

1. Safety Measures and Warning

For preventing physical injuries, or causing damage for the vehicles and decoder, please read this operating manual before using this instrument on the vehicle, and comply with the following safety measures:

- ⚠ Detection shall be carried out in safe environment
- ⚠ Keep clothes, hair, hands, tools, test equipment away from all motor heating components
- ⚠ Place a block plate in the front of the drive wheel, make sure the vehicle is guarded during operating the test
- ⚠ Place the gearbox in PARK (automatic gearbox) or NEUTRAL (manual gearbox), and make sure the parking brake is connected
- ⚠ Do not connect or disconnect any test equipment when ignition switch is opening or engine is running
- ⚠ Wear the eye protective device accorded with ANSI standard
- ⚠ Operate the vehicle in a well-ventilated area: waste gas is harmful to the human body
- ⚠ Be more careful when operating near the ignition wire and spark plug of ignition coil distributor cover
- ⚠ Put the fire extinguishers applied to petrol/chemical electrical fire near it
- ⚠ Keep decoder dry, clean, not adhere oil/water or lubricants. Wipe the decoder by a clean cloth with gentle cleaner if necessary

2.1 Tool Description



Button Functions:

- ① **Diagnostic Joint:** Connect decoder to vehicle DLC
- ② **LCD Display:** Display detection result
- ③ **Vehicle No.:** Vehicle identification code
- ④ **Up Roll Button:** Roll menu and submenu, move to previous screen
- ⑤ **Return Button:** Cancel selection, return to menu. Long press 3s to set unit
- ⑥ **DTC Button:** Diagnostic code shortcut
- ⑦ **Confirm Button:** Confirm selection, move to next screen
- ⑧ **Down Roll Button:** Roll menu, move to next screen

2.2 Specification

Display	Backlit, 128×64 pixel display
Working Temperature	0-60°C (32-140°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)
External Power Supply	Vehicle battery 8.0 to 15.0V
Dimensions	155mm (L) × 85mm (W) × 25mm (H)
Weight	0.198 Kg (0.48 lb)

2.3 Included Accessories

- User's Manual - Tool operating instruction
- OBD2 Wire - Supply power to the tool, and communicate between tool and vehicle

2.4 Guiding Character

Some characters used for guiding the decoder operation are as below:

1. "➤" indicates the current selection
2. "Pd" When reading DTCs, identify a hanging DTC
3. Identify the control module No. of the data retrieved from it

2.5 Power Supply of Vehicle

Vehicle data link connector (DLC) supplies the power to decoder. Open the decoder by the following steps:

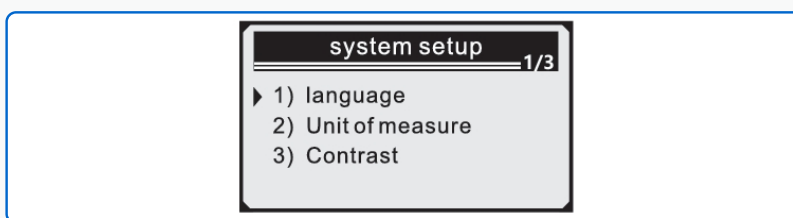
1. Connect OBD II wire to decoder
2. Take down DLC cover plate from the vehicle (Some vehicles have plastic cover plate)
3. Insert OBD II wire to vehicle DLC

2.6 Product Setup

Carry out the adjustment and setting for the decoder as below:

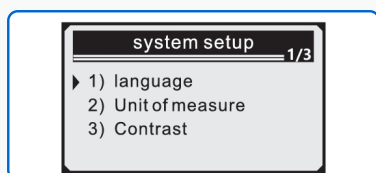
Enter Setting Menu

The second start screen, press Up/Down button to enter the system setting menu. Adjust and set by the following setting options.

