

# **PAINLESS**

## **PERFORMANCE PRODUCTS**



## **Trail Rocker Installation Instructions**

**Trail Rocker - Genesis Bracket**

**For Installing Painless Part Number: 57200**

**Manual # 90591**

**To be used with Painless Kit #'s: 57000 - 57005**

Painless Performance Products recommends you, the installer, read this installation manual from front to back before installing this harness.





## **Painless Performance Products, LLC**

**2501 Ludelle Street**

**Fort Worth, TX 76105-1036**

**800-423-9696 phone – 817-244-4024 fax**

**Web Site: [www.painlessperformance.com](http://www.painlessperformance.com)**

**E-Mail: [painless@painlessperformance.com](mailto:painless@painlessperformance.com)**

If you have any questions concerning the installation of this product, feel free to call Painless Performance Products' tech line at 1-800-423-9696. Calls are answered from 8am to 5pm central time, Monday thru Thursday, 8am-4:30pm Friday, except holidays.

Here we have provided you with accurate instructions for the installation of this product. However, if you have comments/suggestions concerning these instructions, please call or email us (our contact information can be found at the top of this page or online at [www.painlessperformance.com](http://www.painlessperformance.com)). We sincerely appreciate your business.

**Painless Performance Products, LLC** shall in no event be liable in contract or tort (including negligence) for special, indirect, incidental, or consequential damages, such as but not limited to, loss of property, or any other damages, costs or expenses which might be claimed as the result of the use or failure of the goods sold hereby, except only the cost of repair or replacement.

**Should you damage or lose part of your manual, a full color copy of these instructions can be found online at [www.painlessperformance.com](http://www.painlessperformance.com)**

Installation Manual: **90591**

**1<sup>st</sup> Edition: February, 2017**

**Copyright © 2016 by Perfect Performance Products, LLC**

# **TABLE OF CONTENTS**

<b><u>PAGE #</u></b>	<b><u>SECTION</u></b>
1	<b><u>CONTENTS OF THE PAINLESS KIT</u></b>
2	<b><u>TOOLS NEEDED</u></b>
3	<b><u>FUSE/RELAY CENTER INSTALLATION</u></b>
30	<b><u>PAINLESS PERFORMANCE LIMITED WARRANTY AND RETURN POLICY</u></b>

# CONTENTS OF THE PAINLESS KIT

Refer to the **Contents Figure** (below) to take inventory. See that you have everything you're intended to have in this kit. If you find that anything is missing or damaged, please contact the dealer where you obtained the kit or Painless Performance at (800) 423-9696.

## The Painless Trail Rocker Kit 57200 should contain the following:

- Trail Rocker/Genesis Adapter Brackets
  - Powder coated universal fuse holder bracket
  - Powder coated relay center bracket
- Parts Kit: (2) 1/4" – 20 x 2 1/2" bolts, (1) 1/4" – 20 x 3/4" bolt, (1) 1/4" flat washer, (3) 1/4" – 20 Nylock nut, (1) 6 ga. 3/8" ring terminal, (1) 6 ga. 5/16" ring terminal, (1) 16-14 ga. ring terminal, (2") 1/4" black heat shrink, (2") 1/2" red heat shrink.
- This manual 90591



## SMALL PARTS

Included with the Painless harness are parts kits containing miscellaneous terminals, fuses, screws, and nuts. Many of the terminals are non-insulated and will require heat shrink to be applied after the terminal has been properly crimped. Heat shrink has been supplied. These non-insulated terminals allow you to keep a cleaner, more traditional look. When crimping these terminals, take notice to the split in the terminal. Make sure the smooth side of the jaw on the crimper goes towards this split.



## TOOLS NEEDED

This installation primarily requires only basic hand tools that may include, but are not limited to:

1. Wrenches & socket sizes:
  - a. 1/2"
  - b. 5/16"
  - c. 7/16"
  - d. 10mm
  - e. 13mm
2. 3/16" Allen Wrench
3. Screwdrivers: (2) #2 Standard Length and Stubby Phillips Head
4. 18-10 ga. Wire Cutter/Stripper
5. Hand Crimpers
6. Cable Cutters
7. Cable Crimping Tool
8. Hammer
9. Permanent Marker



In addition to these basic hand tools, you will need, at least, the following:

### Volt/Ohm Meter:

A Volt/Ohm meter is always a good tool to have on hand when installing any type of electrical component into a vehicle. The most basic meters provide the two functions required to diagnose electrical issues commonly seen during a harness install. These two functions are the ability to read DC Voltage and electrical continuity or Ohms. They can be purchased from any home improvement store, local hardware store and electrical supply shop and online.



### Heat Gun:

Very useful to shrink the heat-shrink found in the parts kit.

## FUSE/RELAY CENTER INSTALLATION

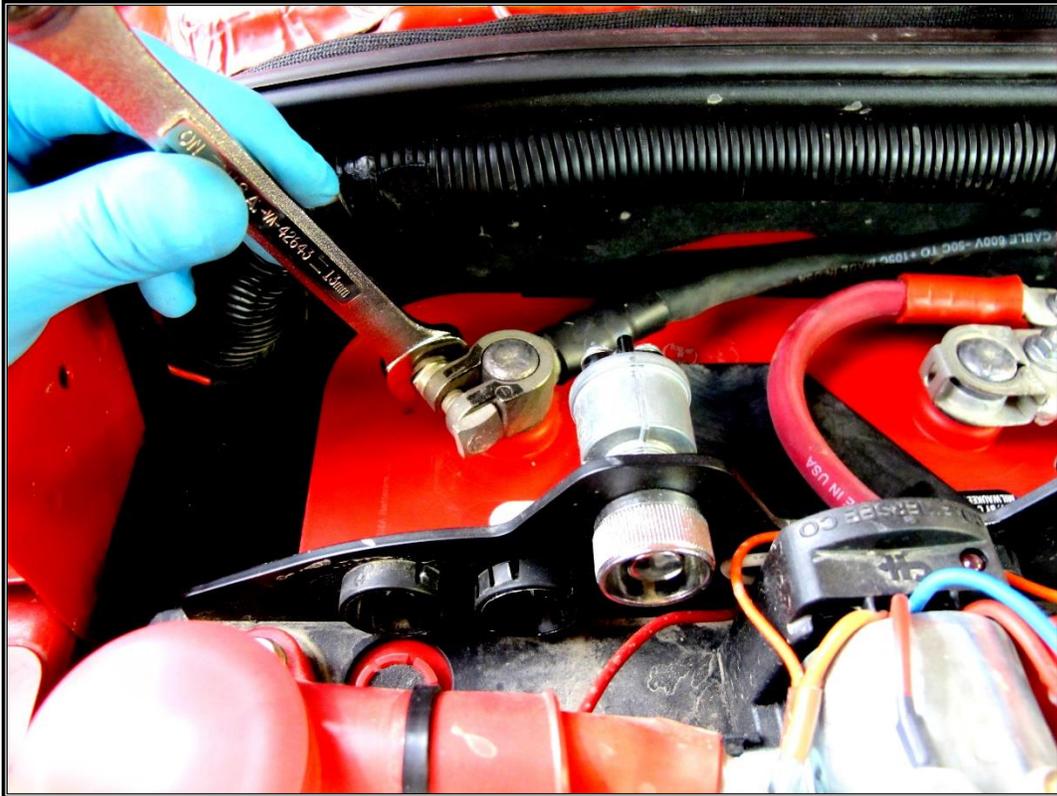
The following steps **MUST** be followed as they are printed. Do not move onto other parts of the installation out of sequence.

**CAUTION: BEFORE THE INSTALLATION OF THIS PRODUCT, DISCONNECT THE POWER FROM YOUR VEHICLE BY REMOVING THE BATTERY CABLES FROM THE BATTERY. THE BATTERY SHOULD NOT TO BE RECONNECTED UNTIL INSTRUCTED**

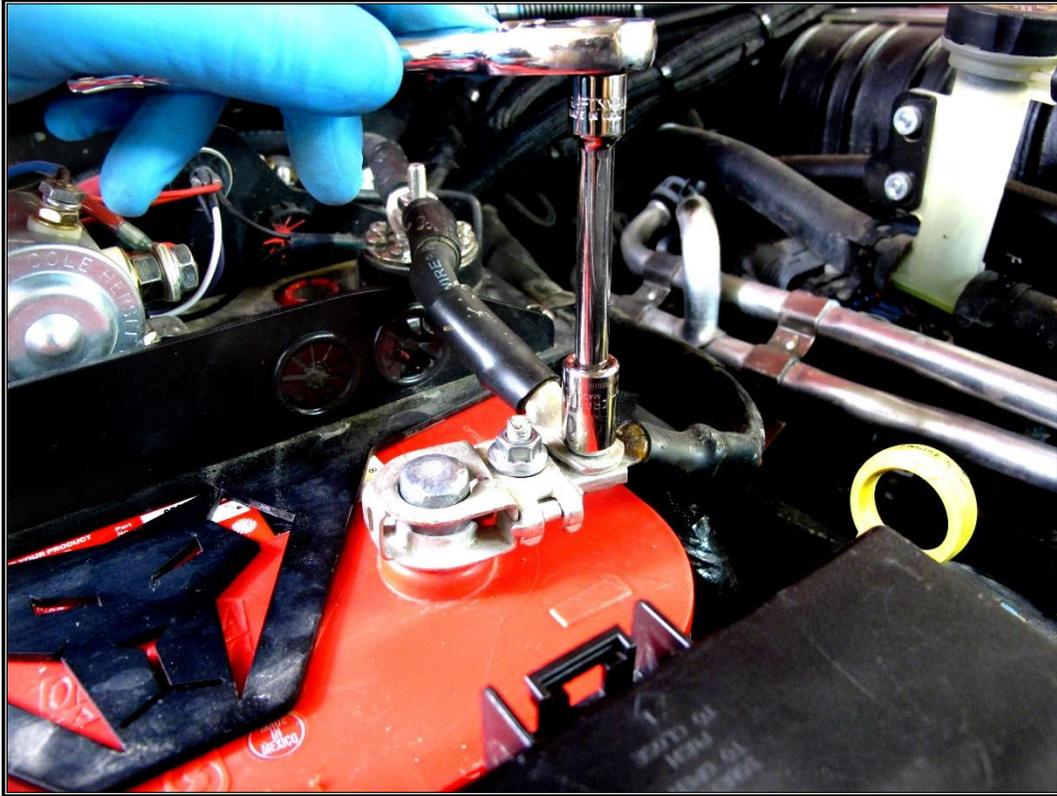
**Step 1:** Look at your dual battery set-up. For the purposes of this manual the battery closest to the firewall will be referred to as “**BAT. A**” while the other battery will be called “**BAT. B.**”



