RELIANCE™

Part # 25-148-TXT
E-Z-GO TXT Li Battery Kit

(fits Electric E-Z-GO TXT)

WARNING

This battery is inteded only for use in golf carts. Use for other applications may void battery warranty.
Only use provided battery charger.
When state of charge reaches zero, stop driving immediately and charge the battery as soon as possible.
Battery may shut down immediately due to faults including but not limited to:
under-voltage, over-current, short circuit across the terminals and over- or under-temperature.

High voltage. Risk of shock - do not touch uninsulated terminasl or connectors. Always ensure battery is powered off before servicing vehicle

Do not expose battery to temperatures higher than 140°F (60°C).
Do not store or operate at temperatures below -4°F (-20°C).

Never allow metallic or otherwise conductive objects to short across the battery terminals.

Do not attempt to disassemble, modify, or service battery internals. Improper reassembly can result in fire or electrical shock. Disassembling battery will void all remaining warranty.

Keep open flames and sparks away from battery. Do not smoke near battery.

Keep out of reach of children. Never allow children to operate battery or vehicle.

DANGER - RISK OF ELECTRIC SHOCK

- Always disconnect the charger handle from the vehicle and unplug the AC power before servicing the vehicle. By only turning off the charger, there is still risk of electric shock.
- Never touch the uninsulated portion of the AC or DC connectors or uninsulated battery terminals
- Ensure all electrical connectors are in good working condition. Use of damaged, cracked, or corroded connectors can result in electric shock and/or overheating.
- Do not attempt to disassemble, modify, or service charger. Contact techincal support is the charge is not working properly. Attempting to disassemble the charger will void all remaining warranty.
- Always connect to a properly grounded, 3-wire outlet. Never modify the AC cord. If needed have a proper 3-wire outlet installed by a qualified electrician.
- Extension cords are not recommended. However, if an extension cord is needed, it must be a 3-wire, grounded cord of at least 14AWG and no more than 25ft long. Improper extension cords may result in electrical shock or fire.

WARNING

- To reduce risk of accidents and injury or death -

Be Prepared

- Wear seatbelt, motorcycle helmet, eye protection, and protective gear.

- Keep your body completely inside the vehicle at all times. Keep both hands on the steering wheel. Be sure passenger is seated, belted, and holding onto the handholds.

Be Qualified and Responsible

- This vehicle is intended for use only by an operator 16 years or older with a valid motor vehicle license.

- Passenger and driver must be able to place both feet flat on the floorboard while seated upright with their backs against the seat backs.

Avoid Rollovers and Crushing Injuries

- Use care when turning:
  - -Turning the steering wheel too far or too fast can result in a rollover or loss of control.
  - -Slow down before entering a turn.
  - -When making tight turns from a stop, or at slow speeds, avoid sudden or hard acceleration.
  - -Avoid sideways sliding, skidding, or fishtailing, and never do donuts.

- Drive straight up and down inclines, not across them, if crossing a hill is unavoidable, drive slowly and turn downhill immediately if you feel the vehicle may tip.

Abrupt maneuvers or aggressive driving have caused rollovers - even on flat, open areas.

MUST BE 16 or Older

ITEMS INCLUDED

07-012 Lithium Charger Kit

- Lithium Charger
- Charge Receptacle
- AC Power Cord
- Charger Mounting Bracket
- Charger Mounting Hardware Kit

25-127 TXT Lithium Mounting Kit

- TXT Mounting Brackets
- Charge Port Adapter Plate
- TXT Mounting Hardware Kit

25-125 Reliance Lithium Battery Kit

- 48V - 105Ah Lithium Battery
- Low Voltage Buzzer with Harness
- Lithium Dash Harness with Power Switch and SOC Meter
- Mounting Clips
- Mounting J-bolts with Hardware

