DonosHome OBD2 Scanner Diagnostic Engine Fault Code Reader User Manual

AT500 OBDII Scanner User Manual
DonosHome
AT500 OBDII Scanner
User Manual
Model: AT500

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Welcome

Thank you for purchasing DonosHome AT500 OBDII scanner.

1.1. User Manual Support In Other Languages

Please visit **https://www.do-nos-home.com/** to download the multiingual PDF of the User Manual.

1.2. Bold Text

It is used bold text to highlight items such as buttons and menu options.

Example: Press the OK button to select.

1.3. Warnings and Precautions

Please read this user manual carefully and follow the following warnings and precautions before use, to prevent personal injury or damage to the vehicle and/or device:

DO NOT smoke, strike a match, or causea spark near the vehicle during testing.

DO NOT contact with hot engine parts to prevent severe burns, especially when the engine is running,

DO NOT use the scanner during driving.

DO NOT wear jewelry or loose clothing when warking on an engine.

DO NOT connect or disconnect the scanner while the ignition is on or the engine is running

DO NOT place the scanner near the running engine or exhaust pipe to avoid damage from high temperatures.

Exhaust gases are Poisonous. Operate the vehicle ONLY in a well-ventilated area and always perform vehicle testing in a safe environment.

To avoid serious injury, always be aware of rotating parts that move at high speed when an engine is running and keep a safe distance from these parts as well as other potentially moving objects.

To protect your eyes from propelled objects as well as hot or caustic liquids, always wear ANSI approved goggles.

Please keep the scanner dry, clean, free from oil'water or grease.

Please ensure the scanner is firmly connected to the vehicle DLC to avoid emoneous data generated by the scanner and diagnostic systems.

General Information

2.1. OBDII (On-Board Diagnostics II)

The abbreviation OBD stands for "On Board Diagnostics". Literally translated it says: On-board diagnosis. The OBD socket appeared in the United States in 1985, more precisely in California.

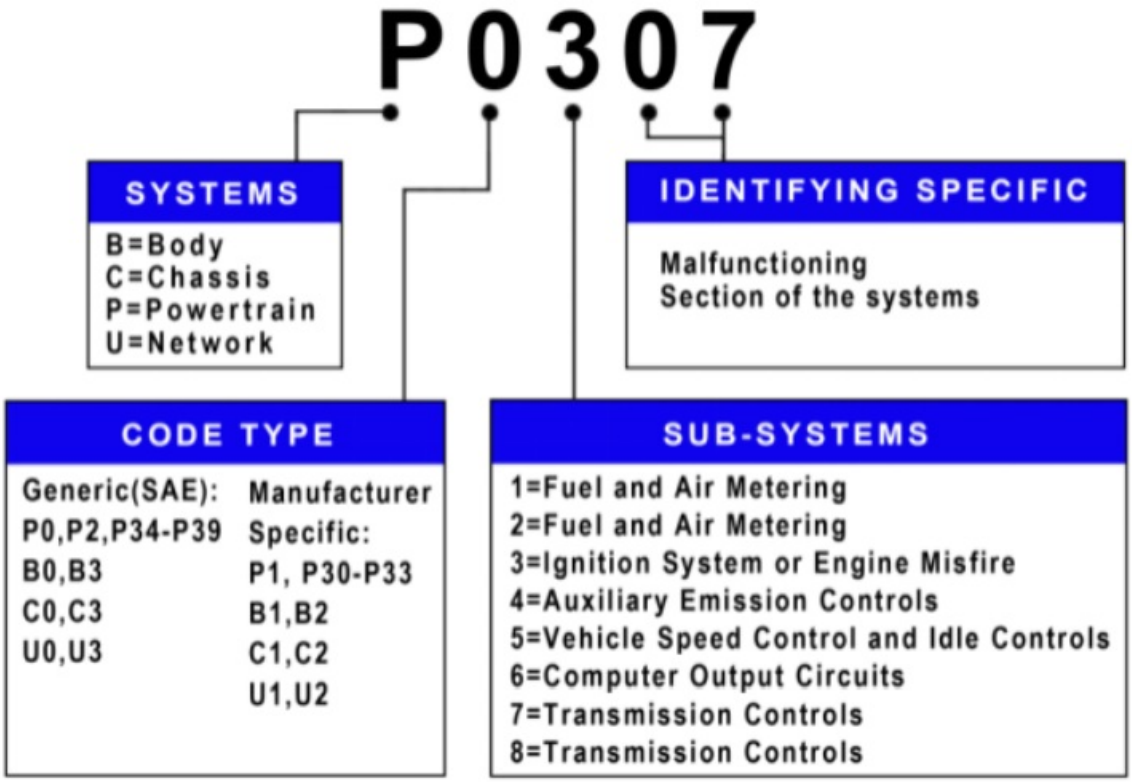
This system set up by the CARB agency should control the pollutant emissions of cars. The standardized OBDII socket is one of the three OBD standards (OBD1, OBDII and EOOBD). It was developed in 1994 with a 16-pin port to specify protocols common to all vehicle brands. This plug must be placed in the passenger compartment.