**Step 2:** Begin by removing the negative battery cable from **BAT. A** with a  $\frac{1}{2}$ " or 13mm wrench.



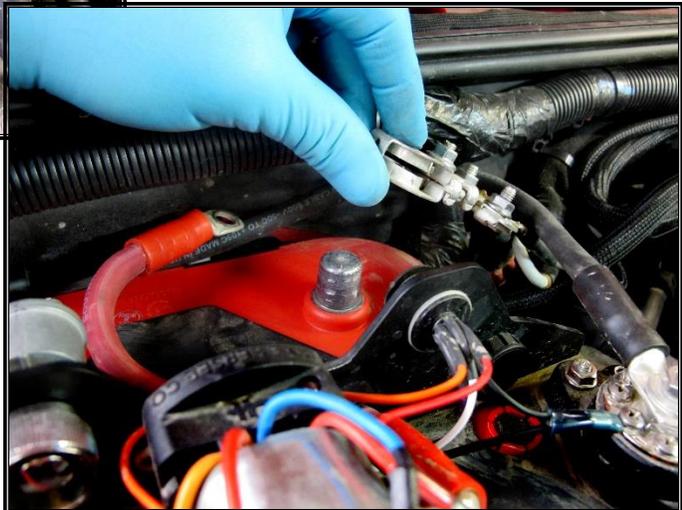
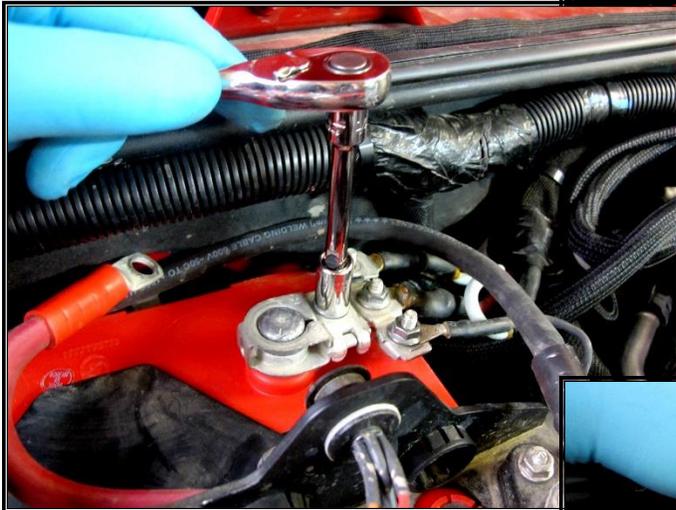
**Step 3:** Next, use a **10mm socket** to remove the cable going from the **Genesis Bracket** to the negative battery terminal on **BAT. B.**



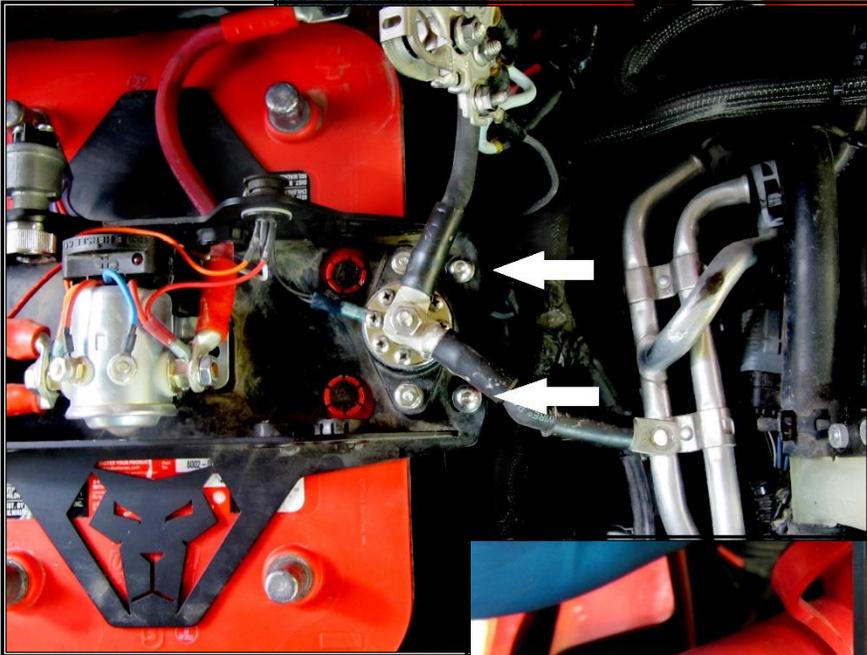
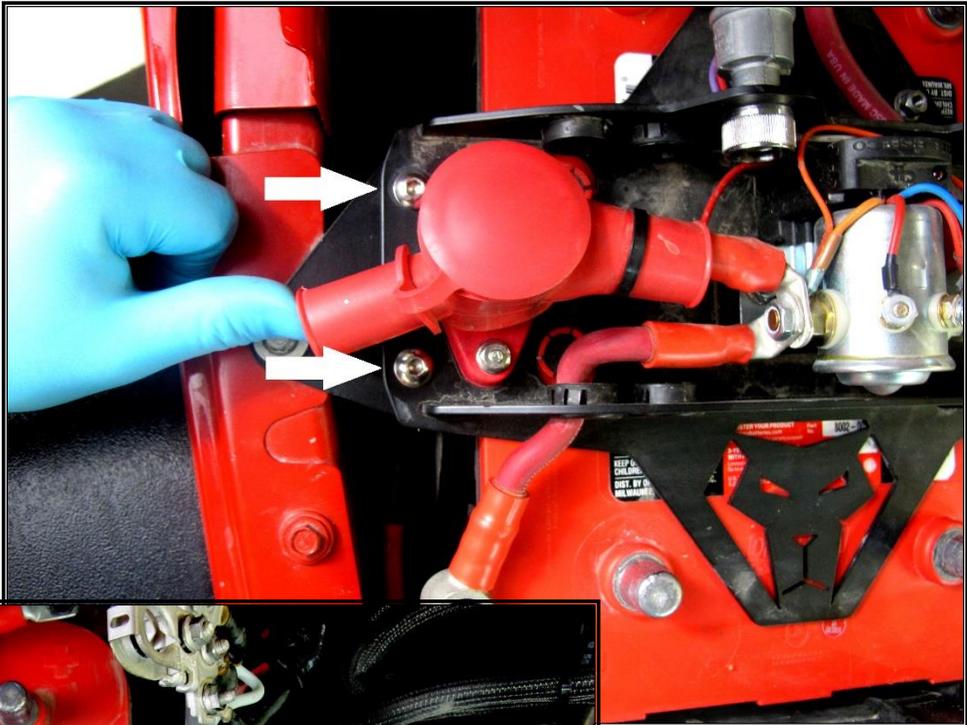
**Step 4:** Then remove the negative cable with a **10mm socket**, followed by the positive cable, from Bat. B with a **½” or 13mm wrench**.



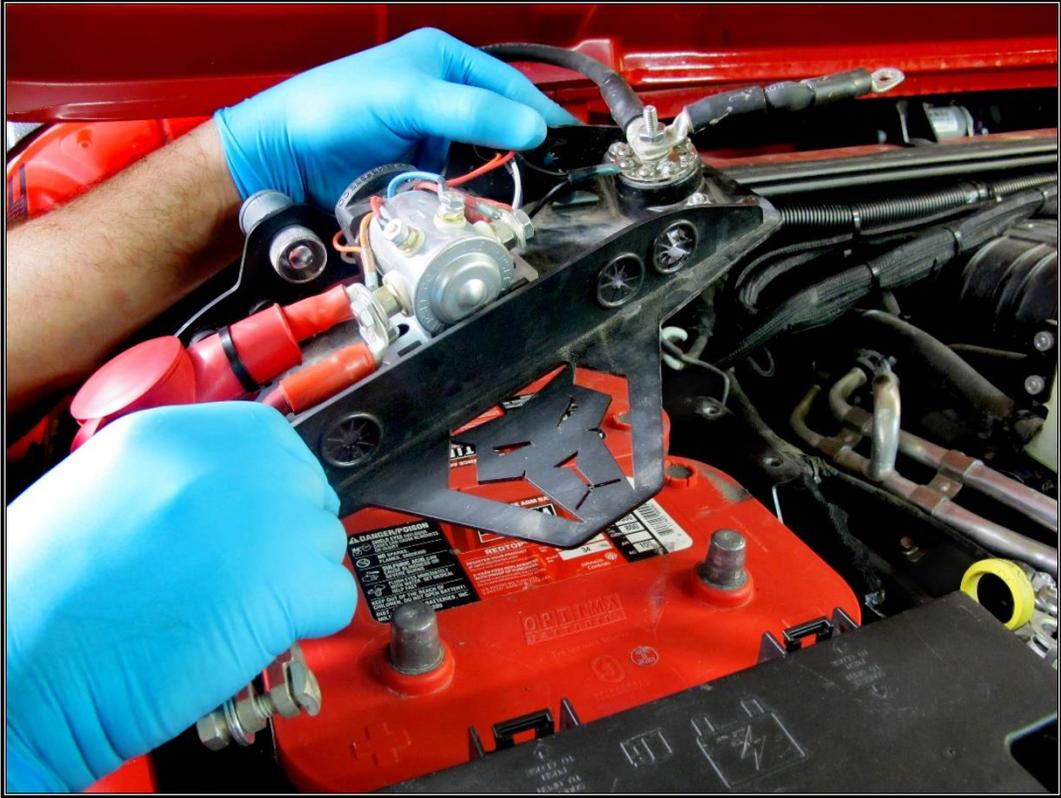
**Step 5:** Next, use a **10mm socket** to remove the cable going from the **Genesis Bracket** to the positive battery terminal on **BAT. A** Then remove the positive terminal itself from the battery post.



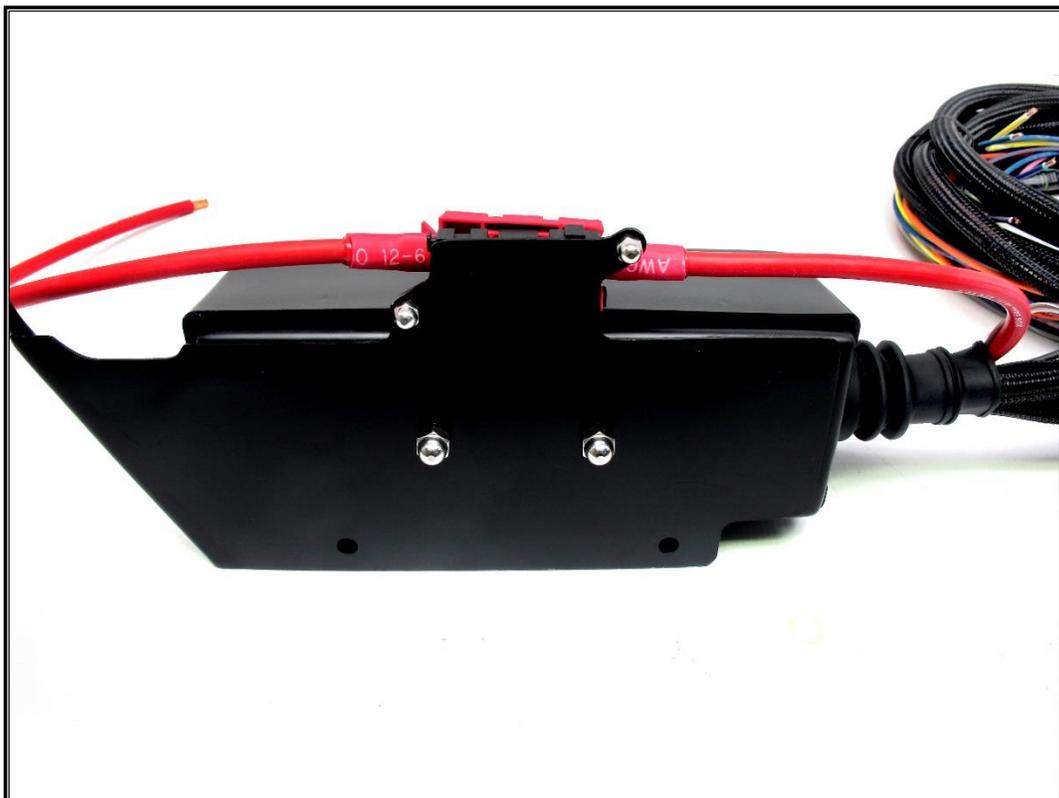
**Step 6:** Locate the bolts holding the **Genesis Bracket** onto its battery tray and remove them using a  $\frac{3}{16}$ " Hex-head drive or Allen wrench.