TOOLS NEEDED

- 9/16" Insulated Wrench
- 8mm Wrench
- 10mm Wrench
- 13mm Wrench
- 10mm Socket
- 13mm Socket
- #2 Phillips Screwdriver
- 1/8" Drill Bit
- 1/4" Drill Bit
- 3/8" Drill Bit
- 7/8" Drill Bit
- Marker
- Rotary Cutting Tool
- Adjustable Wrench
- Ratchet
- Drill

STEP 1

9/16" Insulated Wrench

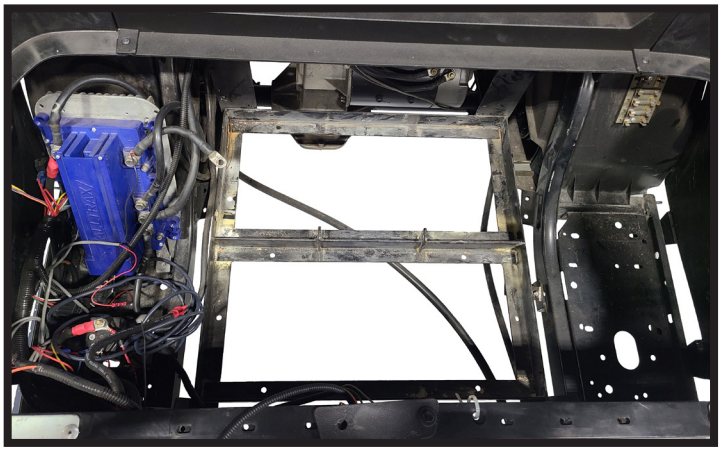
Set the parking brake and turn the key switch to the "OFF" position.

Remove the front seat bottom. Switch the car into "TOW"

Disconnect the battery cables and all electrical battery connections to the batteries.

Remove the battery hold downs and the batteries.

Clean out any debris from the empty battery tray as needed.



STEP 2

1/8" Drill Bit

Drill out the rivets holding the charinging port to the front panel of the rear body.

STEP 3

#2 Phillips
8mm Wrench

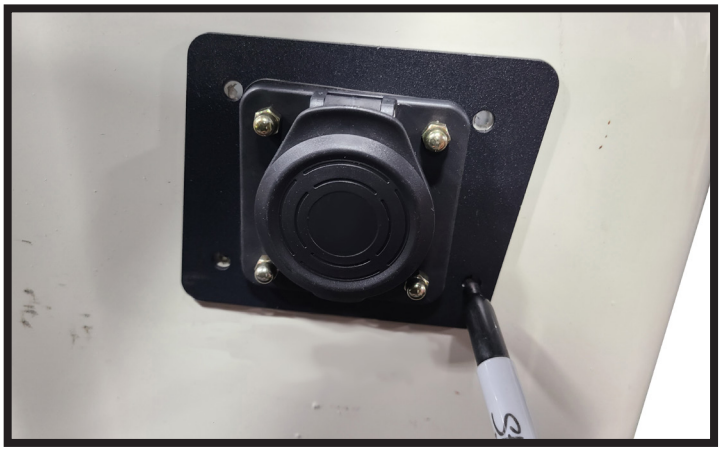
Install Lithium Charge Port through the adapter plate and secure using four (4) flat head screws, lock washers, and acorn nuts. The nuts will be on the front side as shown and the screw heads should be flush with the back of the adapter plate.

STEP 4

Marker
1/4" Drill Bit

Using a rotary cutting tool, englarge the charge port hole to fit the lithium charge port.

Using the adapter plate as a template, mark and drill any mounting holes that are needed. Vehicles with a Storm Body installed will need all mounting holes drilled.



