

Custom Lithium Next Gen Ranger and Raptor Vehicle Kit Fitting Instructions.

Custom Lithium recommends a qualified auto electrician to complete the wiring of the DCDC and all other 12v accessories.

1. By using the pull tab at the top of the back rest of the rear seat, fold the rear seat forward to uncover the rear jack and tool mount



2. Remove the Jack and Tools from their location (Note: These will need to be stored in an alternative location after fitment of your Custom Lithium battery)
3. Part of the Jack and Tool holder bracket, you will need to flatten the tab sticking up closer to the seat using a soft hammer.



4. At the top of each seatbelt, you will remove the plastic cover that clips over. Once removed, you will now remove the plastic cover that is located across the backwall.



5. Remove the driver's side child seat anchor mount (10mm socket) and seat retaining tab (T40 Torx)
Remove Plastic clips holding carpet on the back wall.
Retain all components.



6. Locate the driver's side cab vent, squeeze in the 4 tabs and push vent towards the rear of the vehicle. manoeuvre one end upwards while pulling the opposing end back to the cab. This vent will now be discarded.

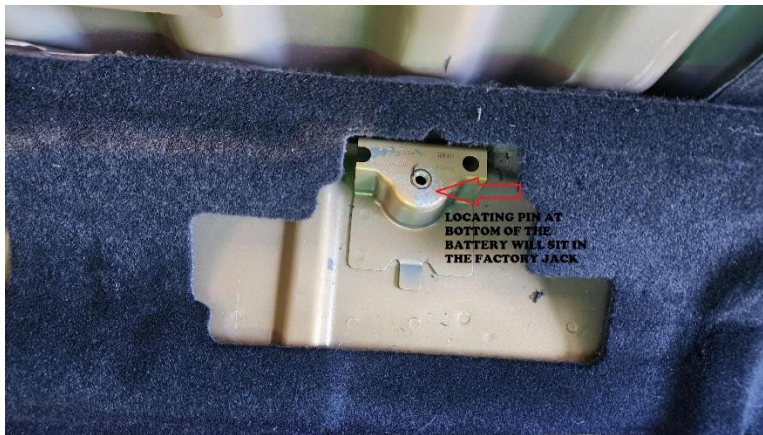
7. In your kit a replacement vent is provided. Using an appropriate cleaning agent, wipe around the hole. Peeling the double-sided tape off your new vent, stick this in its place taking note of the orientation. (If orientation sticker is not found, make sure the vent angles are facing down)



8. Cutting of the carpet is required. We recommend cutting at the fold line on the cab wall and to the size of the battery.



9. With help of a friend, lift the battery into place with the lower locating pin picking up the hole in the jack mount. The 4 mounting holes will then realign to the child seat anchor point and rear seat locking plate. These items will then be refixed using the original bolts. If using the Ausmotion DCDC mount, follow instructions for fitment. (If the pin at the bottom of the battery appears loose, you can use a nut to thread onto the pin and tighten it into place)



10. Reassemble all plastic trimmings above the battery (Including seat belt covers) in reverse order.

If using the Custom Lithium DCDC wiring kit, follow the instructions below:

1. Locate the 16mm cable (Batt + , This is 1m long) This will run from the behind seat battery to the double midi fuse holder. We recommend placing the double midi holder above the subwoofer as shown. You will need to crimp a 16-8 Lug on the battery end and a 16-6 at the fuse end. A 60a fuse will be used here. Note: The cable will be trimmed to length
2. Locate the 13mm cable (labelled brown) crimp a 16-6 lug and place to the other side of the Midi fuse just installed. Reroute the cable behind the carpet and link to the brown DCDC cable using the cable joiner provided

3. Locate the 16mm cable (Start Battery). Crimp one end of this cable to the red cable of the DCDC charger. Removing the kick trim on the passenger's side front and rear doors, route this cable through to the front fire wall. This cable will then feed through the grommet and towards the starting battery. Placing the single midi fuse holder as close to the start battery as possible. (We found the loom that runs from the battery and towards the fuse box a good location) Cutting the cable to length, crimp a 16-6 lug to the end and place into the single midi fuse holder with a 60a fuse. With the remaining length of cable, join another 16-6 cable and connect to the other side of the single midi. Work out your final length to the battery terminal. Crimp a 16-8 lug to this. NOTE: Do not join to the battery yet.
4. Locate the 4mm Red wire (Ign) and attach to the blue wire on the DCDC charger (Solder) This will now run under the kick trims to the front kick panel under the dash. Locate the factory cable taped in the corner that states ignition trigger. Using solder, attach this wire.
5. Locate the Black 13mm cable (Earth DC) Using the joining crimp, join this to the black wire on the DCDC. This will run behind the carpet and on to a bolt on the top right-hand side above the amplifier. Crimp a 10-8 lug on to this cable.
6. Locate the 8mm Red cable (Solar) Using a cable joiner, crimp this to the yellow wire on the DCDC, this can be run to any convenient location.
7. Finally join the cable from step 3 to the starting battery and test the DCDC is charging.
(For shunt settings, check out our FAQ page on our website)

NOTE: Make sure all connections are tight. Make sure all joins have tape around them and are not left bare.

The spare 50a fuse inside the double midi is for your accessory power – depending on your load, this may change

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