

10-08229 FST 3KW TO 9KW NA CHARGER UPGRADE KIT

Parts Required

[NEED BOMS]

## Installation

1. Use a 2.5mm Allen to remove fuse cover on riders left hand side of the battery



a.

2. Using a flat head push and turn the fuse to remove the fuse. Remove both fuses
3. Use key to unlock the rear seat
4. Remove rider seat with T30
5. Remove tank plastic with T25 and a HEX 3mm at the shark teeth



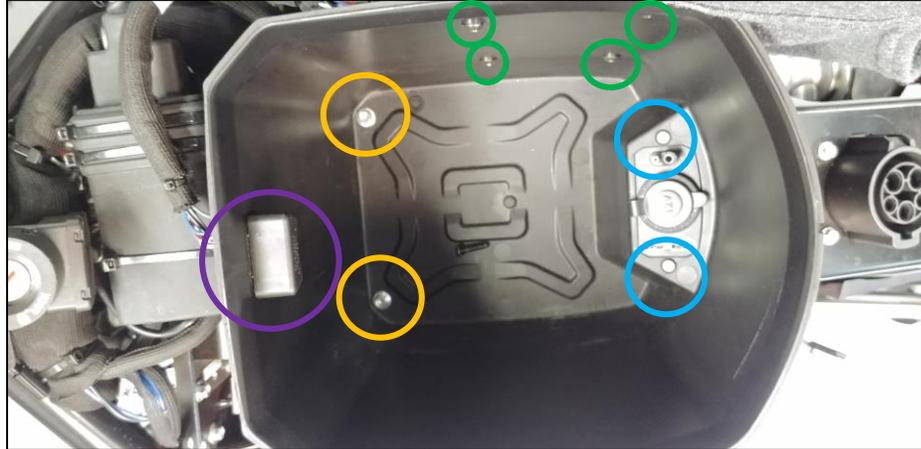
a.

6. Remove both side covers by removing the 2 fasteners on left side cover and 3 fasteners on the right side cover with a T25
7. Disconnect the positive and negative leads of the 12 v battery.

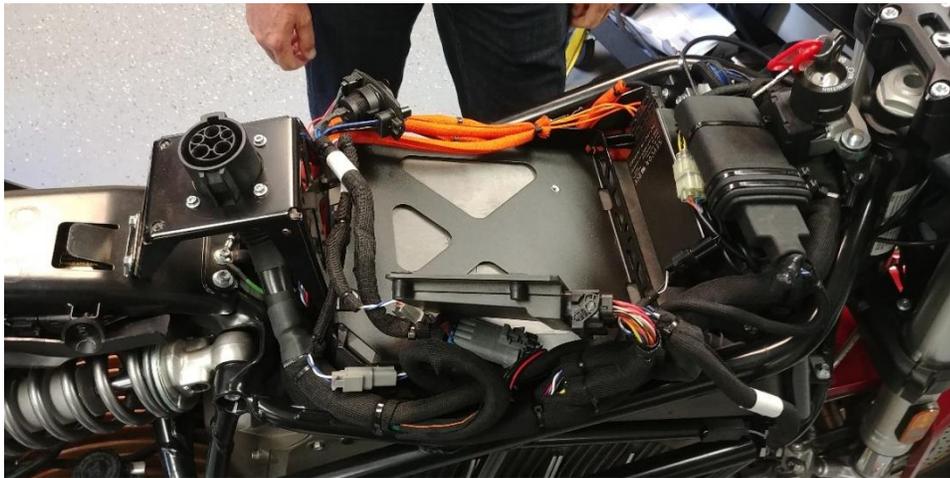


a.

8. Separate the **MBB** with a 3mm Allen
  - a. Leave the MBB connected to the harness
9. Uninstall **OBD-II** port to front of bucket
10. Remove **power hub/accessory port** from bucket with T15
11. Remove bucket from **tank support** with T30



a.



b.

12. Remove the bracket from the bike by removing the four fasteners with a T30

a.



b.