STEP 5

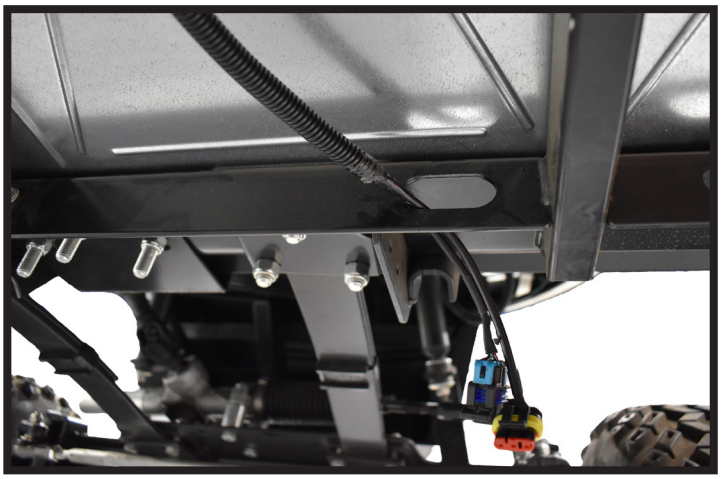
#2 Phillips
8mm Wrench

Install the adapter plate to the vehicle using four (4) button head screws, lock washers, nuts, and eight (8) flat washers as shown.

STEP 6

Run plug end of the dash harness from below the instrument panel, under the floorboard, and along the bottom of the vehicle frame toward the battery tray.

NOTE: Where possible, run the harness through access holes in the vehicle frame.

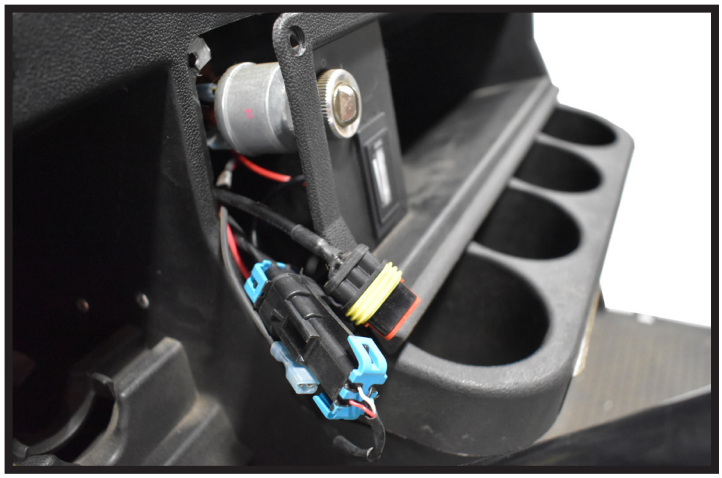


STEP 7

#2 Phillips

Removed the four (4) screws which mount the instrument panel and dash pocket.

Pull the panel free from the dash and feed the dash harness plugs up to the back of the panel.

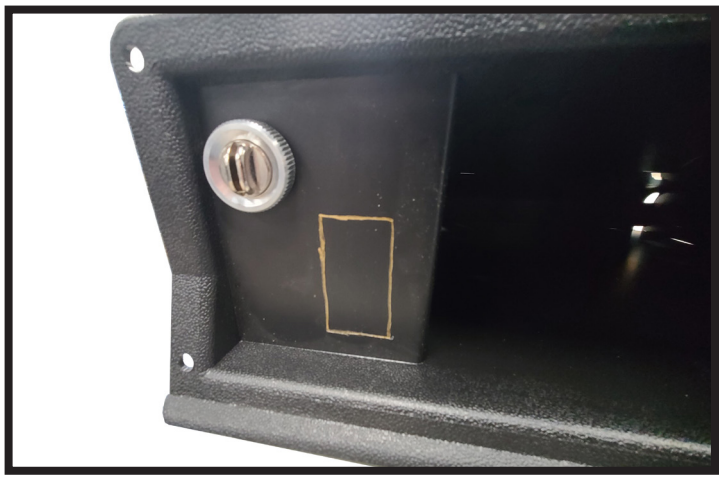


STEP 8

Locate an appropriate spot to install the state of charge meter. Be sure there is enough room behind the selected location for the switch and harness.

Mark out a rectangle that measures 22mm x 46mm (0.87" x 1.81"). The rectangle can be oriented horizontally or vertically as space allows.

