

# Ford Ranger BATR Kit

Rev 03

## [KIT10031 P1] - Install Instructions



## Revision History

Date	Revision	Author	Checked	Revision Notes
17/06/2022	03	T. Wright		Release – Production Batch 1

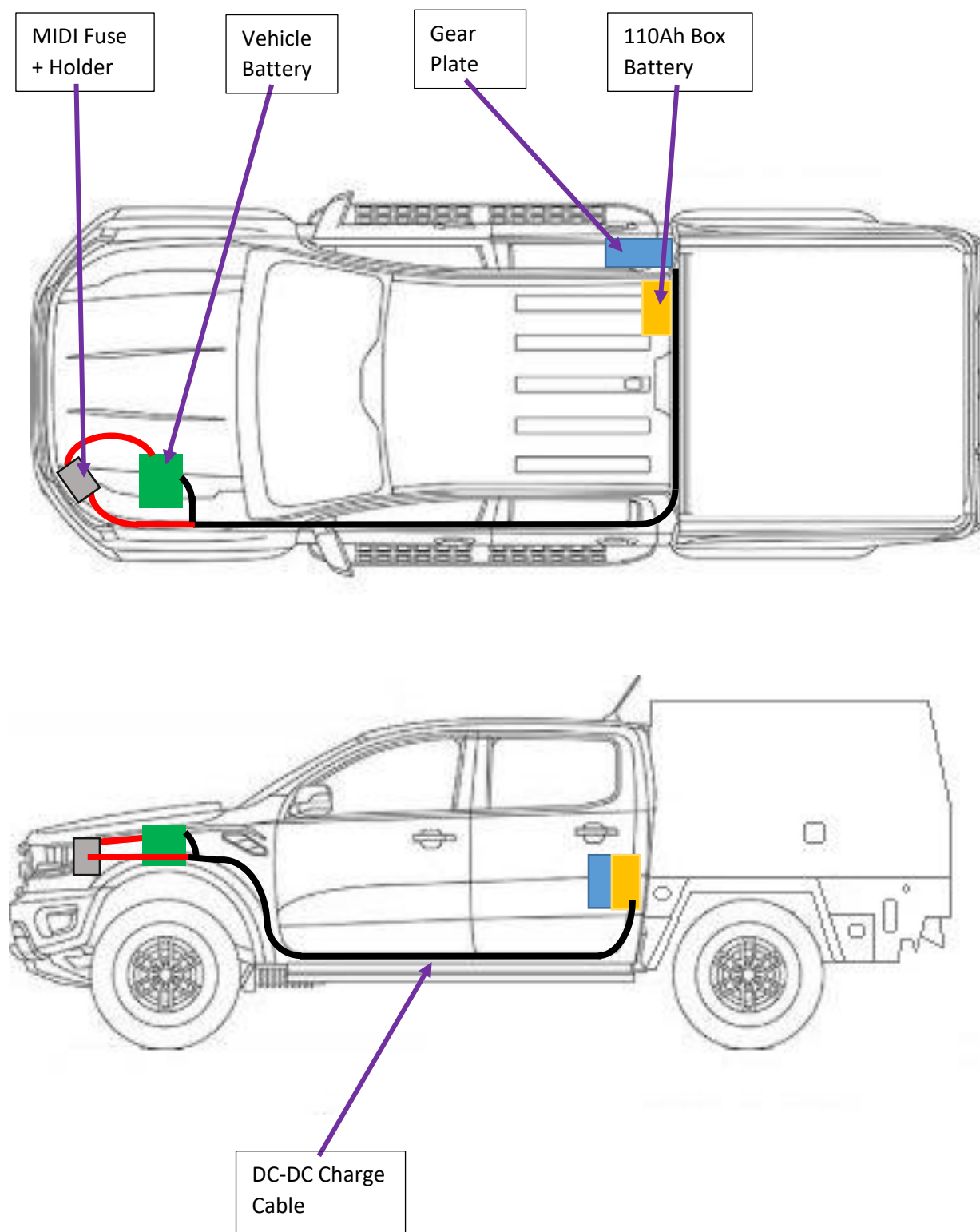
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- Following procedure is a guide to assist manufacturing item.
- The guide is step by step instructions with some written text and diagrams.