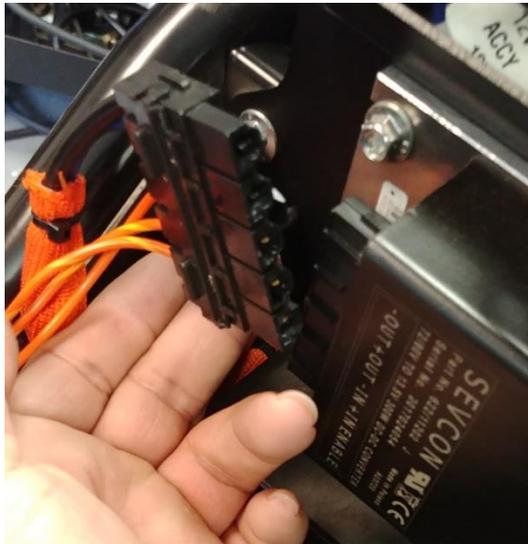
13. To prevent fasteners and nuts from falling into the battery, place a towel under the free bracket. Remove the inlet from the bracket using a 10mm wrench and T25



a.

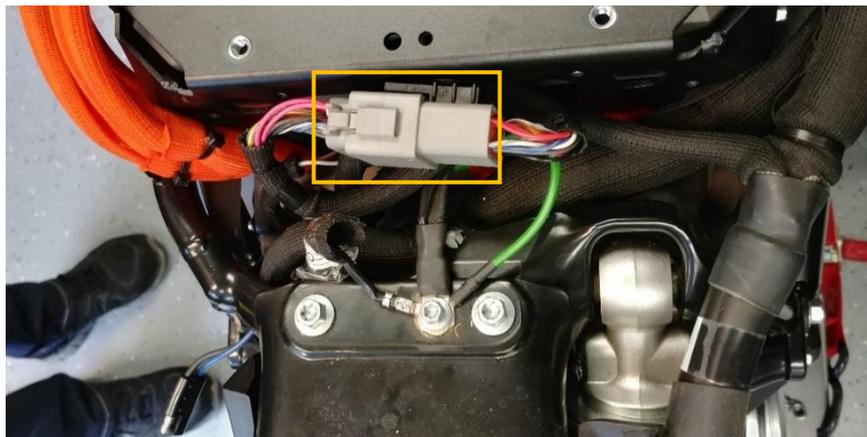
14. Disconnect the following:

a. Sevcon



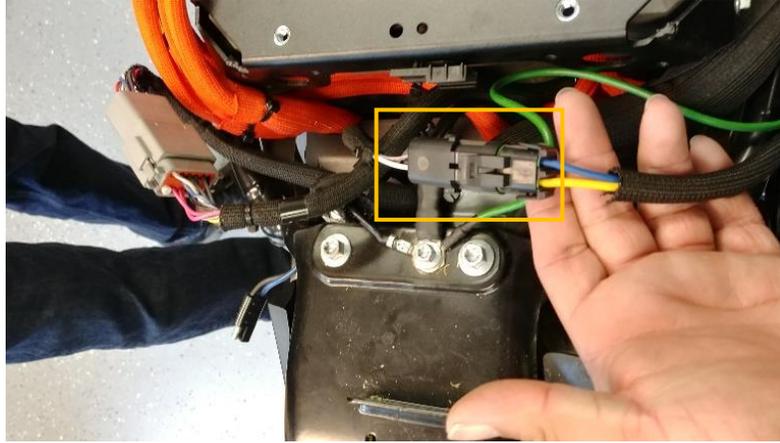
i.

b. Battery to main harness

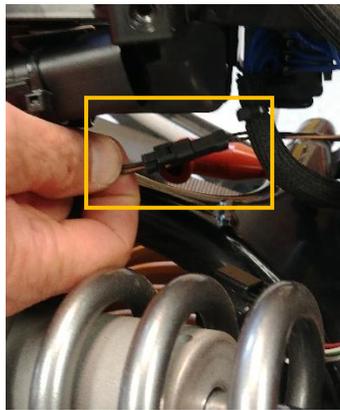


i.