NOTE: If replacing a previous charge meter, the existing hole may need to be trimmed to fit the new lithium charge meter



STEP 9

#2 Phillips

Use a rotary cutting tool or razor blade to carefully cut out the hole for the state of charge meter.

The meter can then be pressed into the hole from the front.

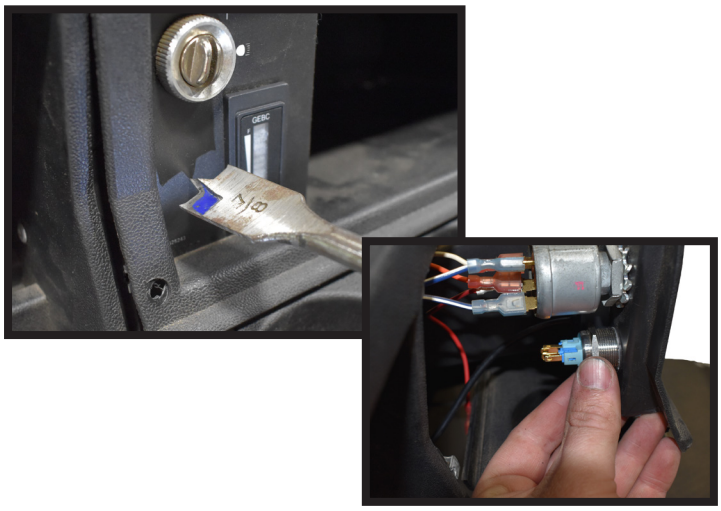
STEP 7

7/8" Drill Bit
Adjustable Wrench

Find a suitable location in which to install the lithium power button. Be sure there is enough room behind the selected location for the button and harness.

Mark and drill a 7/8" hole in the selected location for the lithium power button.

Install the power button into the hole. Be sure the button is straight before fully tightening the rear retaining nut.



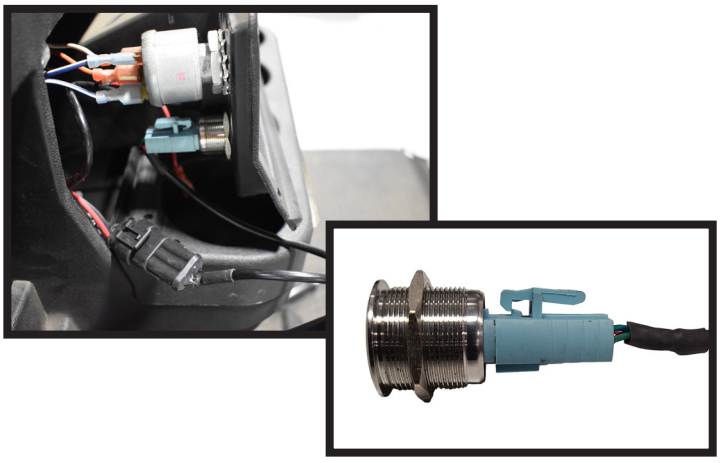
STEP 8

#2 Phillips

Plug the dash harness into the state of charge meter and the power button.

Ensure the clip on the harness engages with the tab on the back of the power button as shown.

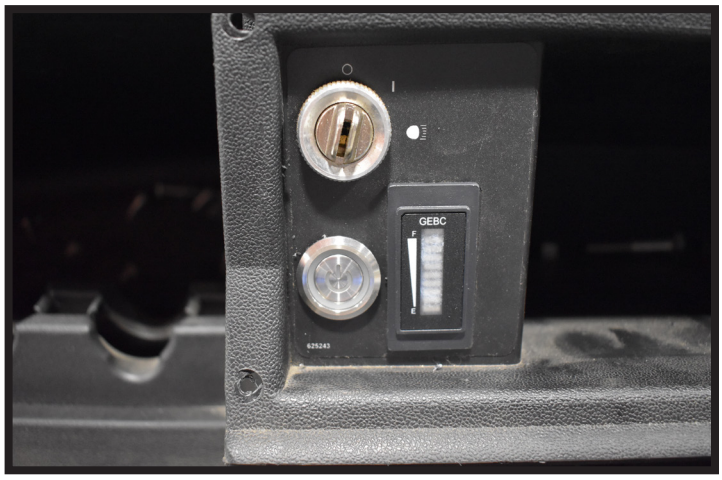
Then reisntall the instrument panel using the four (4) screws previously removed in Step 5.



