

MOTOR OBD DIAGNOSTIC

DN-3000

EFI-SCANNER

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1 . Safety Precautions and Warnings

To prevent personal injury or damage to vehicles and/or the scan tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle:

- Always perform automotive testing in a safe environment.
- Do not attempt to operate or observe the tool while driving a vehicle. Operating or observing the tool will cause driver distraction and could cause a fatal accident.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts. Operate the vehicle in a well ventilated work area: Exhaust gases are Poisonous.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Stopped the car
- Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.
- Don't connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the scan tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when Necessary.

2 . Using the Scan Tool



2.1 Tool Description - DN-3000

1. LCD DISPLAY - Indicates test results. 2.8" TFT 262k true color.
2.  ENTER BUTTON - Confirms a selection (or action) from a menu.
3.  EXIT BUTTON - Cancels a selection (or action) from a menu or returns to the menu. It is also used to setup system, exit DTC Lookup screen.
4.  UP SCROLL BUTTON - Moves up through menu and submenu items in menu mode. When more than one screen of data is retrieved, moves up through the current screen to the previous screens for additional data. UpData the DTC lib need press this button, When Tools connected with PC by Usb cable.
5.  DOWN SCROLL BUTTON - Moves down through menu and submenu items in menu mode. When more than one screen of data is retrieved, moves down through the current screen to next screens for additional data.
6.  LEFT SCROLL BUTTON - When looking up datastream. If datastream display more than one screen, or turn page up or down When more than one page is displayed.
7.  RIGHT SCROLL BUTTON - When looking up datastream. If datastream display more than one screen, or turn page up or down When more than one page is displayed.
8. OBD II CONNECTOR - Connects the scan tool to the vehicle's Data Link Connector (DLC).

2.2 Specifications

1. Display: 2.8" TFT 262k true color
2. Operating Temperature: 0 to 60° C (32 to 140 F°)
3. Storage Temperature: -20 to 70° C (-4 to 158 F°)
4. External Power: 8.0 to 18.0 V power provided via vehicle battery

2.3 Included

1. DN-3000 Scan Tool main unit
2. CD drives
3. USB upData cable

2.4 MOTOR OBD

1. Turn the ignition off.
2. Connect device with Motorcycle via main cable.
3. Turn the ignition on. Engine can be off or running.
4. Press ENTER to enter Main Menu. Use the UP/DOWN scroll button to Select MOTOR Diagnostics from the menu.



5. Press ENTER to confirm. A sequence of messages displaying the MOTOR protocols will be observed on the display until the vehicle protocol is detected.

If the scan tool fails to communicate with the vehicle's ECU (Engine Control Unit), a "LINKING ERROR!" message shows up on the display.

2.5 DTC Dictionary

The DTC Dictionary function is used to search for definitions of Code stored in the built-in Code library.

1. From the Main Menu, use the UP/DOWN scroll button to select the DTC Lookup and press the ENTER button.



2. From the DTC Dictionary menu, use the LEFT/RIGHT button to move to the desired character, use the UP/DOWN button to change the selected digit/ character and press the ENTER button to confirm.

3. View the DTC definition on screen. When the DTC definition covers more than one screen, use the LEFT/RIGHT button to view additional information on previous/next screen(s).

4. To exit to the Main Menu, press the EXIT button.

2.6 Review

This function is used to review the recorded data streams,DTC,and Freeze frame,select review in the main menu and press enter and the screen will display the interface as shown below:



2.7 Units diagnostic

The main part of the display important data streams, such as injector diagnostic, ignition coil diagnostic, view the data stream quickly.



2.8 System Setup



The scan tool allows you to make the following adjustments and settings:

1. Language: Selects the desired language.
2. Contrast: Adjusts the contrast of the LCD display.
3. Unit of Measure: Sets the unit of measure to English or Metric.
4. Beep Set: Turns ON/OFF beep.

From the Main Menu: Use the UP/DOWN scroll button to select System Setup, and press the ENTER button. Follow the instructions to make adjustments and program settings as described in the following setup options.

2.9 Tool Information

Tool Information allows viewing of some important information such as serial number and software version number of the scanner.

1. From the Main Menu, scroll to select Tool Info. and press ENTER.
2. View tool information on screen.



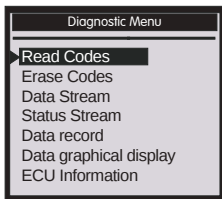
3 . MOTOR OBD Diagnostic

The devices is smart reading ECU protocol information, enter the relevant menu

Diagnostic Menu 1

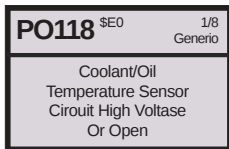
1 Read Codes

1.1 Use the UP/DOWN scroll button to select Read Codes from the MOTOR Diagnostic and press ENTER.



1.2 View DTCs and their definitions on screen.

The control module number, sequence of the DTCs and total number of codes detected will be observed on the upper right hand corner of the display.



