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Hilux N90 DUAL BATTERY SOLUTION

INSTALL INSTRUCTIONS

Custom Lithium recommends a qualified auto electrician to complete the installation.



TOOLS YOU MAY NEED



- Mallet
- Screw Drivers
- Socket Sets
- Knife
- Wire cutters
- Crimping tool
- Soldering iron
- Drill Set

WHAT COMES IN THE KITS

- Lithium Battery
- Cambuckle Straps
- Rivnuts, Screws and Washers
- Mounting Tray



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INSTALLATION **STEPS**

1) Remove the rear seat assembly following Toyota workshop procedures.

Remove any trim panels required to expose the rear cab wall.

Remove the vinyl floor covering enough to access the factory wiring loom.



2) The N90 has two additional factory components mounted where the battery will sit.

These consist of:

- One larger electronic control module.
- One smaller alarm siren module.

Remove both modules carefully.

Do not disconnect or modify the wiring unless absolutely necessary. *Qualified Auto Electrician Required*



3) A factory wiring loom runs beneath the vinyl flooring adjacent to the rear wall.

Before installing the battery tray:

- Lift the loom from beneath the flooring.
- Re-route it so it sits in front of the battery tray.
- Ensure there is no pinching or excessive tension.
- Do not cut, extend or modify the loom.

The loom only requires repositioning.



4) The rear cab vent located behind the battery must be sealed.

This prevents:

- Dust ingress
- Water entry
- Road debris entering the cabin

If a second factory vent is present:

Blank it off using an appropriate sealing plate.

If a second vent is not fitted:

Create a dust-proof blank using:

- Aluminium plate
- Dense closed-cell foam

Method

1. Cut aluminium to cover the vent opening.
2. Drill several ventilation holes through the aluminium.
3. Place dense foam between the rear wall and aluminium plate.
4. Rivet the assembly securely to the rear wall.

This provides airflow restriction while preventing dust and debris entering the cabin.



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INSTALLATION STEPS (Cont.)

5) Position the N90/N80 battery tray against the rear wall.

- Use the existing factory mounting holes.
- Install the tray using the supplied rivnuts.
- Confirm the tray sits flat against the rear wall.
- Verify adequate clearance around the relocated wiring loom.

*Modification to the tray is may be required.



6.1) Install the battery as per the standard N90 installation procedure.

Confirm:

- Battery clears both relocated modules.
- Wiring cannot rub on the battery.
- Battery is securely fastened.
- No cables are trapped.



6) Using fabricated Z-brackets (or similar brackets suitable for the installation): Mount both factory modules in front of the battery.

Recommendations:

- Maintain clearance from the battery.
- Ensure wiring is not stretched.
- Mount the larger control module in the same orientation (axis) as its original installation.
- The alarm siren can be mounted wherever sufficient clearance exists.

The lower area behind the rear seat provides adequate space for both modules



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

8) We recommend to fuse close to the positive terminal. *seek professional assistance around cable size and fusing*



NOTE: Make sure all connections are tight. Make sure all joins have tape around them and are not left bare. We recommend you seek professional advice relating to cable sizes and fuse sizes



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