STEP 9

#2 Phillips

Reisntall the instrument panel into the dash using the four (4) screws previously removed in Step 5.

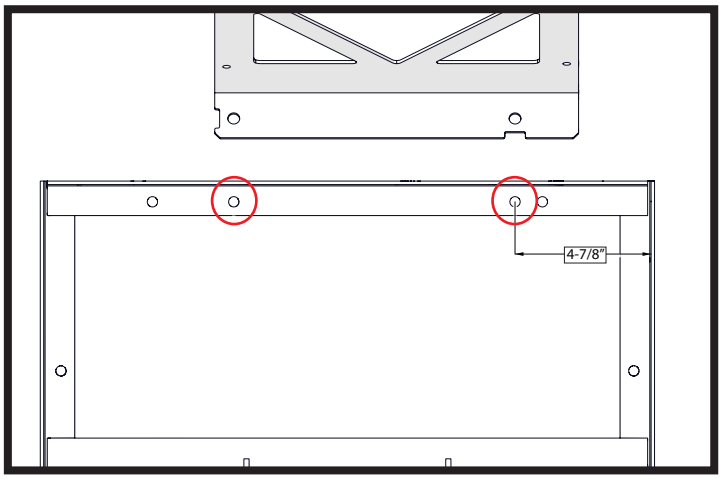


STEP 10

3/8" Drill Bit

Mark and drill one 3/8" hole in the rear crossmember of the battery tray that is 4-7/8" from the inside driver's side of the battery tray.

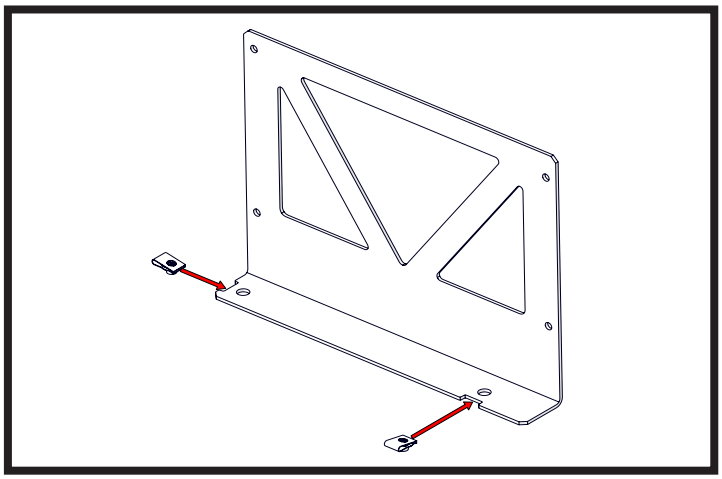
Use the charger bracket as a template to mark and drill a second 3/8" mounting hole on the rear crossmemeber of the battery tray.



STEP 10

Install two M8 clip nuts to the charger bracket as shown.