**Step 7: With the Genesis Bracket disconnected from the batteries and unbolted from the battery tray, remove it and set it aside. Then, remove BAT. B completely.**



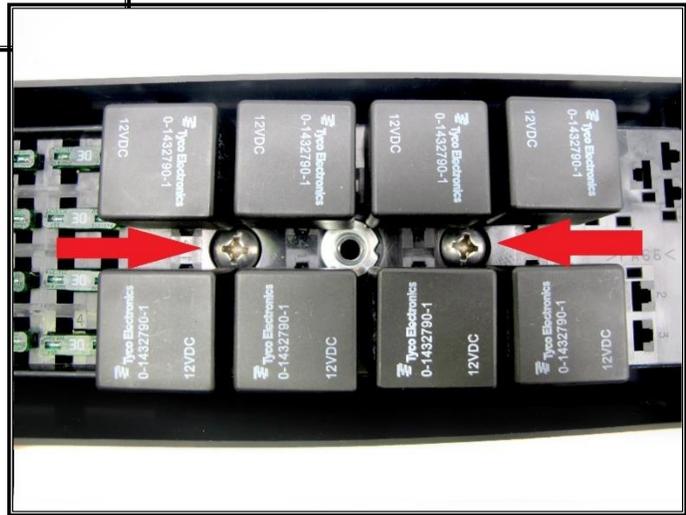
**Step 8:** This kit replaces the Fuse/Relay Center mounting bracket and mounting bolts in your JK Trail Rocker Kit (sold separately) with the Trail Rocker/Genesis adapter brackets and (2) 2½” mounting bolts. Locate the Fuse/Relay Center and turn it over.



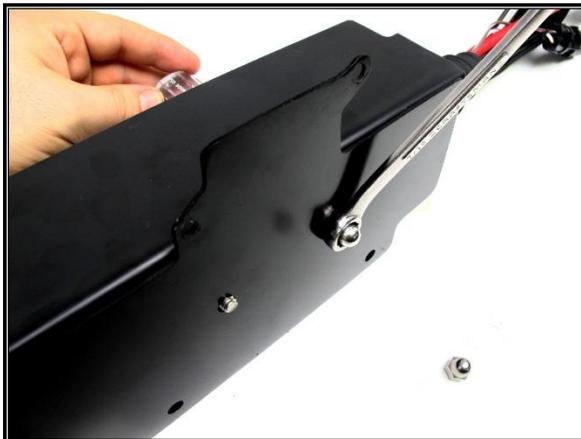
**Step 9:** Use a  $\frac{5}{16}$ " wrench and a #2 screwdriver to remove the acorn nuts securing the fuse holder to the Fuse/Relay center mounting bracket.



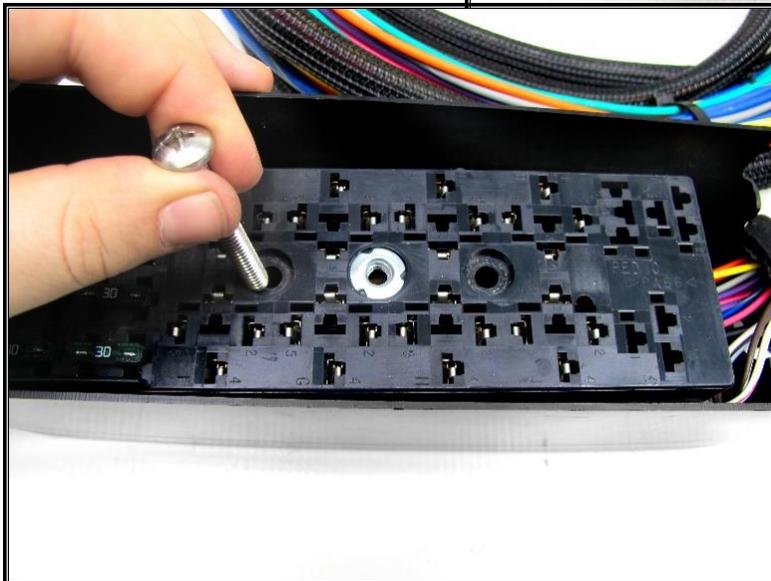
**Step 10:** Remove the lid from the Fuse/Relay Center using a  $\frac{7}{16}$ " wrench or socket. Then locate the mounting bolts.



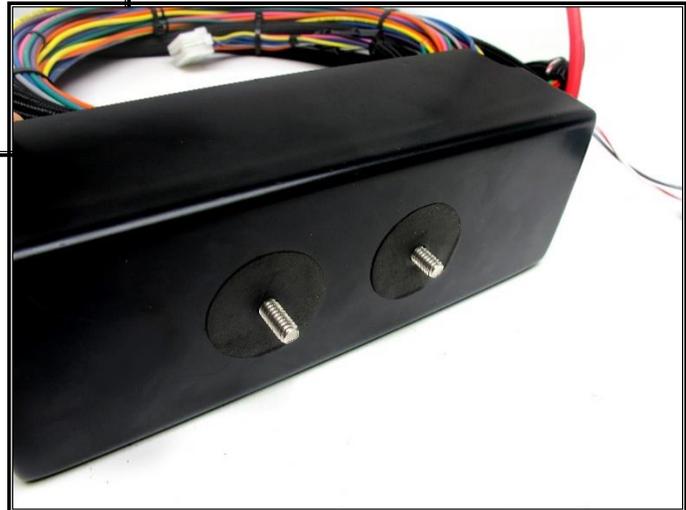
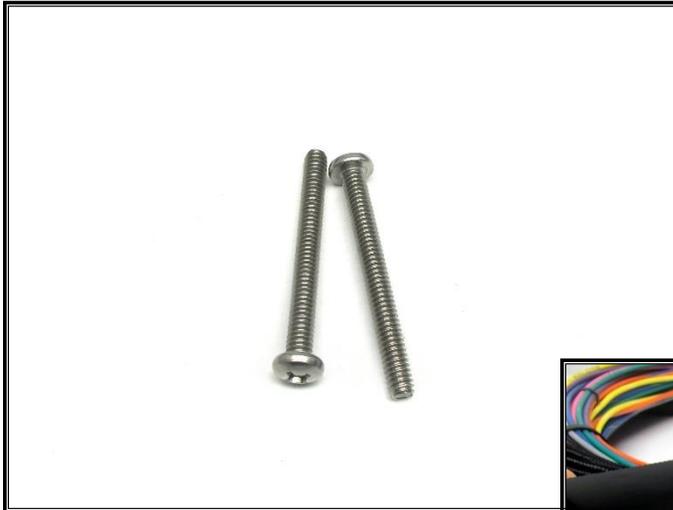
**Step 11:** Use a #2 Stubby Philips-head screwdriver to hold the bolts in place while you remove the acorns nuts on the bottom of the unit with a  $\frac{7}{16}$ " wrench or socket.



**Step 12:** To gain access to the **mounting bolts** remove the **relays** from the Fuse/Relay center. Then remove the **mounting bolts**.



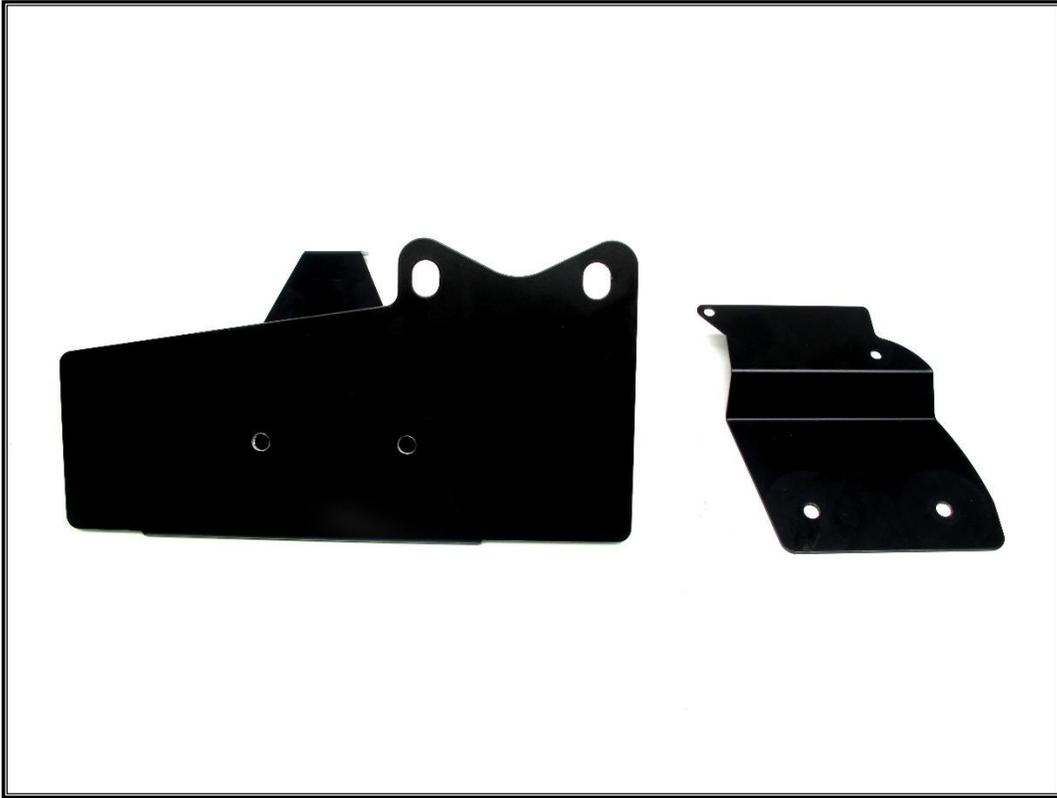
**Step 13:** Locate the (2)  $\frac{1}{4}$ " – 20 x 2 $\frac{1}{2}$ " bolts included in the parts kit, and insert them into the Fuse/Relay center.



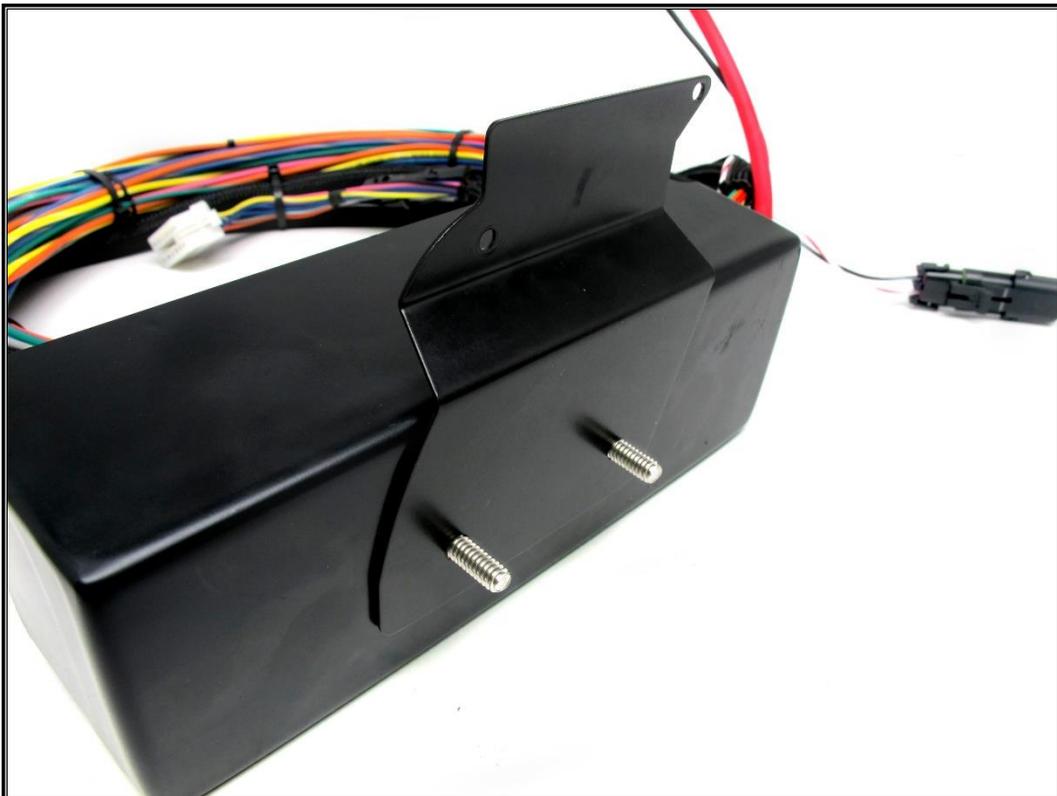
**Step 14:** Replace the relays.