The OBDII system, which will offer three pieces of such valuable information, is designed to monitor emission control systems and key engine components by performing either continuous or periodic tests of specific components and vehicle conditions:

- Whether the Malfunction Indicator Light (MIL) is commanded "on" or "off";
- Which, if any, Diagnostic Trouble Codes (DTCs) are stored;
- Readiness Monitor status.

2.2. Diagnostic Trouble Codes (DTCs)

OBD II Diagnostic Trouble Codes are codes thatare stored by the on-board computer diagnostic system in response to a problem found in the vehicle. OBD II Diagnostic Trouble Codes consist of afive-digit alphanumeric code. The first character, a letter, identifies which control system sets the code. The other four characters, all numbers, provide additional information on where the DTC originated and the operating conditions that caused it to be set. Here is an example:



2.3. Data Link Connector (DLC)
The DLC (Data Link Connector or Diagnostic Link Connector) is the standardized 16-cavity connector where diagnostic scan tools interface with the vehicle's on-board computer.

Product Descriptions

3.1. Intended Use
DonosHome AT500 Scanner works on all 1996 and later 12V gasoline and diesel vehicle that are OBD II compliant.
It can identify the cause of your CHECK ENGINE and perhaps fix it.It can help you easily passing annual emissions tests and SMOG CHECK.
It covers full OBDII/ EOBD diagnostic functions for engine system, O2 Sensor test, EVAP systems test,and on-board monitoring test, can give you full control of your vehicle's running status,while graphical and numeric data stream display will help you to find out the faulty sensor readings.
DonosHome AT500 Scanner can read the DTCs and can help to find the problem quickly and accurately, thus to achieve quick vehicle repair.
3.2. Package List
AT500 OBDII scanner
User Manual
3.3. Compatibility
Supports more than 9 ECU protocols. Works with most 1996 and up vehicles that are OBD II compliant (including CAN).
3.4. Technical Specification
Display: 3.2 Inch LCD color Screen
Operating Temperature: 0 to 60 °C (32 to 140 F°)
Storage Temperature: 2010 70 C (-4 to 158)
Voltage Measurement Range: 6-18V DC. Power provided via vehicle battery
Dimensions: 15x 8x 5 cm
Weight: 0.25kg
3.5. Icons, Controls & Connections


Main Menu
Diagnose
I/M Readiness
DTC Lookup
Battery System
Voltmeter
Review History
AT500
ESC
I/M
OK
1
2
3
4
5
6
7
8
9
10
11
12
13

Figure 3.5.1

NO.	Name	Descriptions
1	Display	Display: The 3.2 inch colored screen shows menus, submenus, test results , specific functions, monitor status info, etc.
2	OBD-16 connector	To connect to the vehicle's DLC (Data Link Connector).
3	▲	Arrow keys, Move up for selection
4	▼	Arrow keys, Move down for selection
5	◄	Arrow keys, Move left for selection
6	►	Arrow keys, Move light for selection
7	ESC	When pressed, it brings you back to the previous menu.
8	I/M	I/M Readiness Shortcut Button. Quick access to I/M readiness function.
9	OK	Enter, To confirm the current operation.
10		Green LED light. Engine system operates normally without fault code
11		Yellow LED light. Engine system is abnormal and there is pending fault code
12		Red LED light. Engine system is fault, and check engine light on.
13	USB Port	Connects the scanner to the computer via USB cable for potential upgrade.

