



CAN Sensor Detector Operation Instruction

Туре: Y006

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.

Theproductcanhelp maintainers quicklylocate the problems, whether CAN circuit defects ormoduledamaging(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.

Content

Product Appearance1
Product configuration
Operating Instruction
1、CAN-bus Node search
2. Nitrogen and Oxygen Sensor Tester
3. Temperature Module Diagnosis
4. Liquid Level Sensor Diagnosis11
5. PM Sensor Diagnosis13
6、Product Software Upgrade15
7、Setting

Product Appearance

1. Introduction of the Front of the Device



2. Introduction of the Bottom of the Device



3. Upper Port of the Device



- DB15 Port
- 4. Back of the Device



Product configuration









1, Device*1

3. Four in one 2. Power Adapter *1

4. Node jumper of Nitrogen and nitrogen and Oxygen Test line oxygen tester*1









7. Battery clamp to DC

extension cable*1

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

*1



8. Exhaust Temperature Sensor Diagnosis Cable x1



3

9、PM Sensor Diagnosis Testing Cable x1



10、Urea Liquid Level, Testing Cable x1

on the right

Operating Instruction

1、 CAN-bus Node search

This function can help find thelost node through the OBD interface which can find device on the CAN bus.

Step 1:

One end of the main test lineis connected to the device, and the other endis connected to the vehicle detection port OBD.





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

1, Connection method between

main test line and device.as shown



Step 2:

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





ŝ

Xtruck

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



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.





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.



24V - NOx sensor test

12V - NOx sensor test

6

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.

Please confirm again whether the sensor to be measured is 24v! 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.

Tip

No CAN signal, Please confirm whether the NOx Sensor is connected

Step 5:

When the connection is complete, click the Go button, and then enter the test of the nitrogen andoxygen 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
O2	/%	State	invalid
NO ₂	/ppm	State	invalid
Please wait 6s/300s		Heat he	State: ating

Vout	24.0V	lout	527mA	
O2	19.9%	State	valid	
NO ₂	11.6ppm	State	valid	
Test report NOx sensor is working properly				

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 test

Manual identification test

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

Xtruck

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 24V or 12V 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



Sensor/Exhaust Temp.sensor

24V Exhaust Temp.sensor 12V Exhaust Temp.sensor

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 harness properly connected, the temperatures of each exhaust temperature sensor will be displayed after 10 seconds.

Se	ensor/Exhaust Temp.sensor/24V	
	2 Probes Sensor (Cummins)	
	3 Probes Sensor(Cummins)	
	•••••••••••••••••••••••••••••••••••••••	
	4 Probes Sensor (Cummins)	
	4 Probes Sensor (Yuchai)	
	,	
	4 Probes Sensor ((xichai)	

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

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.





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:

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.

Sensor/Liquid Level sensor	
24V Liquid Level.sensor	
12V Liquid Level.sensor	

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%		Diagnosii 17S/30s	ng S

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





Xtruck

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.



NOx Sensor

Exhaust Temperature Module Liquid Level Sensor

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 10%		Heating	

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. If the screen displays "Update mode", it means that it has successfully entered the update mode (as shown in Figure 2).



15

Xtruck

Step 2: Install the CH340serial driver

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

68	Heat Tree	40	
Doets gives	2042247214250	1000	
mageformatic	STEAD OFFICE	286	
piariar was	DESIGNATION OF THE OWNER.	1000	
translations	2/02/4/011259	12.845	
area bin	2/0//4/718/8	tana met-	
Crusterier. D.C	100404/012008	is most	10.10
ND-Program Lodant ever	2010/04/21/201	1,0004	10.00
Differentiat 47.46	ANA/OUT THE	100717-0	1,100-110
1 44G.dt	2010/12/14/06	Think a	
Abger a dw2-1 dl	3/15/12/28 0.28	100015	1.000
Relativour	2010/12/4 448	along the	1.7810
Rbindo++-6.30	2015/14/V/ IUII	C. Steven in	1.000
Ca.T. bearing made	2014/07/07/09 Include	inference in	10.00
(spergilize.il)	2010/April Troll	Different de	10.00
(Office add	2/82/4/0/12/58	1.00007-0	0.0444
04593-i-dl	21/07/04-0.0	1.000	1.00.00
Datawallant.in	2011W12/1.4.52	is mailer of	14.14
Bugwice I	2012/12/4-908	Annes a	
COPWingets.ell	2001/10/4 0 th	a despes to	1.0000

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 below:



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



*0	20102/4/9 14:50			
who is a start	STEAD CHART	286		
	Distantion of the local	0.00		
w.	2/82/4/9/15/5/8	12.845		
	210//4/718/8	tana met-		
and the second second	UNAVAR 1248	is most	45.14	
ant/plant and	201203-0120	1.0004	10.00	
lar AT M.	ANA/UNI THE	100111-0	1.000.000	
	2010/12/14/08	This is a		
10-1-5k	385/10/28 e.08	COMPANY'S	10.07	
at	2010/12/4 448	100000-04	1.78108	
4.80	2015/14/4/ Mill	Colorer In	1.000	
fail ben	2010/10/00 mill	it Among St.	10.00	
and a second	STRATE PARTY	Difference of	The Color	
	2/8244/0112598	0.00010718	0.0444	
	2018/05/4-848	1.000	1.00.00	
ort.ill	ATTACK MADE	is marine at .	84.114	
1 million 1	2012/12/4-300	A reason of the		
E5.42	2011/12/4 018	in despera 18	1,111.018	

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

Wait for the update, if the following 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

ArDulling Distriction Distriction Distriction Distriction Distriction Distriction Distriction

Guirgh Spengill

Distanti Distanti Distanti Distanti Distanti