



Battery state of health check (SOCE & Reset)

Recommended tool:

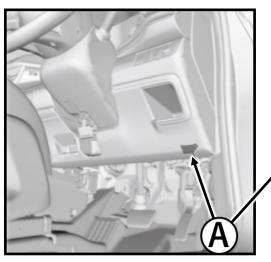
CAN Reader: Vector VN16xx or equivalent tool compliant with ISO 14229-1.

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

Battery in vehicle:

Connect the CAN reader tool to OBD connector.

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



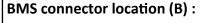


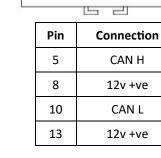
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

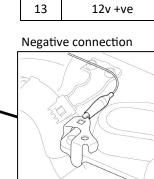
Pin	Connection
4	Ground / -ve
6	CAN H
14	CAN L
16	12v +ve



Connect the CAN reader tool to BMS connector.







CAN H

12v +ve

CAN L

B		

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Method of reading SOCE:

- $\widehat{(1)}$ Send ID:18DBEFF1x DLC:8 \lceil 03 22 20 2A AA AA AA AA \rceil from VN1610 to BAT.
- \bigcirc Receive ID:18DAF101x DLC:8 $\boxed{10}$ F6 62 20 2A xx xx xx $\boxed{10}$ from BAT to VN1610.
- (3) Send ID:18DA01F1x DLC:8 [30 00 00 AA AA AA AA AA] from VN1610 to BAT.
- (4) Receive ID:18DAF101x DLC:8 [21 xx xx 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.

As shown in the following diagram, the stored data is transmitted in sequence, and the SOCE data can be identified as the last figure before 55 55 55 55, which indicates the end of the received data. In this example "FC" indicates SOCE in hexadecimal.



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

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

Method of software reset:

- A: When using \$04
- (1) Send ID:18DBEFF1x DLC:8 [01 04 AA AA AA AA AA AA AA] from VN1610 to BAT.
- (2) Receive ID:18DAF101x DLC:8 [0144555555555555] from BAT to VN1610.

If the response for step \bigcirc is received, the reset is completed.

- B: When using \$A4
- (1) Send ID:18DBEFF1x DLC:8 [02 A4 10 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 \bigcirc is received, the reset is completed.

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