

REMOVE AND REFIT AUXILIARY INVERTER (KEB)

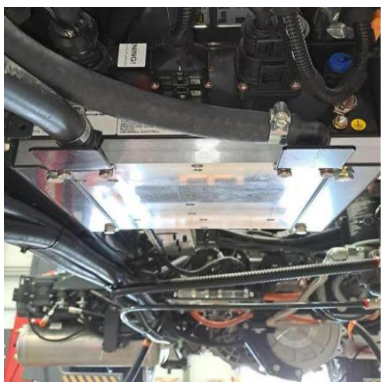
Remove

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.

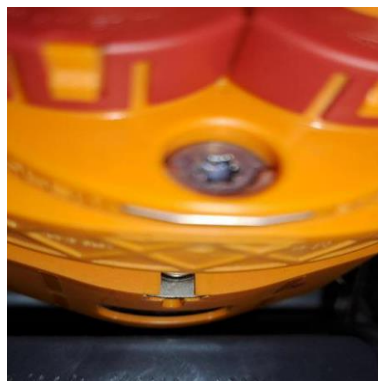
2. Disconnect both the negative and positive battery cables – see *LV Battery Disconnection*
3. Remove both Master Service Disconnect plugs (MSDs) – see *Master Service Disconnect Remove/Refit*
4. Raise the vehicle using a suitable lifting apparatus while complying with lifting weight restrictions to a safe working height
5. Locate the DC/DC converter under the vehicle (the DC/DC is mounted in a block with the KEB)



6. Undo and remove the two HV security brackets and disconnect the KEB



7. Remove the HV cable into the side of the KEB (undo the torx screw T20)



8. Disconnect the connectors from front of the BMS and KEB



9. Release the cable clip from the BMS housing and move loom to the side



10. Clamp off the two cooling hoses to the KEB and remove. Be ready to catch any residual coolant



11. Clamp off and disconnect the two DC/DC coolant hoses via the release tags on the connections. Be prepared to catch residual coolant



12. Support the DC/DC with suitable transmission jack
13. Undo the 4 DC/DC mount bolts (one in each corner) careful not to drop/lose the rubbers

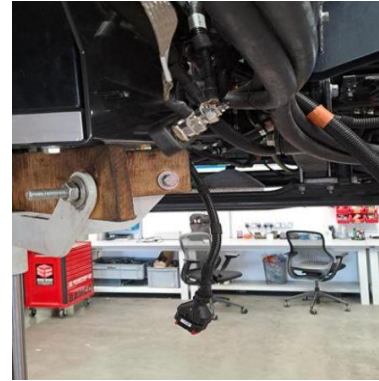
14. Slowly lower the DC/DC a few inches to gain access to the earth bus bar



15. Undo and remove the second earth connection in (this is the earth for the KEB)



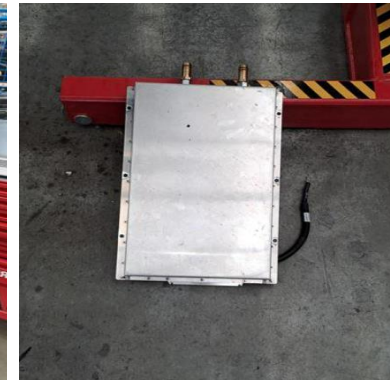
16. Undo and remove the two bolts securing the earth bus bar and place bus bar out the way



17. Lower DC/DC down further to gain access and undo the KEB securing bolts

18. Lift off the KEB and lower the DC/DC to a safe level to lift from the jack

19. Place DC/DC in a clean secure workstation



Refit 37 Mins

1. Place DC/DC back onto the stand
2. Raise DC/DC up to a level that you can refit the KEB use thread lock tighten to 48 Nm
3. Refit earth bus bar and tighten to 23 Nm
4. Refit KEB earth cable and tighten to 23 Nm
5. Making sure all washers and rubbers are in the correct location, raise the DC/DC back into its position
6. Resecure the DC/DC with the four bolts, use thread lock and tighten to 48 Nm
7. Refit the two DC/DC coolant hoses (push fit)
8. Refit the two KEB coolant pipes and tighten clamps to 7 Nm
9. Refit all front electrical connectors
10. Refit the three HV connectors on the side
11. Refit the two HV connector security brackets
12. Confirm all connections are sound
13. Lower vehicle and top up coolant as necessary
14. Fit relevant PPE
15. Refit MSDs
16. Refit 24V battery link
17. Confirm vehicle safe and remove PPE
18. Key on vehicle and scan/clear any faults
19. Check and confirm no leaks from cooling system
20. Test the vehicle and confirm all ok