CSI | Battery Capacity On Vehicle Quick Check



Tools and preparation

CAN tools (i.e CANalyzer) to ready to log on the battery to vehicle CAN bus data

Pre-condition:

Check B2V_ST2>>B2V_ST2_SOH, If it is ≤ 80% or you feel the vehicle E-mileage is significantly(75% of original mileage under similar conditions) shorter than original, then proceed to Procedures below

Procedure:

- 1. Drive the vehicle to low SOC that max cell voltage <3.26V @ less than 5A current, and then key off the vehicle and the battery and rest the vehicle for 1 hour.
- Plug in the CAN tools, key on and make sure vehicle and battery CAN communication is OK, and start the CAN log and note down the start SOC and B2V_ElecEnergy>>B2V_TotChgEnergy(1) and B2V_ElecEnergy>>B2V_TotDischgEnergy(1).
- 3. Start charging the battery using no more than 1/3C of current (i.e. a 210KWh system no more than 70KW charging power). Charge all the way to battery full charge and rest for 1 hour.
- 4. Stop CAN log or note down the stop SOC and B2V_ElecEnergy>>B2V_TotChgEnergy(2) and B2V_ElecEnergy>>B2V_TotDischgEnergy(2).
- 5. Make sure the B2V_TotDischgEnergy(2) B2V_TotDischgEnergy(1) is zero (or no more than 0.1Kwh)

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Procedure:

- **6. Estimated Current Battery Capacity** = (B2V_TotChgEnergy(2) B2V_TotChgEnergy(1))/(stop SOC start SOC).
- 7. If Estimated Current Battery Capacity/Name Plate Battery Capacity*100% is less than 75%, please repeat the procedure from step 1 through step 7. And if both results are less than 75%, please contact CSI (CATL NA service center)