**Step 15: Locate the Trail Rocker/Genesis adapter brackets in the kit.**



**Step 16: Slide the universal fuse holder bracket over the [mounting bolts](#) first.**



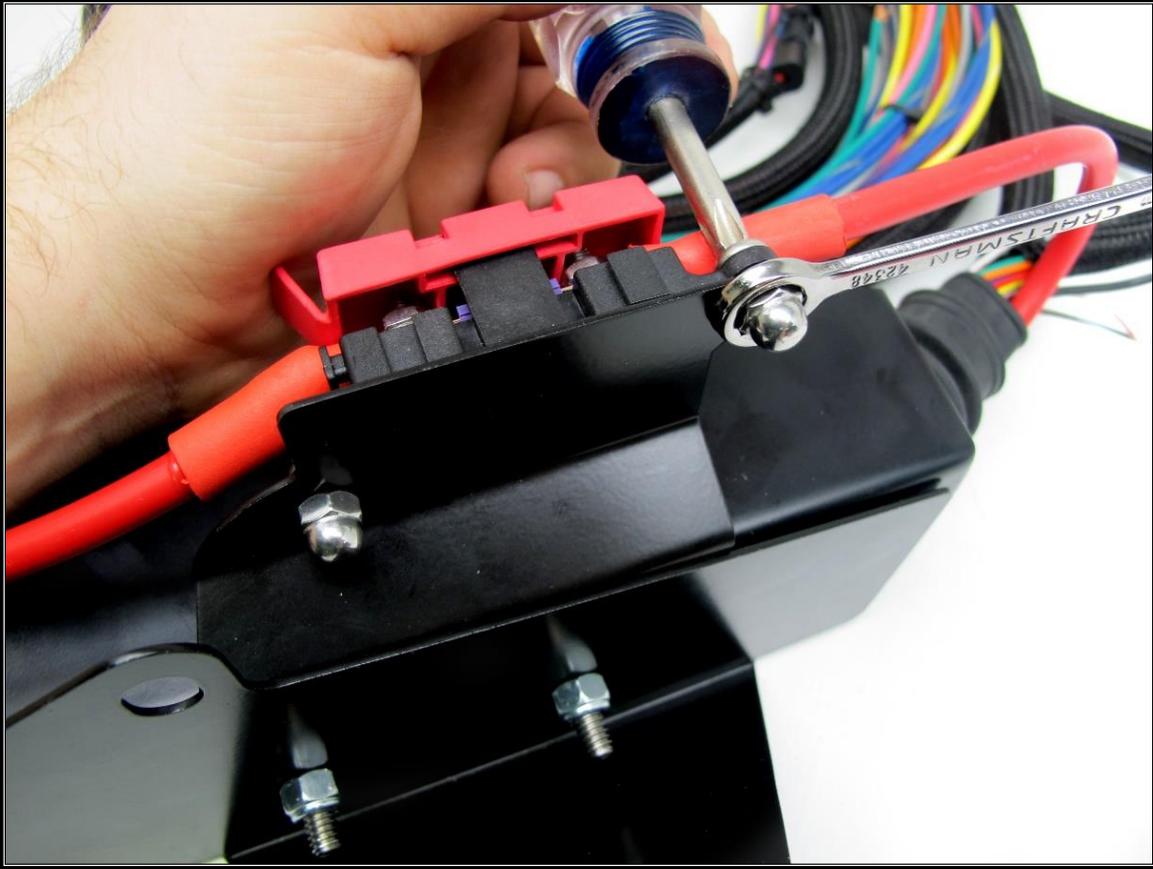
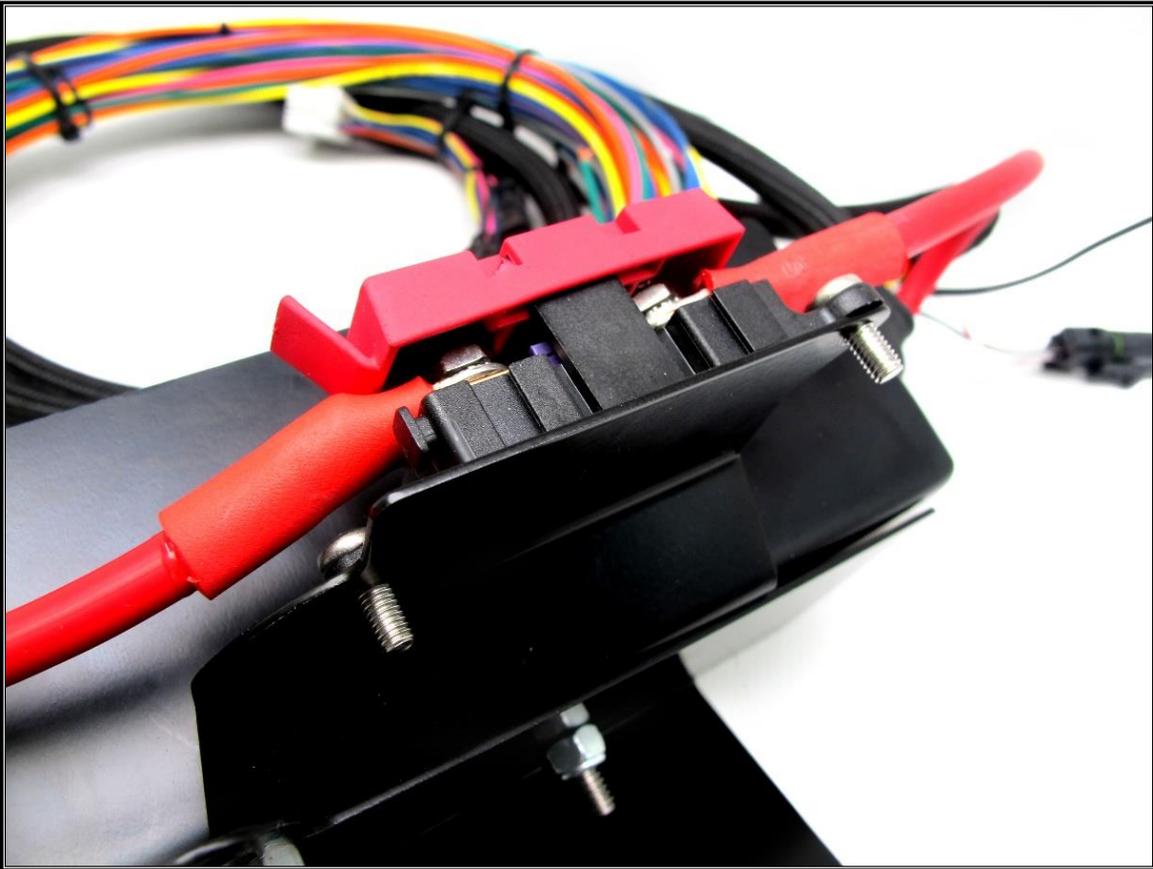
**Step 17:** Then attach the Fuse/Relay Center bracket.



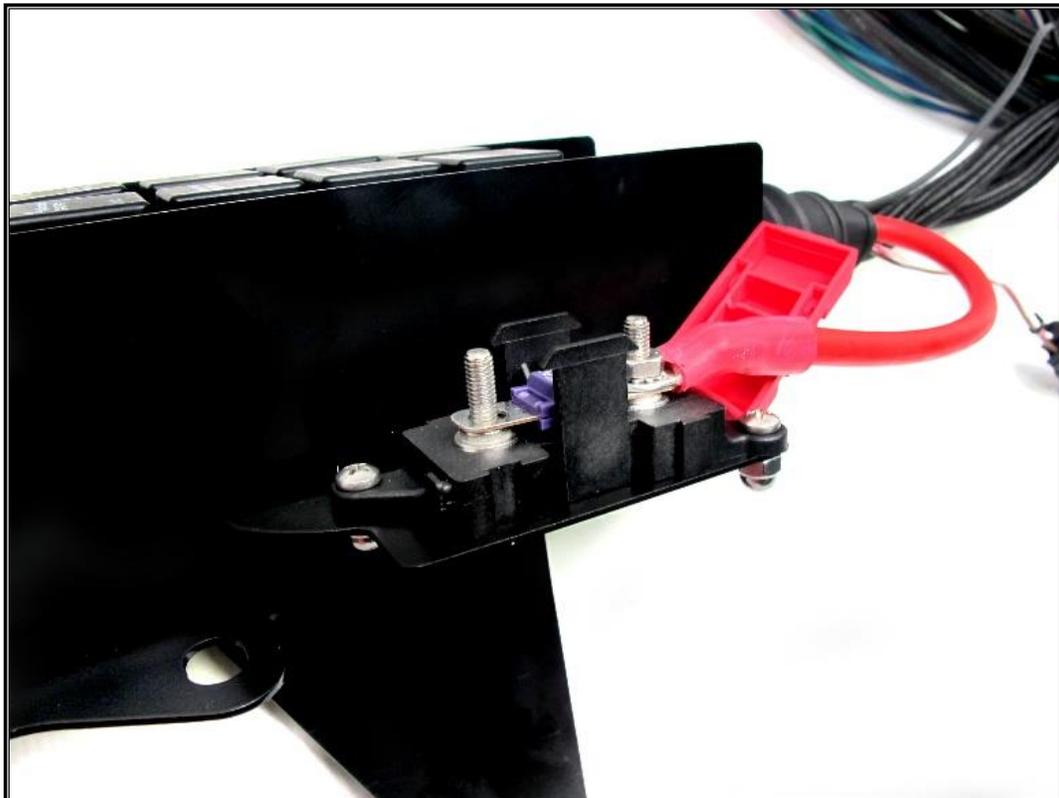
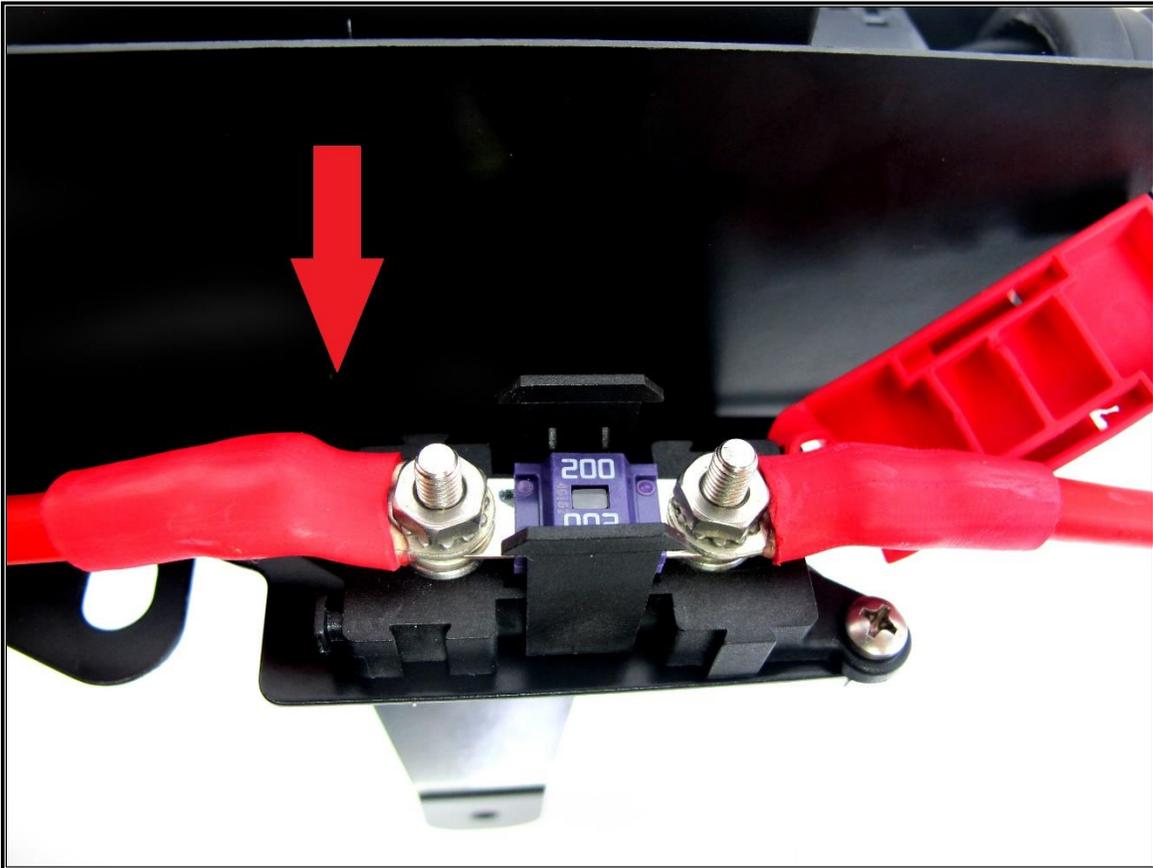
**Step 18:** Locate (2)  $\frac{1}{4}$ " – 20 nylock nuts included in the parts kit. Use the nuts and a  $\frac{7}{16}$ " wrench to secure the Trail Rocker/Genesis adapter brackets to the Fuse/Relay center. Again, use a #2 stubby Philips head screwdriver to hold the bolts in place as you tighten the nuts on.