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## Vehicle Kit Overview:

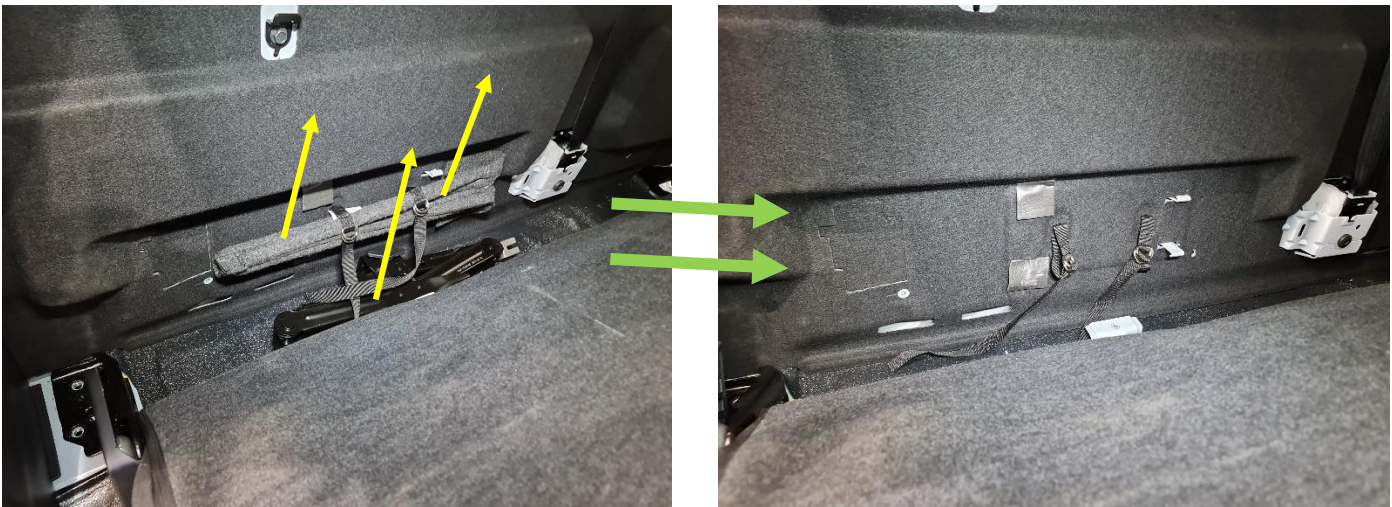


## Step 1 – Fold Rear Bench Seat and Remove OEM Carjack and Tools

1.1) Pull the seat release tab on the top of the backrest and fold it forward:



1.2) Unstrap tools and remove, undo OEM jack bolt and remove. Place jack and tools elsewhere.