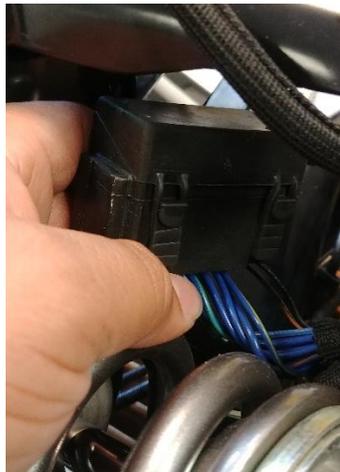
c. Battery inlet pilot connector into harness



i.  
d. Heater wire



i.  
e. Fuse Box



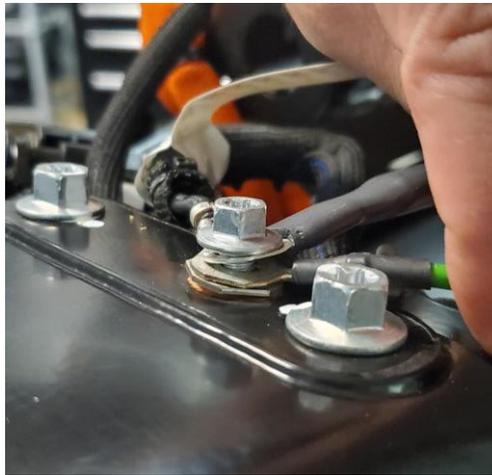
i.  
f. Disconnect connector tail pod signal harness



i.

g. Reroute the 12v pos and neg leads out of the tail frame

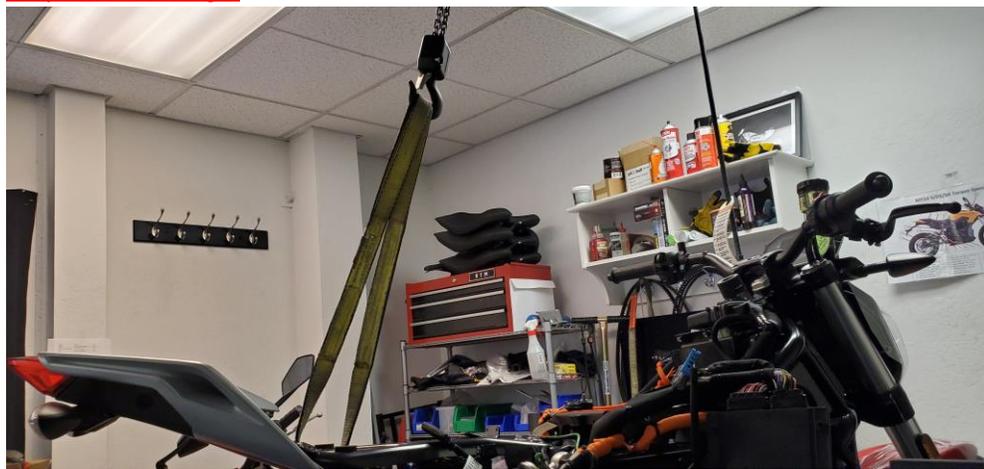
15. Remove the ground and two other fasteners that hold the tail frame on the main frame. Note the orientation of the ground wires.



a.

16. Remove the two remaining fasteners that hold the tail/sub frame on the main frame.

a. It is critically to hold the tail/sub frame when removing the last fasteners. Not doing so may cause damage.