Operation Introduction

4.1. Getting Started (Preparation & Connection)

Tum the ignition OFF or to the "LOCK" position as Figure 4.1.1.

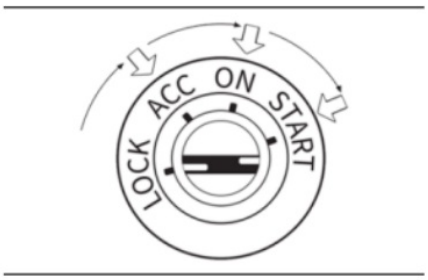


Figure 4.1.1

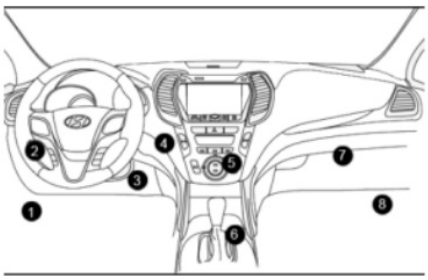


Figure 4.1.2

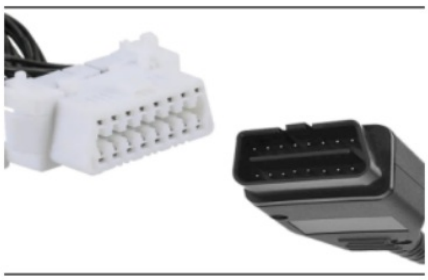


Figure 4.1.3

Location of the vehicle's Data Link Connector (DLC)

The DLC s usually located in one of the positions labeled in Figure 4.1.2. For some Asian and European vehicles, the DLC is located behind the ashtray and the ashtray must be removed to access the connector.

If the DLC cannot be found, refer to the vehicle's service manual, or contact us with specific vehicle information.

Properly connect the scanner cable into the vehicle's DLC socket as Figure 4.1.3. The cable connector is keyed and will only fit one way.

Figure 4.1.4

Figure 4.1.5

Tumn the ignition ON as Figure 4.1.4.
Please press the ignition button until the caris inthe “ON” Mode, If your vehicle is equipped with a keyless start system and the ignition switch is an *engine start-stop” button (as Figure 4.1.5), Do not press the brake while pressing the ignition button, or you will start the car.
Please refer to the vehicle’s service manual, since the method of ignition varies by vehicle model.
Note: DO NOT connect or disconnect this scanner with the ignition on or engine running

4.2. Main Menu

Once the AT500 is connected to the power source, the color screen will light up, and display the starting video with DonosHome (as Figure 4.2.1), then display the Main Menu as Figure 4.2.2.
Use the aow keys, move to next page of Main Menu as Figure 4.2.3:

Figure 4.2.1

Figure 4.2.2

Figure 4.2.3

4.3. Diagnose

Once Select Diagnose and press OKin Main Menu, you’ve entered the Diagnose function, the scanner automatically communicates with the on-board computer to determine the communication protocol. During the communication with the on-board computer, the screen will display the processes of Entering System as Figure 4.3.0.1

Figure 4.3.0.1

Figure 4.3.0.2

After it's completed the process to check the status of monitors automatically, and gives a summary report and the screen will display the Monitor Status as figure 4.3.0.2:

If the light on, engine system operates normally without DTGs

If the light on, engine systemis abnormal and there is pending DTCs

If the light on, engine system s faut, and CHECK ENGINE light on.

NOTE

Not all function options of scanner are applicable to all vehicles. Available options may vary by the year, model, and make of the test vehicle. A "The vehicle does not support." message displays if the option is not applicable to the vehicle under test.