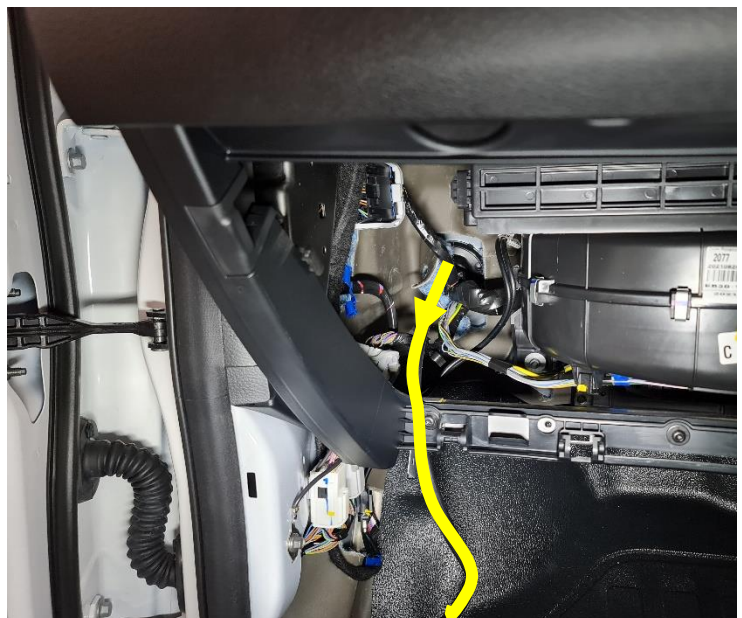
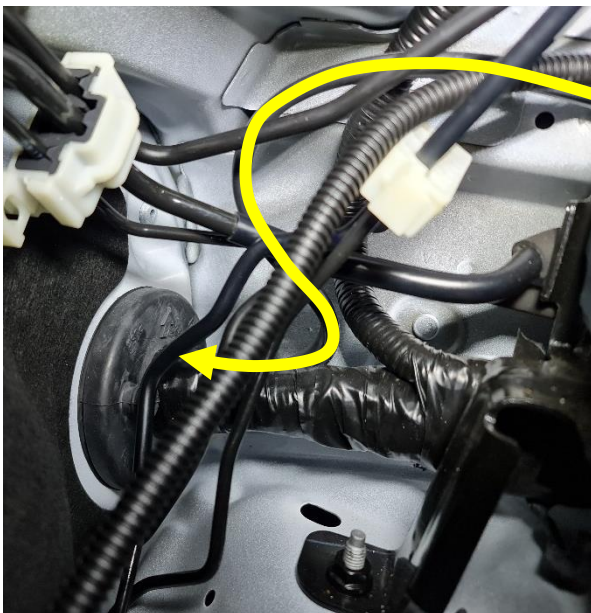
## Step 2 – DC-DC Charge Cable

### 2.1) Glove Box Trim Removal:



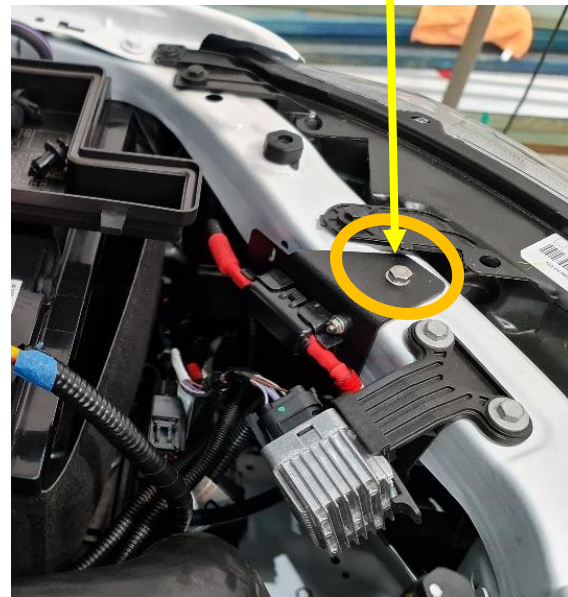
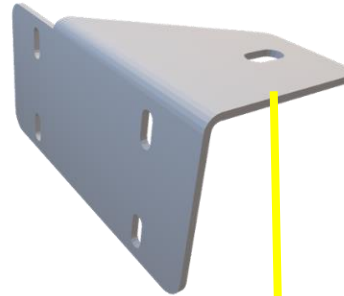
### 2.2) Run Cable Through Firewall Grommet:

De-pinning the blue anderson connector and pushing the exposed pins through from the engine side is the suggested method. Draw excess length through the grommet until connector reaches battery and gear plate.

