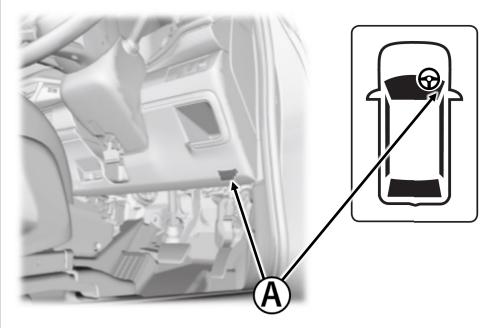


Battery state of health check (SOCE & Reset)

Battery in vehicle:

Connection of diagnostic tool (HDS) to OBD connector.

OBD connection location (A): (RHD shown, LHD is a mirror image)



- 1. Turn the vehicle to the OFF (LOCK) mode.
- 2. Connect the HDS to the OBD (A) located under the driver's side of the dashboard.
- **3.** Turn the vehicle to the ON mode, but do not turn the vehicle to the READY TO DRIVE mode.
- **4.** Activate HDS, then make sure the HDS communicates with the PCM and other vehicle systems.
- **5.** Access the Electric powertrain data list in HDS to view the "High Voltage battery SOH" reading.
- **6.** The powertrain PCM can be reset with the HDS function.

Data list example:

TC TC	Sample Time: 0.00s
Battery Condition Monitor Module A Backup Source Voltage	14.52V
Battery Pack Capacity	191.0Ah
DC socket temperature 1	24°C
DC socket temperature 2	25°C
EVSE Energy to be Delivered	0W·h
HV Battery Cell Maximum SOC	72.2%
HV Battery Cell Minimum SOC	46.5%
HV Battery Current Sensor A Sensing Current	A8.0
HV Battery Line A Total Voltage	376.3V
HV Battery Maximum Cell Voltage	3928.0mV
HV Battery Minimum Cell Voltage	3682.0mV
HV Battery Secondary Current Sensor A Sensing Current	A8.0
HV Battery Total Current	A8.0

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E:Ny1 2023- (RS1)

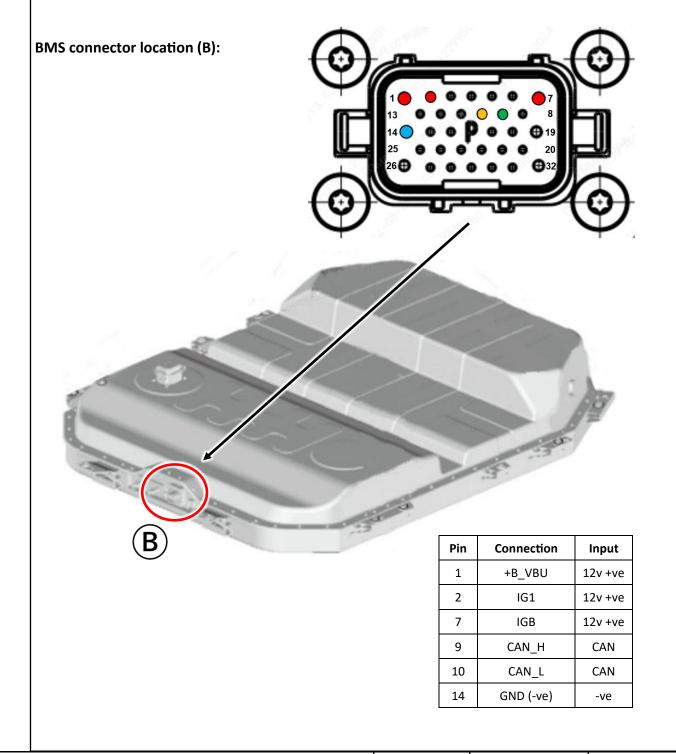
Battery without vehicle.

Connect the CAN reader tool to BMS connector (32 pin male).

Recommended tool:

CAN Reader: Vector VN16xx or equivalent tool compliant with ISO 14229-1.

Note: ISO 14229-1 compliance is highly recommended for optimal performance.



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Method of reading SOCE:

- 1 Send ID:18DBEFF1x DLC:8 \[03 22 20 2A AA AA AA AA \] from VN1610 to BAT.
- (2) Receive ID:18DAF101x DLC:8 \[\int 10 \text{ F6 62 20 2A xx xx xx } \] from BAT to VN1610.
- (3) Send ID:18DA01F1x DLC:3 [03 22 20 2A AA AA AA AA] from VN1610 to BAT.
- (4) Receive ID:18DAF101x DLC:246 [62 20 2A xx xx xx xx xx xx] from BAT to VN1610.

NOTE: The time between steps 1 and 3 is only 100 m/sec, so it is necessary to create the command in advance.

The SOCE is returned at 243 byte.

(5) Calculate the SOCE value in decimal using the following conversion formula.

SOCE×100/255 example: $252(FCh) \times 100/255 = 98.82 \cdot \cdot \cdot [\%]$

Method of software reset:

- A: When using \$04
- ① Send ID:18DBEFF1x DLC:8 0104AAAAAAAAAAAA
- (2) Receive ID:18DAF101x DLC:8 「01 44 55 55 55 55 55 55 」 from BAT to VN1610.

If the response for step 2 is received, the reset is completed.

- B: When using \$A4
- ① Send ID:18DBEFF1x DLC:8 「02 A4 10 AA AA AA AA AA AA from VN1610 to BAT.
- (2) Receive ID:18DAF101x DLC:8 [02 E4 20 55 55 55 55 55] from BAT to VN1610.

If the response for step 2 is received, the reset is completed.

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