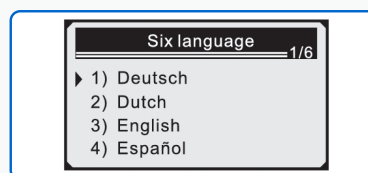


System settings interface

Language Setting (English as default)

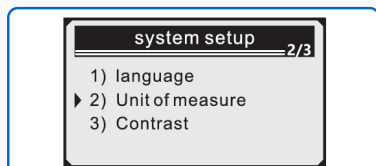


Select Language

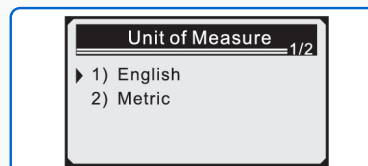


Press Up/Down to select, confirm to save

Measurement Unit (Metric unit by default)

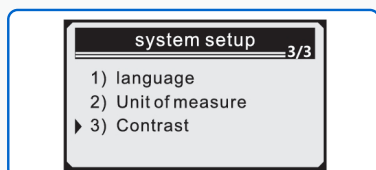


Select Unit of Measure

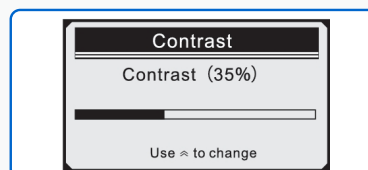


Choose Metric or Imperial

Contrast Adjustment



Select Contrast



Press Up/Down to adjust

2.7 Application Range of Vehicle

This OBDII/EOBD scanner is designed for vehicles that comply with the OBDII/EOBD standard, including vehicles that use next-generation CAN (Controller Area Network) communication protocols. In the United States, most gasoline passenger cars and light-duty trucks from model year 1996 and newer are OBDII compliant, as required by the U.S. Environmental Protection Agency (EPA). This includes many domestic, Asian, and European brands.

Note: Some 1994 and 1995 gasoline vehicles are also OBDII compliant. To verify, check the Vehicle Emission Control Information (VECI) label in the engine compartment. If the vehicle is OBDII compliant, the label will typically state "OBD II" or "OBD II certified". By regulation, all OBDII-compliant vehicles are equipped with a standard 16-pin Data Link Connector (DLC).

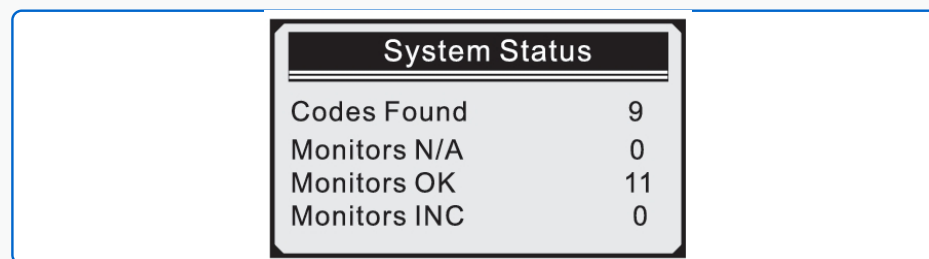
3. OBD II Diagnosis

Caution: Do not connect or disconnect any test equipment when ignition switch is opening or engine is running

1. Turn the ignition switch OFF
2. Locate the vehicle's 16-pin Data Link Connector (DLC). It is usually under the driver's side of the dashboard
3. Firmly plug the scanner's OBDII cable into the DLC until it is fully seated
4. Turn the ignition ON (KOEO - Key On, Engine Off). For push-button vehicles, press the START button without pressing the brake pedal.
5. Press the OK/Enter (Return/Confirm) button on the scanner to enter the diagnostic menu.
The tool will automatically scan and display OBDII protocol information until the correct vehicle protocol is detected.

If "Connection error!" appears:

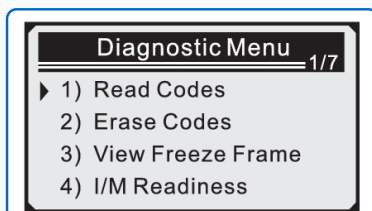
- Confirm ignition switch is turned on
- Check if OBD II connector is connected to vehicle DLC
- Confirm the vehicle is accorded with OBD2 standard
- Turn off ignition and wait 10 seconds, then turn on and retry



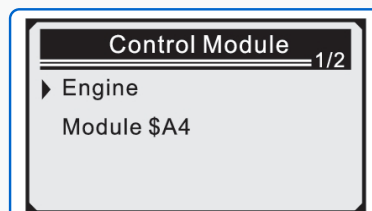
After system status is displayed, wait or press any key to display diagnostic menu

3.1 Read Code

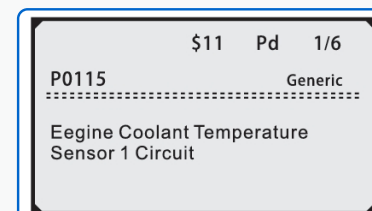
Press Up/Down button to select "Read code" from diagnostic menu, then press Return/Confirm button.



