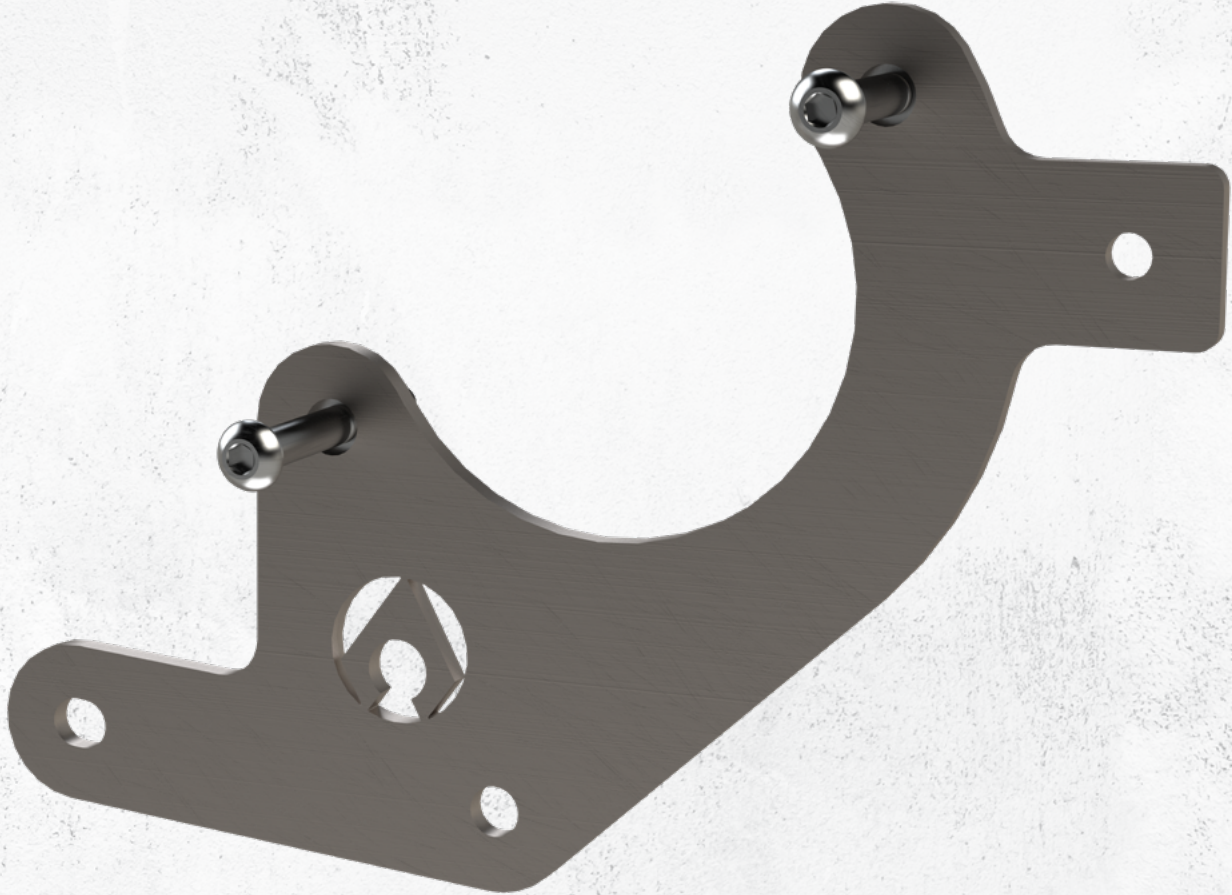




JK1104

VACUUM PUMP RELOCATION KIT



ESTIMATED INSTALLATION TIME

1.5 hours

REQUIRED TOOLS & SUPPLIES

- 3/16 hex bit
- 10mm socket
- wire strippers or razor
- wire crimper or pliers
- gloves
- cutting tool

REQUIRED SKILLS

- General Mechanics Skills

NOTES:

- Component appearance in instructions may vary from those received

WARNING MESSAGES

This product demands a basic understanding of mechanical procedures and should only be installed by individuals proficient with mechanic's tools. Any tasks involving welding or cutting parts should be performed by trained professionals. Artec Industries disclaims responsibility for mishaps arising from improper installation, or any damage or accidents resulting from cutting or welding tasks. Exercise caution and seek professional help as required.

