



ANCEL MT100

National IV Standard
Motorcycle Diagnostic Scanner



User Manual

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1. General Introduction

1.1. Appearance and Buttons Introduction



1.2 Keyboard Functions

▲▼ Up/Down Arrow: Select test items;

◀▶ Left/Right Arrow: Turn over the screen;

Enter: Enter/Carry out ;

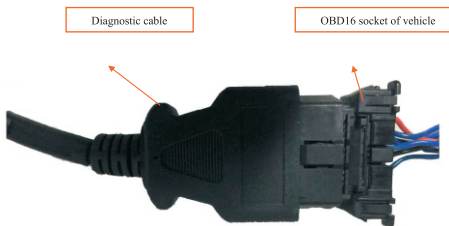
Esc: Return/Quit;

F1,F2: Function Key;

2. Connection with Vehicles

Connection Method:

1、Diagnostic cable is properly connected with the diagnostic socket of the vehicle



3. Operation

3.1 Connection

Please connect scanner with vehicle according to "Vehicle Connection Instruction".

3.2 Function Option

Vehicle KEY-ON, the scanner is power on, the following interface appears:

- 01.Vehicle diagnosis: Fault code reader, engine system diagnosis
- 02.System setting: Set key sound and display language types.

03.Version information: Display the local serial number, software version, hardware version, authorization information and so on.

3.3 Vehicle diagnosis

Select "01 DIAGNOSIS" and press "enter", then the following interface appears:

MAIN MENU
01 DIAGNOSIS
02 SETTING
03 VERSION
(ENTER) Select

Select "01 engine system" and press "enter", the following interface appears after normal communication with vehicle ECU:

OBD II
01 Engine data
02 Freeze frame data
03 Read fault code
04 Erase fault code
05 O2 sensor monitoring
06 Vehicle information
07 I/M readiness
(ENTER) Select

If communication fails to connect with the ECU, check the reason for the communication failure, such as whether the ignition switch is turned on correctly or whether the ECU type is supported, etc

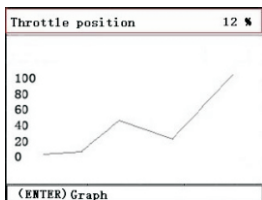
Select "01.engine data" and press [Enter]. The information appears as follows:

Operation tip: press ENTER to display the waveform after selecting the data stream item.

Engine date	(1/3)
Load value	100 %
Barometric pressure	99 kPa
Mil	ON
Control module voltage	12.4 V
Engine speed	760 rpm
Vehicle speed	0 KM/H
(ENTER) Graph	

The data flow project is 3 pages long

In the current page, you can press the [Enter] key to enter the waveform function, such as selecting the item of throttle, which can graph the value of the currently selected item:



Select "02. Freeze frame data", this function will read the engine has a fault code related to emissions freeze information, press [Enter] key, as follows:

Freeze frame	(1/2)
Fault code	P0123
Load value	0
Engine temperature	85
(ESC) Select	

Select "03. Read the fault" and the menu of "01 current fault code" and "Pending fault code" will appear. If select "01 current fault code", press [Enter] as follows:

Current DTC	(1/2)
P0113 intake air temperature circuit high input	
(ESC) Exit	

Remark:

If the system does not have a storage fault, a fail-free code will be displayed.

The stored code is also called the current code or the permanent code.

These codes will cause the control module to light the failure indicator (MIL) when the discharged related fault appears.

The code to be processed is also known as a "temporary failure code" or "continuous monitor code."

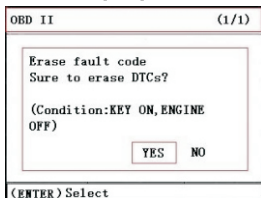
These codes indicate problems detected by the control module during the

current or recent driving cycle, but they are not yet serious.

The code to be processed will not be able to start the failure indicator (ML).

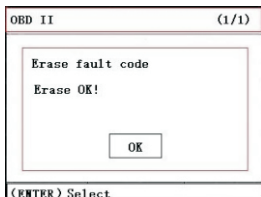
If no failure occurs during a certain number of warm-up cycles, the code is cleared from memory.

Select "04.clear fault code" to clear the fault code stored in the ECU by performing this function. Press [Enter] as follows:



Note: please key-on and do not start the engine until the trouble code is clear.

Press [Enter] to clear the fault code.



Press [Enter] to return to the main menu.

Select "05. Oxygen sensor monitoring" and press [Enter] as follows:

02 sensor monitoring	(1/1)
01 Bank-1, Sensor -1	
(ENTER) Select	

If you select this and press [Enter], the appropriate message appears.

Note:

If the vehicle does not support oxygen sensor testing, the detection device will display relevant prompts on the screen.

Select "06. Vehicle information" and press [Enter] to display as follows:

02 sensor monitoring	(1/1)
01 Bank-1, Sensor -1	
(ENTER) Select	

Select "07. Monitor status" and press [Enter] to display as follows:

I/II Readiness	(1/1)
01: Monitor status since DTCs	
02: Monitor status this	
(ENTER) Select	

If you select item "01" and press [Enter], the appropriate information will appear.

I/II Readiness		(1/1)
■IL		ON
■isfire detection.....		N/A
Fuel system monitoring		ON
.....		
(ESC) Exit		

Note:

If the locomotive does not support detection status testing, the detection device will display relevant tips on the screen.

3.4 System Setting

This function can set whether the key sound and display the current language.

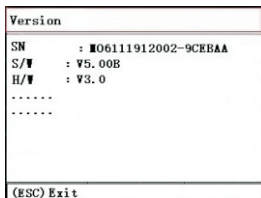
Setup	
Sound : ON	
Langu : English	
[↑ ↓] Sele [← →] Modify	
(ENTER) Save (ESC) Exit	

Press ◀ ▶ the left/right arrow to select the item, press ▲ ▼ the up/down

arrow to modify the value.

3.5 Version information

Select "version information" from the main menu and press [Enter] to see the following interface: you can view the product serial number, software version and other detailed information.



4. Notes

- 1) the screen pictures and screenshots of the display screen (such as the mark of "key") shown in this manual are only used for explanation, which may be slightly different from the real thing.
- 2) the contents of this manual are subject to change without prior notice.
- 3) the company shall not be liable for any special, indirect, incidental, or consequential loss caused by or in connection with the purchase or use of such products by any person.
- 4) no claim of any kind made by any third party for the use of these products shall be liable.
- 5) avoid use and storage in extreme temperature environments. Low

temperatures may slow down the display or render it completely unusable.

In addition, avoid direct exposure to the sun and do not place the instrument in any place where high temperatures may occur.

High temperature will make the machine housing fade or deformation and damage the internal circuit.

6) do not disassemble the instrument or change the online Settings without permission.

7) do not press the operation key of the instrument with a ballpoint pen or other sharp object.

8) please use a soft dry cloth to clean the appearance of the instrument.

If the instrument looks very dirty, please use a soft cloth with a diluted solution of neutral household detergent and water.

Be careful to wring out excess moisture before wiping.

Do not use petroleum extract, diluents or other volatile solvents to clean, otherwise there is a risk of wiping off the printing marks and damaging the protective case.

09. Please do not make synchronous on-line test diagnosis during the flaring voltage test of the test ignition system, otherwise the instrument may be damaged due to interference of high voltage.

Check when using:

1) check whether the ignition switch is on or whether the engine is running.

2) check whether there is bad contact or short circuit between the connection line and the diagnostic seat.

3) check whether the software version is applicable to the vehicle.