



CAN Sensor Detector Operation Instruction

Type: Y006

Xtruck

We gain experience from CAN-busas well as nitrogen and oxygen sensor failure that often encountered by vehicle maintainer during the work, and finally developed this product.

The product can help maintainers quickly locate the problems, whether CAN circuit defects or moduled amaging (nitrogen and oxygen module). The test result is for reference only, not as the only standard for maintenance. We do not bear legal liability to any person for the test result.

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Product Appearance

1. Introduction of the Front of the Device



 $2 \checkmark$ Introduction of the Bottom of the Device



3. Upper Port of the Device



4. Back of the Device



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Operating Instruction

1. Connection method between main test line and device.as shown on the right



2. Press the power for 3 seconds to enter the menu, as shown on the right.



Product configuration









2. Power Adapter *1

3. Four in one Nitrogen and Oxygen Test line *1

4. Node jumper of nitrogen and oxygen tester*1







5、DB15 Main Test line*1 6、Device updateline*1

7. Battery clamp to DC extension cable*1







8. Exhaust Temperature Sensor Diagnosis Cable x1

PM Sensor Diagnosis
Testing Cable x1

10. Urea Liquid Level, Testing Cable x1

1. CAN-bus Node search

This function can help find thelost node through the OBD interface which can find device

Step 1:

One end of the main test lineis connected to the device, and the other endis connected to





Step 2:

If the wiring harness is connected correctly, click the device CAN node to search automatically







• Wait for a few seconds, and the device will automatically search for the vehicle's fault-free CAN module.

Searching ID:18F00F52



2. Nitrogen and Oxygen Sensor Tester

Step 1:

One end of the main test line is connected to the device, and the other end is connected to the nitrogen and oxygen sensor.





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Step 2:

Nitrogen and oxygen sensor heating

Note: The nitrogen and oxygen sensor itself needs to be heated to accurately measure the concentration of nitrogen and oxygen and oxygen concentration. It needs an external 24V power supply, or use the power of the 24V battery. If do not follow the standard steps, it may cause damage to the device and vehicles, and the company does not bear any legal liability.





Step 3:

Connect the nitrogen and oxygen sensor, and click the NOx sensor test, choose 24V or 12V NOx sensor test.





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Note:

Please confirm that the power supply of the nitrogen and oxygen sensor is 24V/12V, the wrong selection will damage the nitrogen and oxygen sensor.



Step 4: Select the corresponding model

Method 1: Select "automatic identification test", the machine will automatically identify the model according to the nitrogen and oxygen sensor. (This data only provides reference for maintenance personnel, not as the sole criterion for maintenance.



Automatic identification.....

Method 2: Select "Manualidentification test", and manually select the corresponding test program according to the different types of nitrogen and oxygen sensors

Front 24V-NOx sensor Rear 24V-NOx sensor VOLVO 24V-NOx sensor BENZ front 24V-NOx sensor BENZ rear 24V-NOx sensor SCANIA 24V-NOx sensor If the CAN line is not properly connected, or there is a problem with the nitrogen andoxygen sensor, the CAN signal can not be found.



Step 5:

When the connection is complete, click the Go button, and then enter the test of the nitrogen and oxygen sensor. After 300 seconds, the nitrogen and oxygen concentration and oxygen concentration will be displayed. If the nitrogen and oxygen sensor is damaged, the machine will report the corresponding fault code.

Vout	24.0V	lout	752mA
O ₂	/%	State	invalid
NO ₂	/ppm	State	invalid
Please wait 6s/300s			State:

Vout	24.0V	lout	527mA	
O ₂	19.9%	State	valid	
NO ₂	11.6ppm	State	valid	
Test report NOx sensor is working properly				

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3. Temperature Module Diagnosis

Firstly:

Connect the main testing cable with the main unit, another end connects to the temperature module testing cable (the harness has dedicated labels such as 2-wire, 3-wire exhaust temperature sensor, 4-wire exhaust temperature sensor, etc.)





Secondly:

Click Sensor Testing and select "Temperature Module Diagnosis".





Thirdly

Connect the Exhaust Temperature Sensor Diagnosis, select the $24\mathrm{V}$ or $12\mathrm{V}$ Temperature module.

Notes: Please confirm that the exhaust temperature sensor is supplied with 24V/12V power. Choosing the wrong voltage could potentially damage the exhaust temperature sensor

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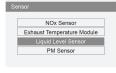




Secondly:

Click on Sensor Detection, then select "Liquid Level Sensor Diagnosis".





Thirdly:

Select the dedicated harness for liquid level, connect the liquid level sensor. The harness has dedicated labels, such as Flat 4 Urea Liquid Level (FAW) and Flat 4 Urea Liquid Level (Cummins).

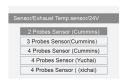






Fourthly:

Click and enter Click to enter the exhaust temperature sensor test. Choose the corresponding exhaust temperature sensor (taking the 2-wire and 3-wire exhaust temperature sensor as an example). Choosing the wrong sensor will prompt a message 'No CAN signal received or temperature module damaged'. With the hamess properly connected, the temperatures of each exhaust temperature sensor will be displayed after 10 seconds.



please Heat and Test the Probe		commu	
T2	25. 6°C	T4	25. 6°C
T1	25. 2°C	Т3	25. 8°C

4. Liquid Level Sensor Diagnosis

Diagnosis

The main diagnosis cable connects to the main unit, and the other end connects to the liquid level sensor testing cable.

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Fourthly:

Select 24V or 12V Liquid Level Sensor.