SAFETY

1. We've furnished a written installation guide, along with relevant details, to aid you in making safety-conscious decisions.
2. While these guidelines will highlight potential risks, it's crucial to exercise your personal judgment when performing any required steps.
3. Before initiating any tasks, it's essential to conduct a job safety analysis to identify specific hazards in your situation and take measures to eliminate or protect against them.
4. Before commencing the installation of this product, make sure you familiarize yourself with and fully understand all safety warnings and guidelines.

DISCLAIMERS

All Artec Industries products should be installed by a competent, certified individual following the intended installation instructions for each product. Incorrect installations not only nullify any warranties but could also lead to product damage or even damage to the vehicle it's installed on. Prior to installation, carefully read all provided instructions or manuals, and watch any associated videos. For any doubts or queries, reach out to Artec Industries before beginning the installation process.

Many products necessitate lifting and supporting the vehicle off the ground. It is the installer's responsibility to ensure this can be done safely and that the right equipment is at hand to carry out the installation. Artec Industries installation instructions presume the installer is competent to lift the vehicle safely and correctly.

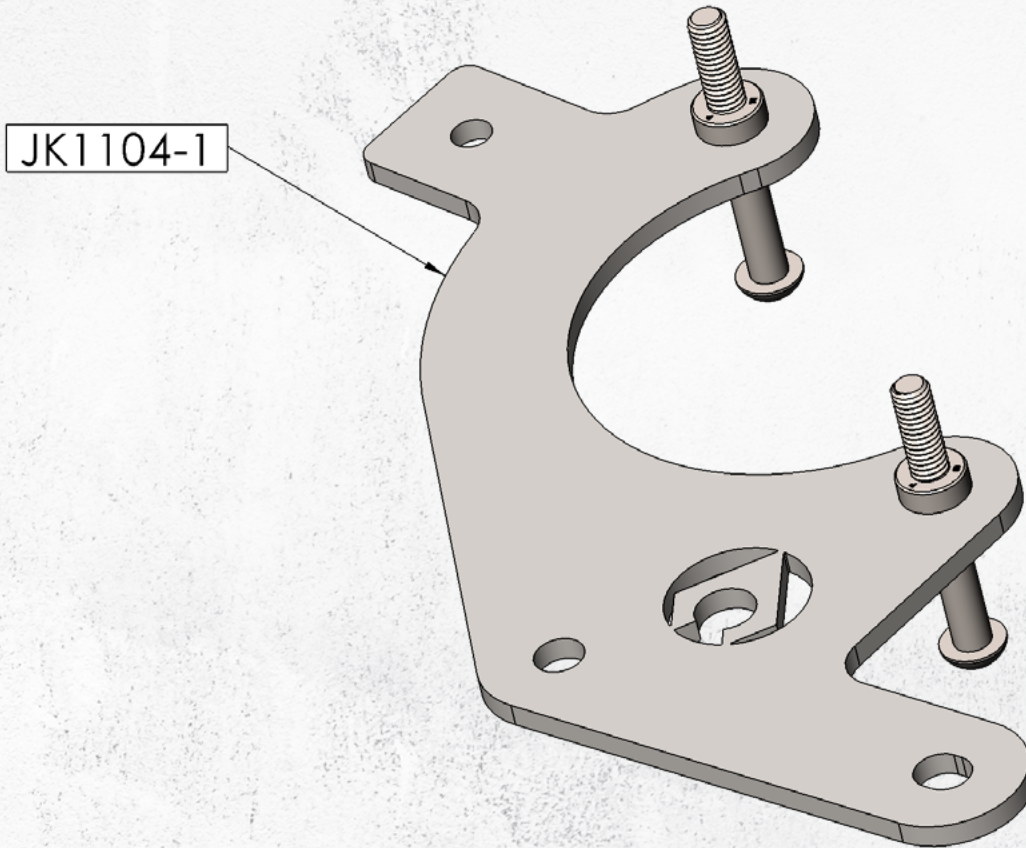
Modified vehicles won't perform identically to their stock counterparts. It's incumbent upon the vehicle owner to understand the alterations such modifications will bring to the vehicle's driving dynamics. These might encompass (but aren't limited to): changes in handling, braking, rollover angle, and potential incompatibilities with the factory-installed anti-lock braking systems, stability control systems, or traction control systems.