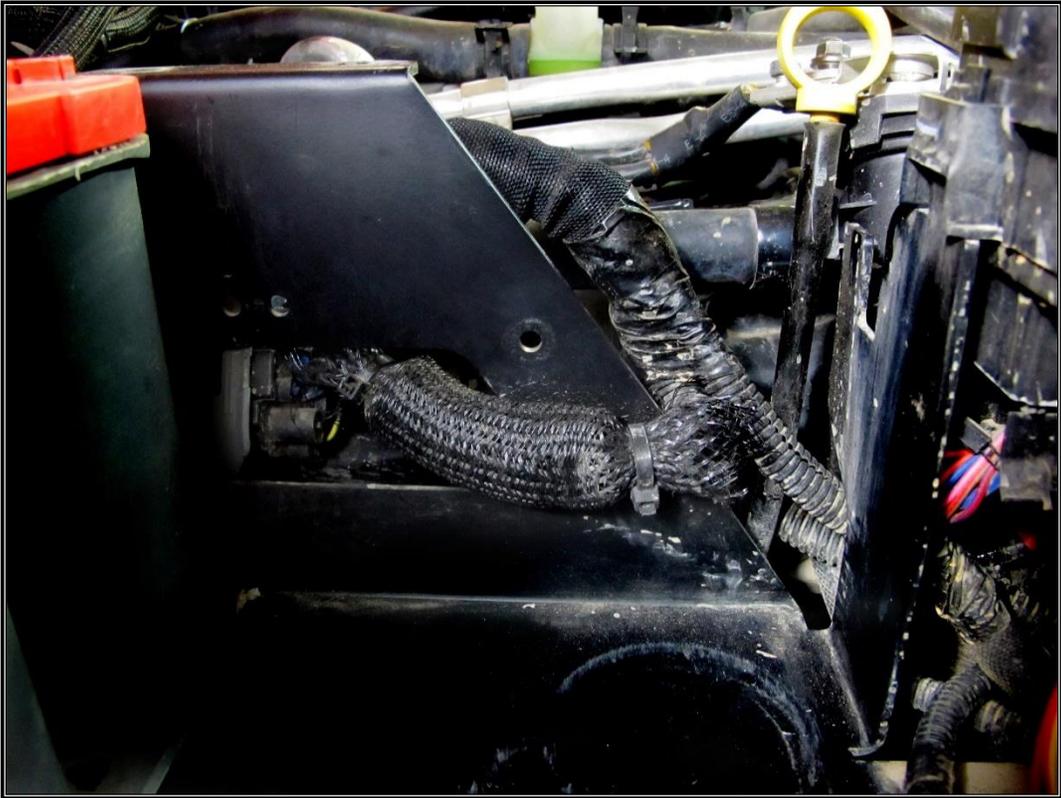
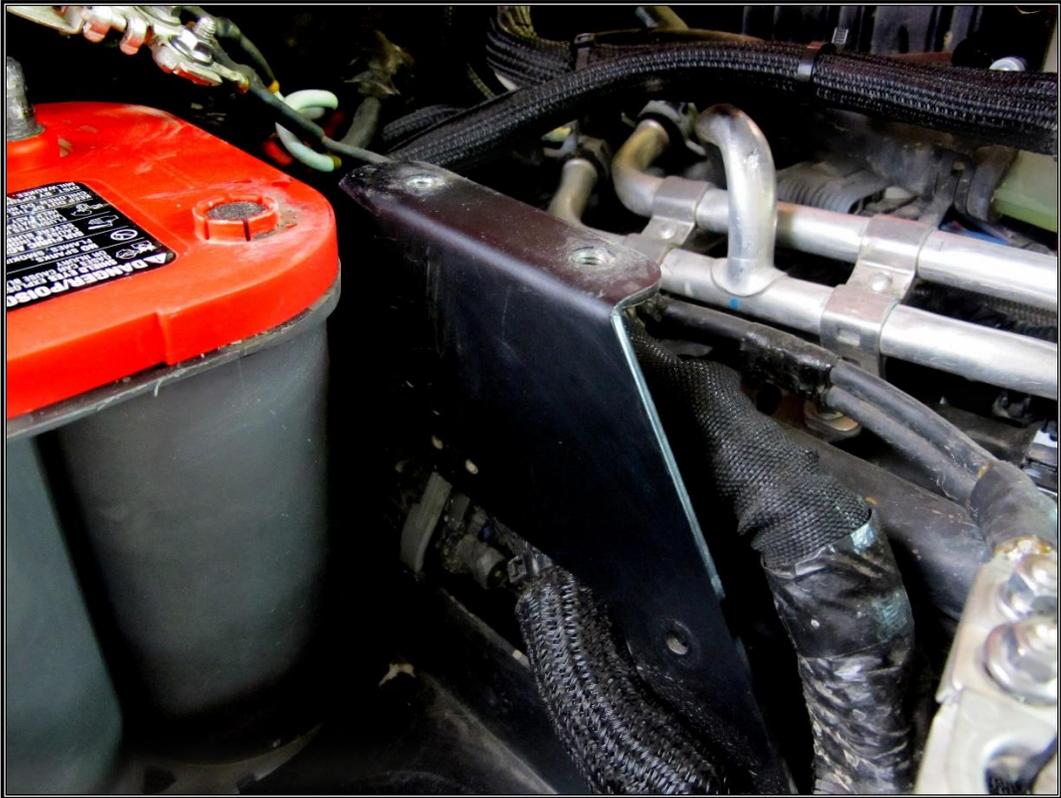
**Step 19: With the new brackets in place, reattach the fuse holder.**



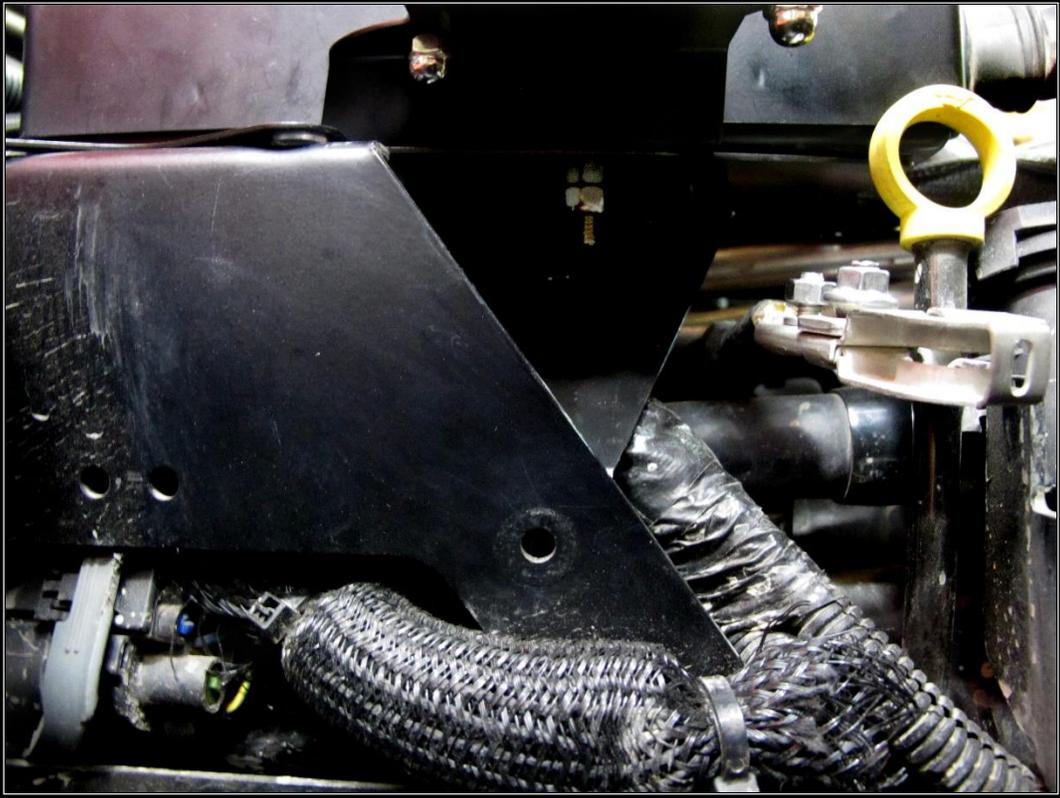
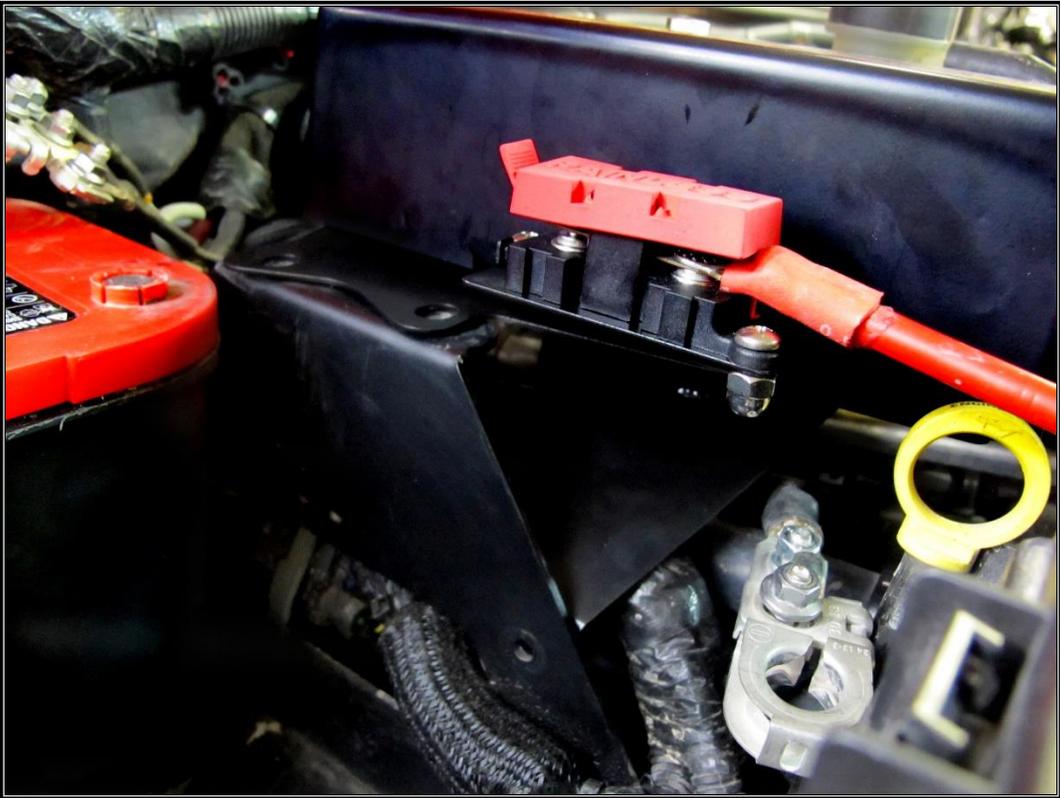
**Step 20:** Locate the **6-gauge, unterminated, red power cable** coming from the fuse holder and remove it. Installation of the **Fuse/Relay Center** will prove easier with the power cable temporarily out of the way.



