



Winch Installation Kit

2024+ Silverado HD / Sierra HD

COMEUP SOLO 12.5RS



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
Comeup Solo 12.5rs kit	1	1/8" Drill Bit
AEV Winch Installation Kit	1	14mm or 17/32" Drill Bit
AEV Universal Fairlead (optional)	1	Rivnut tool
		De-burring Tool
		Soft foam/microfiber cloth
		Torque wrench
		Socket Assortment
		Common Hand Tools



CHAPTER LIST

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I. KIT CONTENTS

a. COMEUP SOLO 12.5rs (16060024AA)

1. COMEUP SOLO 12.5rs WINCH
2. COMEUP WINCH MODULE & HARNESS (WITH GROUND)
3. WINCH RECOVERY HOOK & FLAG
4. WIRELESS WINCH REMOTE
5. WIRED WINCH REMOTE
6. INSTALLATION MOUNTS
7. COMEUP HAWSE FAIRLEAD
8. WINCH MOUNTING HARDWARE
9. WINCH MODULE MOUNTING HARDWARE
10. HAWSE FAIRLEAD MOUNTING HARDWARE
11. 350 AMP MEGAFUSE



Figure 1



b. AEV WINCH INSTALLATION KIT (16060020AA)

1. LICENSE PLATE FAIRLEAD BRACKET
2. LICENSE PLATE BACKING PLATE
3. WINCH MODULE MOUNTING BRACKET
4. WINCH POWER & WIRED REMOTE PLUG MOUNTING BRACKET
5. RECOVERY HOOK INSULATOR
6. ELECTRONICS HARDWARE KIT
7. INSTALLATION HARDWARE KIT

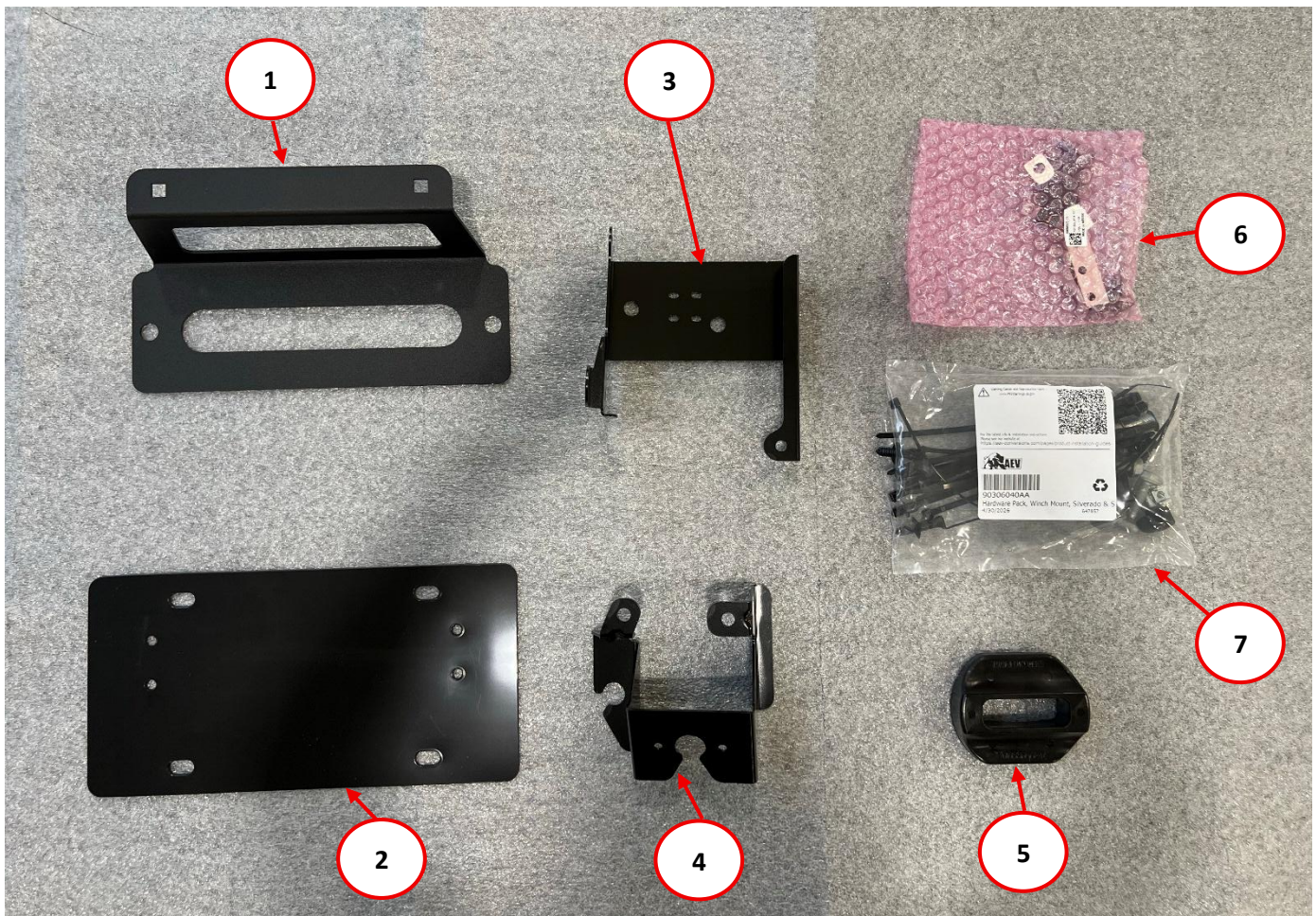


Figure 2



c. AEV HAWSE FAIRLEAD (OPTIONAL) (19060000AA)

1. AEV HAWSE FAIRLEAD
2. MOUNTING FASTENERS
3. CLEANING WIPE
4. AEV BADGE



Figure 3



II. VEHICLE PREPARATION

- a. Move vehicle to a flat location where a hoist is available or jack stands can be placed.
- b. Raise vehicle off-ground for wheel removal

III. COMPONENT DISASSEMBLY

a. Battery Removal

1. Disconnect the negative battery terminal on driver's side battery.
2. On passengers side battery, remove the (qty:2) fasteners securing the battery brace. Remove the battery brace and set aside for reassembly. *(Figure 4)*
3. Remove the electronics box cover on top of the battery. *(Figure 4)*
4. Disconnect the battery terminals on passenger side battery. *(Figure 4-5)*
5. You can now unclip the electronics box on top of the battery. Using a long flathead screwdriver, pry the tabs on the sides of the electronics box to release it from the battery. Remove attached fir tree clips and set aside using tie straps or tape. *(Figure 5-6)*
6. Locate the battery hold down fastener at the front corner of the battery. *(Figure 7)*
7. Remove the (Qty:1) M8 fastener and remove the battery hold down from the vehicle. Set aside for future reassembly. *(Figure 7-8)*
8. The battery can now be removed from the vehicle and set aside. *(Figure 9)*

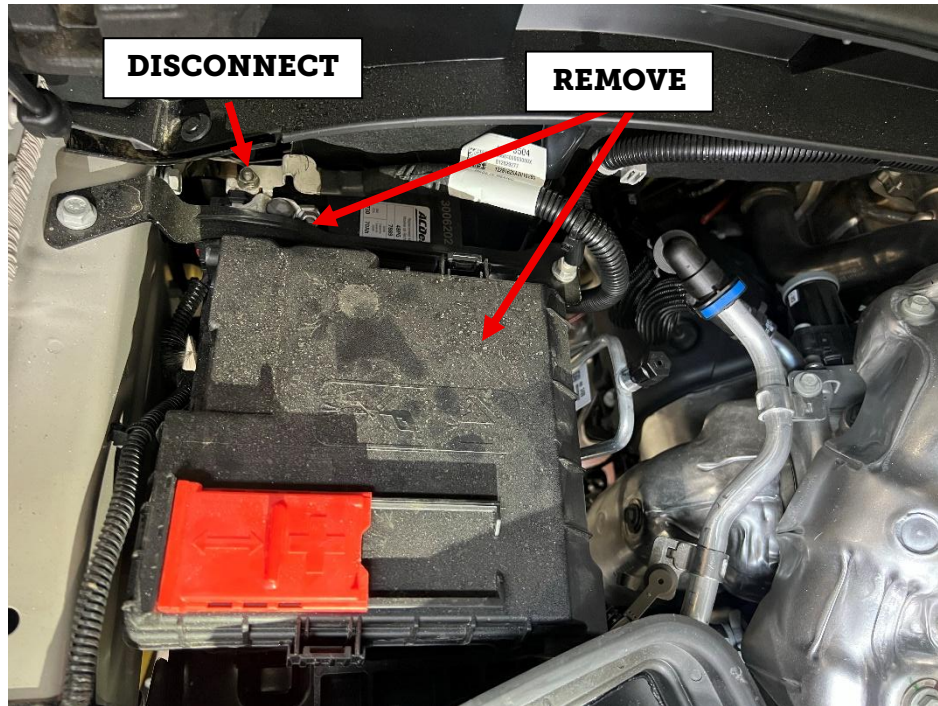


Figure 4

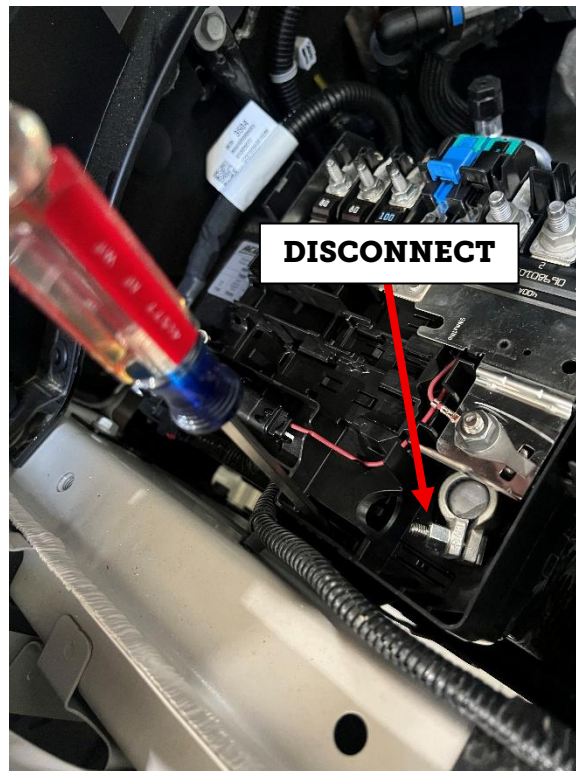


Figure 5



REMOVE ELECTRONICS BLOCK

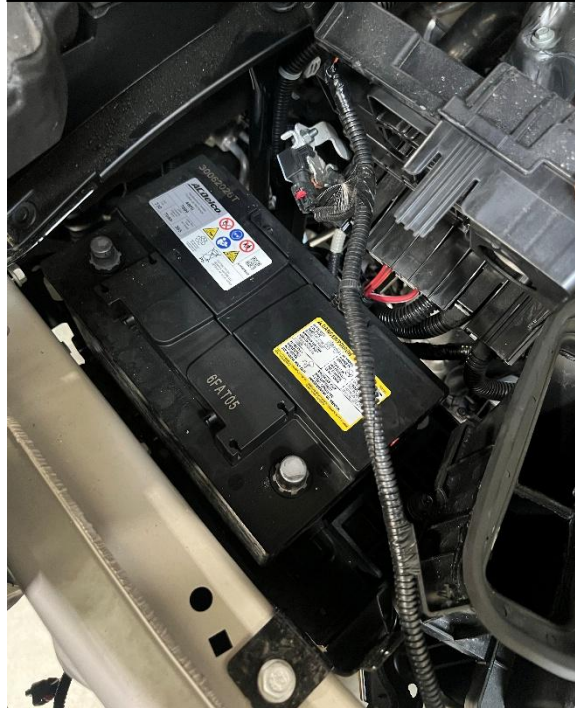


Figure 6



Figure 7



REMOVE BATTERY HOLD-DOWN

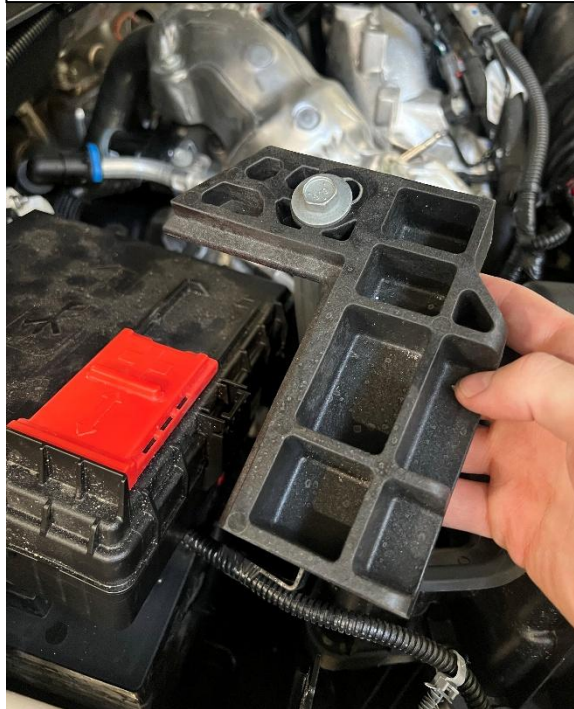


Figure 8

REMOVE BATTERY



Figure 9



b. Wheel Liner Removal

1. Remove front passenger side wheel. *(Figure 10)*
2. Locate stone guard on rear of wheel opening. Remove (Qty: 5) T15 Torx fasteners. Gently push the stone shield downward and pull away from vehicle. An internal clip will release from fender to remove stone shield. *(Figure 11-13)*
3. Locate and remove the remaining (Qty: 10) T15 Torx fender liner fasteners and (Qty: 1) push clip. *(Figure 14-15)*
4. The wheel liner can now be removed. Starting at the rear of the wheel well, pull the wheel liner gently to release it from the fender molding overlap. Work forward by releasing the wheel liner from the fender molding overlap. Once removed, set aside for future reassembly. *(Figure 16)*





Figure 11



Figure 12



Figure 13



REMOVE LINER FASTENERS



Figure 14

REMOVE LINER FASTENERS



Figure 15

REMOVE WHEEL LINER



Figure 16



c. Fender Molding Removal

1. With wheel liner now removed, locate the side marker light and disconnect the harness. *(Figure 17)*
2. Starting from the front, gently pull the fender molding away from vehicle, releasing the plastic push clips. *(Figure 18-19)*
PRO TIP: Use an 8mm socket to aid in releasing the clips
3. The fender trim molding can now be removed and set aside for future reassembly. *(Figure 20)*