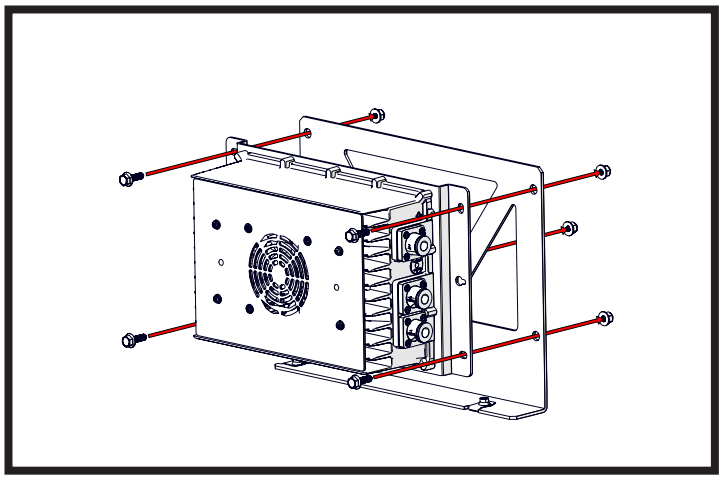
The threaded portion of the clip will be on the bottom of the bracket.



STEP 11

#2 Phillips

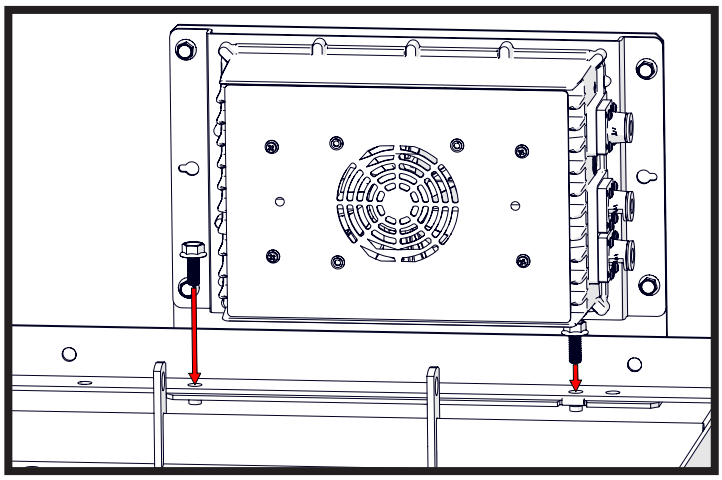
Assemble charger to the mounting bracket using four (4) M6x20mm hex bolts and M6 nylock nuts.



STEP 12

#2 Phillips
8mm Wrench

Secure the charger to the newly drilled holes using two (2) M8x20 hex head bolts.