To read the DTCs, continue to press OK, the scanner will display the Diagnostic Menu as Figure 4.3.03.

Use the amrow keys, move to next page of Diagnostic Menu as Figure 4.3.0.4.

Figure 4.3.0.3

Figure 4.3.0.4

4.3.1. Read Codes

Read Codes function offers to read Current DTC, Pending DTC and Permanent DTC found in on-board computer. Select Read Codes in Diagnostic Menu and press OK as Figure 4.3.03, the scanner will isplay the DTC num. as Figure 4.3.1.1

Figure 4.3.1.1

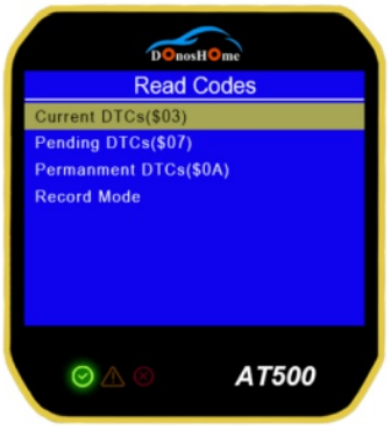


Figure 4.3.1.2

Figure 4.3.1.3

It will display the DTG quantity with ared background as Figure 4.3.1.4, if there are fault codes.
To read the DTCs, continue to press OK, the scanner will display the Read Codes menu as Figure 4.3.1.2.
The dispaly will show as Figure 4.3.1.5, if there is (are) fault codefs).

Figure 4.3.1.4

Figure 4.3.1.5

Figure 4.3.1.6

Use the Up and Down arrow keys to choose Current DTCs ($03), Pending DTCs ($07), Permanent DTCs ($0A) or Record Mode.
Chose Current DTCs($03), Continue to press OK as Figure 4.3.1.2 or Figure 4.3.1.5, the scanner will isplay the result of DTC as Figure 4.3.1.5, or Figure 4.3.1.6 if there istare) DTC(s):
Please use the Up and Down armow keys to check the result of DTC if there is more than a DTC And the display will show 1/N, and N means the quantity of DTC.
Note: Never replace a part based only on the DTC definition. Always refer to the vehicle's service manual for detailed testing instructions
Note: It's similar operation to check the Pending DTCs($07), Permanent DTCs($0A).
After viewing all the codes, you can press ESC 1o retum to the previous menu.
Record Mode
Select Record Mode, press OK, the scanner will start to record the data during operation of this Read Codes menu.
Please check the record(s) in the Review History menu after recording
4.3.2 Erase Codes
Erase Codes menu offers to erase the DTCs from the vehicle, after retrieving DTCs from the vehicle and certain repairs have been carried out.
Select Erase Codes, press OK to erase DTCs as Figure 4.3.2.1,

Figure 4.3.2.1

Figure 4.3.2.2

Figure 4.3.2.3

Choose Yes, and press OK as Figure 4.3.2.2, the screen will display as Figure 4.3.2.3.
Notes: Before performing this function, make sure to read and record the DTCs.
Please read DTCs once more or turn ignition on and read DTCs again after clearing.
Please troubleshoot the DTCs using a vehicle factory diagnosis guide, then clear the DTCs and recheck, if there are still some DTCs in the system.
Note: Be sure the vehicle's ignition is ON with the engine off.

4.3.3. 1/M Readiness:

I/M Readiness is a useful function. This function checks whether or not the various emissions-related systems on the vehicle are operating properly, or getting ready to be Inspection and Maintenance tested. As a quick function, to confirm that the repair has been performed correctly, and/or to check for monitor run status, after the repair of a fault has been performed.
I/M Readiness function could be selected from three ways: Main Menu, Diagnostic Menu and the Quick key "I/M" shown as Figure 3.5.1,Figure 4.3.3.1 and Figure 4.3.3.2.
Select I/M Readiness and press OK as Figure 4.3.3.2.
Select Since DTC Were Cleared and press OK as Figure 4.3.3.3. The result of diagnose will display as Figure 4.3.3.4.