SPECIAL NOTES

- Unless otherwise noted, all hardware should be **LOOSELY** tightened by hand until the very end of installation when all components are attached.

JK1104 PARTS BILL OF MATERIALS

Please confirm you have all the listed parts below **BEFORE** beginning your installation. If any parts are damaged or missing, **KEEP ALL ORIGINAL BOXES and PACKAGING** and contact us.



NOTE: The part numbers indicated above end in a “.” and “letter” which indicate the revision number for the part. The etched part number on your physical parts do not need to match the above drawing revision exactly.

JK1104 BILL OF MATERIALS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	HW0099	M6-1mm x 50mm Zinc Hex Drive Button Cap Screw	2
2	HW0128	20-18GA Heat Shrink Red Seamless Butt Connector	4
3	HW0304	2 Wire Silicon Electrical Wire - 20 gauge - 4 ft	1

DISASSEMBLY INSTRUCTIONAL GUIDE



Step 1:

Using a 10mm socket, remove the two bolts securing the vacuum pump to the frame.

Use a small screw driver and remove the green safety tab to remove the connection.



Step 2:

Pull the rubber vent line off of the vacuum pump. This can be re routed to your desired location.

DISASSEMBLY INSTRUCTIONAL GUIDE



Step 3:

Located on the vacuum pump bracket, remove the connection by pulling the trees out of the mount using a screw driver or body clip tool.



Step 4:

Remove the connector and vacuum pump from the vehicle.

DISASSEMBLY INSTRUCTIONAL GUIDE



Step 5:

On the driver side of the vehicle, remove the 10 mm nut holding the horn.

This hardware will be reused.



Step 6:

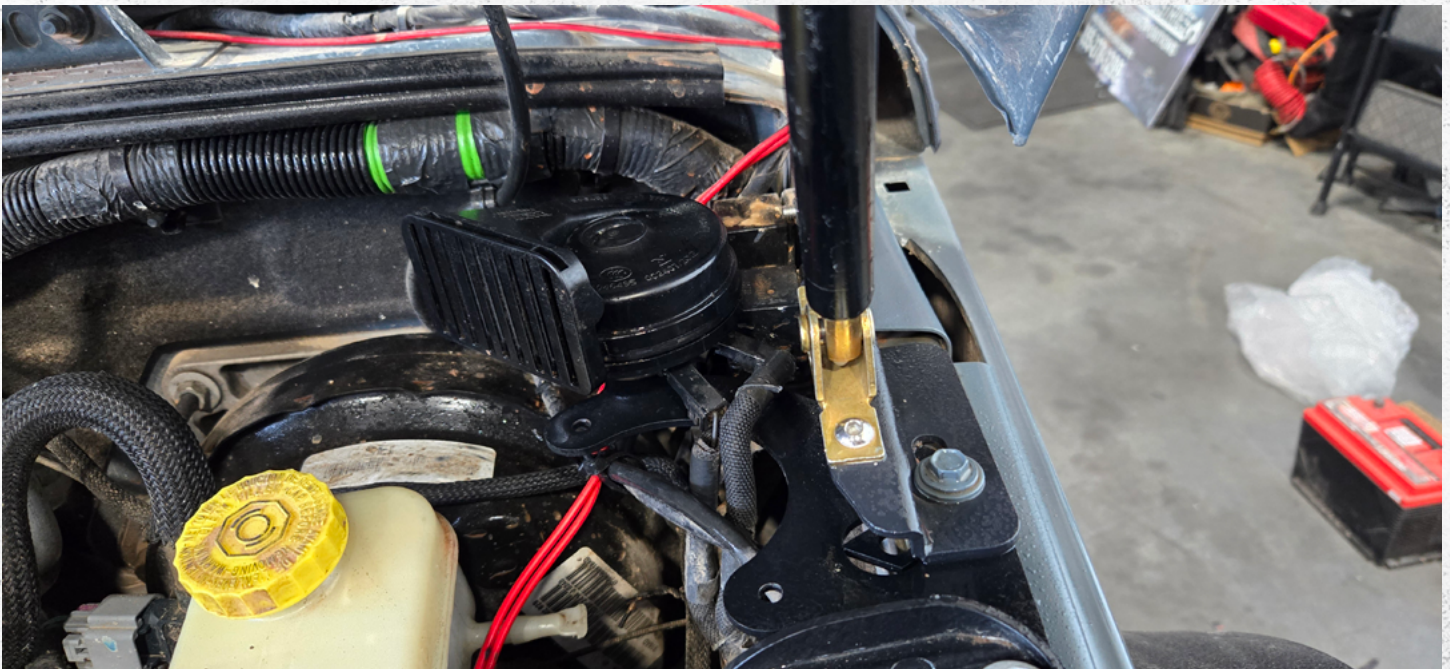
Remove the two factory bolts nearest to the driver side of the vehicle using a 10mm socket.