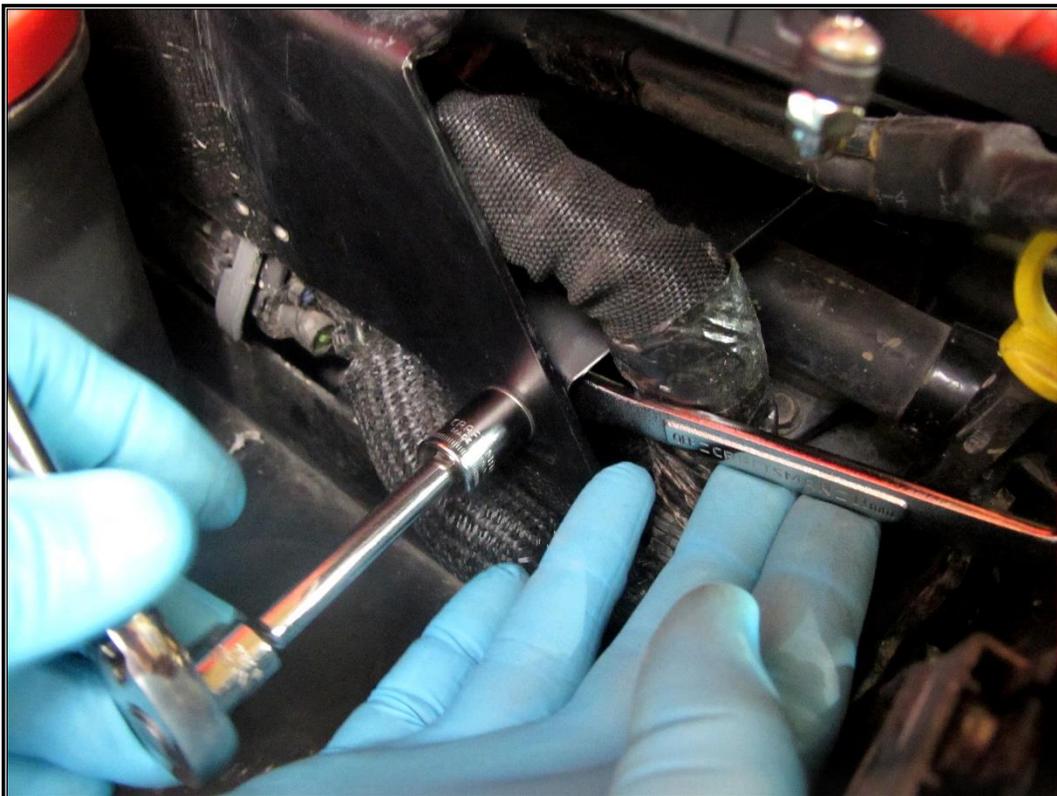
**Step 21: Locate the 3 mounting holes on the top and side of the Genesis battery tray.**



**Step 22: Line up the holes on the Fuse/Relay center bracket with those on the Genesis battery tray.**



**Step 23:** Use (1) ¼” – 20 x ¾” bolt, (1) ¼” flat washer, and (1) ¼” – 20 nylock nut from the included parts kit to secure the Fuse/Relay Center bracket to the side of Genesis battery tray with a 7/16” wrench and socket.



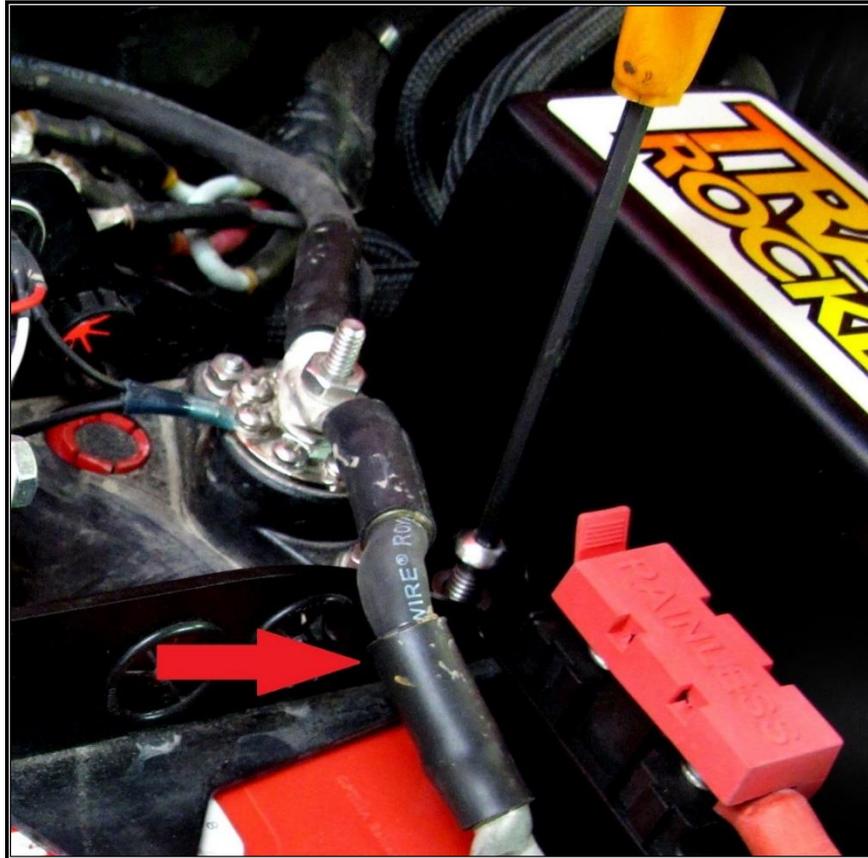
**Step 24: Reinstall BAT. B.**



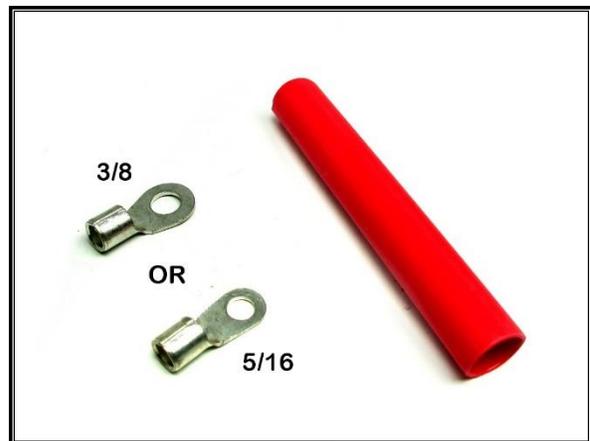
**Step 25: Replace the Genesis Bracket and slide it under the Fuse/Relay Center bracket. Again, line up the holes on both units with the battery tray.**