Figure 17



Figure 18

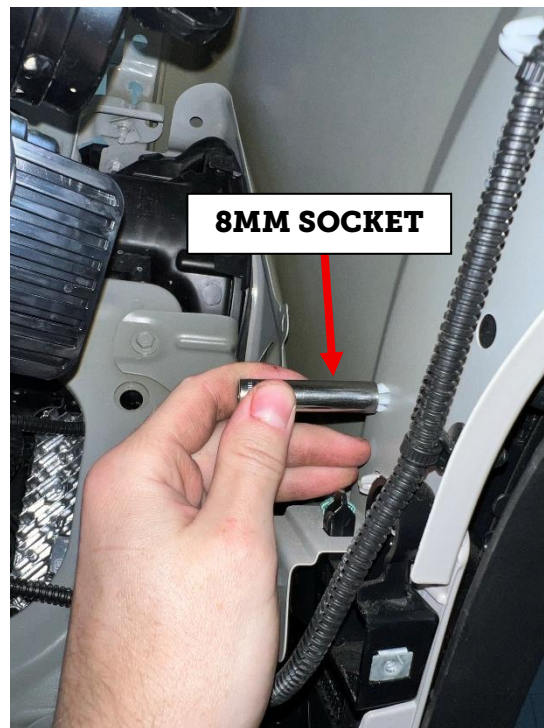


Figure 19

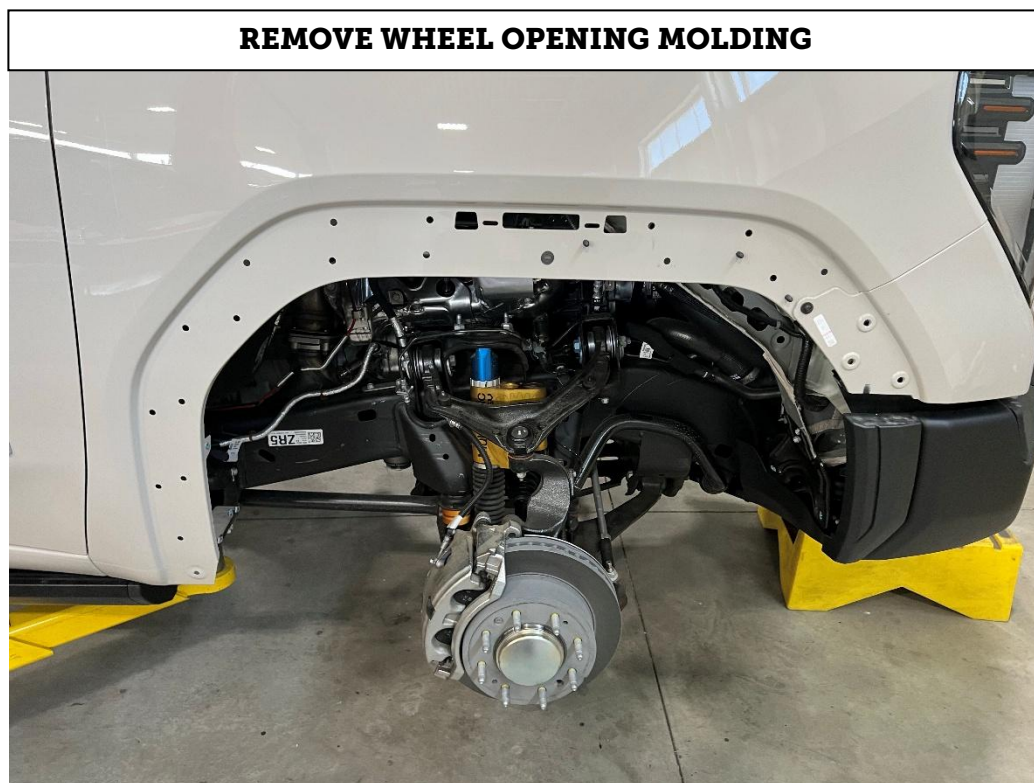


Figure 20



d. Headlamp Trim Molding

1. Looking forward into the wheel liner, locate the two clip attachments that clip the headlamp trim to the grille trim. *(Figure 21-22)*
2. Gently press the clips and push forward and pull on the trim piece from the other side to release it from the grille. *(Figure 22-23)*
3. Using a soft object such as foam, place in between the trim molding and headlamp to space the clips away from the grille. This allows for clearance when removing the grille. *(Figure 24)*

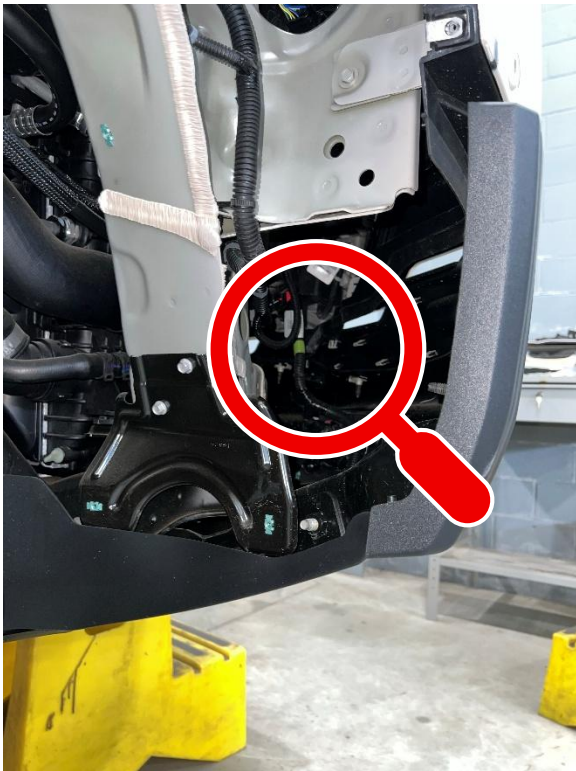


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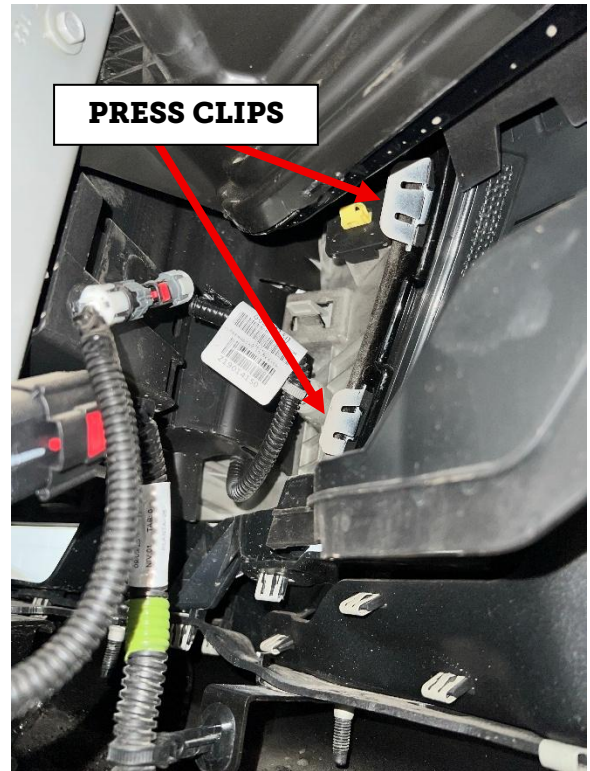


Figure 22



POP OUT FASCIA PIECE



Figure 23

SECURE WITH FOAM



Figure 24



e. Air Dam Removal

1. With hood open, locate the front upper air dam assembly. *(Figure 25)*
2. Remove the (Qty: 2) T15 Torx fasteners from the hood latch handle. *(Figure 26)*
3. Remove the hood latch handle and set aside for future reassembly. *(Figure 27)*
4. Remove the (Qty:9) push clips surrounding the air dam shroud. *(Figure 25)*
5. Lift and remove the upper air dam. Place aside for future reassembly. *(Figure 28)*

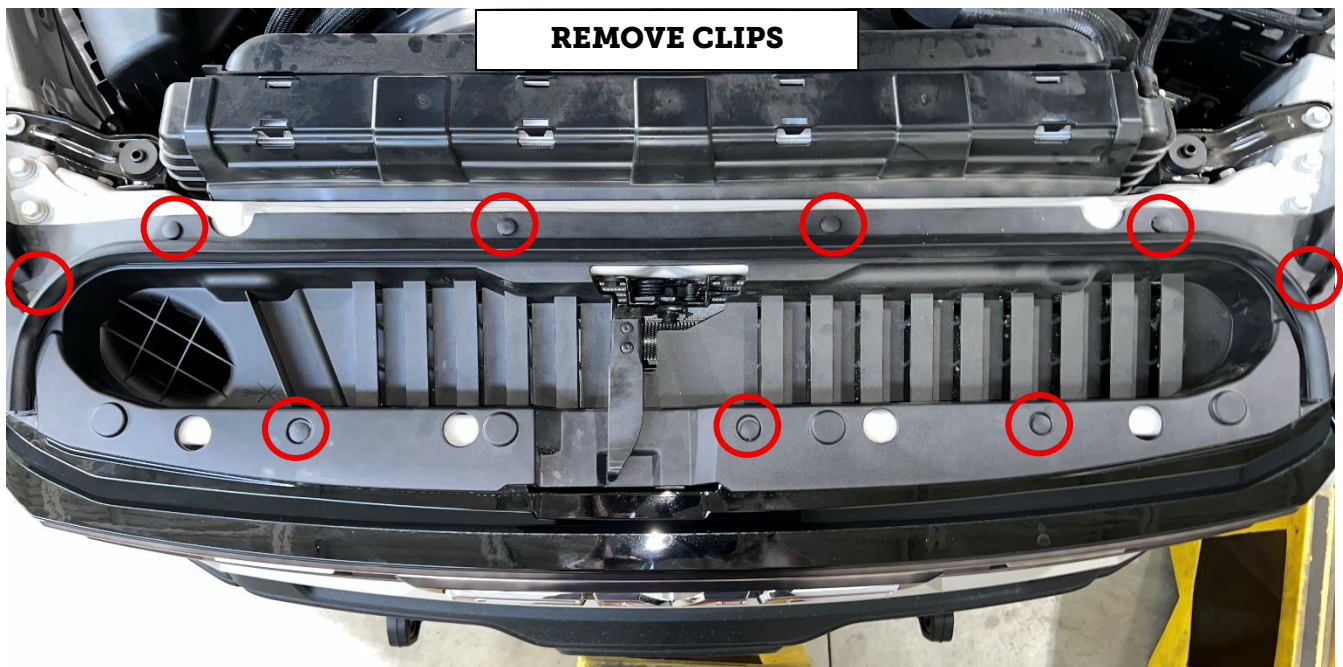


Figure 25

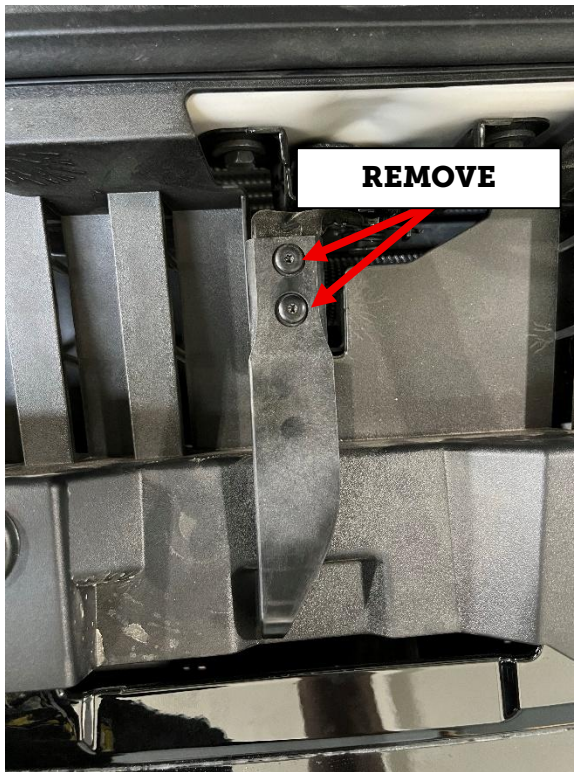


Figure 26



Figure 27



Figure 28



f. Front Grille Removal

1. Remove the (Qty:4) fasteners at top of grille. *(Figure 29)*
2. Lift up on top flange to release tabs from the body structure. Pull grille away from vehicle to release all upper hidden clips. This takes a considerable amount of force. *(Figure 30-31)*
3. Once the upper half of the grille has been released, pull on the lower half of the grille to release the lower clips. *(Figure 31)*
CAUTION: ONCE CLIPS ARE RELEASED THERE WILL BE A CAMERA HARNESS AND WASHER FLUID TUBING STILL CONNECTED TO GRILLE.
4. With additional help, unclip the camera harness connector on the passenger side of vehicle. *(Figure 33)*
5. Unclip and remove the washer fluid tube from the grille. *(Figure 32)*
6. The grille can now be fully removed and placed aside for future assembly. *(Figure 33)*