Figure 4.3.3.1

Figure 4.3.3.2

Figure 4.3.3.3

Note: To help to understand the test results, please check the listed full names of the abbreviated phrases as the below sheet. Explanation of terms:

MIL	Malfunction Indicator Light	CAT	Catalyst Monitor
IGN	The Ignition Method of the Vehicle	HCAT	Heated Catalyst Monitor
DTC	Diagnostic Trouble Code	EVAP	Evaporative System Monitor
Pd DTC	Pending Diagnostic Trouble Code	AIR	Secondary Air Monitor
MIS	Misfire Monitor	02S	02 Sensors Monitor
FUE	Fuel System Monitor	HTR	02 Sensor Heater Monitor
CCM	Comprehensive Components Monitor	EGR	Exhaust Gas Recirculation System Monitor

For the better understanding the test results, please check the references as Figure 4.3.3.5.
Remarks of the display of I/M Readiness:

means Malfunction Indicator Light off. means Malfunction Indicator Light on. “Compression” means fgnition method: Compression. “Spark” means ignition method: Spark. means the number of DTC is 0. means the number of DTC s 3. means the numberof Pd DTC is 0. means the number of Pd DTC s 3 means not available on this vehicle. means incomplete or not ready. means Gompleted or Monitor OK.

Figure 4.3.3.4

Figure 4.3.3.5

Note: It’s similar operation to check the This Drive Cycle.

4.34. DataStream

The scanner offers to view, record and playback real time live data stream which includes values (volts, rpm, temperature, speed, etc.) ,sensor data, operation of switches, solenoids and relays, efc. Select Data Stream in the Diagnostic Menu, press OK as Figure 4.3.4.1. Press UP or DOWN arrow key to select View All Items in Data Steam menu, press OK as Figure 4.3.4.2, the result of diagnose will display as Figure 4.3.4.3 and Figure 4.3.4.4.

Figure 4.3.4.1

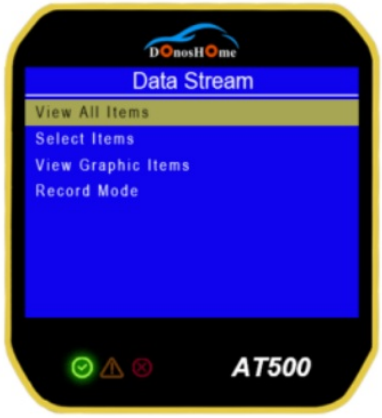


Figure 4.3.4.2

Figure 4.3.4.3

Select Select Items in Data Steam menu, press OK as Figure 4.3.4.5, the screen will display the options for selection. Choose the at least one option by pressing OK as Figure 4.3.4.6 and Figure 4.3.4.7 (partial):

Figure 4.3.4.4

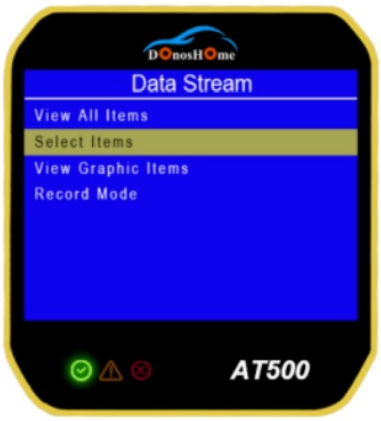


Figure 4.3.4.5

Figure 4.3.4.6

Press ESC to exit selection, the screen will display the result of selected data as Figure 4.3.4.8 and Figure 4.3.4.9.