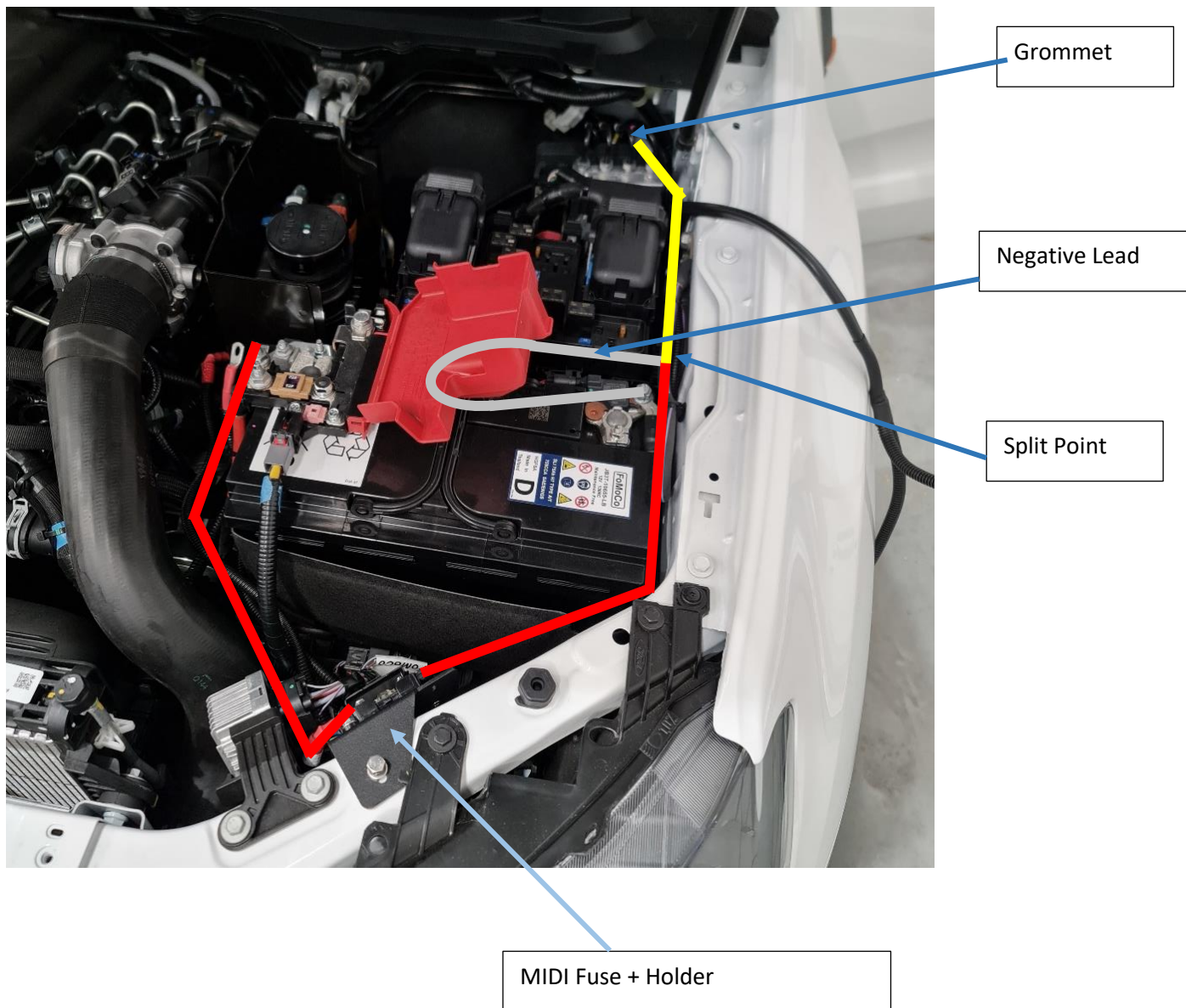


### 2.3) Engine Bay Bracket – MIDI Fuse Mount

- BKT10314.1 bolts onto a spare M5 thread behind the passenger side headlight.