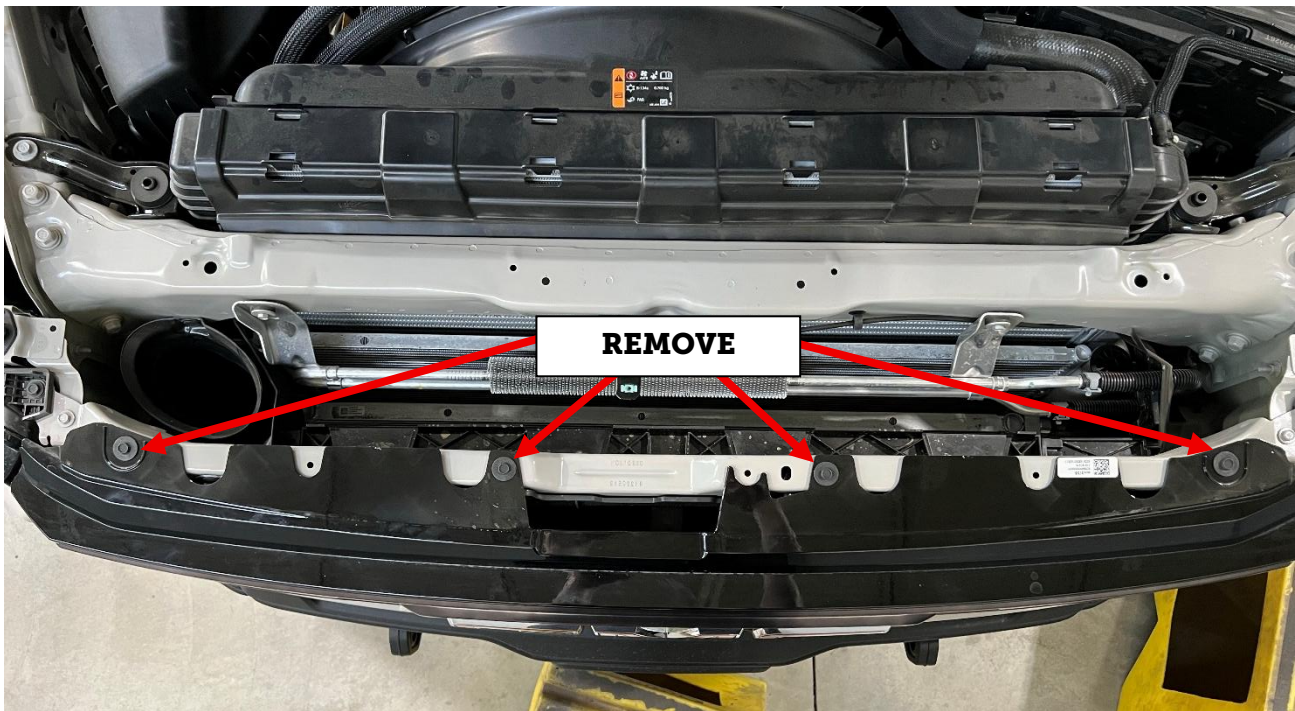


Figure 29



Figure 30

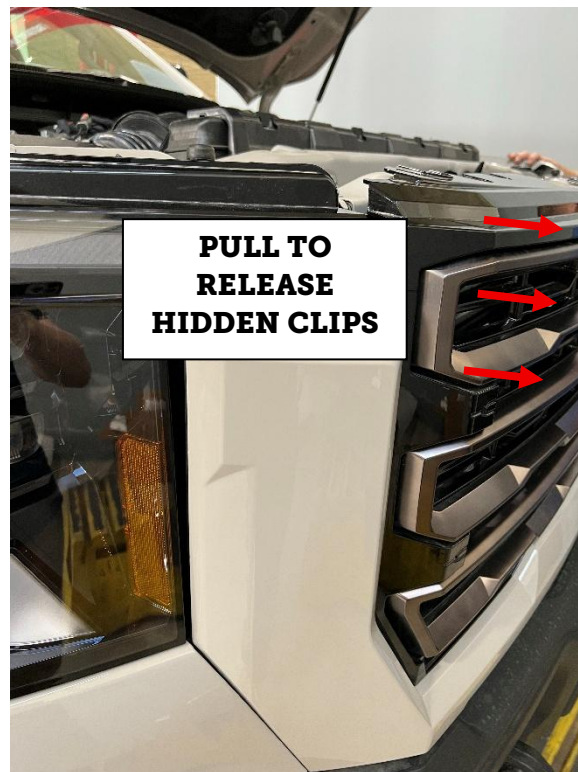


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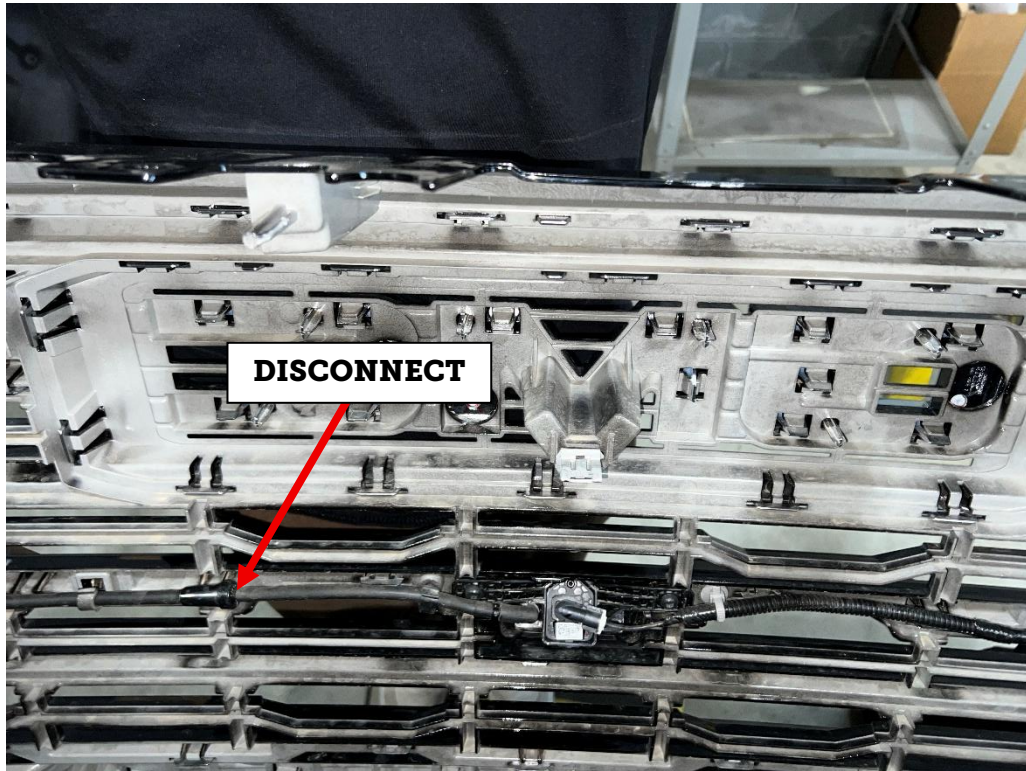


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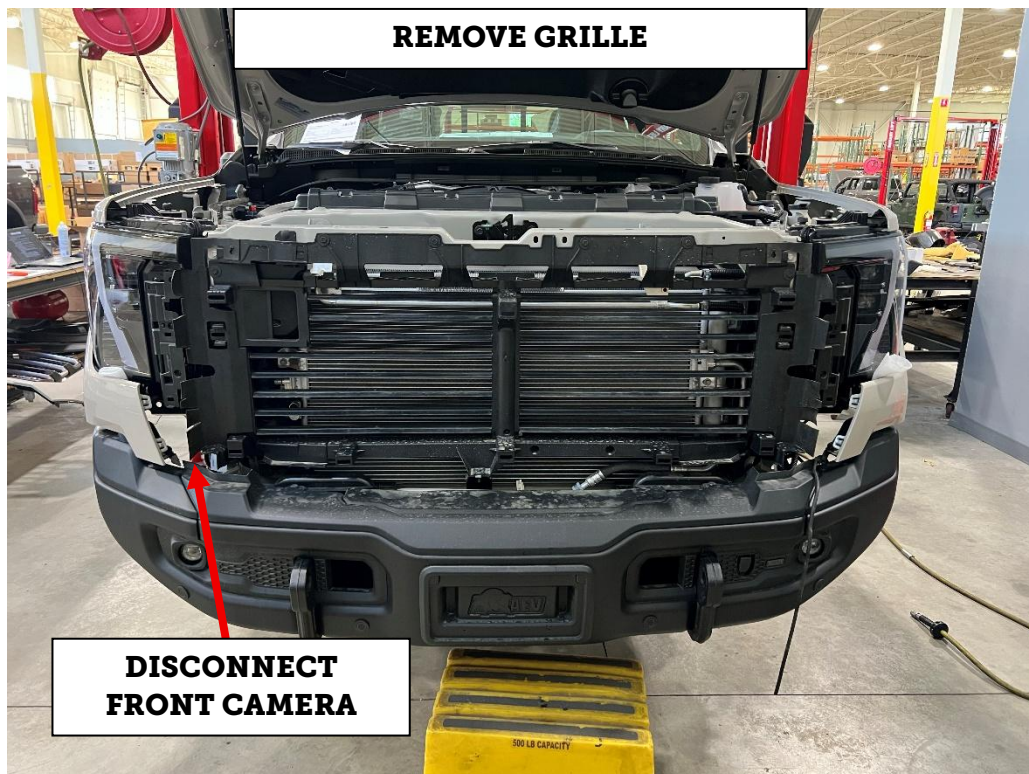


Figure 33



g. Radiator Support / Shutter Assembly Removal

1. Locate and remove the (qty: 10) bolts surrounding the grille support. *(Figure 34)*
2. Lift up and pull the grille support away from the vehicle
CAUTION: IF SHUTTERS/FRONT CAMERA ARE PRESENT, THE WIRING HARNESS WILL STILL BE CONNECTED.
3. On passenger side of vehicle, locate the front camera harness connector and unclip it from grille support. *(Figure 35)*
4. On Driver side of vehicle, unclip the harness connector if grille shutters are present. *(Figure 36)*
5. The grille support can now be removed and placed aside for future reassembly. *(Figure 38)*
6. Remove the grille support bracket and place aside for future reassembly. *(Figure 39)*

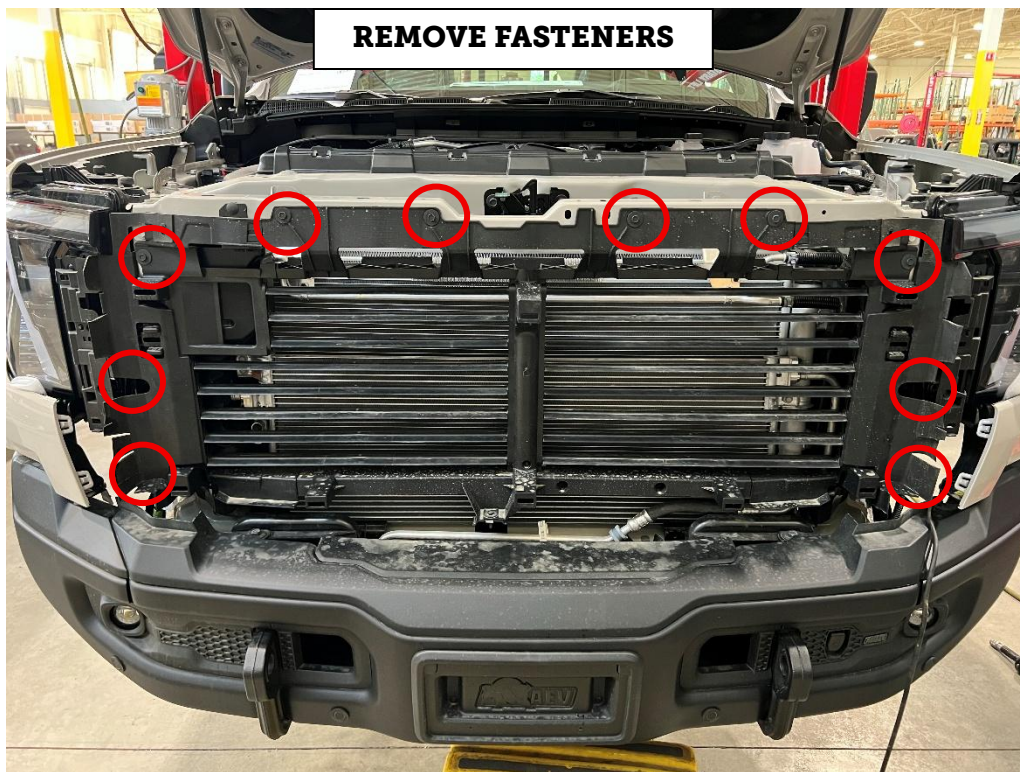


Figure 34

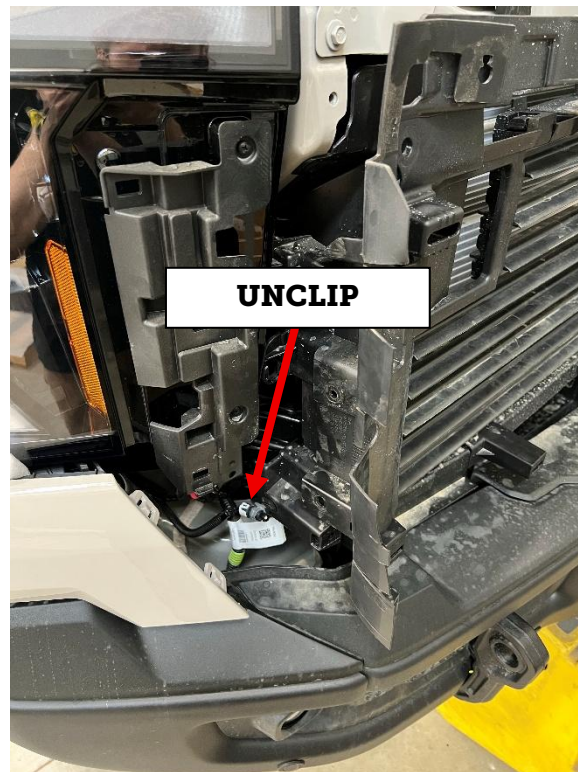


Figure 35

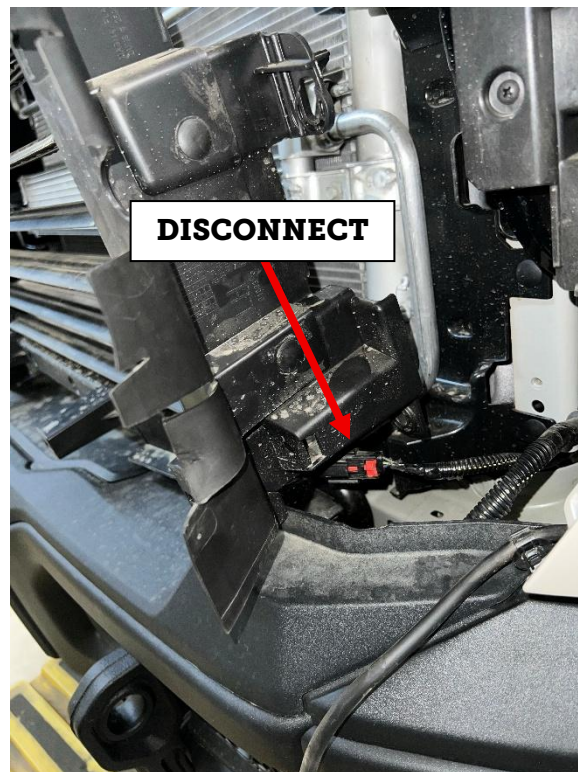


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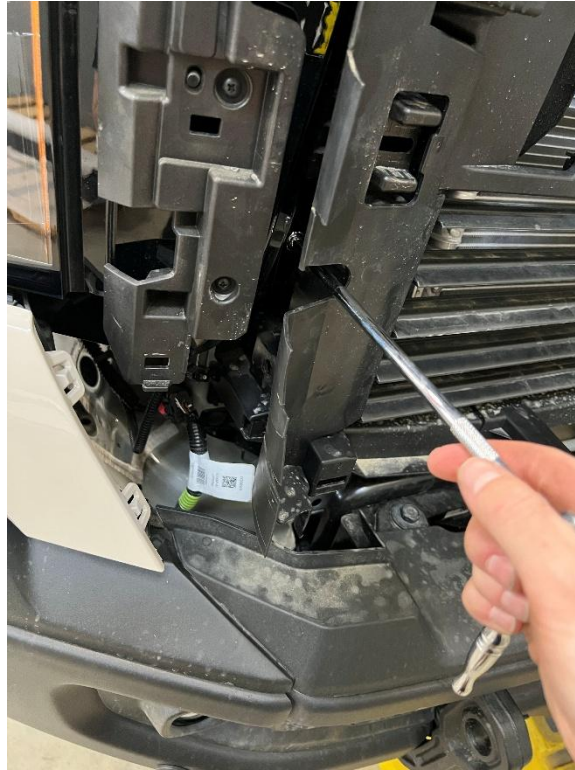


Figure 37



Figure 38

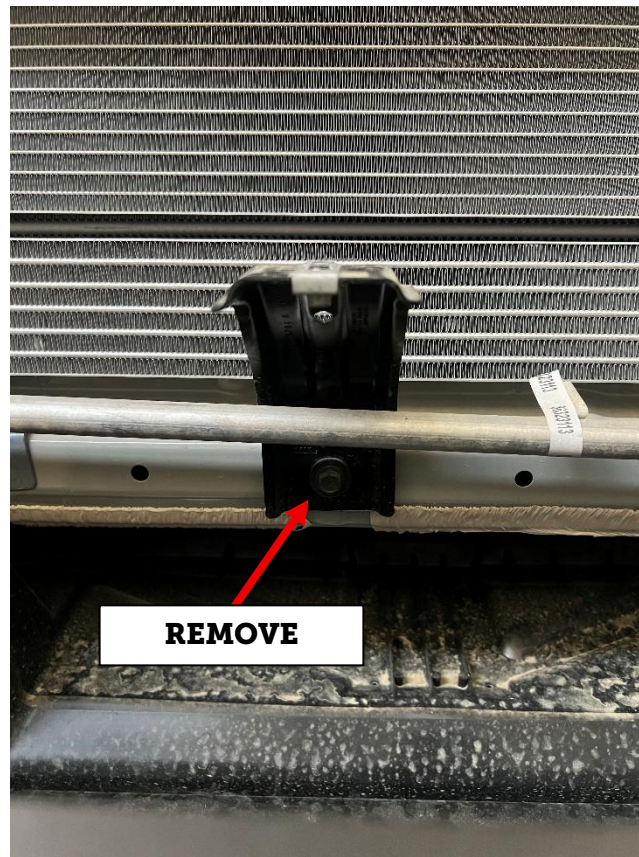


Figure 39



h. Bumper Component Removal

1. Pull up on the top plastic molding cap in the center of the bumper to release clips. *(Figure 40)*
2. Bumper top cap trim can be removed and discarded. This will not be re-used.
3. Pull up on the larger upper plastic trim molding to release clips. *(Figure 41)*
4. Set aside upper plastic trim for future reassembly.
5. Locate the (Qty:2) T40 Torx and (Qty:2) M8 bolts attaching the upper support stamping and remove fasteners. *(Figure 43)*
6. The upper support stamping can now be removed and discarded. This will not be re-used. *(Figure 44)*
7. Locate the front license plate bracket and remove the (Qty:4) T25 Torx fasteners. The license plate bracket can be removed and discarded (this will no longer be used). *(Figure 45)*
8. Remove and discard the (Qty:4) Push nuts from the license plate bracket. *(Figure 46)*