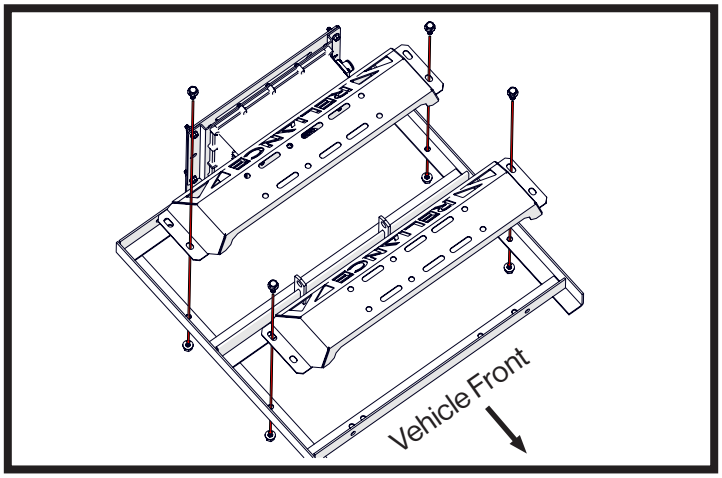


STEP 13

13mm Wrench
13mm Socket

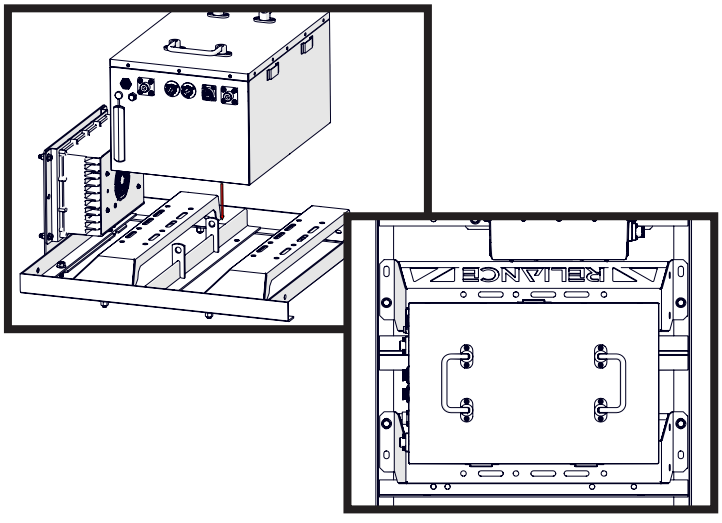
In the battery tray, place the new lithium battery mounting brackets on the stock battery bracket as shown. The RELIANCE logo on each bracket will face the rear of the vehicle.

Mount thebrackets to the vehicle using the mounting holes shown with four (4) M8x20mm hex head bolts and four (4) M8 nylock nuts.



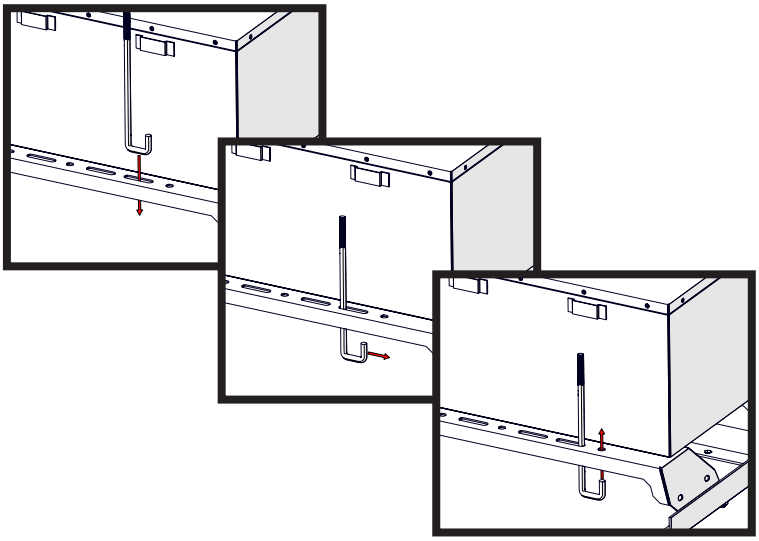
STEP 14

Set the battery on top of the brackets, with the electrical connections facing the passenger's side of the vehicle and centered between the J-bolt holes in the brackets.



STEP 15

Install a J-hook into the base bracket as shown. Be sure that the J-hook mounting hole is below the corresponding retaining bracket on the battery case.



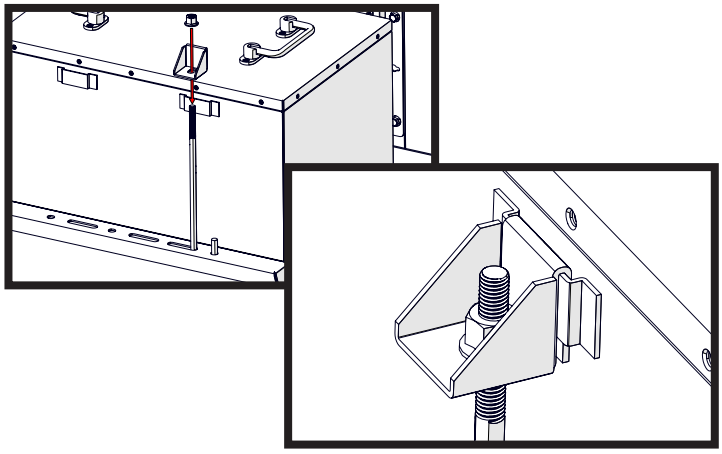
STEP 16

13mm SOCKET

Holding the J-hook in place, install the retaining bracket and M8 Nylock nut onto the J-hook.