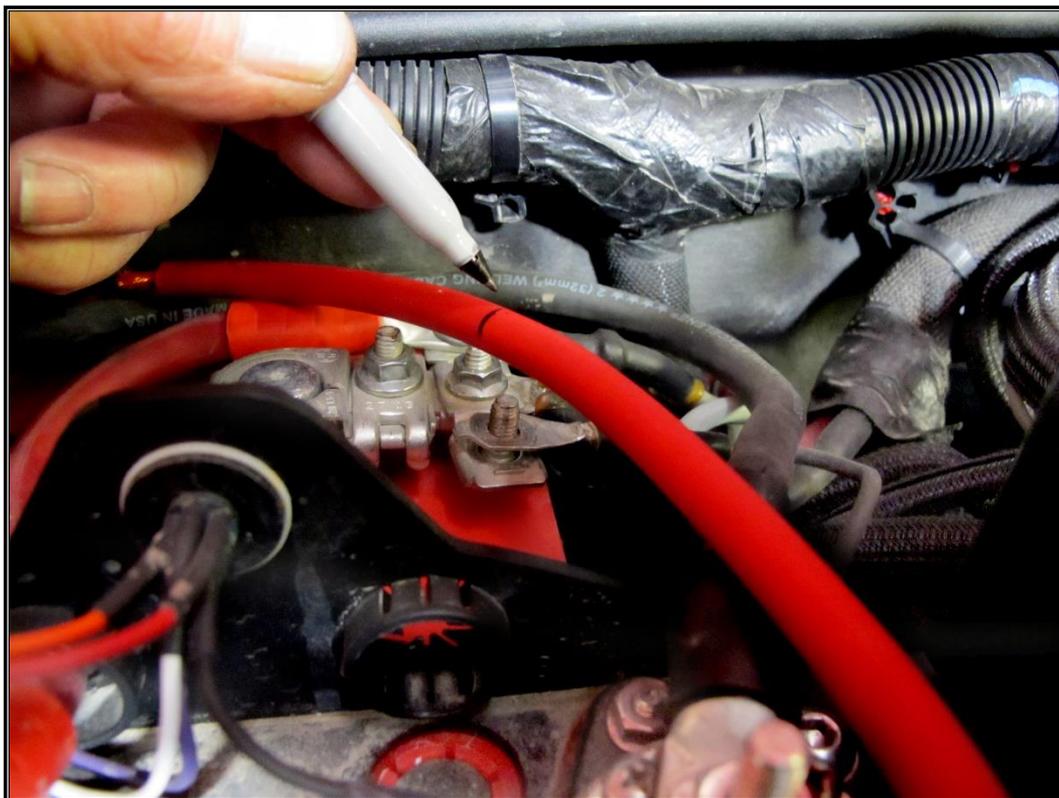
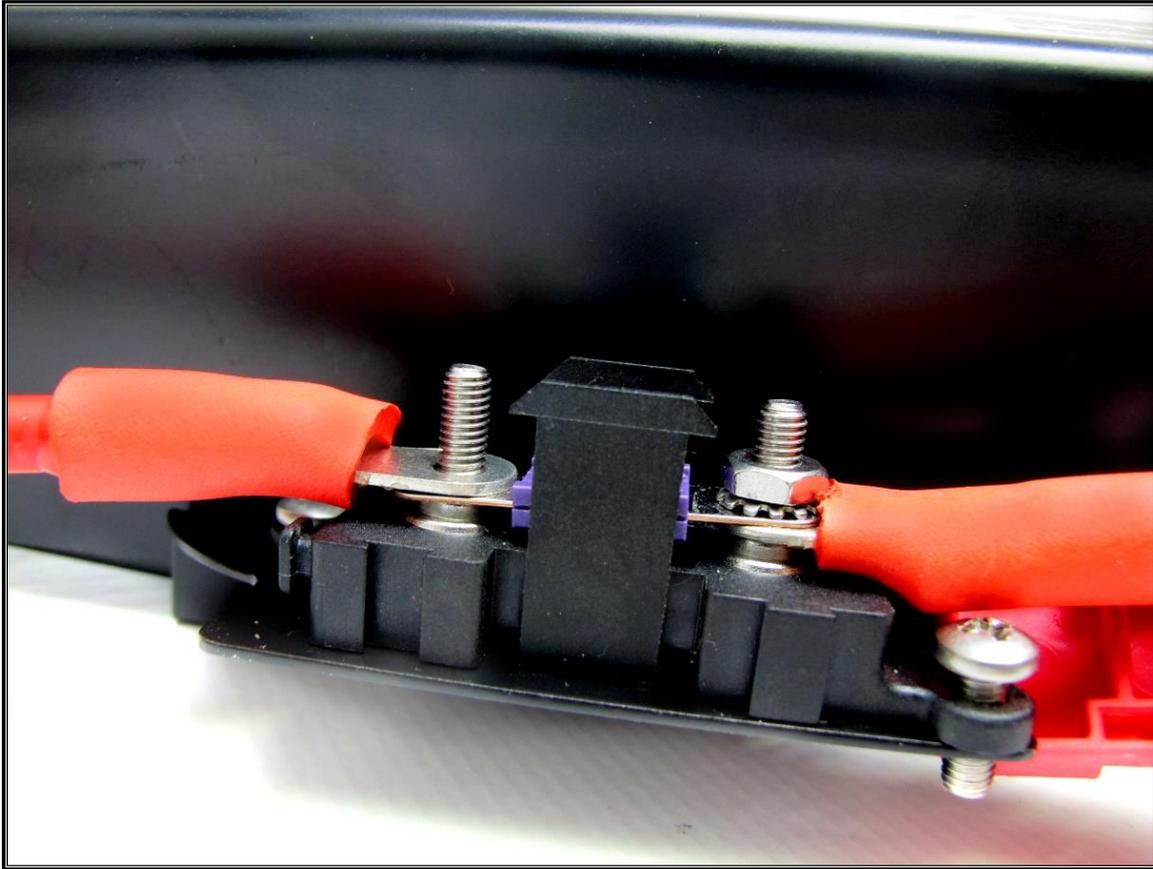
**Step 26:** Replace the button cap screws removed in **Step 6** to secure both units to the **battery tray**. At this point, reconnect the **Genesis Bracket** and all the **battery cables** to both batteries, with one exception. **DO NOT** reconnect the cable leading from the **Genesis Bracket** to the **negative post on BAT. B.**



**Step 27:** Then, locate the **6-gauge, unterminated, red power cable** you removed in **Step 20**, **heat shrink**, and the appropriate sized (for your particular application) **non-insulated ring terminal**.



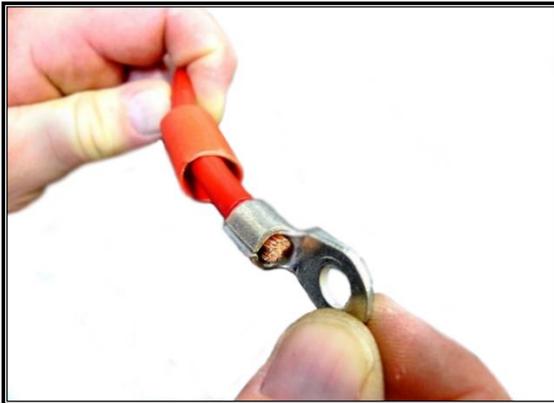
**Step 28:** Slide the **power cable's** eyelet over the post on the fuse holder to gain an accurate measurement to **BAT. A's** positive post. **However, do not reinstall the cable as you will take it off again to crimp on a terminal.** Mark the length you need to route the cable to the positive terminal.



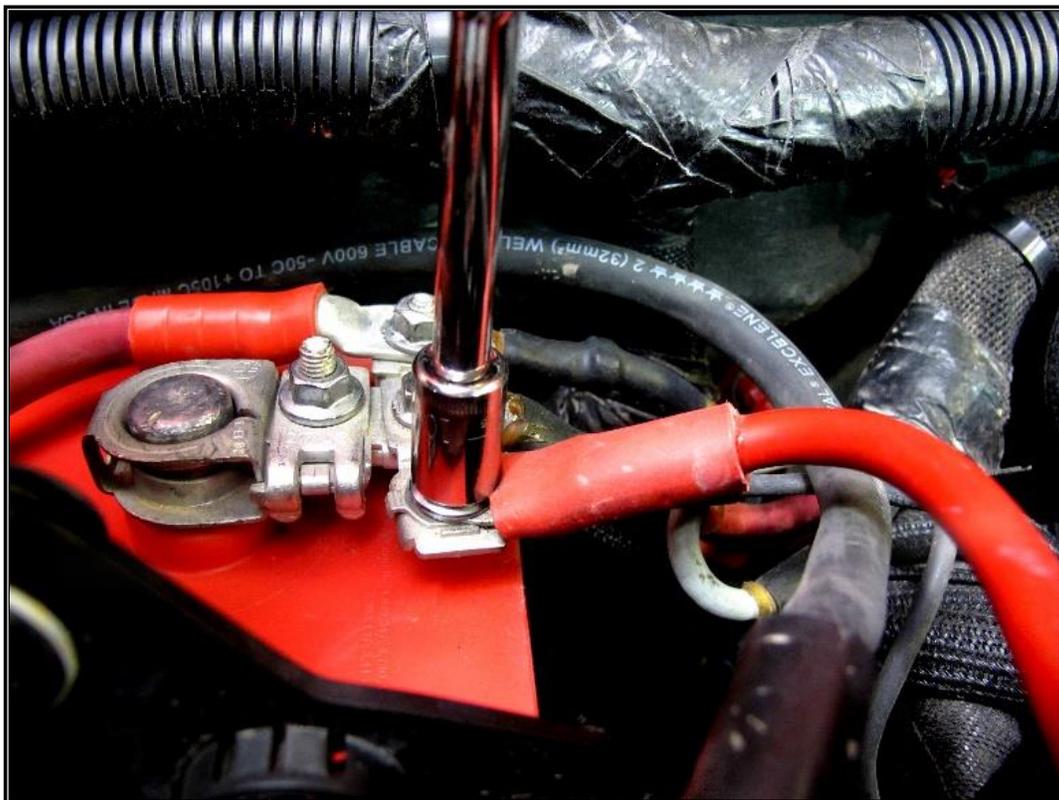
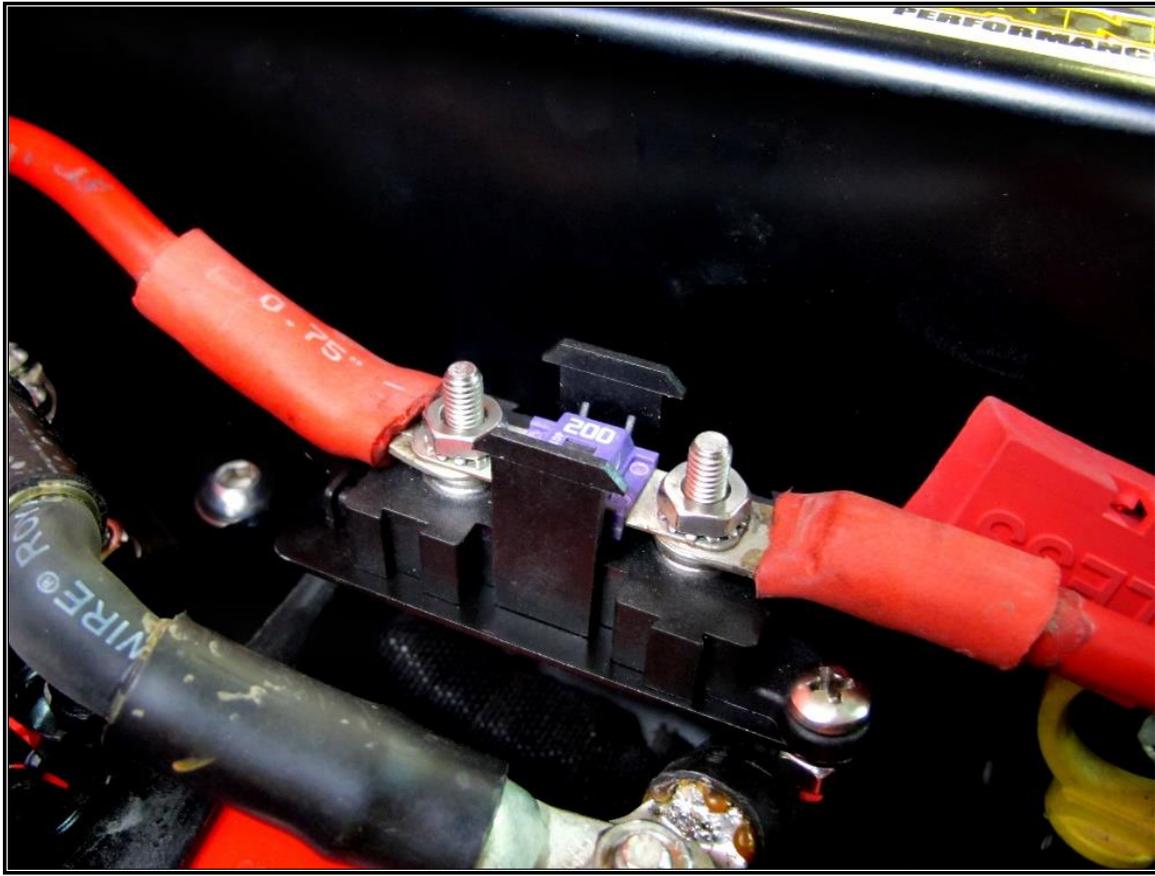
**Step 29:** Slide the cable off the eyelet. With the cable free, use a pair of **cable cutters** to cut and strip the **power wire** about **1/2"**. Once the cable is stripped, remove it from the **Fuse/Relay Center** in order to crimp on a **ring terminal** from your parts kit.