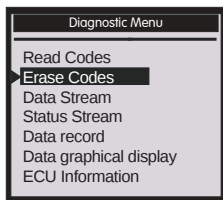
1.3 If more than one DTC is found, use the UP/DOWN scroll button, as necessary, until all the codes have been viewed.

2 Erase Codes

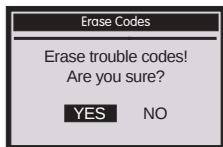
Notes:

This function is performed with key on engine off . Do not start the engine. After clearing, you should retrieve trouble codes once more or turn ignition on and retrieve codes again. If there is still some trouble codes for hard troubles, please find the reason caused the trouble code firstly, and then solve the problem. Now, the trouble codes can be erased.

2.1 Use the UP/DOWN scroll buttons to select Erase Codes from the MOTOR Diagnostic and press ENTER.

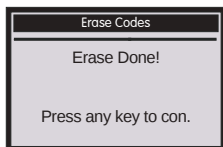


2.2 A warning message comes up asking for your confirmation.

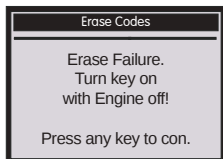


2.3 Press ENTER to confirm.

If the codes are cleared successfully, an "Erase Done!" confirmation message is displayed.

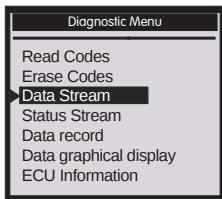


If the codes are not cleared, then an "Erase Failure. Turn Key on with Engine off!" message is displayed.



3 Data Stream

3.1 Use the UP/DOWN scroll buttons to select Data Stream from the MOTOR Diagnostic and press ENTER.

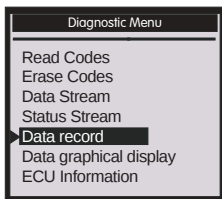


3.2 Data Stream will be displayed ,FE Page Turn via UP/DOWN.

3.3 Press EXIT to return to MOTOR Diagnostic.

4 Data Record

4.1 Use the UP/DOWN scroll buttons to select Data Record from the MOTOR Diagnostic and press ENTER.

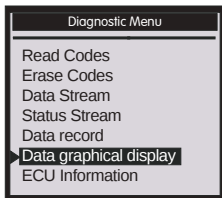


4.2 Data Record will be displayed, FE Page Turn via UP/DOWN.

4.3 Press EXIT to return to MOTOR Diagnostic.

5 Data graphical display

5.1 Use the UP/DOWN scroll buttons to select Data graphical display from the MOTOR Diagnostic and press ENTER.

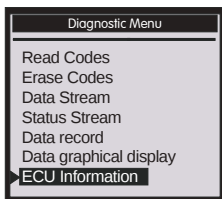


5.2 Data graphical display will be displayed, FE Page Turn via UP/ DOWN.

5.3 Press EXIT to return to MOTOR Diagnostic.

6 ECU information

6.1 Use the UP/DOWN scroll buttons to select ECU information from the MOTOR Diagnostic and press ENTER.



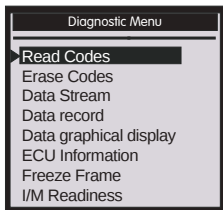
6.2 ECU information will be displayed, FE Page Turn via UP/ DOWN.

6.3 Press EXIT to return to MOTOR Diagnostic.

Diagnostics Menu 2

1 Read Codes

1.1 Use the UP/DOWN scroll button to select Read Codes from the Diagnostic Menu and press ENTER.



1.2 Use the UP/DOWN scroll button to select Stored Codes or Pending Codes from the Trouble Codes menu and press ENTER.

If there are no Diagnostic Trouble Codes present, the display indicates "No (pending) codes are stored in the module!" Wait a few seconds or press any key to return to the Diagnostic Menu.

1.3 View DTCs and their definitions on screen.

The control module number, sequence of the DTCs, total number of codes detected and type of codes (Generic of Manufacturer specific) will be observed on the upper right hand corner of the display.

2 Erase Codes

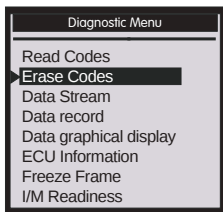
Notes :

This function is performed with key on engine off . Do not start the engine.

After clearing, you should retrieve trouble codes once more or turn ignition on and retrieve codes again. If there is still some trouble codes for hard troubles, please find the reason caused the trouble code firstly, and then solve the problem.

Now, the trouble codes can be erased.

