



Kit Includes:



- Redarc bcdc charger with pre wired harness
- TLR Powder coated tub mounted Dual battery box
- 2x midi fuse holders and fuses
- Nuts/bolts, screws and cable ties
- Redarc and TLR instruction booklets
- 1x Single socket outlet 1x Dual socket outlet
- Genuine Anderson plug to accept unregulated 12v solar directly
- Add a circuit fuse holder with prewired harness to tap into vehicles ignition system

**It is the responsibility of the installer to make sure that all cabling and circuit protection is secured using either the nuts and bolt or cable ties supplied in the kit. The installer should also make sure that all cabling is away from sharp edges, air conditioning lines and any hot or moving parts to avoid damage to the vehicle.*

Step 1: Mounting the battery box

Follow the TLR instructions for this part of the install.



With Ford OEM
Tub Liner



With Out Tub
Liner

Place chosen battery into tray and secure using hold down clamp supplied in kit.

Step 2: Routing Cables to Main Battery and Fuse Box



Start by routing cables out of the tub by exiting through the tub close to the back of the cab. This step may change depending on whether the tub has a canopy or hard cover. If this section of the tray is not accessible then a cable gland is supplied to allow cable to be routed out of tub.

See Ford Ranger | Mazda BT50 Tub
Kit installation instruction video:



Then run the cable down the back of the car to the chassis rail and follow existing cabling under vehicle beside chassis rail until under passenger seat. Separate the 2 harnesses, the one labeled **main battery** continue to route toward main battery.

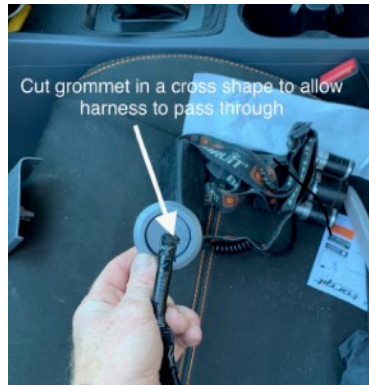
The harness labelled **ignition**, route into cab through grommet under passenger seat.



Ford Ranger RA Series | Raptor RA

Next Gen Tub Kit

INSTALLATION INSTRUCTIONS



The next step is to run the small ignition wire to the car fuse box under the steering wheel. First we will need to remove the passenger side trims.

Refer to the videos to aid in this part of the install.

[Removing Ford Ranger Trims:](#)



Follow Ford harness toward fuse box under the dash. Securing the harness to existing cables with cable ties supplied.

Step 3: Attaching Fuse Leads



Access the fuse box below the steering wheel by removing the panel as shown in the image.

Remove yellow 20amp fuse and insert add a fuse holder from kit.

Place heat shrink over ignition cable and attach the fuse holder to the ignition harness. Then the join can be protected with the heat shrink provided. Secure harness using cable ties supplied in kit.

Continue to route the second part of the harness labelled main battery to the engine bay. Once in the engine bay, connect the main fuse holder labeled **Redarc-main** to the harness and mount midi fuse holder in engine bay near battery.



Ford Ranger RA Series | Raptor RA

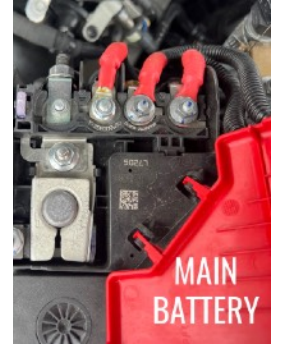
Next Gen Tub Kit

INSTALLATION INSTRUCTIONS



Step 4: Making Electrical Connections

Once the midi fuse holder has been mounted securely it is time to start making the electrical connections. Start by connecting the main positive cable to the vehicles main battery, using any of the 4 positive studs. Once the main battery has been connected it's time to connect the aux battery.



First connect the 3 black negative terminals to the aux battery and then connect the 3 red positive terminals to the positive terminal as shown in the image on the left.

Once the cables have all been connected its time to put the 2x 15amp blue fuses into the fuse holders and power up the accessory sockets. Your dual battery system is now completely wired up and ready for testing.

Step 5: Testing the Redarc Charger

Now that everything has been installed and connected it is time to test the system.



Watch the video to see how to test your dual battery system:

[Testing the Redarc Charger](#)



Start the engine and after a short time the vehicle light should come on and the stage light will either be solid on or flashing depending on the state of charge of the battery. This can be seen in the image.