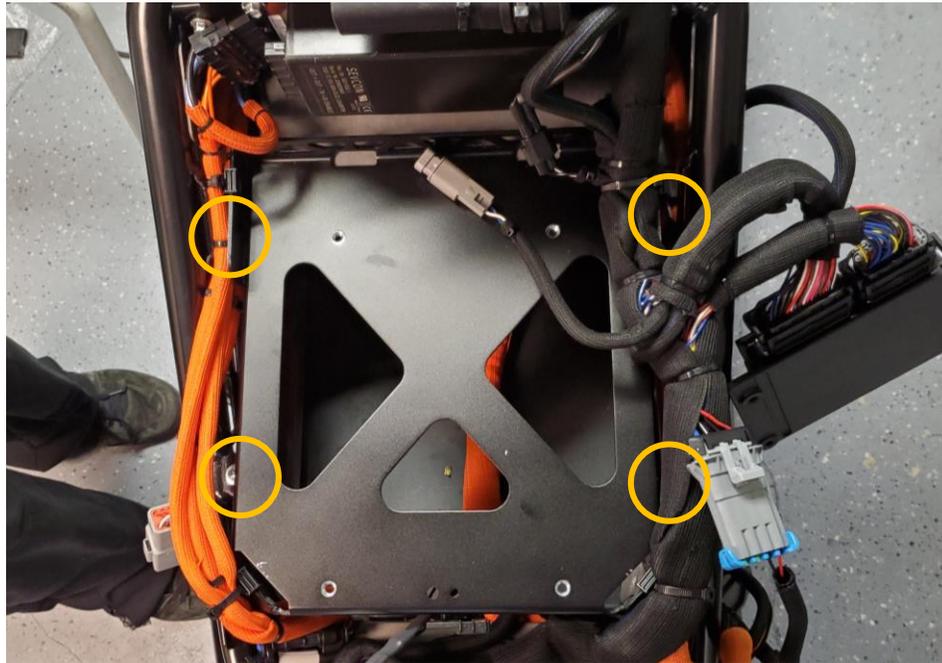
b.

17. Remove HCU COVER (24-08388)



a.

18. Disconnect the clips that hold the harness to the tank support. Remove tank support by removing the four fasteners with a T30

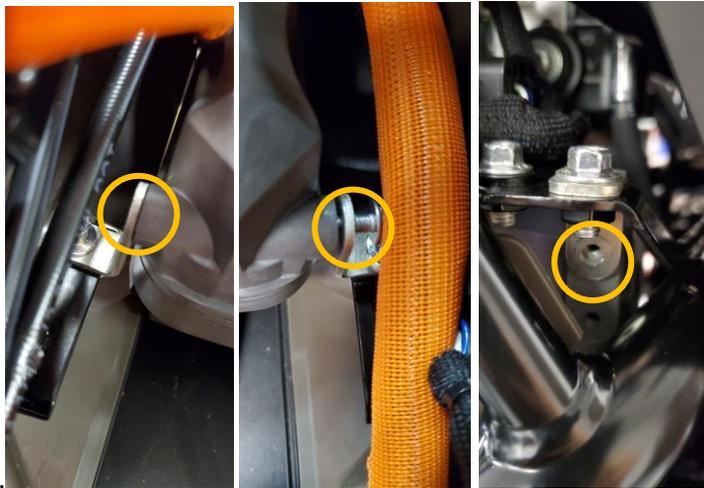


a.



b.

19. Remove the charger by removing the four fasteners but still leaving the L bracket attached to the frame not the charger

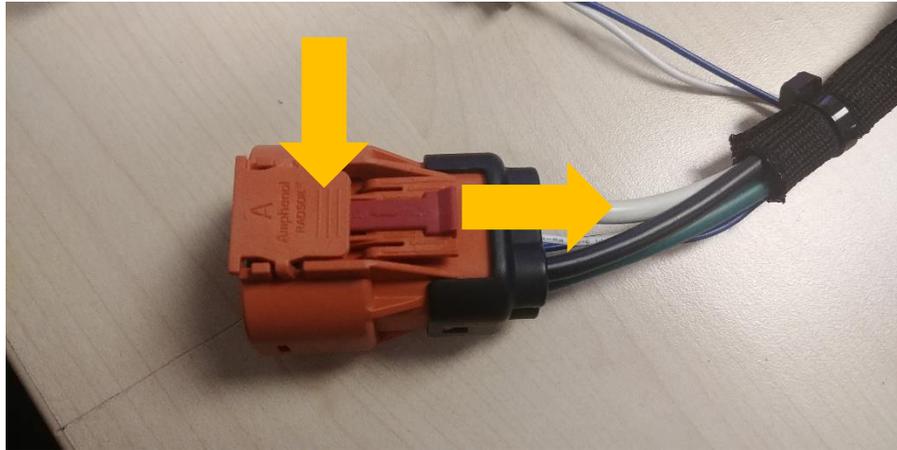


a.