2.1 Use the UP/DOWN scroll buttons to select Erase Codes from the Diagnostic Menu and press ENTER.



2.2 A warning message comes up asking for your confirmation.

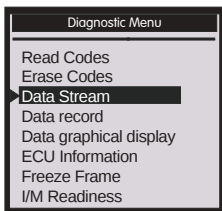
2.3 Press ENTER to confirm.

If the codes are cleared successfully, an "Erase Done!" confirmation message is displayed.

If the codes are not cleared, then an "Erase Failure. Turn Key on with Engine off!" message is displayed.

3 Data Stream

3.1 Use the UP/DOWN scroll buttons to select Data Stream from the MOTOR Diagnostic and press ENTER.

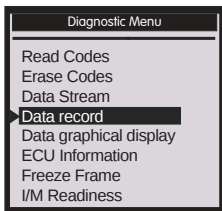


3.2 Data Stream will be displayed ,FE Page Turn via UP/ DOWN.

3.3 Press EXIT to return to MOTOR Diagnostic.

4 Data Record

4.1 Use the UP/DOWN scroll buttons to select Data Record from the MOTOR Diagnostic and press ENTER.

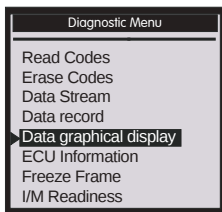


4.2 Data Record will be displayed, FE Page Turn via UP/ DOWN.

4.3 Press EXIT to return to MOTOR Diagnostic.

5 Data graphical display

5.1 Use the UP/DOWN scroll buttons to select Data graphical display from the MOTOR Diagnostic and press ENTER.

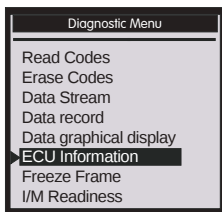


5.2 Data graphical display will be displayed, FE Page Turn via UP/ DOWN.

5.3 Press EXIT to return to MOTOR Diagnostic.

6 ECU information

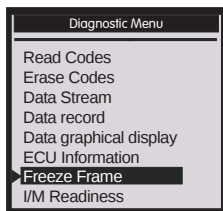
6.1 Use the UP/DOWN scroll buttons to select ECU information from the MOTOR Diagnostic and press ENTER.



6.2 ECU information will be displayed, FE Page Turn via UP/ DOWN.

6.3 Press EXIT to return to MOTOR Diagnostic.

7 View Freeze Frame



if DTCs were erased, View Freeze Data may not be stored in vehicle memory depending on vehicle.

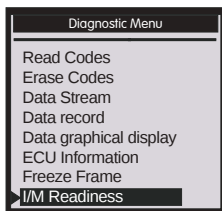
Select [View Freeze Frame], the screen will display the interface as shown below:

Use the UP/DOWN scroll button for more PIDs if an or arrow appears on the screen. Press EXIT to return to Diagnostic Menu.

8 I/M Readiness

The I/M Readiness Monitor Status function also can be used (after repair of a fault has been performed) to confirm that the repair has been performed correctly, and/or to check for Monitor Run Status.

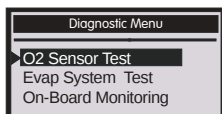
Select [I/M Readiness Test] and Press [ENTER], the screen will display the interface as shown below:



Press EXIT return to the Diagnostic Menu.

9 O2 Sensor Test

9.1 Use the UP/DOWN scroll button to select O2 Sensor Test from Diagnostic Menu and press ENTER.

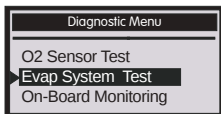


9.2 Use the UP/DOWN scroll button to select O2 sensor from O2 Sensor Test menu and press ENTER.

9.3 View test results of the selected O2 sensor.

9.4 Press EXIT to return to the previous menu.

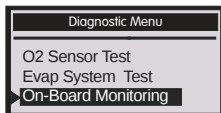
10 Evap System Test



Select EVAP system test and press enter, the screen will display the relative information about EVAP system. Some vehicle manufacturers do not allow external devices to control vehicle system. If the car supports this function, it will display as below

11 On-Board Monitoring

11.1 Use the UP/DOWN scroll button to select On-Board Mon. Test from Diagnostic Menu and press ENTER.



11.2 From On-Board Mon. Test menu, use the UP/DOWN scroll button to select a test to view and press ENTER.

11.3 View test data on screen.

11.4 Press EXIT to return to the previous menus.

4 Warranty and Service

4.1 Limited One Year Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE OBDMATE PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

DN-3000 electronic product is warranted against defects in materials and workmanship for one year (12 months) from Data of delivery to the user.

This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and DN-3000 shall not be liable for any consequential or incidental damages.

4.2 Service Procedures

If it becomes necessary to return the scan tool for repair, contact your local distributor for more information.