Figure 40

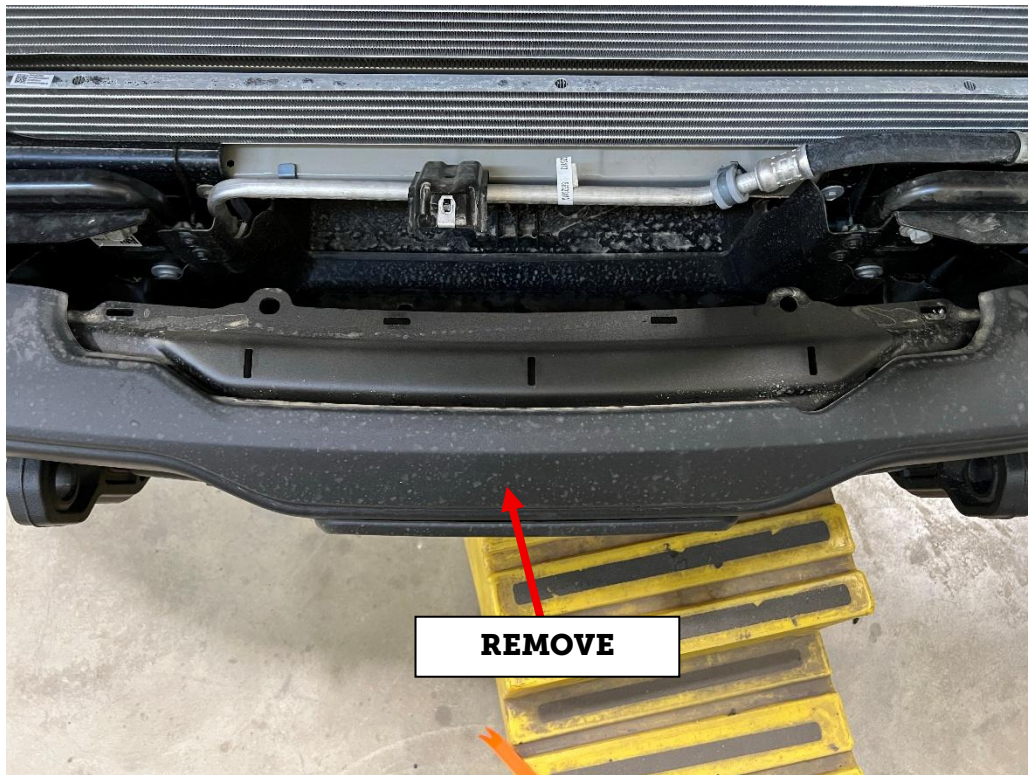


Figure 41



Figure 42



Figure 43

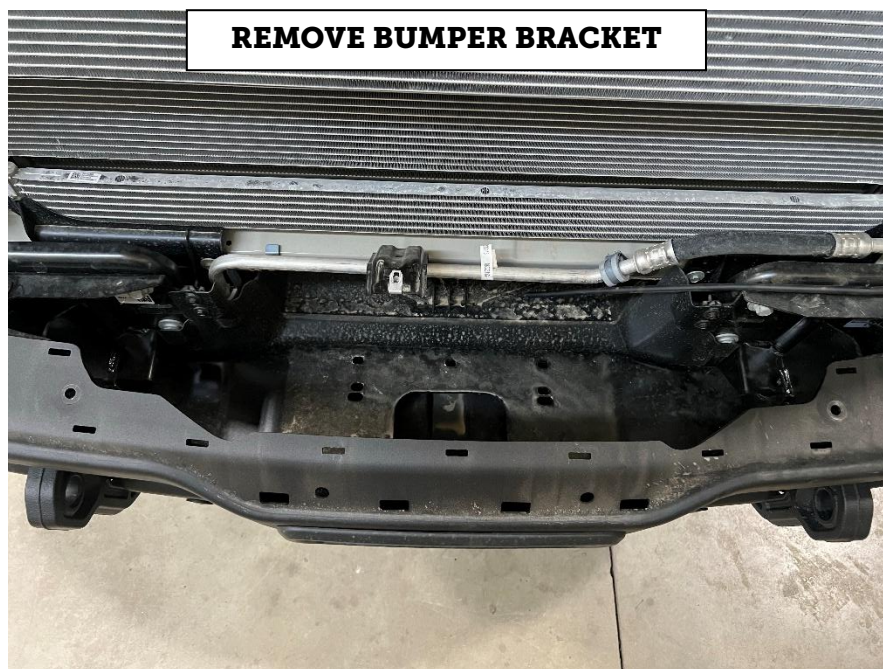


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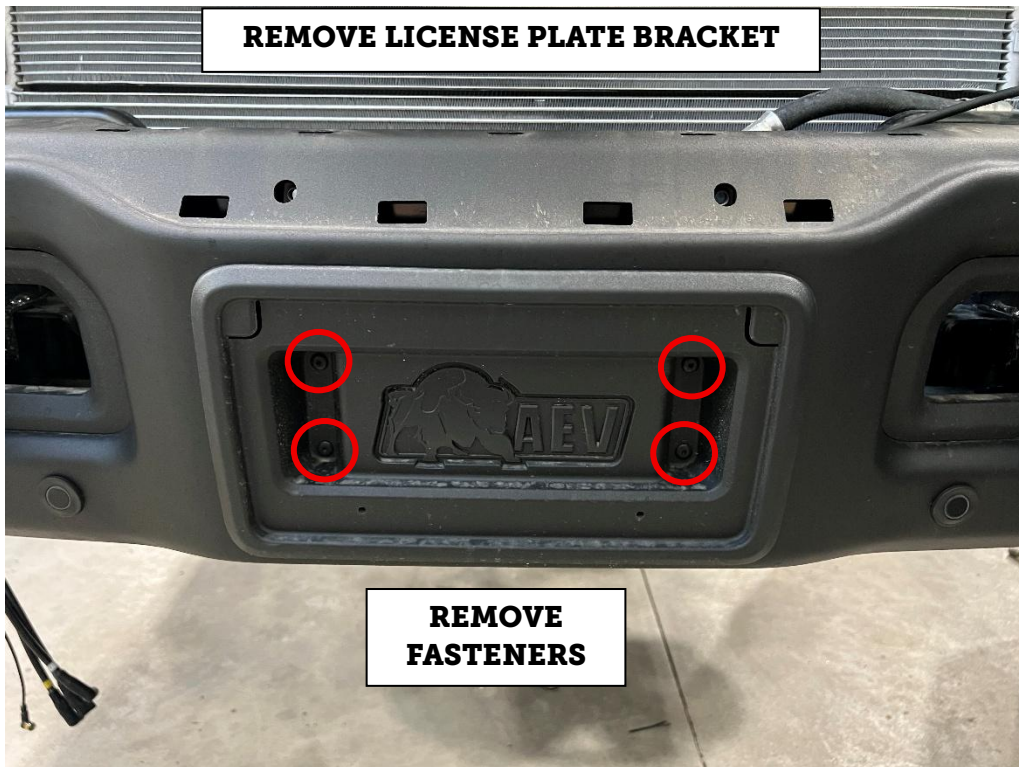


Figure 45



Figure 46



i. Skid Plate Removal

1. Safely get under the vehicle and uninstall the skid plate.
2. Remove the (Qty:4) T40 Torx fasteners, (Qty:4) T15 Torx fasteners, (Qty:2) M10 short fasteners, (Qty:4) M10 long fasteners. *(Figure 47)*
3. With additional help, remove the skid plate and place aside for future reassembly.

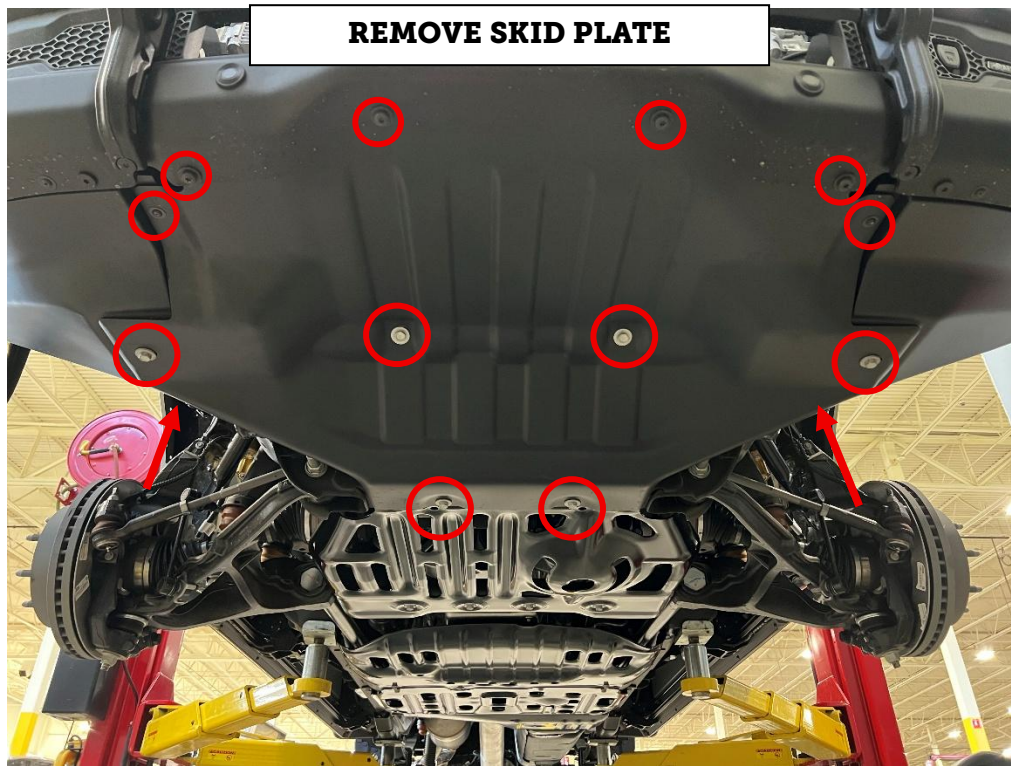


Figure 47



IV. MODULE INSTALLATION

a. Battery Tray Stud

1. Locate the battery brace fastener at the bottom of the battery tray.
2. Replace this fastener with the M8X30mm fastener from the winch installation kit. *(Figure 48)*

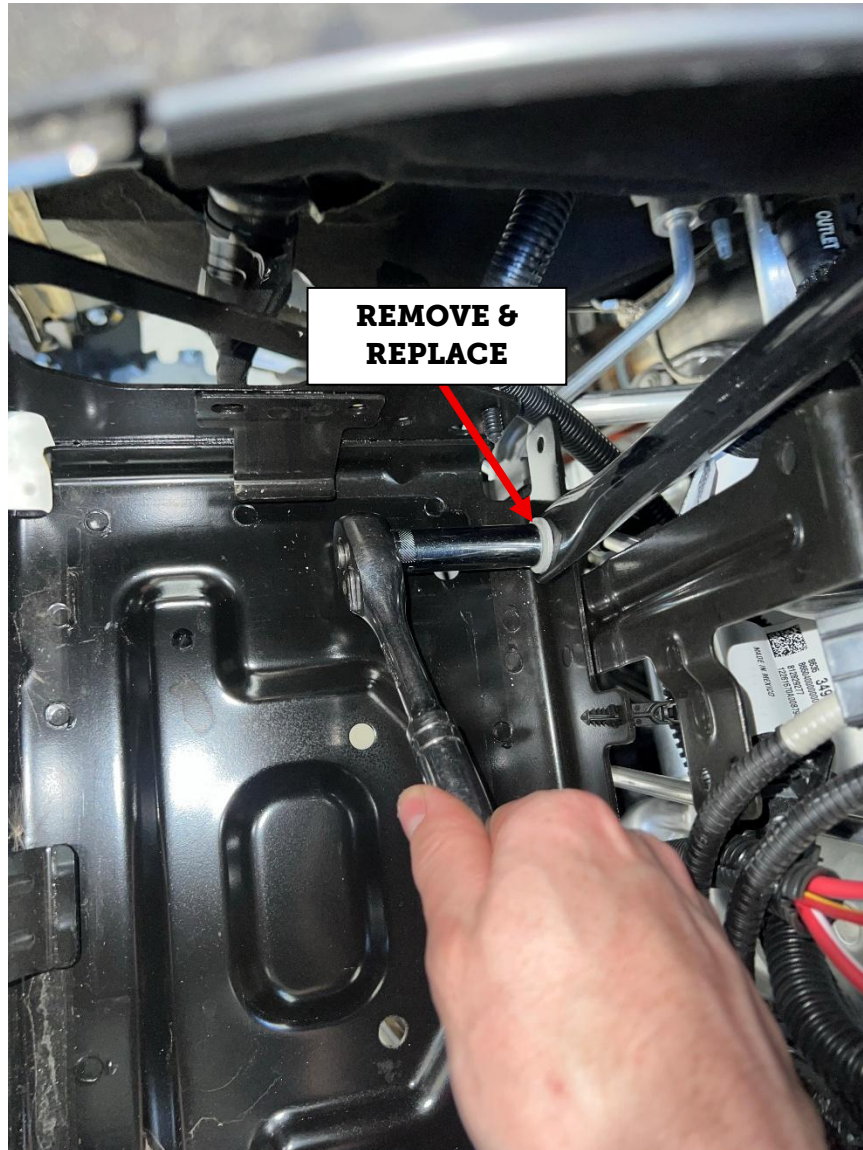


Figure 48

**b. Module Installation**

1. You will be working underneath the battery tray (inside the wheel well opening) for these next steps.
2. Locate the winch control module and remove the 350amp Megafuse taped to the controller. This will be needed at a later time.
3. Locate the winch controller mounting bracket and hardware kit in the Comeup winch installation kit. *(Figure 49)*
4. Fasten the winch controller bracket to the module with the provided (Qty:4) M5 screws, lock washers, and washers. The lock washer will sit in between the head of the M5 fastener and the standard washer. *(Figure 50)*
5. Locate the (Qty:1) longest tie strap and the (Qty:1) M8 Flange nut in the AEV winch mount hardware pack. *(Figure 51)*
6. Loosely install the tie strap around the A/C line bracket in the orientation as shown. This will aid in bracket installation. *(Figure 52-53)*
7. The fastener previously installed inside the battery tray will now act as a stud. Lift the module and loosely install to this stud using the (Qty:1) M8 flange nut previously gathered. Do not fully tighten. *(Figure 54)*
8. Locate the (Qty:2) 12mm offset fir tree tie straps from the AEV winch installation kit. *(Figure 55)*
9. Assemble the fir tree tie straps in the hexagonal holes in the winch module bracket, with the "tail" pointing away from the winch controller in both instances. *(Figure 56-58)*
10. Locate the (Qty:1) M6 fastener and (Qty:1) M6 Flange nut from the AEV winch installation kit.
11. Moving to the top side of the battery tray under the hood, loosely fasten the remaining M6 fastener on the upper rear of the battery tray/Winch controller module.
12. Torque the M8 Flange nut to 22 Nm +/- 3 Nm
13. Torque the M6 Flange Nut to 9 Nm +/- 3 Nm
14. Secure the upper tie strap to the large wire harness. Secure the lower tie strap to the A/C line. Fully tighten the longest tie strap used to initially secure the wire bundle. Trim tails once complete.
15. Leave wire bundle as-is for future steps.