20. Disengage both the connectors



- a.
- b. To remove the connector pull the red tab and press on the orange tab while pulling



i.

21. Connect 56-08209//56-08210 Charge Inlet Harness 9KW//12KW to the 3 kw chargers on the right side.

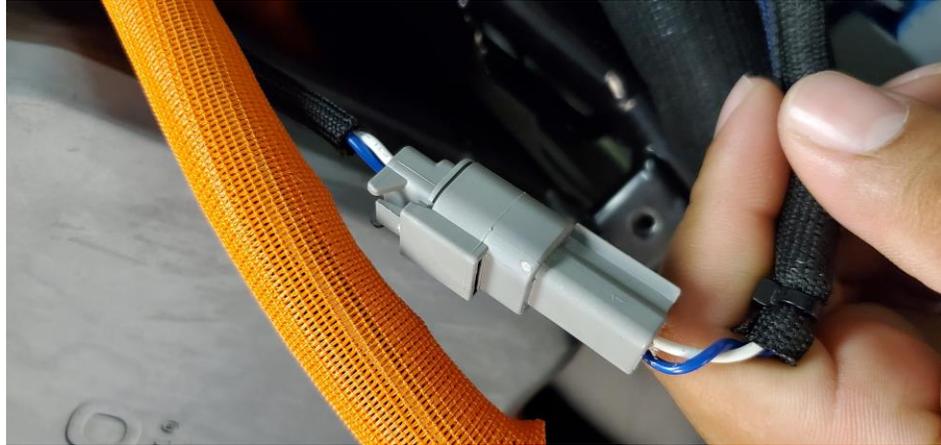
- a. Note that the longest connector will be used on the 6 KW.
- b.



c.

22. Replace this step with either

- a. Connect the Charge Inlet Harness 9KW CAN connector to the CAN connector on the main harness.



b.

23. Reinstall the front charger

24. Reinstall the tank support

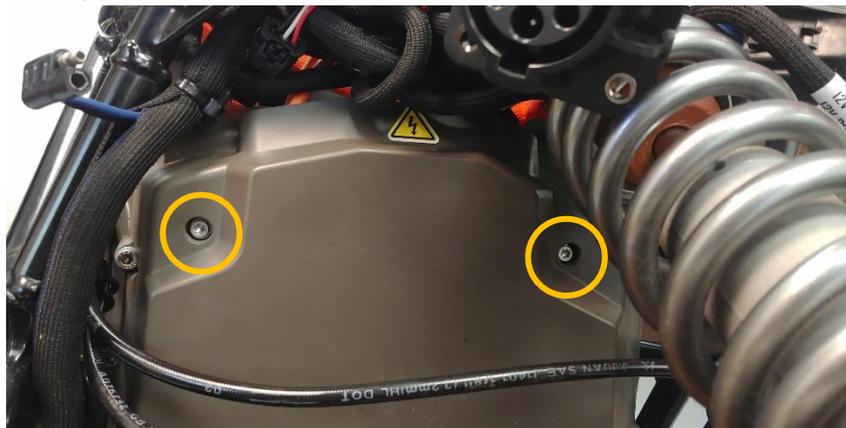
25. Set the 6KW charger on top of the tank support bracket and install the last Charge Inlet Harness charger connector. Re-attach the clips of the main harness and charger harness.



a.

26. Remove the rear battery cover by removing the two fasteners with a T25

a. It may require applying light pressure to the break lines to allow room for the rear battery cover to be removed.



b.

27. The following will be added on the 9KW

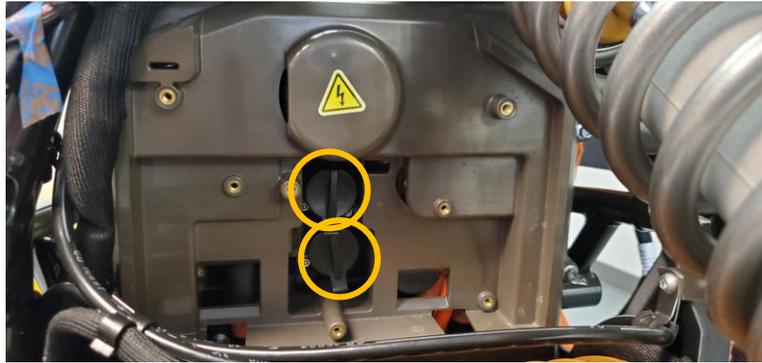
a. Install the buttons blanking caps to the negative and positive accessory busbars.

i. Install the O-ring onto the 12mm blanking cap



ii.