Notes: Please confirm that the liquid level sensor is supplied with 24V/12V power. Choosing the wrong voltage could potentially damage the liquid level sensor. Click to enter

the liquid level sensor test. If connected incorrectly, the machine will display a message "No CAN signal received or liquid level sensor damaged". With the harness properly connected, the liquid level, quantity, and temperature of the liquid level sensor will be displayed after 10 seconds.



Volt_IN	23. 9V		
Urea level	0%	Q_urea	62%
T_sensor1	24°C	T_sensor2	24°C
Tips:Urea qlty. in air is 62% and 0% in water Note:Liquid level>5%		Diagnosing 17S/30s	

5. PM Sensor Diagnosis

Firstly:

The main testing cable connects to the main unit, and the other end connects to the PM sensor diagnosis cable





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Secondly:

Click on Sensor Detection, then select "PM Sensor Diagnosis".





Select the PM harness (the harness has a dedicated PM sensor label), and connect the PM sensor.



Fourthly:

Select 24V or 12V PM Sensor.

Notes: Please confirm that the PM sensor is supplied with 24V/12V power. Choosing the wrong voltage could potentially damage the PM sensor.

 $Click \ to \ enter \ the \ PM \ sensor \ diagnosis. \ If \ selected \ incorrectly, \ the \ machine \ will \ display \ a \ message$ 'No CAN signal received or PM sensor damaged'. With the harness properly connected, the concentration and temperature of the PM sensor will be displayed after 400 seconds.



Volt_IN	11.8V	l_in	880mA
PM CONC	Waiting		
PM Temp	197.0°C		
Test Progress 20S/200S		н	eating

6. Product Software Upgrade

Step 1: Connect the device and update the program

1. Please connect the device to the computer through USB interface, as shown below:





After successful connection, press "return" button to enter the update mode. Ifthe screen displays "Update mode", it means that it has successfully entered the update mode (as shown in Figure 2).





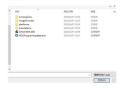
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Step 2: Install the CH340serial driver

Open the CyberPower Disc Creator of Nitrogen and Oxygen sensor program, click NOxProgramUpdate.

20	日本日本	963 C	9035
Conengines	2022/4/9 12:53	286	
Imageformats	2022/4/9 12:53	288	
glatforms	2022/4/9 12:53	2356	
translations	2022/4/9 12:50	2016	
app.bin	2023/4/7 10:22	\$190 SS/8	229 (0
CONTRACTOR DE	2022/4/9 13:59	2764	632.0
MOsProgramUpdate.eve	2022/4/9 12:51	0.797	752.0
© 05Dcompiler 47.dll	2014/3/11 18:54	CREALE	3,586 KI
FI RECOLUTE	2015/12/4 4/49	CHENE	28.0
Record del-1all	2015/12/29 6/25	CHESTE	118.6
BIGGERVZ-dll	2015/12/6 4/49	STERVE	2,748.0
Shorter + 6.dll	2015/12/29 6-25	STEPPE	1,505 KI
Shvingthread-1.dS	2015/12/29 0-25	CREALE	78.0
(i) openg(32ewd)	2016/6/14 23:08	CHRIST	15,621 0
GdCoredl	2022/4/9 12:53	应用模型扩展	6.004 KI
R onseiver	2015/12/0 4-49	CHERVE	6,006 KI
G OdderlaPort.dll	2019/12/4 4:57	应用银95.度	62.0
Griffing.dll	2015/12/4 5:00	CHEN'S	258.0
R Otth/dams.dll	2015/12/0 4-49	CHESTS	6219 (0

Find the file directory and click the SETUP.EXE file below, just as shown below:



NOxProgramUpdate

Re-open theCyberPower Disc Creator "NOxProgramUpdate" of the nitrogen and oxygen sensorprogram.

Install the CH340 driver, just as shown



Click the Install button, the interface as shown in the figure will pop up, and just wait for the installation.



0.0	中欧田和	MSI "	900
iconengines	2022/4/9 12:53	2719	
imageformats	2022/4/9 12:53	200	
platforms	2022/4/9 12:53	2099	
translations	2022/4/9 12:53	239.8	
apphin	2022/4/7 10:23	81N 228	229 X
CHS415EK.EXE	2022/4/9 12:59	07997	632 X
NOufrogrami.ipdate.eve	2022/49 12:51	07997	752 X
010compiler 47.dll	2014/3/11 1854	CREALE	3,386 K
BASLAT	2010/12/4 4/49	GREEVE H	29 K
Book 1 ded-1.dfl	2015/12/29 625	CRESSER	118 %
BIGLESYZ-III	2019/12/6 6/69	CREALS	274810
Shoulder w-6-dill	2015/12/29 625	OPERTA	1,505 K
Sheinpthread-1.dll	2015/12/29 6/25	GREAT H	78 (
G openg/12mm.dll	2016/6/14 21:05	CREALE	15.821 K
R OdCore.dll	2922/4/9 12:53	CREEKYR	6304 K
R OSSAUT	2019/12/4 6/49	CRESTA	6.286 K
GOSEWATH SATE	2019/12/6 6/57	ORREST	62 X
Ottradi	2019/12/4 5:00	OWNER	218.0
OOW/domedil	2019/12/16 6/69	ORNAY R	6219 X

If the connection status shows connected Wait for the update, if the following (as shown below), click the button to update the main program.

pop-up window is displayed, it means that the program update is successful.





7. Setting

System information

Can view the software version, hardware version, and software version.

Software center Version:V01.01 Hardware_Version V1 Release date:22.02.22.20:00