Figure 49



Figure 50



Figure 51



Figure 52

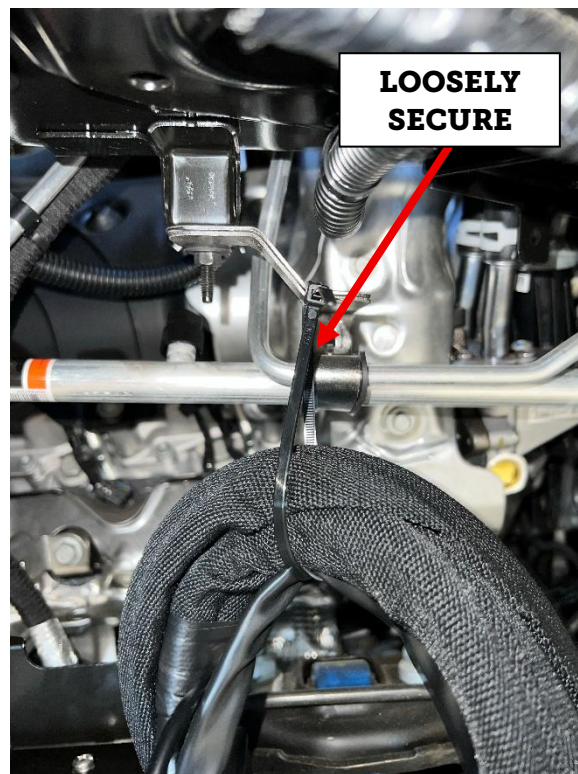


Figure 53

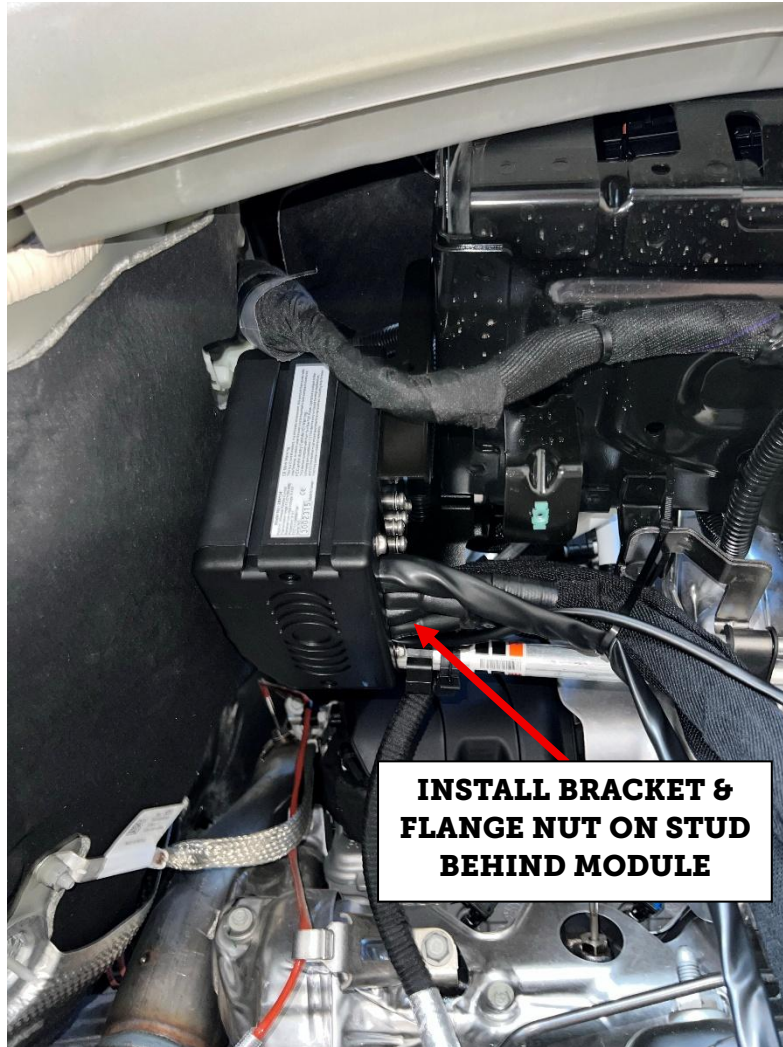


Figure 54



Figure 55



Figure 56



Figure 57



Figure 58



V. WINCH CONTROLLER BRACKET INSTALLATION

CAUTION: THE NEXT STEPS REQUIRE DRILLING INTO THE BODY STRUCTURE. PLEASE USE APPROPRIATE PERSONAL PROTECTION.

- a. Locate the on/off bracket from the AEV winch installation kit. (Figure 59)
- b. Place the bracket on the vehicle in the location as shown, just behind the hex stud on the structure rail. (Figure 60)
- c. Mark the holes on the bracket to the structure beam. (Figure 61)
- d. Move bracket and drill two 13.5-14mm diameter holes at the marked locations. If metric drill bits are not available, drill a 17/32inch diameter hole or a 9/16" diameter hole. (Figure 62)
- e. Deburr holes and apply rust preventative.
- f. Locate the (Qty:2) rivnuts from AEV winch installation kit. Using a rivnut tool. Install the rivnuts in the previously drilled holes.
- g. Install the on/off bracket with the provided (Qty:2) M8 fasteners. (Figure 63)



Figure 59



Figure 60



HOLES MARKED

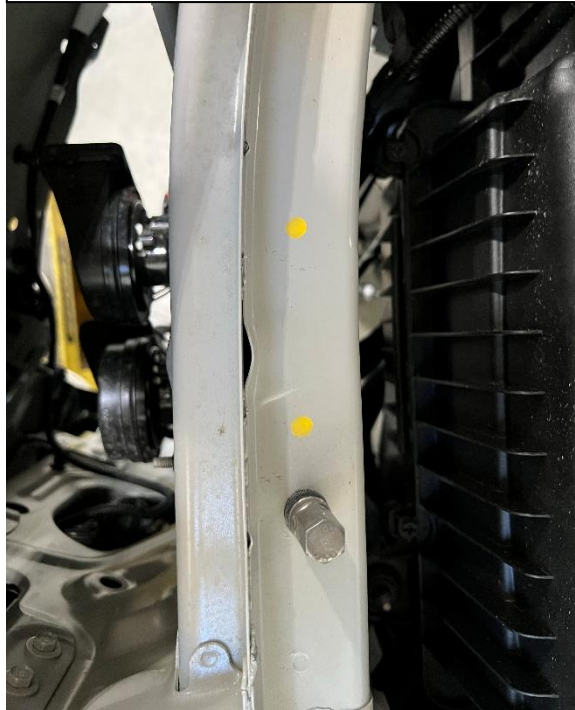


Figure 61

HOLES DRILLED



Figure 62

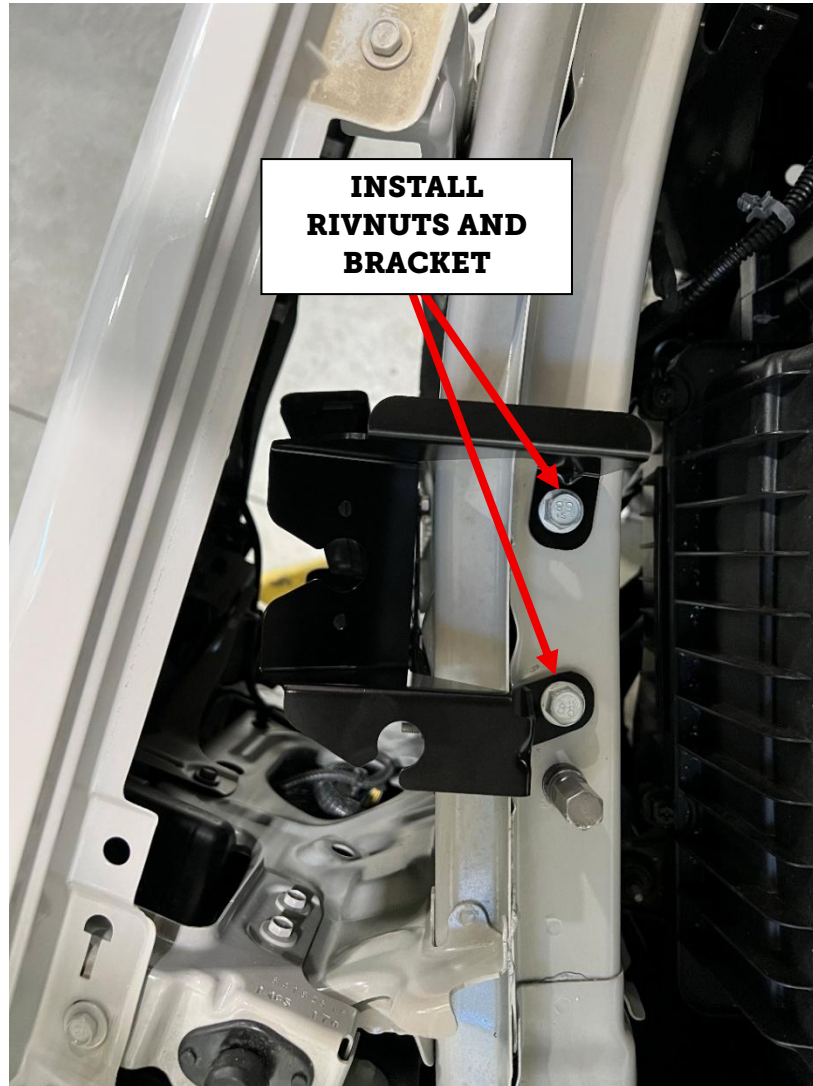


Figure 63



VI. WINCH INSTALLATION

a. Fairlead Installation (Comeup)

NOTE: THE INSTRUCTIONS SHOW THE INSTALLATION OF THE FRONT LICENSE PLATE BRACKET. IF NOT REQUIRED, DISREGARD LICENSE PLATE BRACKET.

1. Locate the Fairlead and hardware kit from the Comeup Installation kit. *(Figure 64)*
2. Locate the License plate bracket from the installation kit. *(Figure 64)*
3. Remove the plastic acorn caps from the fasteners in the Comeup installation kit.
4. Install the license plate bracket between the fairlead and bumper.
5. Install the fasteners from the rear facing forward, with the lock washer between the head of the fastener and the bumper, and the standard washer between the fairlead and nut. *(Figure 65)*
6. Place the plastic nuts back on the exposed fasteners in the front of the vehicle. *(Figure 66)*
7. Insert the (Qty:2) push nuts in the rear side of the top square holes of the license plate bracket. A screwdriver can be helpful to insert the clip. *(Figure 67)* Note: Do not install license plate backing plate with thumb screws until winch installation is complete.



Figure 64



Figure 65



Figure 66

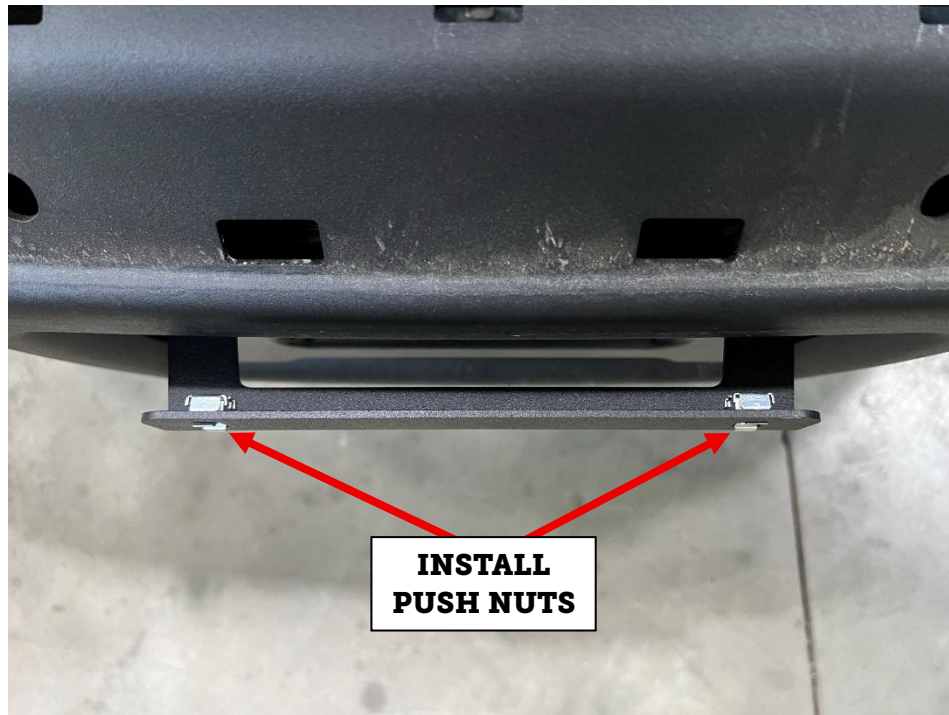


Figure 67

b. Fairlead Installation (AEV)

1. Locate the fairlead and hardware kit from the AEV Universal Fairlead. (Figure 68-69)
2. Using the provided cleaning wipe. Clean the area for the AEV badge.
3. Remove backing tape on badge and press onto fairlead.
4. Locate the two fasteners and install the fairlead onto the bumper with the fasteners facing forward, Placing the License plate bracket between the fairlead and bumper
5. Torque Fasteners to 43 ft-lbs.

NOTE: SEE INSTALLATION GUIDE FOR FURTHER INSTRUCTIONS ON AEV WEBSITE: [AEV UNIVERSAL FAIRLEAD](#)



Figure 68



Figure 69



c. Winch Installation

1. Locate the two winch block risers from the AEV winch installation kit and place them in the bumper as shown. *(Figure 70)*
NOTE: place so the additional material on the sides of the holes is facing outward away from the centerline of the vehicle.
2. Locate the (Qty:4) Square nuts from the Comeup winch installation kit and place them in the slots on the feet of the winch. *(Figure 71)*
3. The winch can now be lowered into the bumper and sit on top of the winch spacer blocks. Be careful to not tip the winch to cause the square nuts to fall out. *(Figure 72)*
4. Using a spud, align the winch/standoff blocks/bumper. *(Figure 73)*
5. Install the provided (Qty:4) winch fasteners from the Comeup installation kit. Torque bolts to 58 Nm. *(Figure 74)*
6. Undo the twist tie and feed a small amount of winch cable through the fairlead.