- b. Remove the caps. Install the positive busbar onto the top radsocket. Using 2x the M4X10 Socket head fastener(90-08175) and 2x the M4 washer (90-02102)



i.



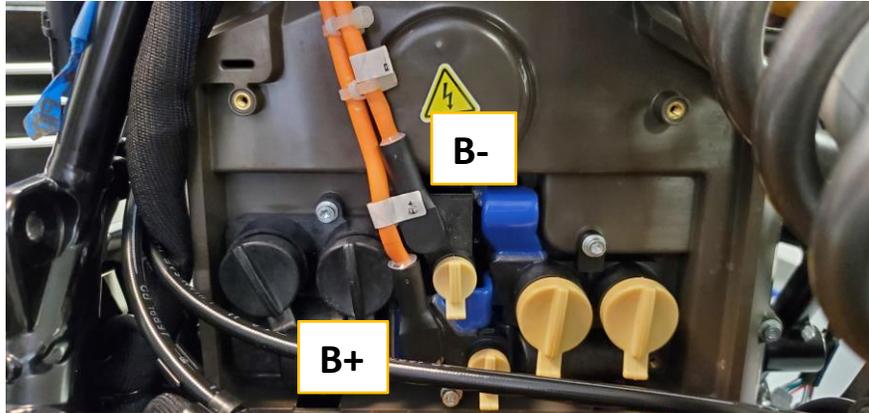
ii.

- c. Install the negative busbar onto the bottom radsocket. Using 2x the M4X10 Socket head fastener(90-08175) and 2x the M4 washer (90-02102)



i.

- d. Install rad socks, B- on the top and B+ on the bottom. Note the wiring is towards the left



i.

28. Reinstall the rear battery cover

29. Reinstall tail/sub frame. Ensure the routing of the 12 v battery is done. Torque to 20 ft-lbs

30. Reconnect the following connectors

- a. tail pod signal harness
- b. battery inlet pilot connector into harness
- c. heater wire
- d. fuse box charge
- e. battery-to-main-harness
- f. Sevcon

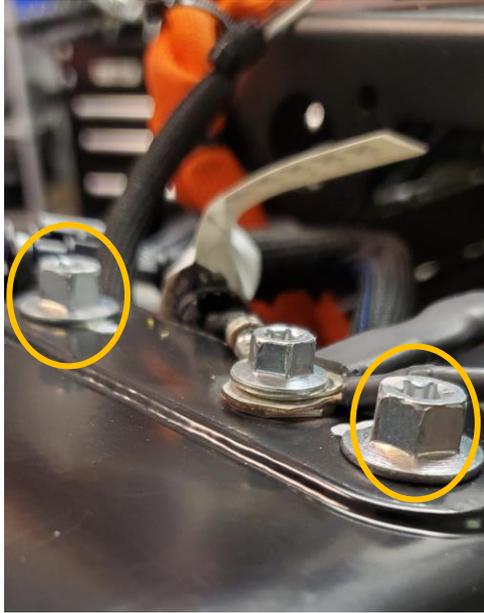
31. Ground the wires into tail frame. Torque to 5ftlbs

- a. 1. main harness ground
- b. 2 battery ground
- c. 3. charge inlet ground



i.

32. Torque the two fasteners to 20 ft lbs



a.

33. Install the weather strip (24-08444) to the tank bucket shallow (24-08428). Weather strip should be flush to the top of the bucket

a. Note that you will have a small gap



b.



c.

34. Add the 3 foam strips(81-08087) to the following locations on both side chargetank mounting bracket(26-08342)



a.