## 2.4) Engine Bay Cable Routing:





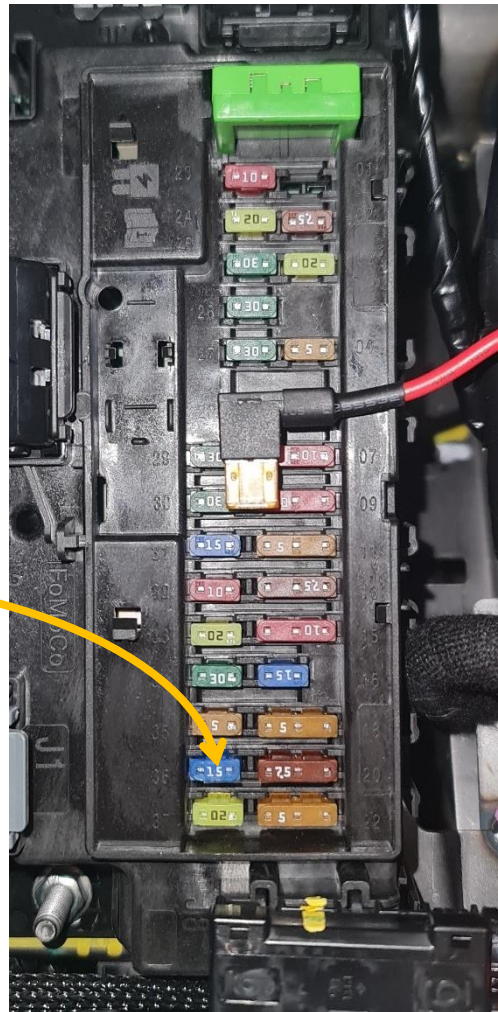
## 2.5) Cable Routing Through Vehicle



Blue Anderson DC-DC  
Charge Plug

## 2.6) Ignition Sense Wire

Connect the fuse tap on the ignition sense wire (shown below), to fuse 36 on the driver's side fuse box.





### Step 3 – Battery Install

#### 3.1) Seat Bolt Removal – T50 Torx Head

Remove both driver side seat bolts for the rear bench seat:



#### 3.2) M4 Nut insert

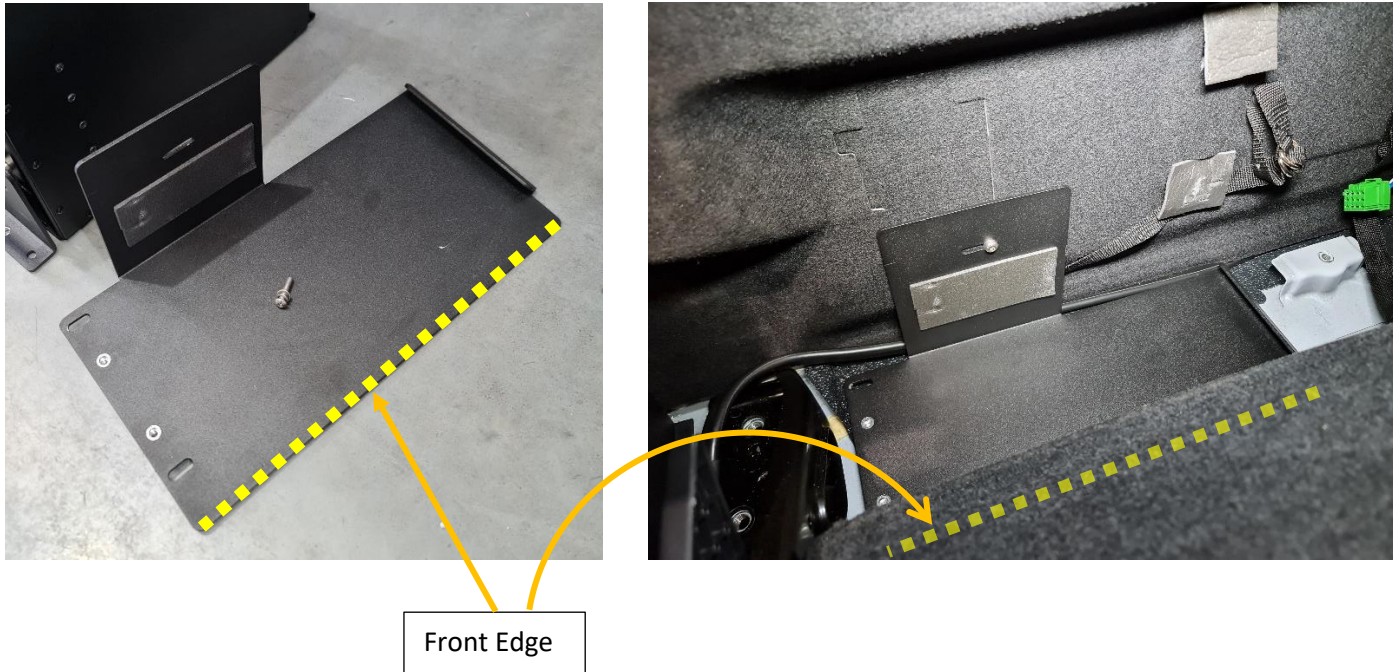
Insert the included M4 nut insert into the hole in the metalwork behind this trim piece:



### 3.3) Tray Install

BKT1077.4.1.1 + M4x20mm Hex Head (for 3mm Alan Key):

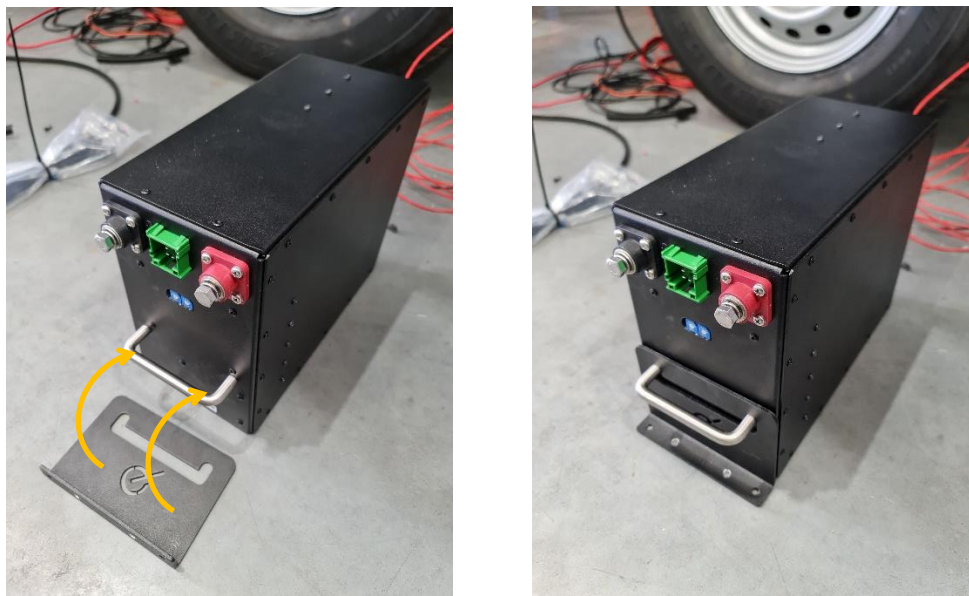
Insert bracket at an angle so that the front edge slips under the metal bar that runs along the base of the rear seat:



Once in place, insert the bolt into the nut insert with the regular and spring washer installed.