Figure 4.3.4.7

Figure 4.3.4.8

Figure 4.3.4.9

Select View Graphic Items and press OK as Figure 4.3.4.10, the screen will display the options for selection. Choose 4 options by pressing OK as Figure 4.3.4.11 and Figure 4.3.4.12, the result will be monitored and displayed automatically as Figure 4.3.4.13:

Figure 4.3.4.10

Figure 4.3.4.11

Figure 4.3.4.12

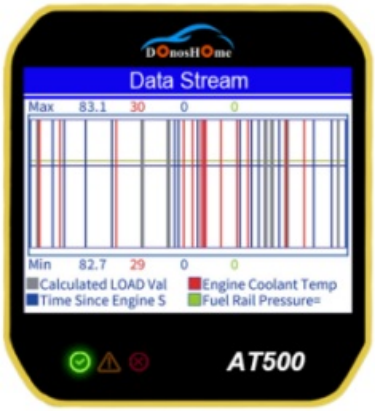


Figure 4.3.4.13

Note: max lines is 4.
Press ESC to return to previous menu.

Record Mode

Select Record Mode, press OK, the scanner will start to record the data during operation of this Data Stream menu.

4.35. Freeze Frame

Freeze Frame menu displays freeze frame data, which will help to identify why the MIL on and come up a solution for vehicle as freeze frame data is a snapshot of critical vehicle operating conditions.

Select Freeze Frame in Diagnostic Menu, press OK as Figure 4.3.5.1 and select Freeze Frame in Freeze Frame menu as Figure 4.3.5.2, the screen will display as Figure 4.3.5.3.

Figure 4.3.5.1

Figure 4.3.5.2

Figure 4.3.5.3

Note: if DTCs were erased, Freeze Data may not be stored in vehicle memory depending on vehicle.
Select Record Mode, press OK, the scanner will start to record the data during operation of this Freeze Frame

menu.

4.36. 02 Sensor Test

The 02 Sensor Test function is used to read completed O2 sensors monitor test results.

The 02 Sensor Test is not an on-demand detection. O2 sensors are not detected when are selected via the menu but detected when engine operating conditions are within specified limits.

Note: This function is not supported by vehicle, if the vehicle uses a controller area network (CAN) protocol to communicate. Please refer to vehicle's service manual, other further information. Select 02 Sensor Test in Diagnostic Menu and press OK as Figure 4.3.6.1

Figure 4.3.6.1

Figure 4.3.6.2

Figure 4.3.6.3

Choose Bank1-Sensor1 in Select 02 Sensor menu and press OK as Figure 4.3.6.2, then the screen will display as Figure 4.3.6.3(Data will be different everytime).

Choose Bank1-Sensor2 in Select 02 Sensor menu and press OK, then the screen will display.

Select Rich to lean sensor time, press OK as Figure 4.3.6.4, the display will show as Figure 4.38.5.

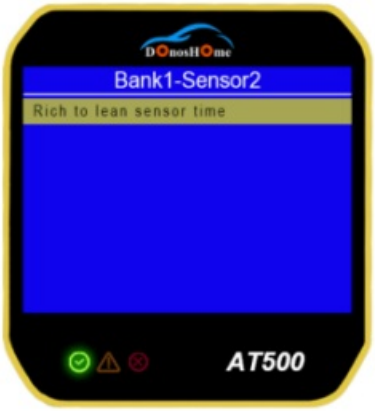


Figure 4.3.6.4

Figure 4.3.6.5

4.3.7. On-Board Monitoring

It's useful that the On-Board Monitoring detection function after servicing or after clearing a vehicle ECU's memory. The detection available is determined by the vehicle manufacturer. Vehicle manufacturer is responsible for assigning detection and component IDs.

On-Board Monitoring detection function receives detection results for emission-related powertrain components and systems that are not continuously monitored for Non-CAN vehicles.

For CAN vehicles, it receives detection data for emission-related powertrain components and systems that are and are not continuously monitored.

Select On-Board Monitoring in Diagnostic Menu and press OK as Figure 4.3.7.1. The result of diagnose will display as Figure 4.3.7.2 and Figure 4.3.7.3. Select any of the options, press OK, the display will show as Figure 4.3.7.4.

Figure 4.3.7.1

Figure 4.3.7.2

Figure 4.3.7.3

Figure 4.3.7.4

4.38. Evap System(mode$8)

This EVAP System(mode$8) function initiates a leak test for the vehicle's EVAP system. The scanner only displays its status and test results, it can't control the fuel evaporation control of the OBD system.