ASSEMBLY INSTRUCTIONAL GUIDE



Step 7:

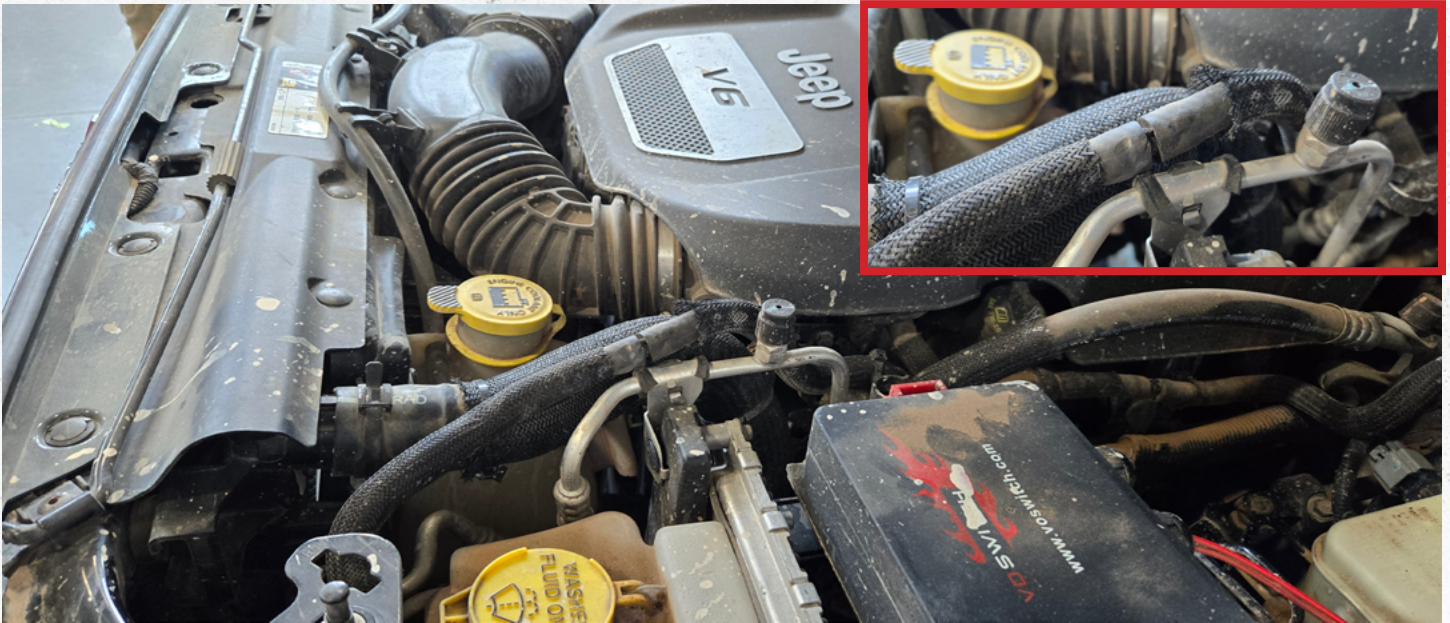
Slide the JK1104 bracket into place and install with the removed hardware using a 10mm socket.