When complete, the retaining bracket will be hooked over the corresponding slot on the battery case as shown.

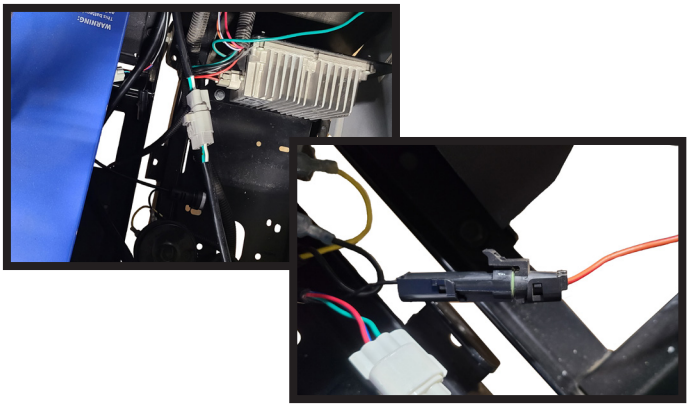
Repeat for the remaining two retaining points.



STEP 17

Plug the lithium charge port into the corresponding plug from the on board charger.

Plug the orange charger interlock wire into the corresponding plug from the charger.



STEP 18

Plug the cord from the on board charger into the outlet labeled "CHARGE" on the battery case.

STEP 20

Plug the dash harness into the outlet labeled "KEY/ CAN" on the battery case.

STEP 21

Plug the Low Battery Buzzer harness into the outlet labeled "BUZZER GAUGE" on the battery case.

STEP 22

Locate a suitable panel on which to place the buzzer. Clean the area with rubbing alcohol, remove the adhesive backing from the buzzer, and press the buzzer in place.

STEP 23

9/16" Insulated Wrench

Locate the ground cable which was removed from the main negative terminal of the original battery pack. Install this cable to the black (-) terminal on the battery case.

Locate the positive cable which was removed from the main positive terminal of the original battery pack. Install this cable to the red (+) terminal on the battery case.

STEP 24

Coil any excess harness or cable together and secure with a cable ties inside the battery compartment.

STEP 25

Switch vehicle back to RUN mode.

INSTALLATION COMPLETE

WARRANTY PARTS		
QTY	PN	DESCRIPTION
1	25-127	TXT Lithium Battery Mounting Kit w/ Charge Port Adapter Hardware
1	07-012	Reliance Lithium Charger w/ Charge Port and AC Cord
1	25-147	Reliance Lithium Charger Mounting Bracket w/ Hardware
1	25-125	Reliance Lithium Battery Li48-105
3	25-137	Lithium Battery Retaining Bracket
3	25-138	Lithium Battery Retention J-Hook
1	25-133-1	Lithium Battery Low Voltage Buzzer
1	25-144	Reliance Lithium Switch/SOC Harness Assembly
1	25-133-2	Reliance Switch/SOC Harness
1	25-133-4	Reliance Lithium Power Switch
1	25-133-5	Reliance Lithium Charge Meter

CHARGE PORT HARDWARE	
QTY	HARDWARE
4	M5-0.8x12mm Countersunk Screw
4	M5-0.8x15mm Buttonhead Screw
8	M5 Flat Washer
8	M5 Lock Washer
4	M5-0.8 Acorn Nut
4	M5-0.8 Hex Nut

CHARGER MOUNTING HARDWARE	
QTY	HARDWARE
2	M8-1.25x20mm Hex Flange Bolt
2	M8-1.25 Clip Nut
4	M6-1.0x20 Hex Flange Bolt
4	M6-1.0 Nylock Nut
4	M6 Flat Washer

BATTERY RETENTION HARDWARE	
QTY	HARDWARE
3	M8-1.25 Flange Nut

BATTERY BRACKET HARDWARE	
QTY	HARDWARE
4	M8-1.25x20mm Hex Flange Bolt
4	M8-1.25 Clip Nut