### 3.4) Battery Locking Plate

To make installing the battery easier, place the locking plate onto the battery handle prior to placement.





### 3.5) DC-DC Charge Settings

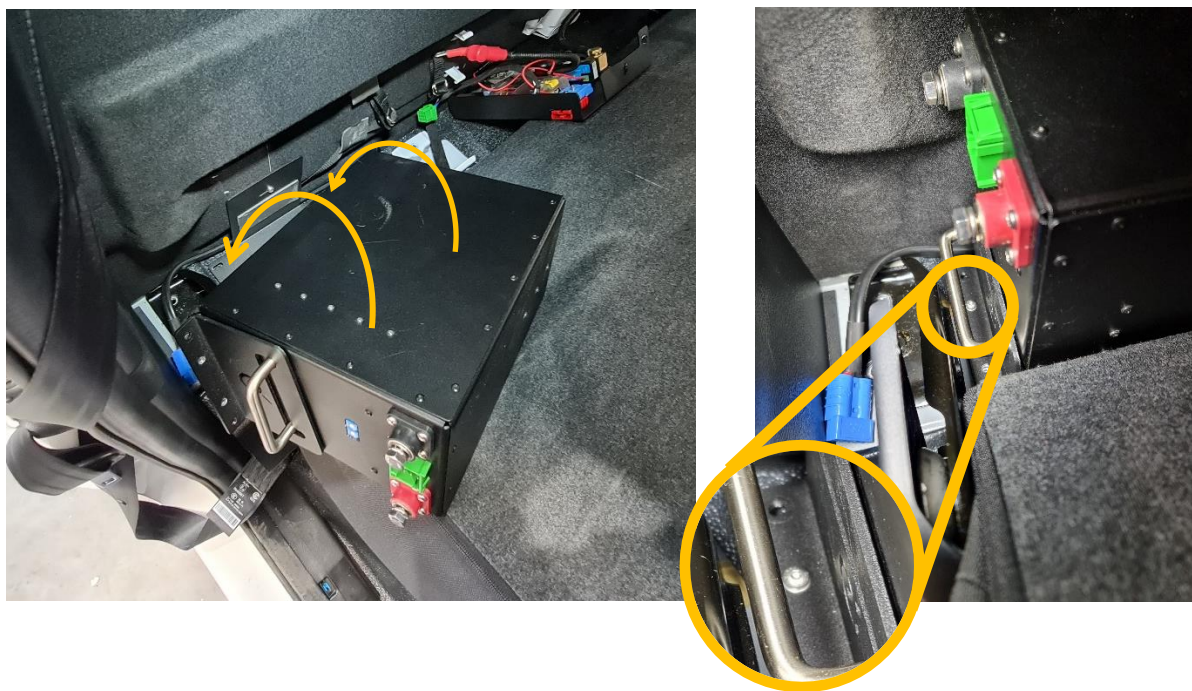
Before installing the battery, use a flathead screwdriver to adjust the two blue potentiometers on the front of the battery to the following values: 6 on the left pot, and 0 on the right pot. This sets the battery to charge the moment the car is set to ignition.



**NOTE: IT IS HIGHLY RECOMMENDED THAT THE VEHICLE BE RE-PROGRAMMED BY A FORD DEALERSHIP TO ENABLE “DUAL BATTERY MODE”.** This will set the alternator to always charge the battery while the car is running, improving battery charging and long-term battery health.