Select Evap System(mode$8) in Diagnostic Menu and press OK as Figure 4.3.8.1. If the car supports this function, and the screen will display as Figure 4.3.8.2.

Figure 4.3.8.1 Figure 4.3.8.2

4.3.9. Vehicle Information

Vehicle Information offers to request the vehicle's Vehicle ID Number(s)(VINs), Calibration ID(S)(CIDs), Calibration Verif. Numbers(s)(CVNs) and in-use performance tracking on model year 2000 and newer OBD ll compliant vehicles.

Select Vehicle Information in the Diagnostic Menu and press OK as Figure 4.3.9.1

Select Calibration ID(s)(CIDs) and press OK as Figure 4.3.9.2, the screen displays as Figure 4.393.

Note:It's similar operation to check the Vehicle ID Number(s)(VINs) and Calibration Verif. Numbers(s)CVNs).

Figure 4.3.9.1

Figure 4.3.9.2

Figure 4.3.9.3

Note: The above result is an example; please refer to the actual test vehicle for real result.

4.4.I/M Readiness

Please refer to the part of “4.3.3 I/M Readiness”.

4.5. DTC Lookup

The DTC Lookup function refers to search and look up the specific definitions of DTCs.

Select DTC Lookup in the Main Menu and press OK as Figure 4.5.1

Use the R & L arrow key to change input, U & D arrow key to change value, OK key to confirm and ESC key to exit as Figure 4.5.2.(For example). The DTC P0307 is displayed as Figure 4.5.3.

Figure 4.5.1

Figure 4.5.2

Figure 4.5.3

4.6. Battery System

The Battery System function refers to carry out the detection of battery of vehicle which includes Cranking Test and Charging Test

Cranking Test

Select Battery System in the Main Menu and press OK as Figure 4.6.1

Select Cranking Test in the Battery Test and press OK as Figure 4.6.2. Following up the notes to operate in the screen as Figure 4.6.3 , press OK to enter next step. Following up the notes to operate in the screen as Figure 4.6.4. The waveform result of test displays as Figure 4.6.5. Press OK to enter next step, the result of Cranking Test as Figure 4.6.6.

Figure 4.6.1

Figure 4.6.2

Figure 4.6.3

Figure 4.6.4

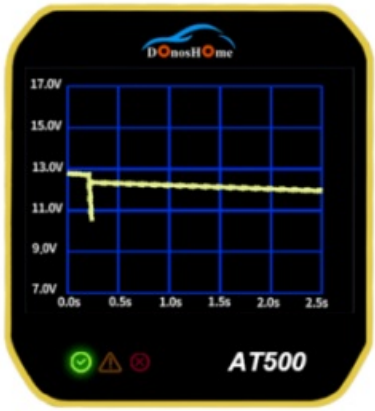


Figure 4.6.5

Figure 4.6.6

Charging Test

Select Charging Test in the Battery Test and press OK as Figure 4.6.7. The waveform result of test displays as Figure 4.6.8. Following up the rotes to operate in the screen, press OK to enter next step as Figure 4.6.9

Figure 4.6.7

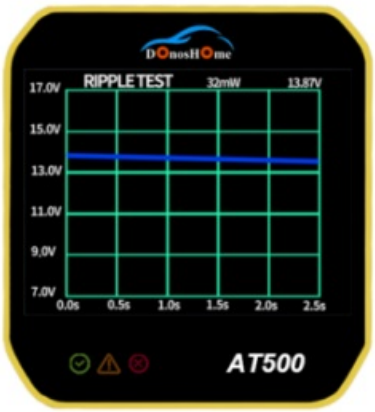


Figure 4.6.8

Figure 4.6.9

The result of Charging Test displays as Figure 4.6.10.

Figure 4.6.10

4.7. Voltmeter

The Voltmeter function refers to cary out the detection of Voltmeter of battery of vehicle.