Step 8:

Install the horn onto the bracket using a 10mm wrench and the factory nut,

ASSEMBLY INSTRUCTIONAL GUIDE



Step 9:

There is a factory split in the vacuum pump line, use a small screw driver to gently pry and separate the tube.



Step 10:

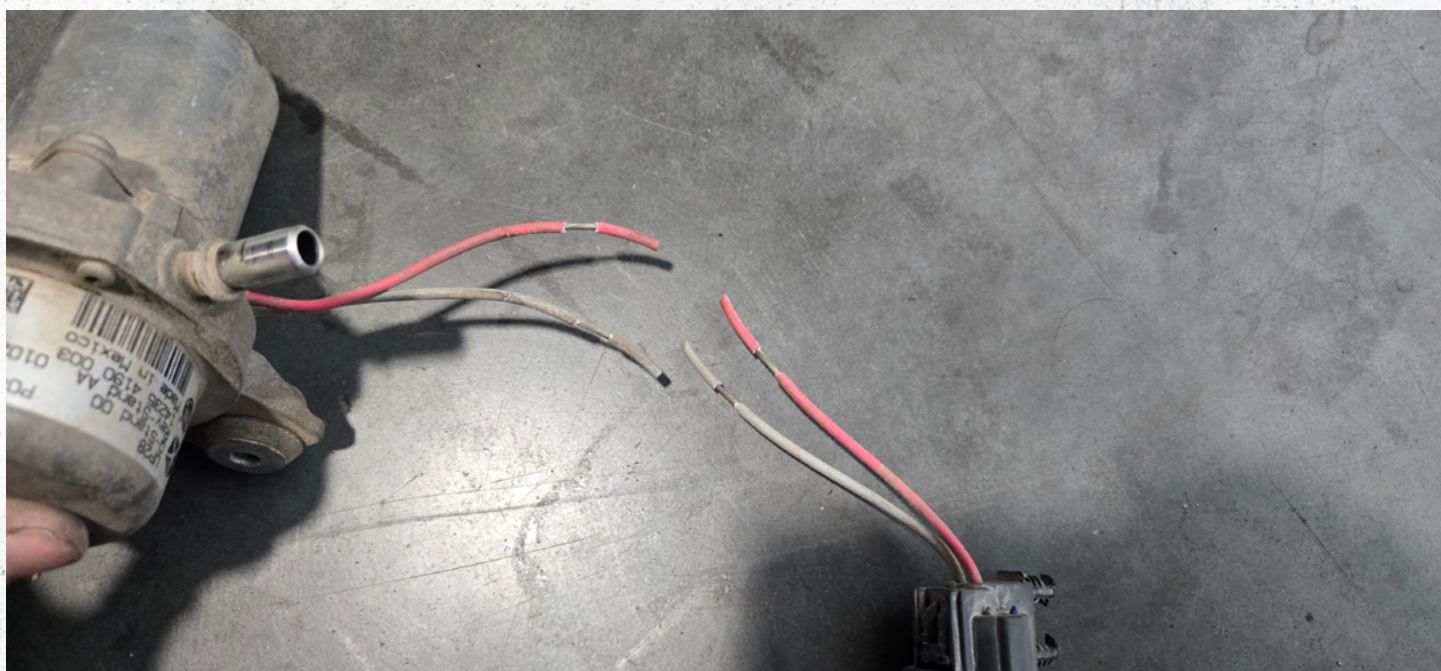
Remove the connection that was connected to the vacuum pump leaving the male end exposed.

ASSEMBLY INSTRUCTIONAL GUIDE



Step 11:

Install the removed piece from step 10 and insert it into the vacuum line from step 9.



Step 12:

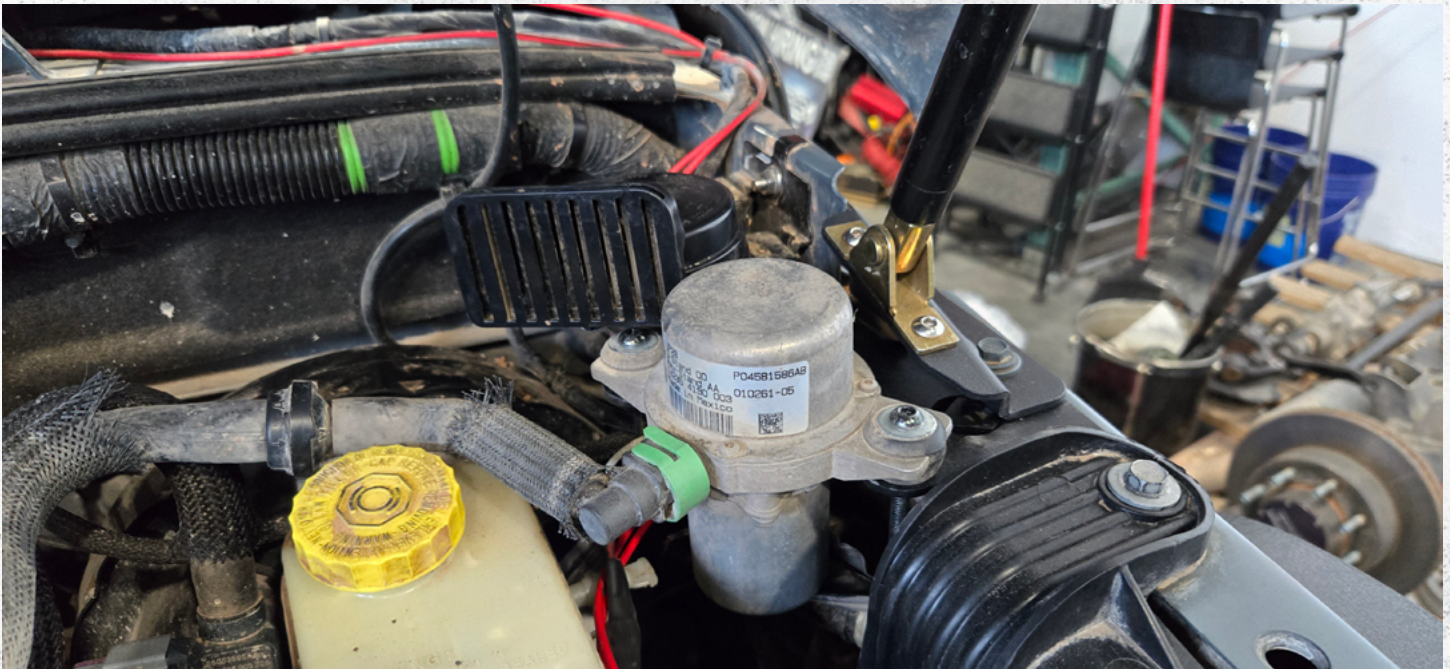
We will run a new length of wire using the supplied wiring and connections. Cut and expose the wire to extend the connection to the desired location. We will route our connection back to the factory location.

ASSEMBLY INSTRUCTIONAL GUIDE



Step 14:

Finish your wiring by connecting to the vacuum pump connector and secure it using the factory tree clips or where you have routed the connector.



Step 15

Install the vacuum pump line and re install the green safety clip.

NOTE FOR NIGHTHAWK BUMPER



Step 1:
Cut the vacuum pump bracket as shown in the image bellow.



Step 1: Continued
Install the vacuum pump line and re install the green safety clip.

NOTE FOR NIGHTHAWK BUMPER



Step 1: Continued

Pictured is the correct fitment of the cut vacuum pump bracket allowing the Nighthawk bumper to sit in the correct position.



Verify ALL previously installed hardware is tight / torqued to specifications.

CONCLUSION

Congratulations on finishing the installation for your Artec Industries 4xE engine Skid. Before driving your vehicle, inspect all bolts to ensure they are properly tightened.

If you used a vehicle lift, take proper care to ensure you lower your vehicle safely.

Now take your vehicle out and enjoy the outdoors in confidence.

MAINTENANCE / CARE

- After 500 miles, inspect all components and hardware to ensure they are properly fastened.
- If driving during the winter where salt is used on the roads, thoroughly and frequently wash underside of vehicle to prevent salt based corrosion.
- If removal of skid panels is required for vehicle maintenance, and bolts will not loosen, tap the bolt heads with a small sledge hammer using moderate force. This will allow the threads to loosen.
- Spray wax or similar products can be used to create a protective barrier on raw metals to protect against long term corrosion.