### 3.6) Battery Locating / Install

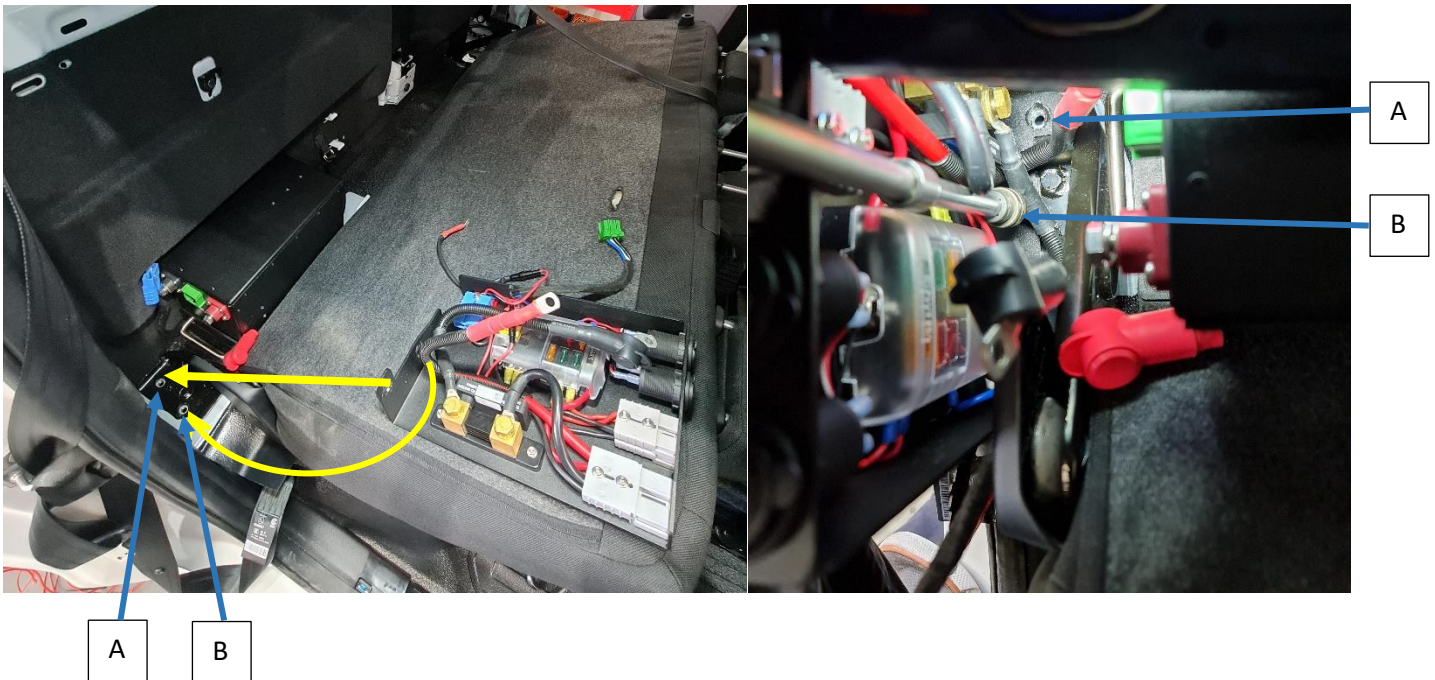
Carefully lift the battery and drop it in at an angle in the same way that the battery tray was installed. Align the bolt holes on the locking plate to the nut inserts on the base plate and insert the included M4x15mm Hex Head (for 3mm Alan Key). Only a single bolt is required to hold the locking plate in place.



**During this process be mindful not to short the battery terminals – the battery is live!**

## Step 4 – Gear Plate Install

4.1) Align holes on gear plate to seat bolt holes then replace seat bolts through gear plates holes and tighten.



4.2) Connect Cables:



4.2.1) Start by connecting the blue Anderson connectors to connect the DC-DC charge connection.

4.2.2) Connect the ground cable to the ground terminal on the battery, when tight, cover terminal with included silicone boot.

4.2.3) Connect green battery data cable to socket on battery.

4.2.4) Connect the two positive cables to positive battery terminal. The thicker of the two lugs should be placed on the bottom, in direct connection with the battery terminal. Cover terminal with included silicone boot.

4.2.5) [NOT PICTURED] Connect white ignition sense connectors together to enable battery ignition sense



Step 5 – Final Product