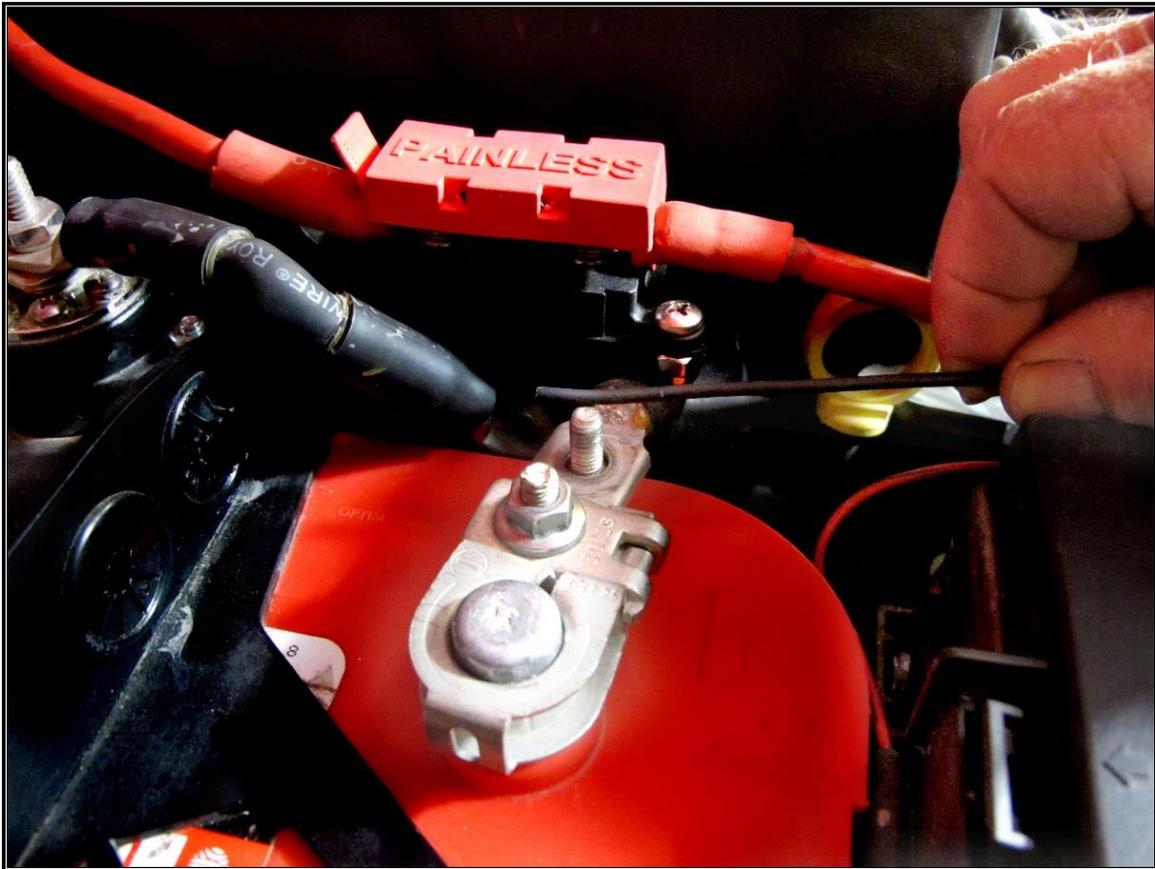
**Step 30:** These **ring terminals** can be difficult to crimp. It can be done with a chisel and hammer or with a crimping tool like the one below. These crimping tools can be found at your local parts store or online. Once the terminal is crimped, secure it with about **1"** of **heat shrink**.



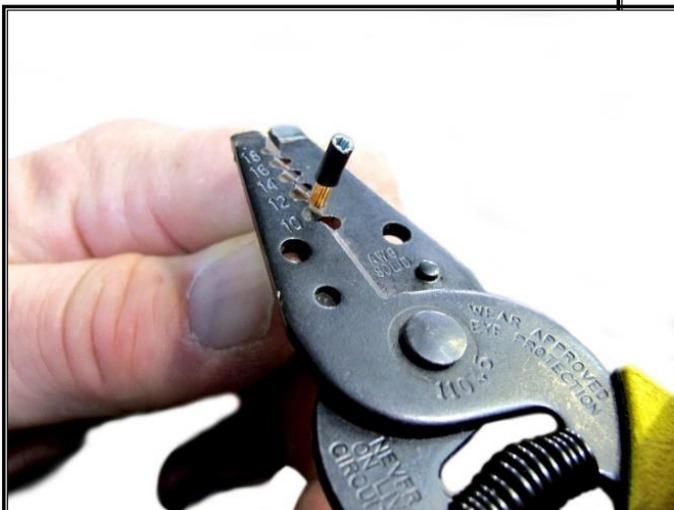
**Step 31:** Next, re-install the cable to the Fuse/Relay Center and connect it to the positive battery terminal on BAT. A.



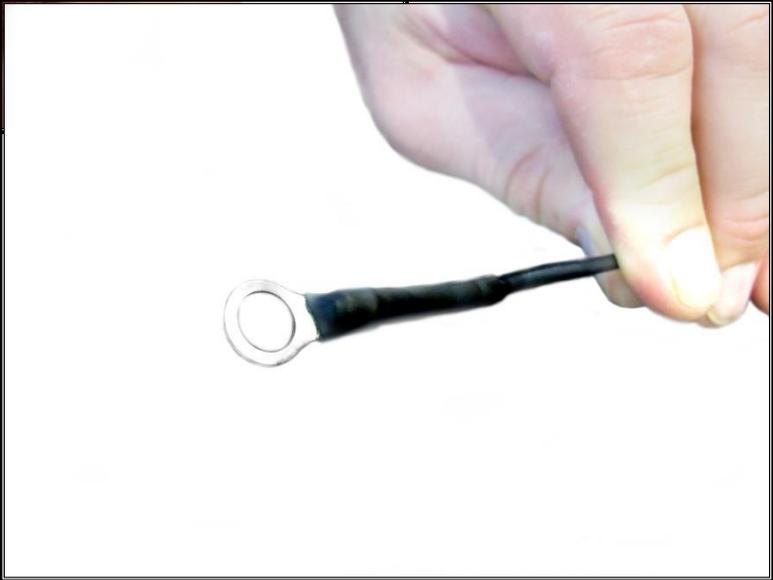
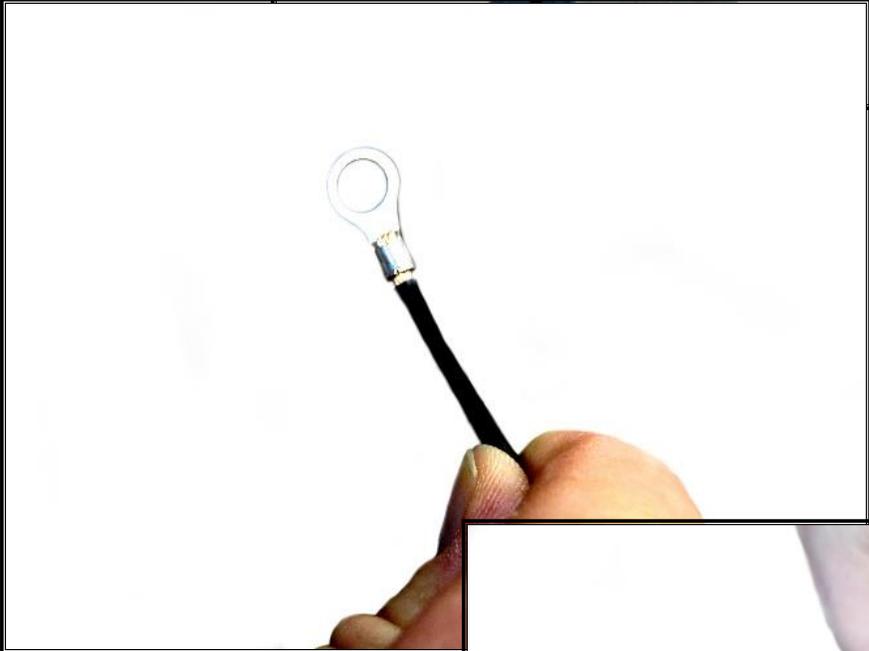
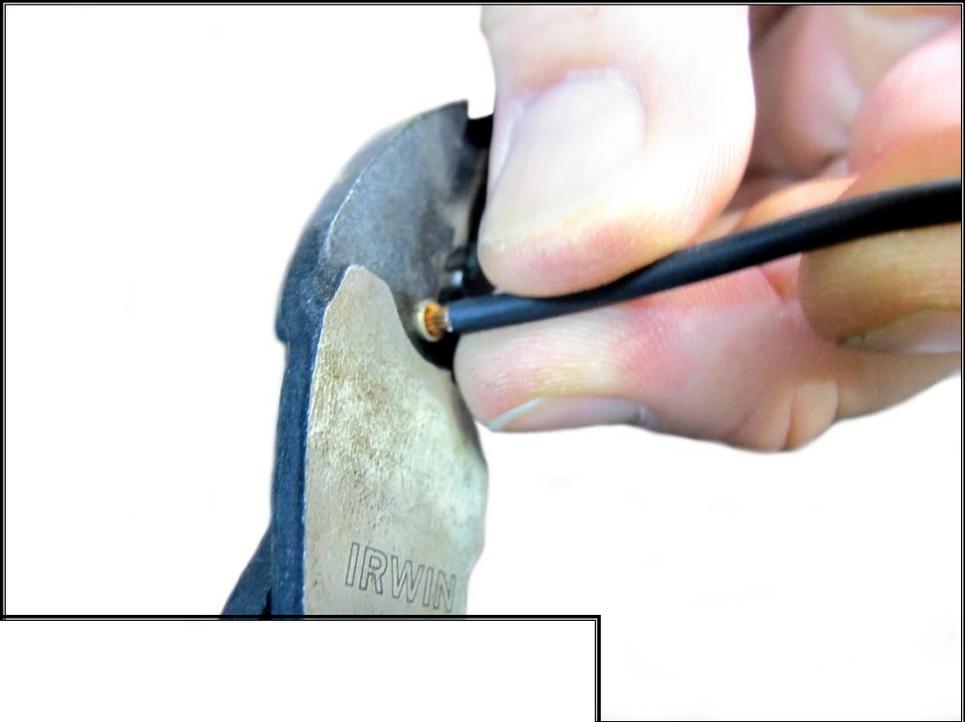
**Step 32:** Then, route the ground wire coming from the **Fuse/Relay Center** to the negative battery terminal on **BAT. B.**



**Step 33:** Locate (1)  $\frac{3}{16}$ " black heat shrink and (1) 16-14 ga. non-insulated ring terminal. Strip the wire about  $\frac{1}{4}$ " and slide the heat shrink over it.



**Step 34:** Crimp on the **ring terminal** and secure it with the **heat shrink**.



**Step 35: Connect the ground wire from the Fuse/Relay Center and the negative cable from the Genesis Bracket to the negative terminal on BAT. B.**



**With the battery connected, you can now test out and enjoy your new Trail Rocker!**



# **Painless Performance Limited Warranty** **and Return Policy**

Chassis harnesses, fuel injection harnesses, and Trail Rocker units are covered under a lifetime warranty.

All other products manufactured and/or sold by Painless Performance are warranted to the original purchaser to be free from defects in material and workmanship under normal use. Painless Performance will repair or replace defective products without charge during the first 12 months from the purchase date. No products will be considered for warranty without a copy of the purchase receipt showing the sellers name, address and date of purchase. You must return the product to the dealer you purchased it from to initiate warranty procedures.

**Painless Performance Products LLC**  
**2501 Ludelle Street**  
**Fort Worth, TX 76105**  
**Phone (817) 244-6212**