35. Cut 2x 5 inches and 4x 4.75 inches strips to the following locations on the top charge tank mounting bracket. Mirror on the side



a.

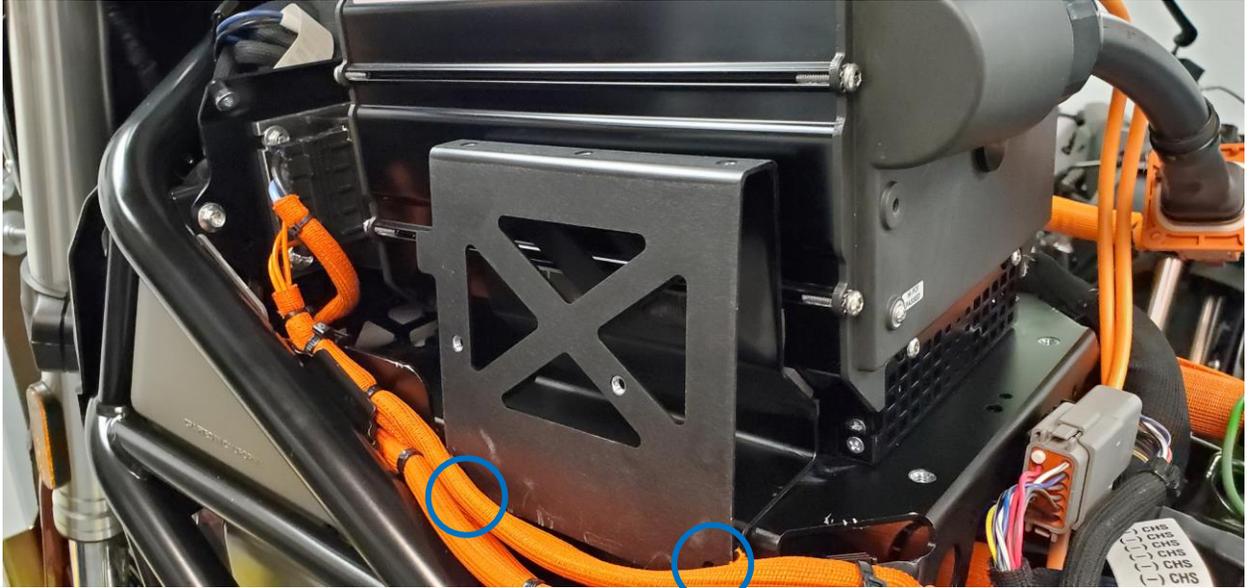
36. Attach the baffles to the top charge tank mounting bracket with two RIVET/TREE FASTENER (90-08055)

a. Note the orientation



b.

37. Orientate the 6Kw charger as shown below. Install the side charge tank mounting bracket to the tank support with fastener (4x 90-08295).



38. Install the top charge tank mounting bracket to the side charge tank mounting bracket with fasteners (6x 90-08249) and washers (6x 90-02101).



- a.  
39. Install the MBB to the tank mounting bracket with fastener (4x 90-08249) and clipped washer (4x 90-08271)



a.

40. Install Powerhub to tank bucket(24-08428) with fastener (2x 90-08283)



a.

41. Install OBD 2 connector to the tank bucket(24-08428)

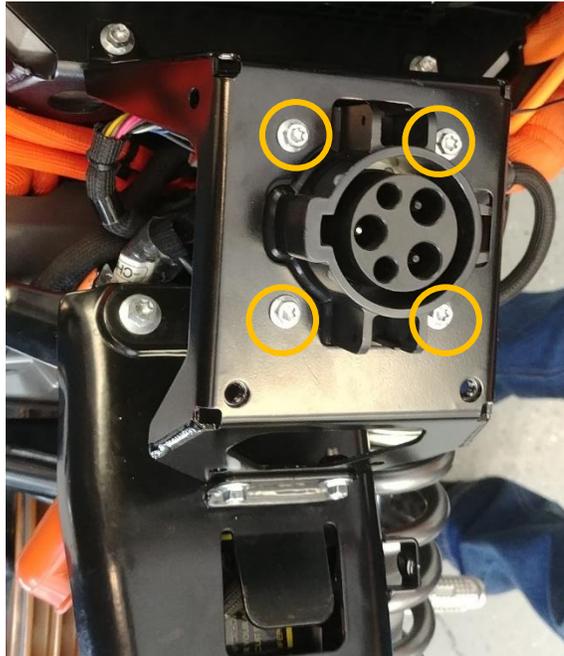


a.