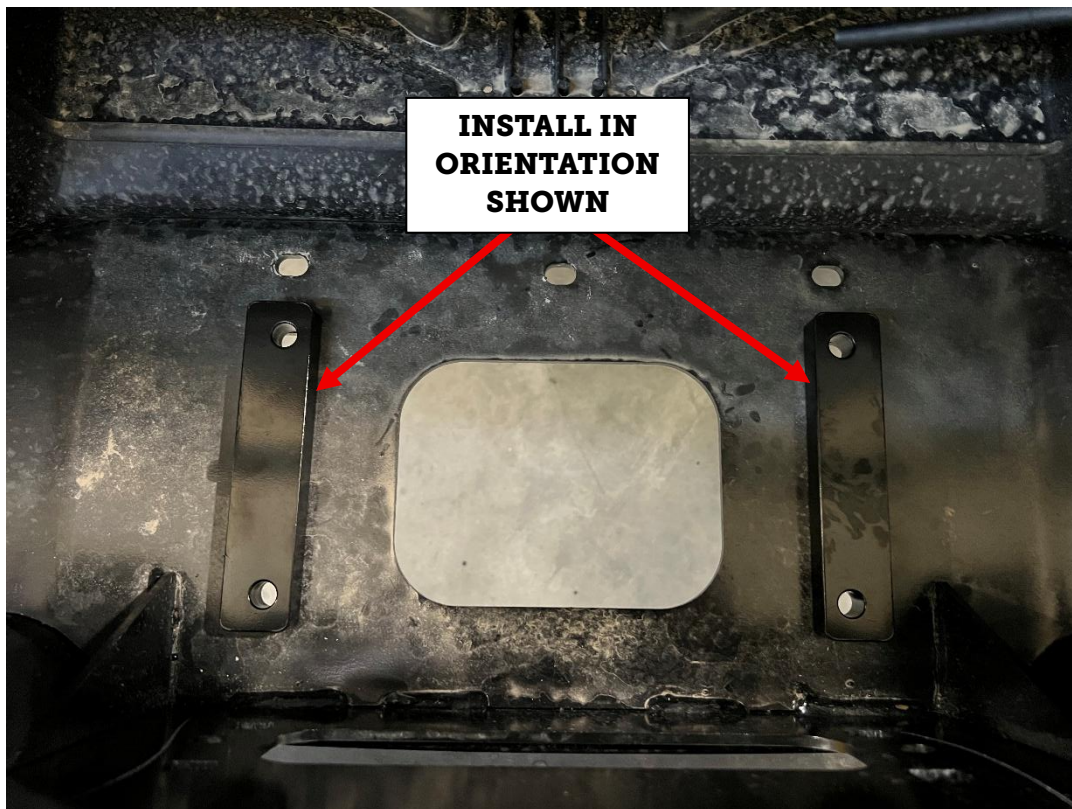


Figure 70

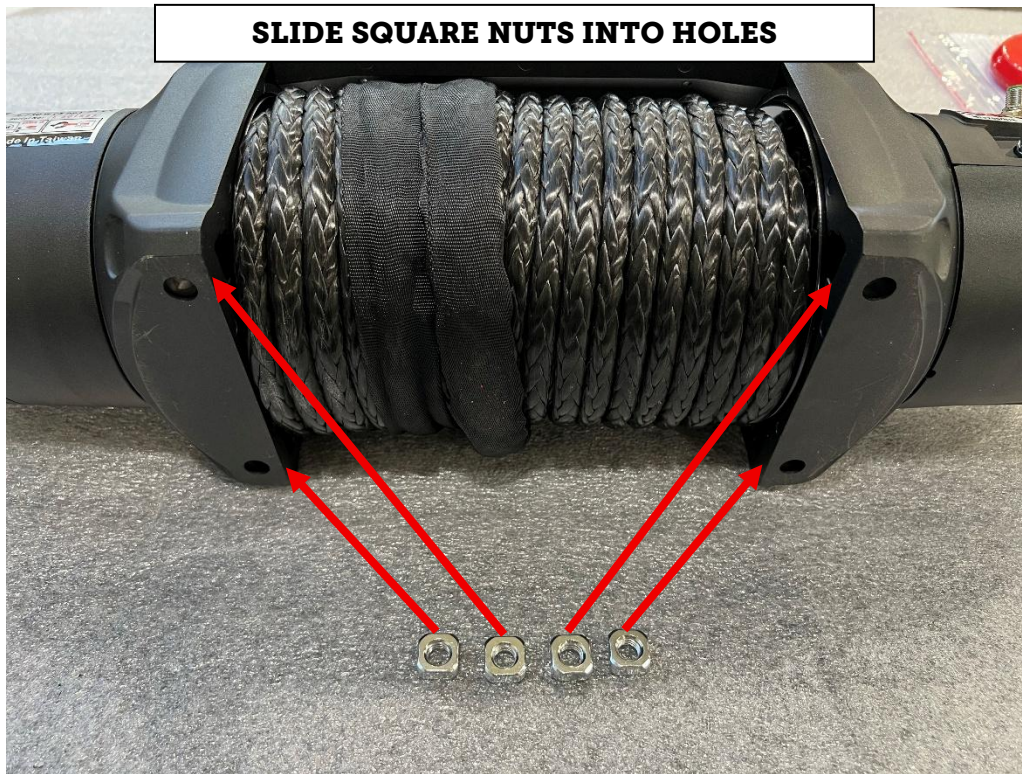


Figure 71

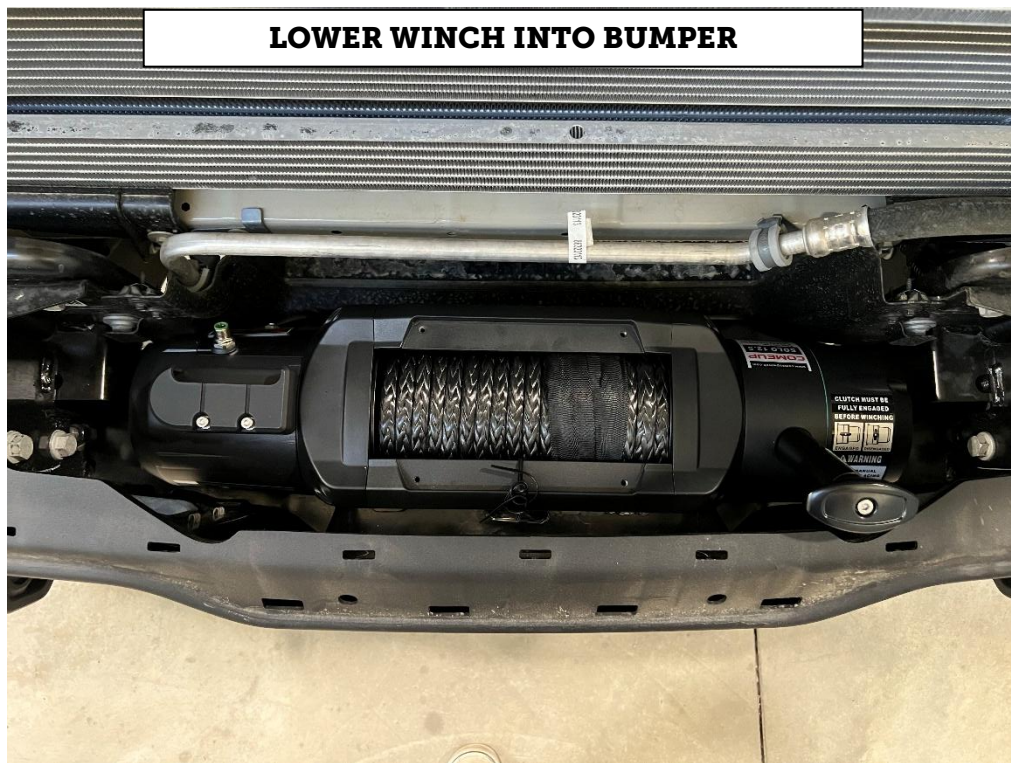


Figure 72



ALIGN WITH SPUD / SCREWDRIVER



Figure 73

FASTEN WINCH

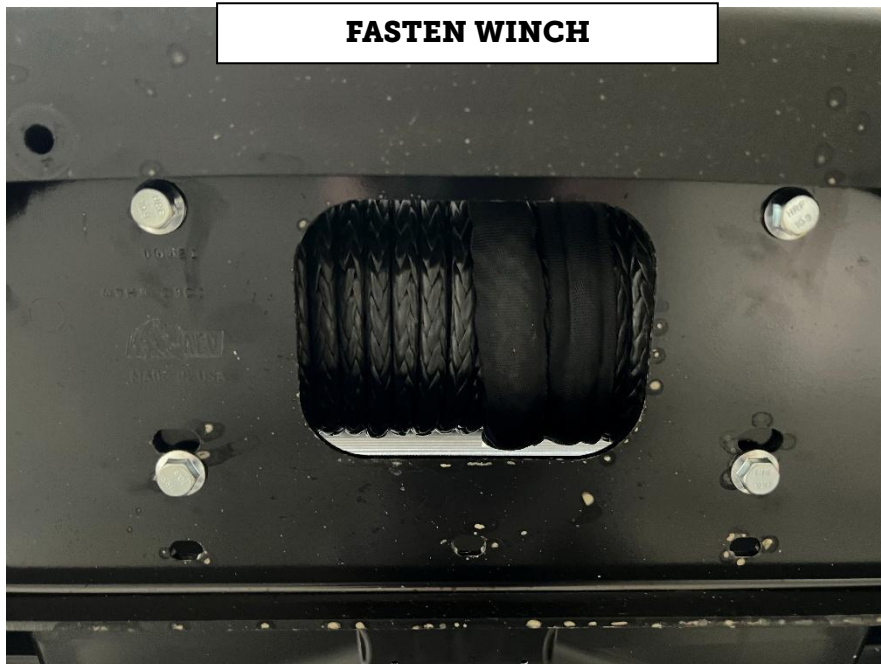


Figure 74



d. Recovery Hook Installation

1. Locate the AEV winch hook isolator from the AEV winch installation kit.
2. Install the winch hook isolator as shown. (Figure 75)
3. Locate the recovery hook from the Comeup winch kit.
4. Remove the cotter pin and pin from the recovery hook.
5. Insert the end of the winch cable and reassemble the pin/cotter pin to install the recovery hook. (Figure 76)



Figure 75

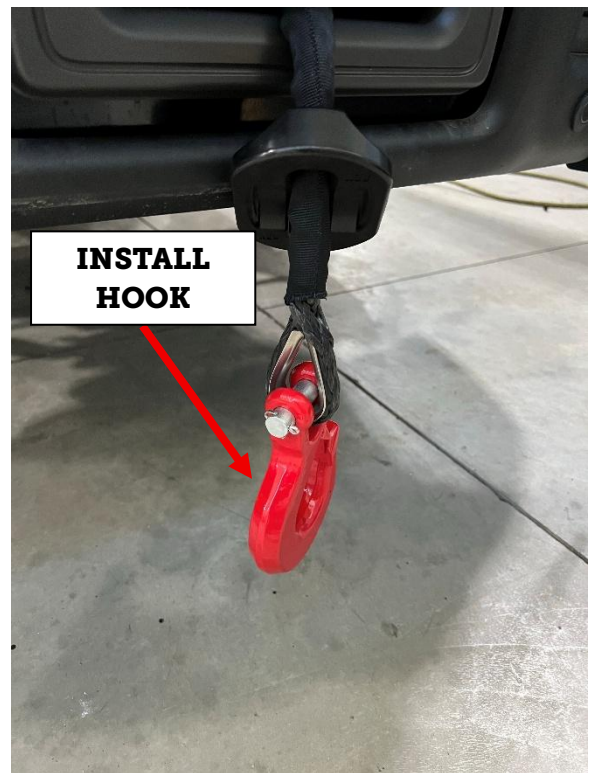


Figure 76



VII. HARNESS ROUTING

a. Winch Wiring Bundle

1. Pay close attention to the following steps to properly route the wire harness bundle.
2. Starting from the winch controller, route the winch, winch controller, and on/off bundle forward in vehicle and exit the three bundles outward of the structure triangle below the horns. (*Figure 77*)
3. Push the main winch bundle into the bumper area, resting on the inner structure flange. (*Figure 78*)
4. Route the ends of the cable to the winch terminal area, routing behind the frame horn. (*Figure 79*)
5. Install the winch signal wire to the threaded post on the winch motor body. Ensure the internal keyway is aligned with the plug before fastening the hex nut.
6. Remove the terminal cover from the winch with a 4mm allen key. Place aside for reassembly.
7. Remove the upper nut and locking washer from each of the three battery terminals.
8. Peel back the terminal covers and place them on the studs with their corresponding colors.
9. Reinstall the locking washers and nuts on the terminals. Lock the lower nuts while fastening. (*Figure 79-80*)
10. Reinstall the terminal cover.

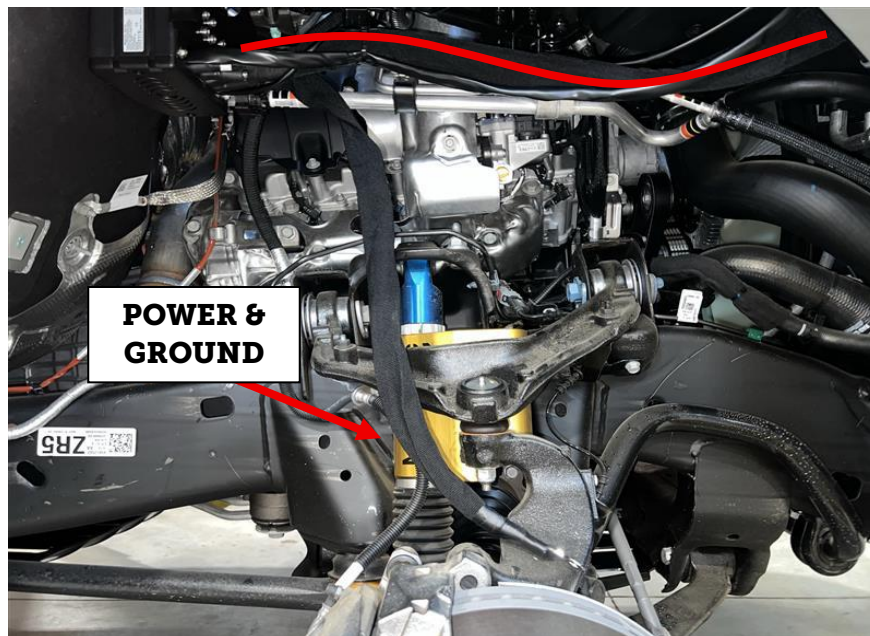


Figure 77

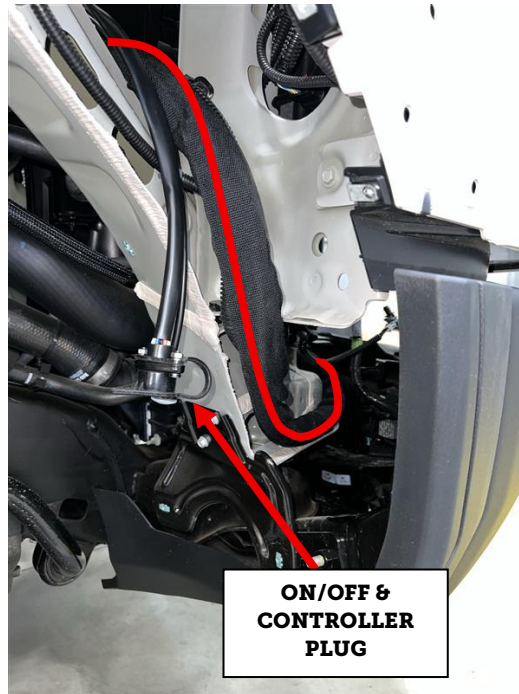


Figure 78

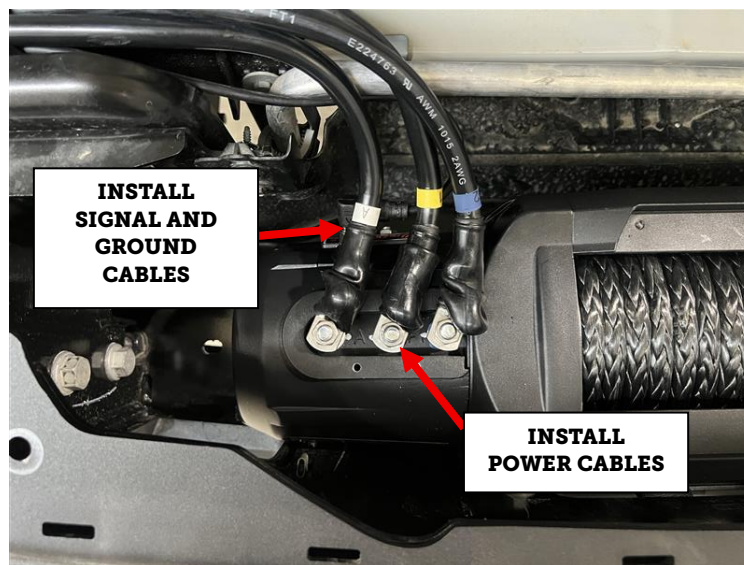


Figure 79

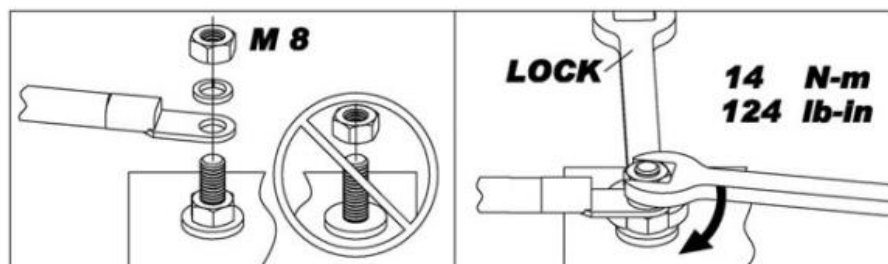


Figure 80



b. On/Off switch and Winch Remote Plug

1. Locate the winch remote plug and on/off switch.
2. Route through the structure triangle upward through the horn bracket.
3. For on/off switch, loosen the lock nut on the bottom of the switch fully.
4. Slide on/off switch through the bracket notch and seat in the hole. Retighten lock nut. *(Figure 81)*
5. For winch remote plug, unfasten the two nuts and lock washers on the bottom side of the plug. *(Figure 81)*
6. Slide the winch remote plug into position on the bracket and fasten the nuts and lock washers to the bottom side of the bracket. *(Figure 81)*



