

## REMOVE AND REFIT RADIATOR PACK

### Remove 42 mins

1. Ensure the Ignition switch is OFF, remove keys from the vehicle and place in a secure location at least 2 metres from the vehicle

**Caution:** Please wait 30 minutes after the vehicle power system has been switched off to allow any power stored within the inverter capacitors to have been discharged.

**Warning:** ALWAYS ensure the correct PPE is worn when working on, or with HV components.

2. Disconnect the 24V battery main negative cable



3. Remove Manual Service Disconnect plugs (MSDs)



4. Wait 30 minutes to check for residual voltage (close to zero volts)
5. Tilt cab by inserting jack handle and jacking up



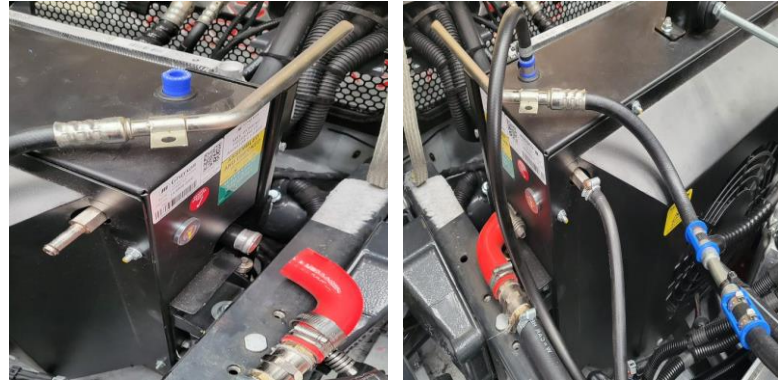
6. Drain coolant from vehicle by removing the radiator bottom hose and leave vehicle to drain into a suitable container



