




## Resetting low voltage counters

The function is intended to read off and reset the low voltage counters.




Now we take XC90 2006 30728579 AA (ECU Diagnostic Part Number) as an example to illustrate the operation:

Note: The highlight item in the figure indicates corresponding action.




1. step 1: XC90

SELECT MENU			
V70 XC(-00)			
V70 XC(01-)/XC70(-07)			
XC70(08-)			
V90			
<b>XC90</b>			
XC90 V8			
C30			
C70(06-)			
PAGE UP		PAGE DOWN	
HOME	BACK	PRINT	HELP
Start			
10:17			

2. step 2: select year




SELECT MENU			
VIN			
2003			
2004			
2005			
<b>2006</b>			
2007			
2008			
PAGE UP		PAGE DOWN	
HOME	BACK	PRINT	HELP
Start			
13:54			

3. step 3: select CEM

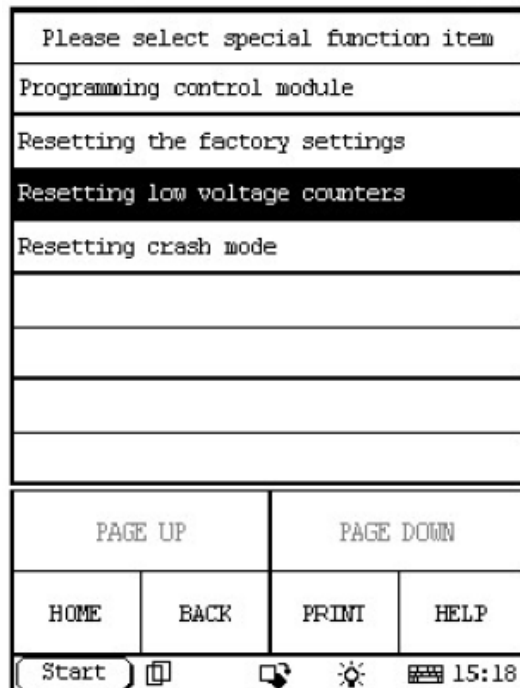
SELECT MENU			
General Service			
ECM(Engine Control Module)			
DIESEL ENG(Fuel system/Combined system)			
TCM(Transmission Control Module)			
ABS/BCM(Anti-brake System Module)			
SRS(Supplemental Restraint System Module)			
<b>CEM(Central electrical module)</b>			
PAGE UP		PAGE DOWN	
HOME	BACK	PRINT	HELP
Start			 10:18

4. step 4:  
Select: Special Function.

If you can't find the Special Function menu, it means the function has not been developed on your vehicle. Please record the VIN (Vehicle Identification Number) and Version Information (can be read by X431 with the function: Reading off control module ID) and email to Launch (x431@cnlaunch.com). We may work out a solution on how to solve the problem.

Select function			
Reading off control module ID			
Reading off Diagnostic Trouble Codes			
Erasing Diagnostic Trouble Codes			
Parameter display			
Activating components/functions			
<b>Special Function</b>			
PAGE UP		PAGE DOWN	
HOME	BACK	PRINT	HELP
Start			 10:19

5. step 5:  
Select: Resetting low voltage counters



#### 6. step 6:

The information of Resetting low voltage counters:




Hint: The central electronic module (CEM) has integrated counters for the vehicle's voltage levels. Two counters store information - one counts how many times voltage is low while the other counts how many times voltage is so low that vehicle functions are deactivated. The voltage level of each counter depends on battery temperature and current consumption in the vehicle. The counters are updated when voltage is low for more than approx. 2 minutes. The updated values can be read once they have been stored in the central electronic module (CEM). This is done after the ignition has been switched off and the key removed for approx. 30 minutes. Deactivated functions can include the ventilation fan and the infotainment system. For more information see "Design and Function, Central Electronic Module (CEM)". Functions are automatically deactivated in order to ensure that there is sufficient battery output to start the vehicle. A text message appears in the display when voltage is low.

Caution! The counters should only be reset when the battery is being replaced or has recently been replaced.

Ignition on.




Read and reset the counters by clicking the OK.

Hint: If a customer complains that the text message for low voltage is displayed often or that the infotainment system, for example, switches off, reading these counters could serve to confirm this and indicate how many times it has happened.

Note information			
Hint: The central electronic module (CEM) has integrated counters for the vehicle's voltage levels. Two counters store information - one counts how many times voltage is low while the other counts how many times voltage is so low that vehicle functions are deactivated. The voltage level of each counter depends on battery temperature and current consumption in the vehicle. The counters are updated when voltage is low for more than approx. 2 minutes. The updated values can be read once they have been stored in the central electronic module (CEM). This is done after the ignition has been switched off and the key removed for approx. 30			
OK	PAGE UP	PAGE DOWN	CANCEL
Start			 15:18

## 7. step 7:





Select Ok then it will send command to ECU, and display information like this:

ACTUATION TEST			
CEM-Counter, low battery 7 voltage			
CEM-Counter, voltage 4 supply shut-off			
F1: CEM-Voltage supply, counter reset			
PAGE UP	PAGE DOWN	PRINT	
F1	EXIT		
Start			 15:19

If you want to reset low voltage counters, please select F1.

## 8. step 8:

When you want to exit this programming, please select EXIT:

ACTUATION TEST		
CEM-Counter, low battery 7 voltage		
CEM-Counter, voltage 4 supply shut-off		
F1: CEM-Voltage supply, counter reset		
PAGE UP	PAGE DOWN	PRINT
F1	EXIT	
Start		
		 15:23

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