Select Voltmeter in the Main Menu and press OK as Figure 4.7.1. The result displays as Figure 4.7.2

Figure 4.7.1

Figure 4.7.2

4.8. Review History

The Review History function refers to review or delete the recorded DTC, Data Streams and Freeze Frame.

Select Review History in the Main Menu and press OK as Figure 4.8.1.

Figure 4.8.1

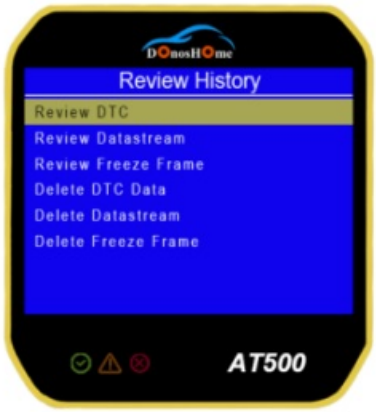


Figure 4.8.2

Figure 4.8.3

Select Review Datastream in the Review History menu and press OK as Figure 4.8.2. The screen displays as Figure 4.8.3. If no data is recorded, the message “There’s no recorded data.” is displayed.

Note: It’s similar operation to check the Review DTC, Review Freeze Frame Select Delete Datastream in the Review History menu and press OK as Figure 4.8.4 . The screen displays as Figure 4.8.5. If no data is recorded, the message *There’s no recorded data.”

is displayed .

Figure 4.8.4

Figure 4.8.5

Note: It's similar operation to check the Delete DTC Data, Delete Freeze Frame .

4.9. Tool Setup

Select Tool Setup in the Main Menu and press OK as Figure 4.9.1

Figure 4.9.1

Figure 4.9.2

Figure 4.9.3

Select Language in the Tool Setup menu and press OK as Figure 4.9.2. Choose the language and press OK as Figure 4.9.3. 11 languages integrated into the system.

Select Unit of Measure in the Tool Setup menu and press OK as Figure 4.9.4. Choose the Unit of Measure and press OK as Figure 4.9.5.

Figure 4.9.4

Figure 4.9.5

Select one of Screen Test/Kay Test/LED Test in the Tool Setup menu and press OK. The scanner wil test it.

4.10. Help

This Help function refer to view the tool information and the OBD introduction.

Figure 4.10.1

Figure 4.10.2

Figure 4.10.3

Select About OBD in the Help menu as Figure 4.10.1 and press OK as Figure 4.10.2. Select the option as prefer, press OK as Figure 4.10.3, then check the information in the menu.
Note: It's similar operation to check the other two options.
Select About Datastream in the Help menu and press OK as Figure 4.10.4. Select the optionas prefer, press OK as Figure 4.10.5, then check the information in the menu as Figure 4.10.6.

Figure Figure 4.10.4

Figure 4.10.5

Figure 4.10.6

4.11. About
This About function refer to view the device information as Figure 4.11.

Figure 4.11

Update

DonosHome will issue Update according to the technology development. Users could download the available update software, which will be issued via website, and connect the scanner with computer through USB cable to update it.

Limited One Year Warranty

Subject 1o the terms and conditions of this limited warranty, Donoshome Limited (“DonosHome) warrants to its customer that this product will be free from defects in material and workmanship for a period of 12 months from the date of the original purchase.

Terms and Conditions

1. The repaired or replaced product shall be warranted for the remaining time of the original warranty period, if DonosHome repairs or replaces the product.
2. This warranty of product does not apply by any of the following conditions:
   a) Subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of DonosHome, including damage caused by shipping.
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Version: OBD2-AT500-DHO1
Updated in July 2023

Documents / Resources

	DonosHome OBD2 Scanner Diagnostic Engine Fault Code Reader [pdf] User Manual OBD2 Scanner Diagnostic Engine Fault Code Reader, OBD2, Scanner Diagnostic Engine Fault Code Reader, Diagnostic Engine Fault Code Reader, Engine Fault Code Reader, Fault Code Reader, Code Reader, Reader

References

- User Manual

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