16. Reinstall Wheel Liner Closeouts
17. Reinstall Skid 1B (fig. 3).
18. Reinstall Front Bumper Skid (fig. 2).
19. To mount a front license plate there are two options.
 - A. Follow drilling template AEV30343AA to mount license plate over fairlead. (fig. 22A).
 - B. Follow drilling template AEV30343AB to mount license plate curved under fairlead (fig. 22B).

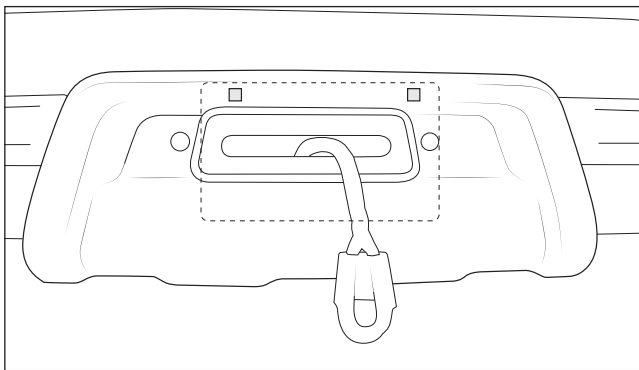


Figure 22A

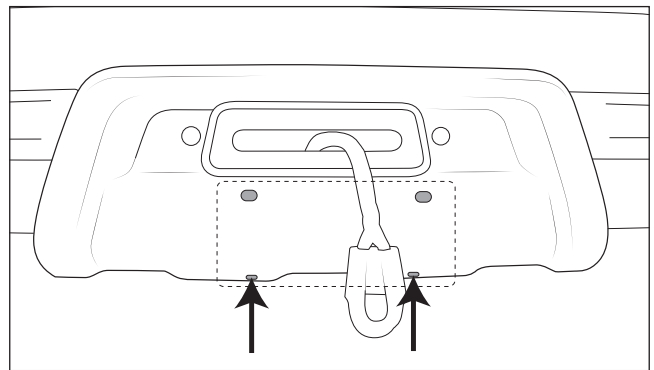


Figure 22B

20. Install winch hook per manufacturers recommendations
21. Trim the battery box and lid to make space for the positive winch connection (fig. 23).

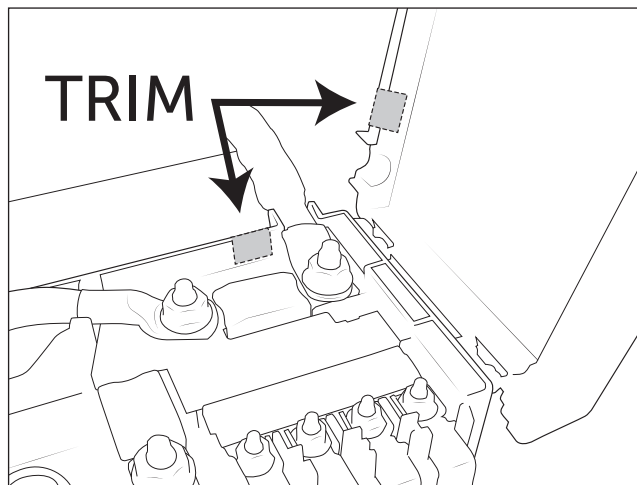


Figure 23



- 22. Attached positive line to battery.
- 23. Attach negative line (fig. 24).

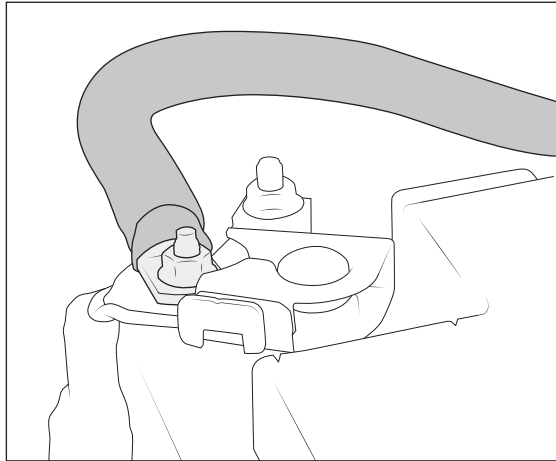


Figure 24

- 24. Spool winch according to manufacturers recommendations