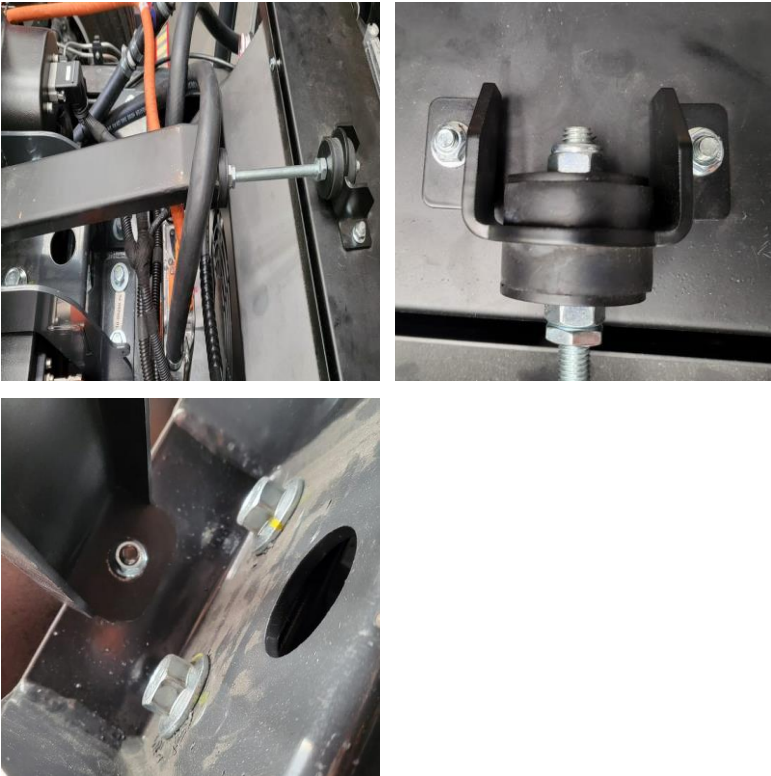
7. Remove the top n/s radiator hose



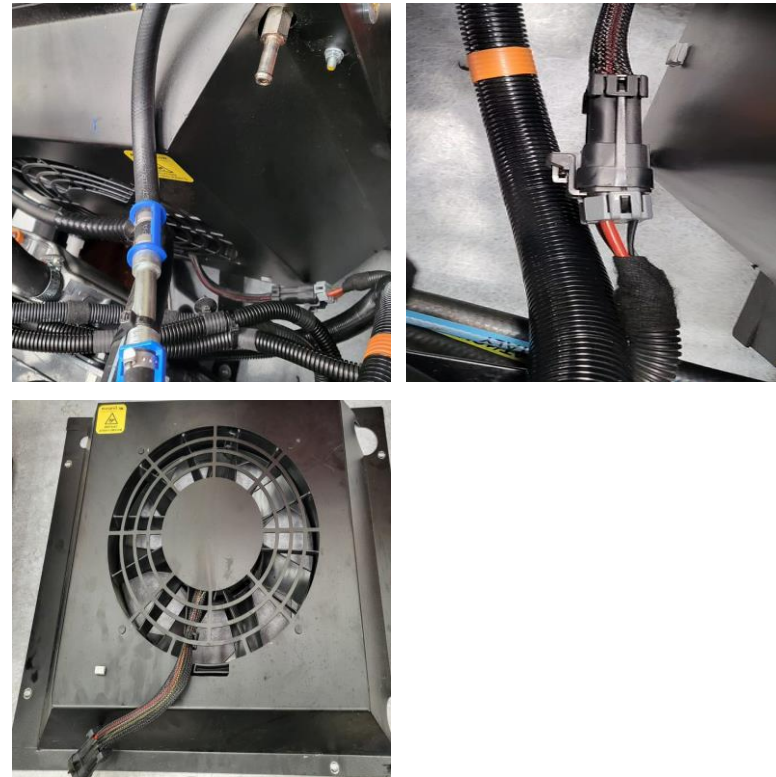
8. Remove 2x o/s hoses, top and back



9. Remove the top radiator support bar by undoing 3x 13 mm nuts



10. Remove radiator cooling fan by first disconnecting the multiplug & undoing 8x 10 mm nuts, then using a suitable trim tool, slowly prise the fan off of the studs





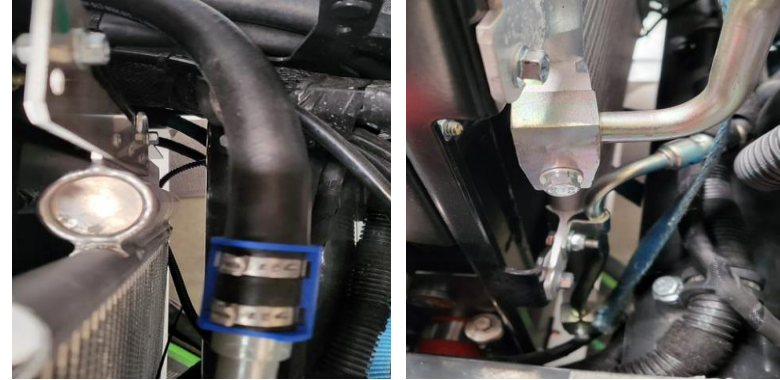
11. Remove the 3x lower radiator support brackets by undoing the 3x 10 mm nuts



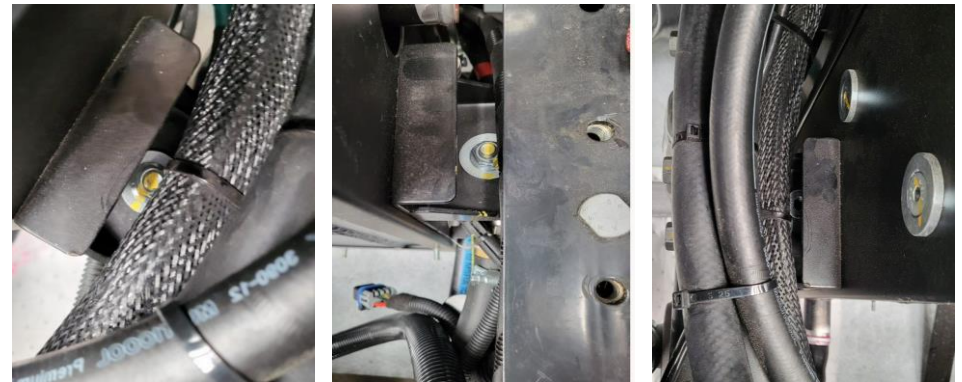
12. Attach a suitable strap to support the air con condenser (being very careful not to damage the fins), so it can be removed from the radiator but without having to disconnect and de-gas the air conditioning



13. Remove the condenser by undoing the 4x 10 mm nuts and bolts, two either side of the condenser, gently move aside



14. Remove the 2x 15 mm radiator side mounting bolts (note: it may be necessary to cut some of the cable ties securing the hoses on the n/s to gain access to the n/s bolt)



15. Lift radiator on the n/s and push back at an angle to gain access to the lower o/s cooling hose (inside chassis leg)



16. Remove lower o/s radiator hose by undoing the 10 mm jubilee clip



17. Remove radiator pack from vehicle (2 people required to lift)

## Refit 1 Hour 16 mins

1. Position radiator pack into vehicle
2. Refit lower o/s radiator hose (inside chassis leg) and tighten the 10 mm jubilee clip
3. Realign the radiator and refit the 2x 15 mm radiator side mounting bolts and tighten to 48 Nm
4. Refit the condenser and secure with the 4x 10 mm nuts & bolts, two either side of the condenser
5. Refit the 3x lower radiator support brackets using the 3x 10 mm bolts
6. Refit radiator cooling fan using the 8x 10 mm nuts and reconnect the multiplug
7. Refit the top radiator support bar using the 3x 13 mm nuts and torque to 24 Nm
8. Refit 3x o/s hoses, top, side and back and tighten the jubilee clips
9. Refit top and bottom n/s radiator hoses and tighten jubilee clips
10. Refill coolant and bleed system
11. Lower cab and run vehicle to check for leaks