Figure 81



c. Ground Wiring

1. Uninstall the nut and locking washer on the rear ground terminal of the winch.
2. Locate the longer ground wire from the Comeup installation kit.
3. Fasten one end of the ground wire to the rear terminal of the winch.
4. Route the longer ground wire along the winch wiring bundle through the triangular opening of the body structure.
5. There will be a large hexagonal nut located on the top part of the body structure. Remove the upper half of this nut to expose the stud. *(Figure 82)*
6. Attach the end of the long ground cable to this stud. *(Figure 83)*
7. Locate the shorter ground wire supplied in the Comeup installation kit.
8. Attach one terminal of the shorter ground wire to the ground stud previously mentioned. *(Figure 84)*
9. Retighten the upper nut to the ground stud. *(Figure 84)*
10. Route the cable along the structure rail and fasten to the stud on the negative ground terminal that goes to the battery *(Figure 85)*



Figure 82

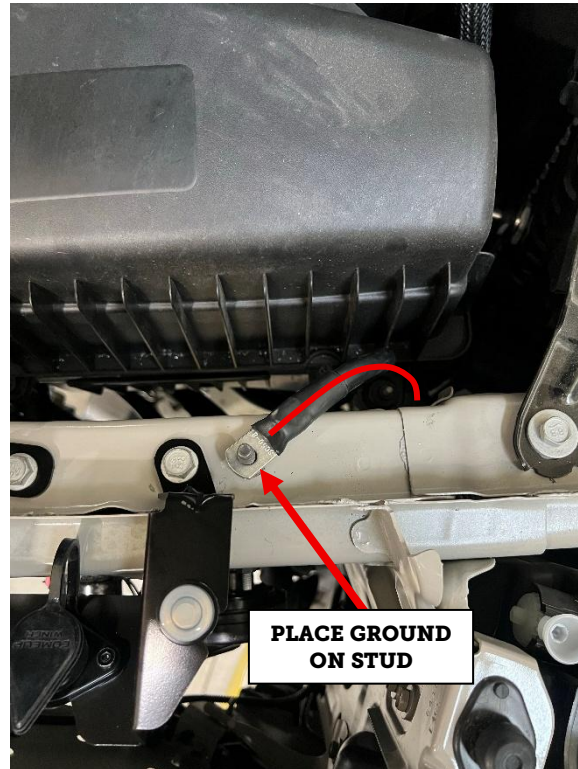


Figure 83



Figure 84

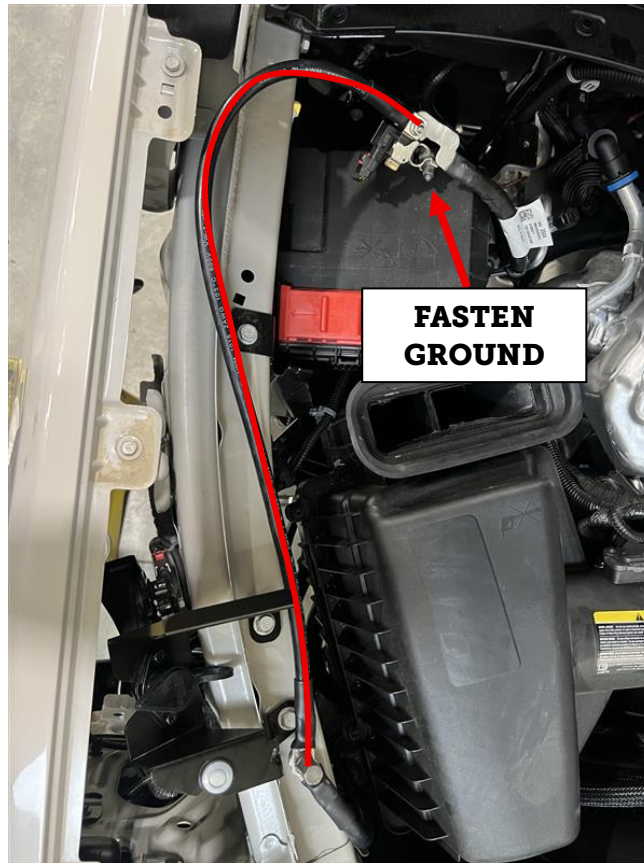


Figure 85



d. Power Block Wiring

1. Locate the electrical hardware kit from the AEV winch installation kit.

NOTE: you will not be using all of the items in this hardware kit. Pay close attention to the following steps to determine the components needed.

2. Gather the following items from the electrical hardware kit. (Figure 86-87)
3. Gather the 350amp Megafuse supplied in the Comeup winch kit. This may have been taped to the top of the winch controller. (Figure 88)
4. Locate the power block previously separated from the top of the passenger battery.
5. Remove the power block cover. (Figure 89)
6. Install the (Qty:2) M8 Threaded studs and (Qty:1) M6 threaded stud in the power block. (Figure 90)
7. Install the busbar and 350amp Megafuse using the previously gathered flange nuts. Leave the stud facing rearward in vehicle without a flange nut for next steps. (Figure 90)

Item	DPN	Description	Qty
3	15512212	M8 Nut	1
4	15512213	M6 Nut	1
7	33375927	Busbar	1
8	35038621	M8 Stud, Mathread	2
9	35038623	M6 Stud, Mathread	1

Figure 86

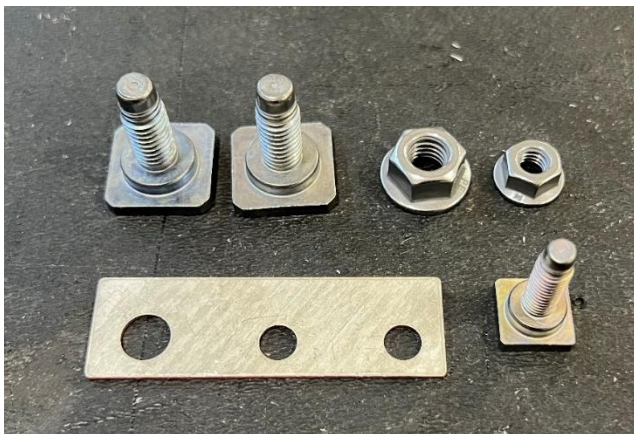


Figure 87



Figure 88



Figure 89

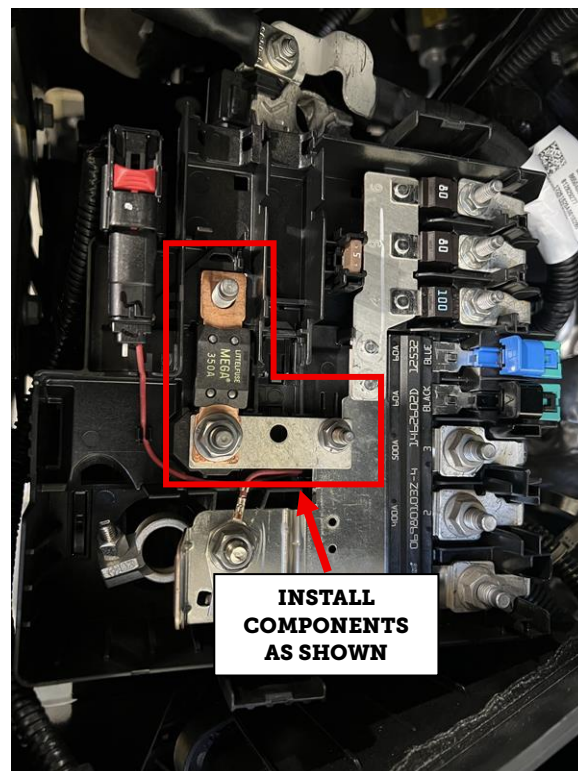


Figure 90



e. Power Wire Routing

1. The winch control module will have a final wire bundle that is disconnected. This is the power wire.
2. Route the power wire up the back of the battery tray, following the vertical battery tray brace. (the same brace where the stud was replaced in previous steps). *(Figure 91)*
3. Obtain (Qty:2) tie straps from AEV winch installation kit.
4. Secure the power wire to the vertical brace with tie straps. Keep the power wire towards centerline of vehicle to ensure it does not fall into the space needed for the battery itself. *(Figure 92-93)*
5. Route the power wire into the back of the electrical block.
6. Place terminal of power wire on previously installed M8 stud going to the 350 amp Megafuse. *(Figure 93)*
7. Gather (Qty:1) M8 flange nut from the electrical hardware kit and fasten the power cable to the power block. *(Figure 93)*

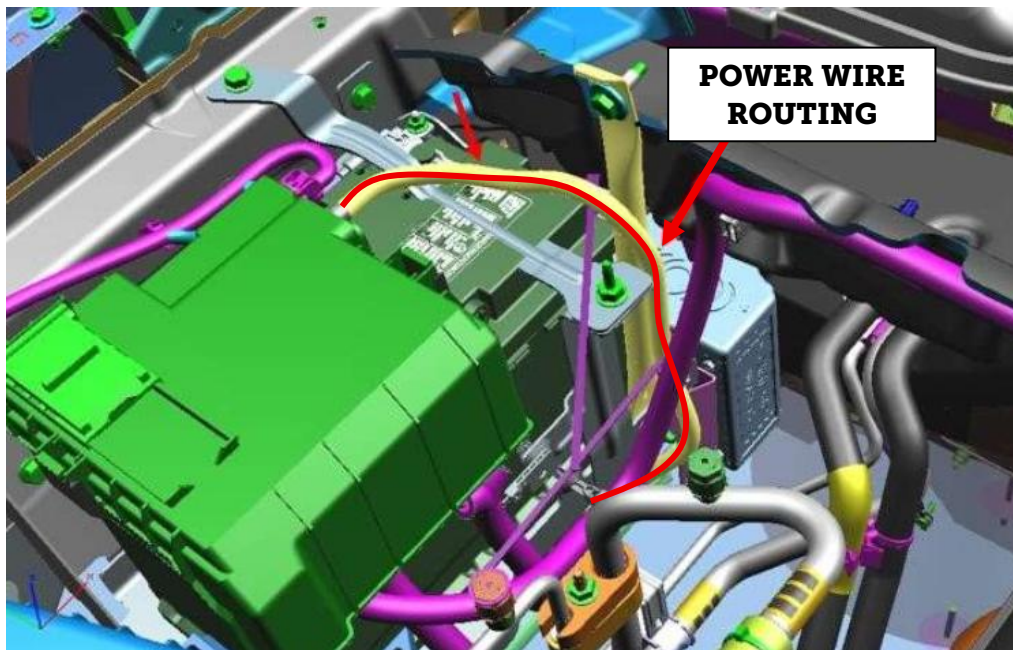


Figure 91

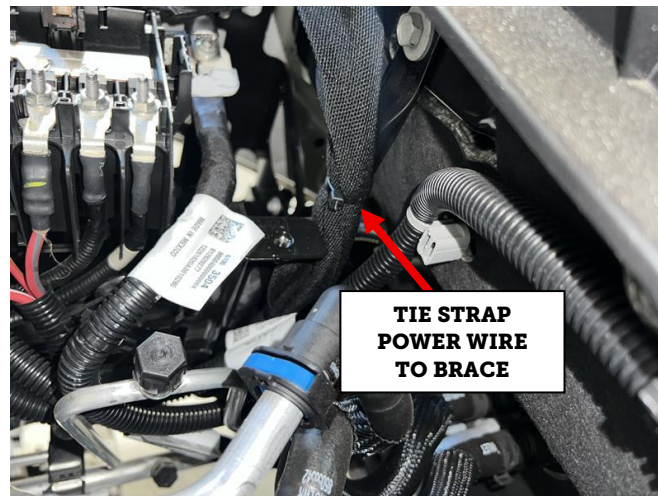


Figure 92

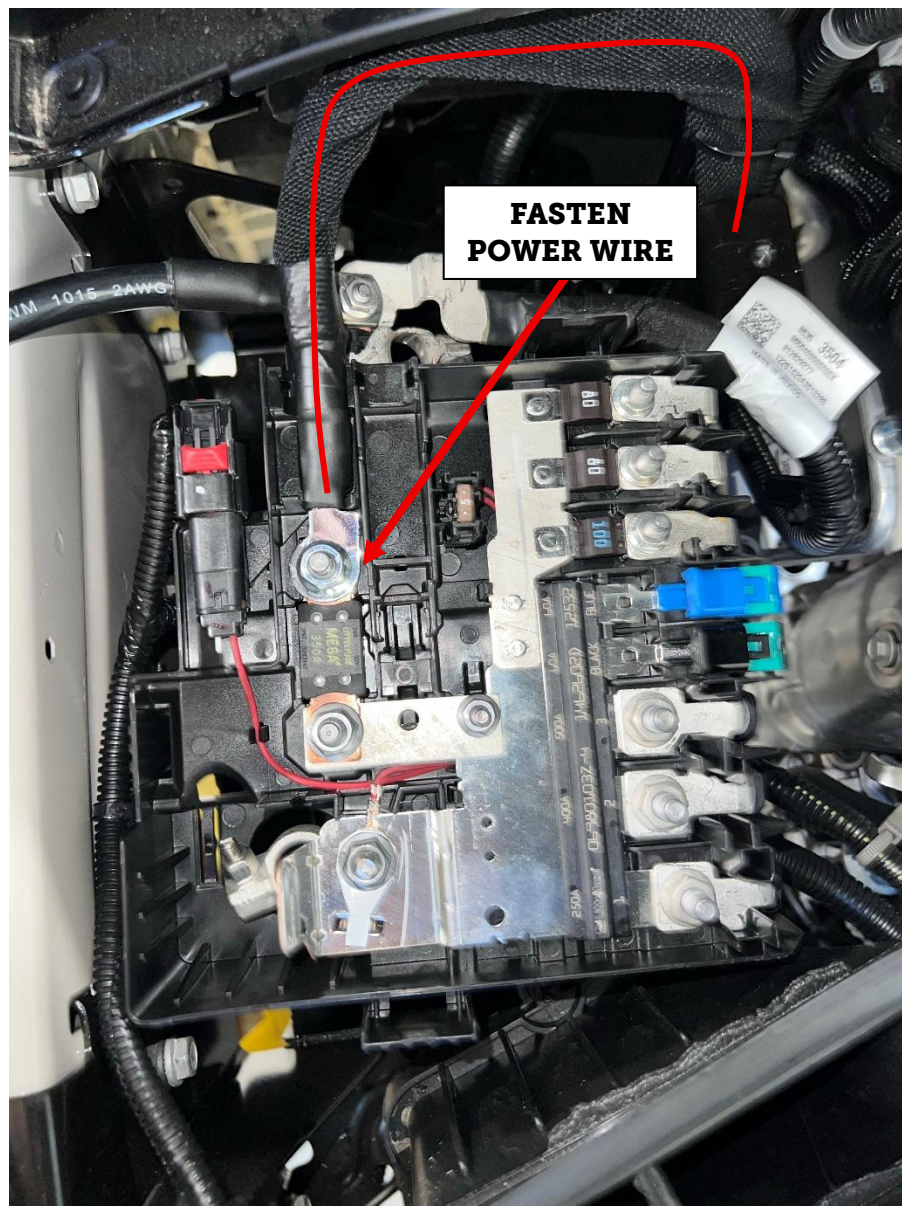


Figure 93



f. Securing The Wiring

1. Locate the remaining tie straps from the winch installation kit.
2. Locate the two remaining fir tree tie straps.
3. At the front of the vehicle, there will be two hexagonal holes where the main winch bundle rounds the corner of the vehicle structure. *(Figure 96)*
4. Insert the two fir tree tie straps in these holes and fasten to wire bundle. *(Figure 96)*
5. Secure the remaining tie straps as shown. *(Figure 94-98)*

