

State of Health Check

Battery state of health check (SOH & Reset) battery in vehicle

Honda dealers MCS equipment is capable to perform these actions without the need of any 3rd party tool. Just install the High Voltage battery on the motorcycle and connect MCS to the vehicle.

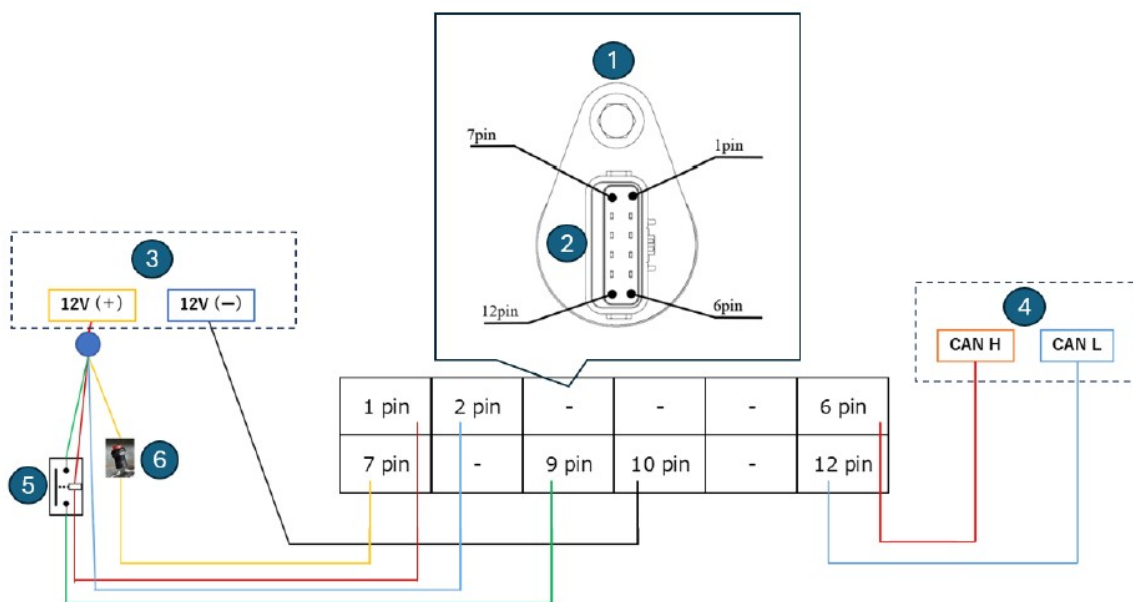
Battery state of health check (SOH & Reset) battery without vehicle

Recommended CAN Reader:

CAN Reader (Device): Vector VN16XX (e.g. VN1610, 1630) or equivalent tool compliant with ISO 14229-1. Note: ISO 14229-1 compliance is highly recommended for optimal performance.

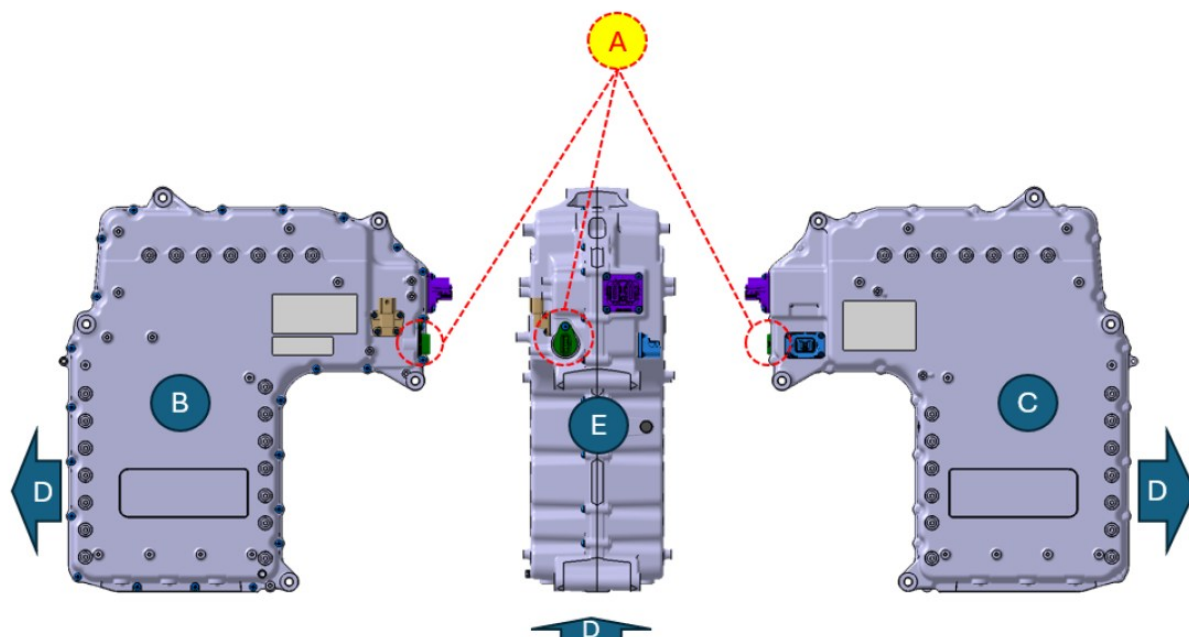
Method of connect the battery:

Connect the CAN reader tool to Battery connector. Note: 12V must be applied at the connector end.



[1]LV Connector in UP position; [2] 12Pin Junction connector; [3] 12V Power Supply; [4]CAN Reader Device; [5]Relay; [6] Switch

Position of the LV connector on the Battery:



[A] LV Connector ; [B] Battery left side ; [C] Battery Right side ; [D] Front of the vehicle; [E] Battery Back side

Method of the High Voltage Battery Wake up and Shut Down:

1. Apply 12V of constant power supply.
2. Switch Ignition to ON (With Switch)
3. Check SOCE
4. Switch Ignition to OFF (With Switch)
5. Wait 10 Seconds from IGN OFF and Remove the 12V Power supply

Method of reading information on the state of certified energy (SOCE) and expected lifetime of batteries data:

Data Name	DID	Data Length	Data Position	LSB	Unit	Sign	Initial Value
SOCE	0xDA59	1	0x20	1	%	unsigned	0



- (1) Send ID:18DAD4XX DLC:8 [03 22 DA 59 55 55 55 55] from Device to Battery.
- (2) Receive ID:18DAXXD4 DLC:8 [10 3B 62 DA 59 00 00 00] from Battery to Device.
- (3) Send ID:18DAD4XX DLC:8 [30 04 01 55 55 55 55 55] from Device to Battery.
- (4) Receive ID:18DAXXD4 DLC:8 [21 00 00 80 00 00 00 00] from Battery to Device.
- (5) Receive ID:18DAXXD4 DLC:8 [22 00 00 00 00 00 00 00] from Battery to Device.
- (6) Receive ID:18DAXXD4 DLC:8 [23 00 00 00 00 00 00 00] from Battery to Device.
- (7) Receive ID:18DAXXD4 DLC:8 [24 00 00 00 00 00 00 00] from Battery to Device.
- (8) Send ID:18DAD4XX DLC:8 [30 04 01 55 55 55 55 55] from Device to Battery.
- (9) Receive ID:18DAXXD4 DLC:8 [25 00 ## 00 00 00 00 00] from Battery to Device.
- (10) Receive ID:18DAXXD4 DLC:8 [26 00 00 00 00 00 00 00] from Battery to Device.
- (11) Receive ID:18DAXXD4 DLC:8 [27 00 00 00 00 00 00 00] from Battery to Device.
- (12) Receive ID:18DAXXD4 DLC:8 [28 00 00 00 00 55 55 55] from Battery to Device.

XX: any value (depending on a device to read)

: SOCE data

How to convert each data:

Calculate each stored value in decimal using following conversion formula;

##(hex) convert to: ##(dec) * LSB + Offset

Example: 64(hex) convert to 100(dec) * 1 + 0 = 100[%]

Method of software reset

- (1). Send ID:18DAD4XX DLC:8 [04 14 FF FF FF 55 55 55] from Device to High Voltage Battery.
 - (2). Receive ID:18DAXXD4 DLC:8 [01 54 55 55 55 55 55 55] from High Voltage Battery to Device.
- If the response for step (2) is received, the reset is completed.