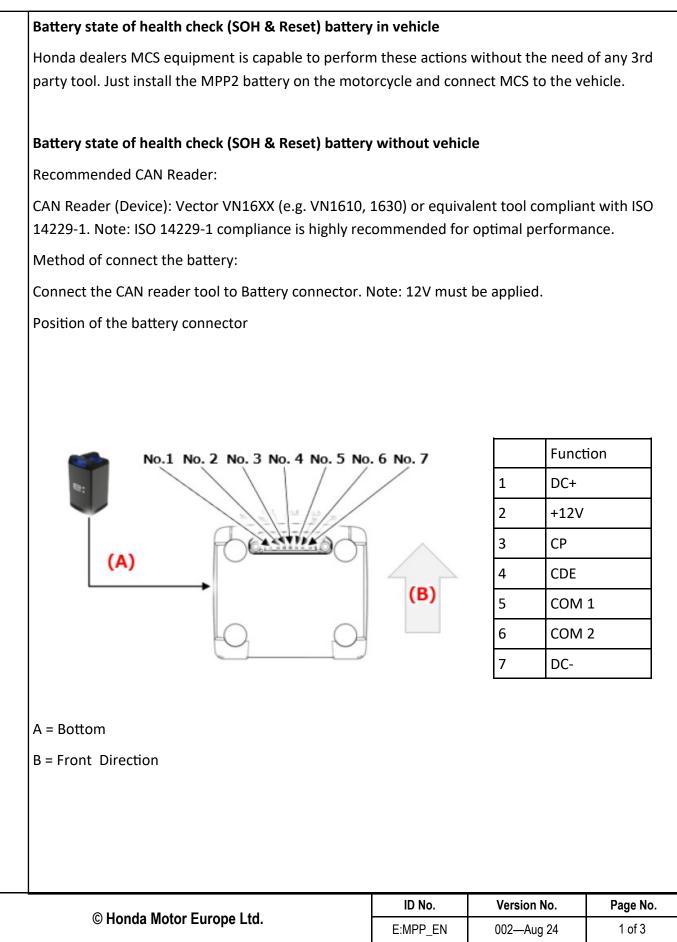




Mobile Power Pack e:

State of Health Check







Method of reading Information on the state of health and expected lifetime of batteries data:

Data name	DID	Data Len.	Data Posi- tion	LSB	Unit	Sign	Initial value
Remaining capacity	0xDA50	2	0x00	0.1	Ah	unsigned	0
Capacity fade		1	0x02	1	%	unsigned	0
Evolution of self-discharge rates		4	0x00	1	%	unsigned	100
Current self-discharge rate	0xDA51	4	0x04	0.001	%/h	unsigned	0
Initial self-discharge rate		4	0x08	0.001	%/h	unsigned	0
The date of manufacturing of the battery (Year)		1	0x00	1	Year	unsigned	0
The date of manufacturing of the battery (Month)	0xDA52	1	0x01	1	Month	unsigned	0
The date of manufacturing of the battery (Day)	0XDA52	1	0x02	1	Day	unsigned	0
The date of start using the battery		2	0x03	1	Day	unsigned	0
Total energy delivered by the battery in discharge	0xDA53	4	0x00	0.1	Wh	unsigned	0
Total energy delivered by the battery in discharge	0xDA54	4	0x00	0.1	Ah	unsigned	0
Number of deep discharge		1	0x00	1	times	unsigned	0
Number of overcharge		1	0x01	1	times	unsigned	0
Number of inform on accidents		1	0x02	1	times	unsigned	0
Time spent in extreme temperatures above boundary	0xDA55	3	0x03	1	minutes	unsigned	0
Time spent in extreme temperatures below boundary	0,0,0,35	3	0x06	1	minutes	unsigned	0
Time spent charging during extreme temperatures above boundary		3	0x09	1	minutes	unsigned	0
Time spent charging during extreme temperatures below boundary		3	0x0C	1	minutes	unsigned	0
Number of full charge/discharge cycle	0xDA56	2	0x00	1	times	unsigned	0
Cell resistance increase		2	0x00	1	%	unsigned	0
Battery resistance increase		2	0x02	1	%	unsigned	0
Current cell resistance	0xDA57	2	0x04	1	mΩ	unsigned	0
Current battery resistance	UXDA37	2	0x06	1	mΩ	unsigned	0
Initial cell resistance		2	0x08	1	mΩ	unsigned	0
Initial battery resistance		2	0x0A	1	mΩ	unsigned	0

• Stored data length < 5 byte

1). Send ID:18DAD5XX DLC:8 [03 22 DZ ZZ 55 55 55] from Device to MPP.

2). Receive ID:18DAXXD5 DLC:8 [0Y 62 DZ ZZ ## ## ## ##] from MPP to Device.

XX: any value (depending on a device to read), ZZZ: DID number, ##: stored data

Y: sending data length[byte],

Stored data length = or > 5 byte

(1). Send ID:18DAD5XX DLC:8 [03 22 DZ ZZ55 55 55] from Device to MPP.

(2). Receive ID:18DAXXD5 DLC:8 [1Y YY 62 DZ ZZ## ## ##] from MPP to Device.

(3). Send ID:18DAD5XX DLC:8 [30 04 01 55 55 55 55 55] from Device to MPP.

(4). Receive ID:18DAXXD5 DLC:8 [21 ## ## ## ## ## ## ## ## ##] from MPP to Device.

(5). Receive ID:18DAXXD5 DLC:8 [22 ## ## ## ## ## ## ## ## ## from MPP to Device.

XX: any value (depending on a device to read), Y: sending data length[byte], ZZZ: DID number, ## : stored data

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How to convert each data:

Calculate each stored value in decimal using following conversion formula; (hex) convert to: (dec) * LSB + Offset

Example:

DA50 (Remaining Capacity) [06 62 DA 50 01 05 64] 01 05(hex) convert to: 261(dec) * 0.1 + 0 = 26.1[Ah]

Method of software reset

(1). Send ID:18DAD5XX DLC:8 [04 14 FF FF FF 55 55 55] from Device to MPP.

(2). Receive ID:18DAXXD5 DLC:8 [01 54 55 55 55 55 55 55] from MPP to Device.

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

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

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