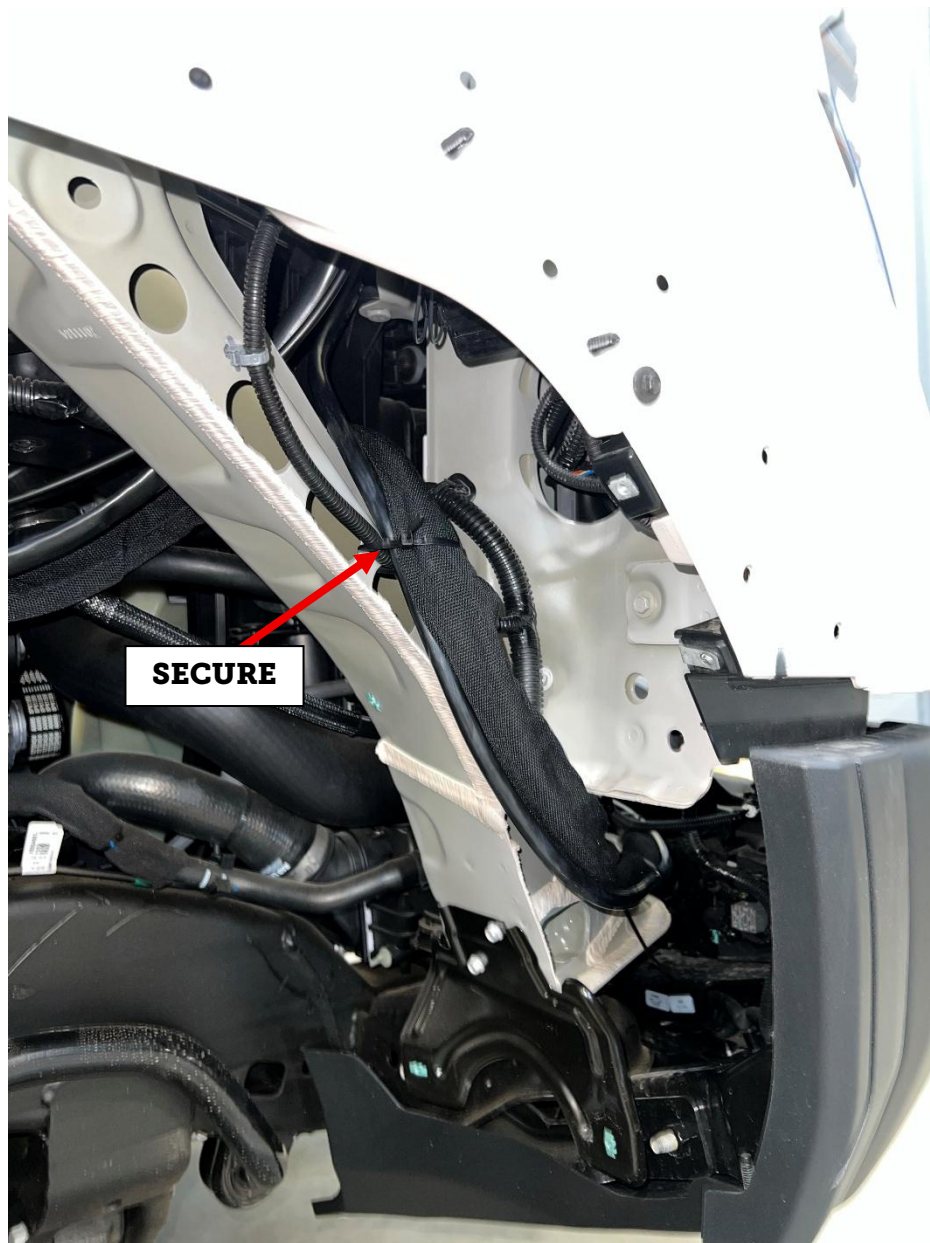


Figure 94



Figure 95

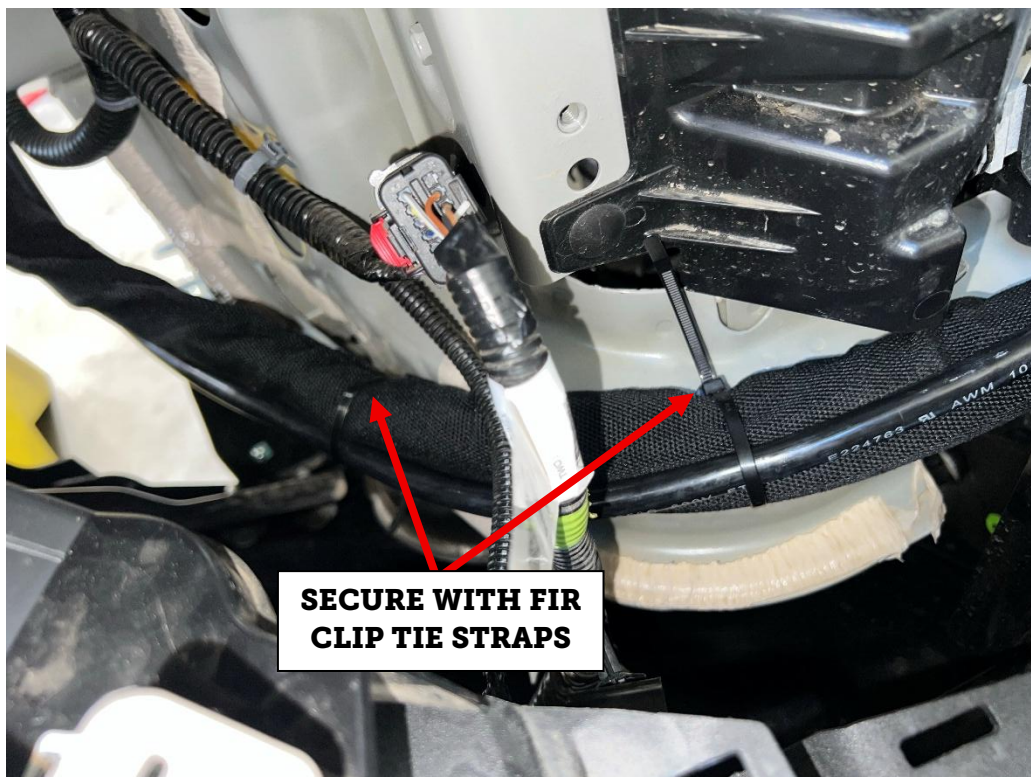


Figure 96



Figure 97

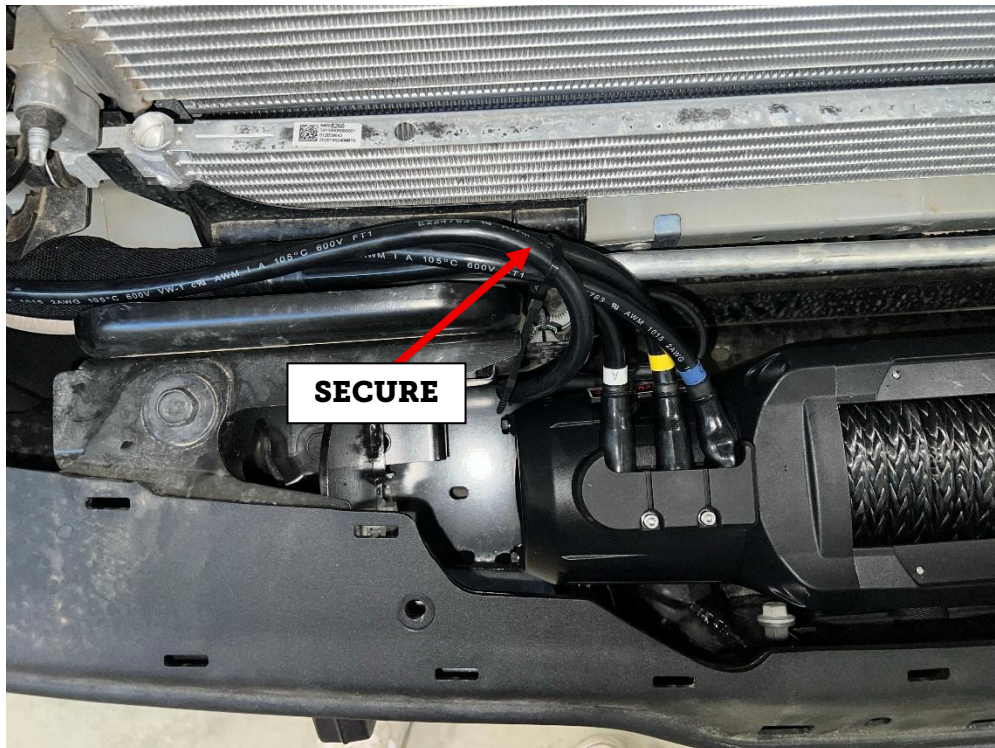


Figure 98



VIII. WINCH OPERATION CHECK

a. Battery Reassembly

1. Reinstall the passenger side battery, battery hold down, and battery brace.

b. Final Winch Operation Check

1. Attach the wired remote cable to the wired remote plug previously installed.
2. Press the button on the on/off switch. The winch control module will beep, as it is not paired with the wireless Bluetooth remote.
3. To pair the Bluetooth wireless remote, hold the power button on the wireless remote continuously for 5 seconds. The LED light will illuminate the the winch controller will no longer beep. Each time the winch is turned off, the Bluetooth remote will need to be resynched to use it.
4. Check that the winch operates. Pull the winch rope while toggling the OUT position on the winch controller. Toggle the IN position to ensure the rope retracts inward.
5. Retract the rope until the winch hook is tight against the front bumper.
6. Turn off the winch by pressing the on/off button.



IX. REASSEMBLY

- a. Reinstall the front bumper upper plastic trim molding. Do not reinstall the plastic top cap. *(Figure 99)*
- b. Reinstall the front grille support/shutters. Ensure that the shutter wire harness is reconnected before reinstalling the grille. *(Figure 100)*
- c. Reinstall the grille and upper air dam/hood latch lever. *(Figure 101)*
- d. Reinstall the wheel liners, wheel opening moldings, rear stone guards, and wheels/tires. *(Figure 102)*
- e. **OPTIONAL:** Install the front license plate cover. *(Figure 103)*

X. Installation Completed

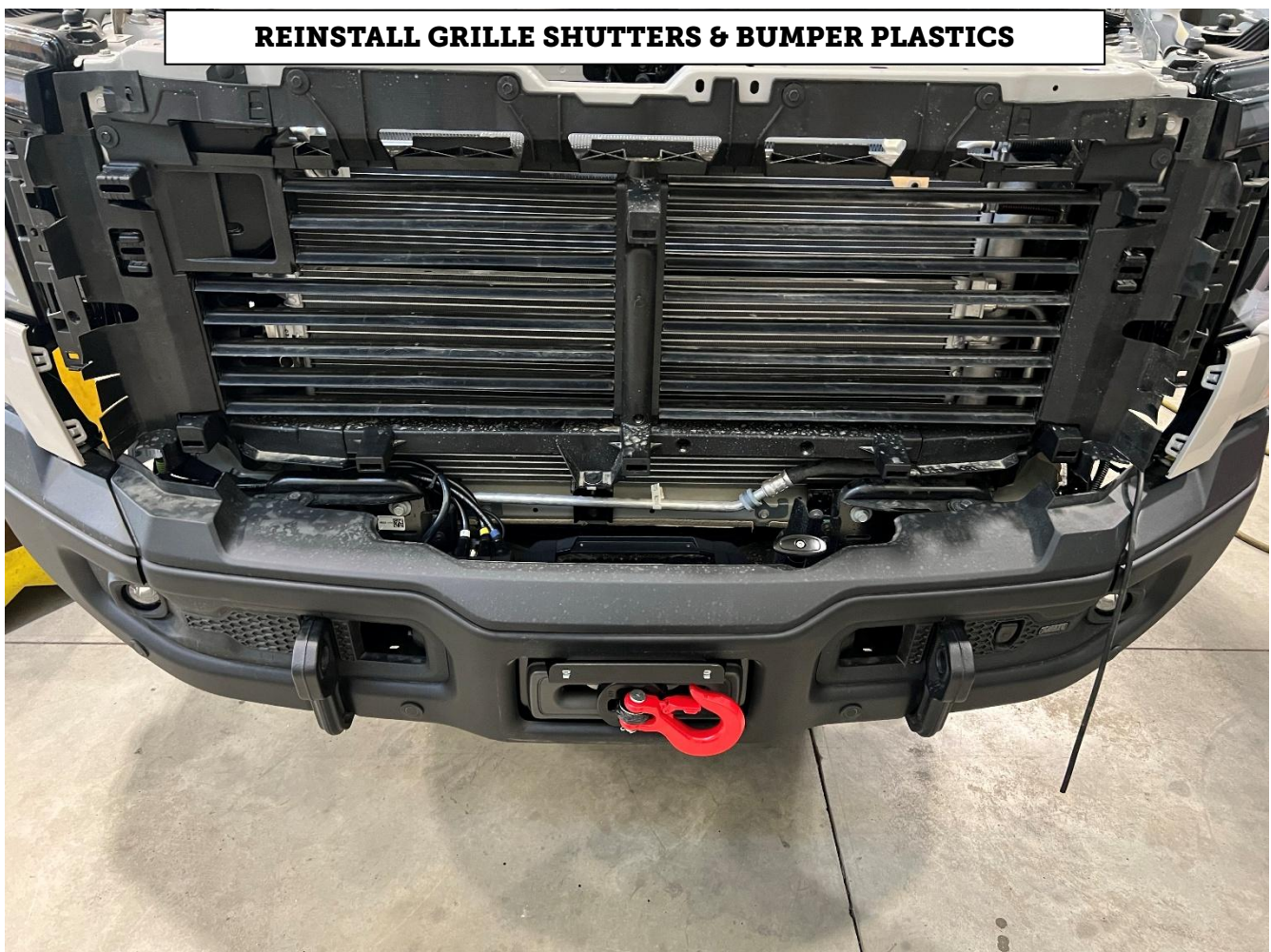


Figure 99



Figure 100

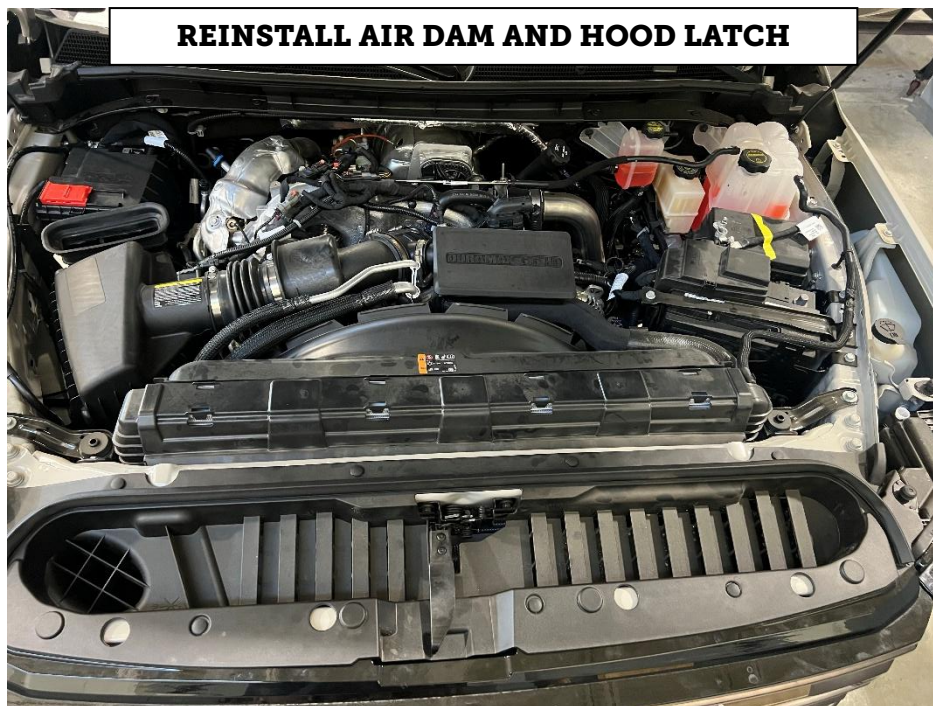


Figure 101



**REINSTALL WHEEL LINERS,
WHEEL MOLDINGS, AND WHEEL**



Figure 102

**OPTIONAL: INSTALL LICENSE
PLATE BRACKET AS SHOWN**



Figure 103