42. Install tank bucket (24-08428) to charger with fastener (2x 90-08209)



- a.
43. Install the charge inlet to the Charge Inlet Mount (26-08360) using the previous fastener and nut.
- a. Note the orientation below



- i.
44. Install the inlet bracket to the sub frame and tank support. Torque to 7.8 ft-lbs
45. Install recirculation preventer (81-08081 and 81-08086) on the inner of the tanks



a.

46. Remove the 7 #8 philips head screws from the tank to remove the right tank arm.



a.

47. Once removed, install 81-08081 and 81-08086.

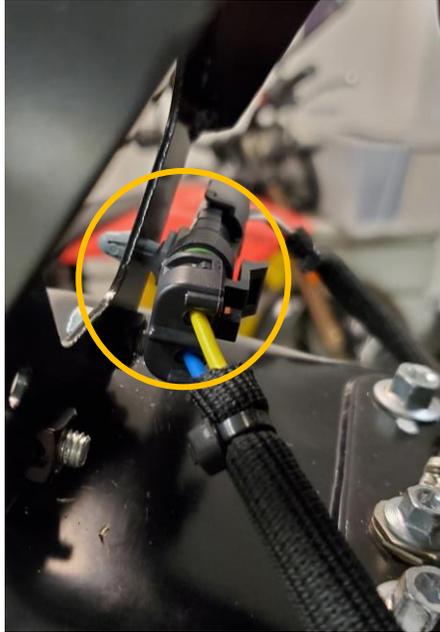


a.

48. Reassemble the tank. Repeat steps 45-48 for the left tank arm.

49. The wiring route needs to be done the following

- a. Attach the UMBRELLA PUSH to the charge inlet bracket and use a zip tie to attach the Battery inlet pilot connector.



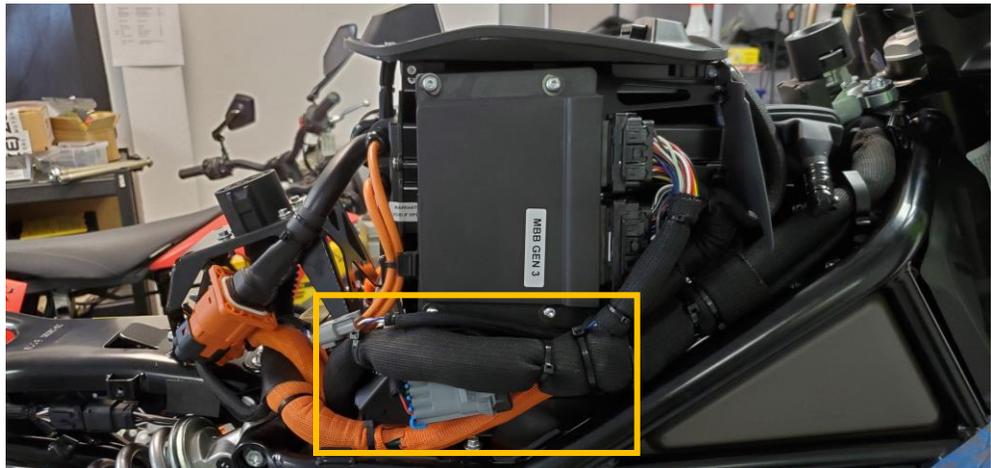
- i.
- b. Add the CABLE TIE AND EDGE CLIP to hold the charger output



- i.
- c. Add the CABLE TIE BLK NYLON clip to the trunk support.



- i.
- d. MBB behind the main harness
- e. The powerhub is located below and behind the main harness



- i.
50. Reinstall tank
51. Install charge inlet gasket gasket(24-08521)