From diagnostic menu



If multiple modules detected



Read DTC and definition

The control module number, DTC index, total number of detected codes, and the DTC type (generic or manufacturer-specific, stored or pending) are shown in the upper-right corner of the screen.

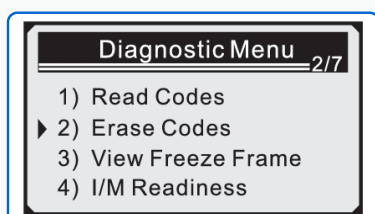
If multiple DTCs are found, use the Up/Down keys to scroll until all codes have been displayed.

If no codes are stored, the message "Code is not stored in module!" appears on the screen.

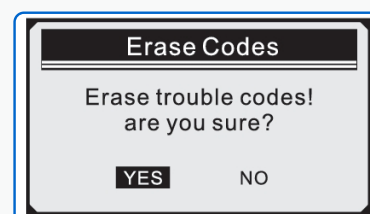
If a retrieved DTC is manufacturer-specific or an enhanced code, the message "Controlled by manufacturer" is displayed on the screen.

3.2 Delete the Code

Caution: Clearing diagnostic trouble codes will erase the codes from the vehicle's ECU and also delete any stored "Freeze Frame" and manufacturer-specific data. All I/M readiness monitors will be reset to "not ready". Do not clear codes until the system has been fully checked and repaired.



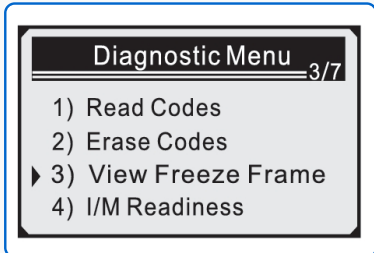
From the Diagnostic Menu, use the Up/Down keys to highlight Erase Codes, then press the Return/Confirm button.



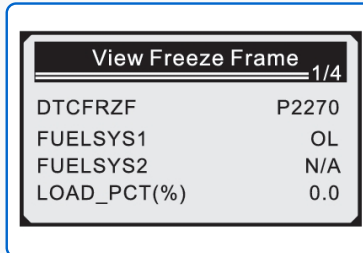
When the confirmation screen appears, select YES and press Return/Confirm to erase the trouble codes (select NO to cancel).

3.3 Read Freeze Frame Data

Press Up/Down button to select "Freeze Frame" from diagnostic menu, then press Return/Confirm button.



From diagnostic menu



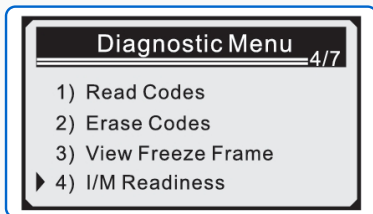
View freeze frame information

The "x/x" on upper right corner shows total Frame coverage and current display number. If no available Freeze Frame data, "Freeze Frame is not stored" will be displayed.

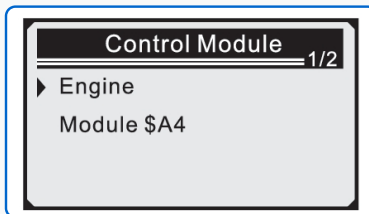
3.4 Retrieve I/M Ready State

I/M ready function is used to check the operating situation of vehicle emission system. Some newest vehicle models may support two types of I/M ready test:

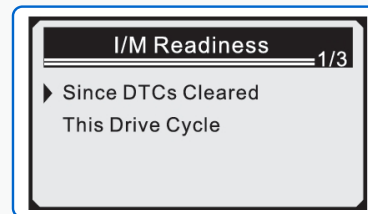
- **DTC has been deleted** - Shows display status since DTC has been deleted
- **This Drive Cycle** - Shows monitor status since current drive cycle started



From diagnostic menu



Choose module if multiple



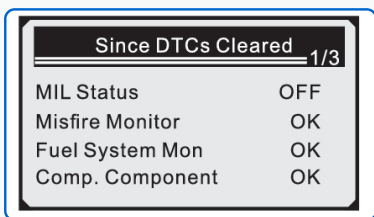
Select test type

Monitor Status Indicators:

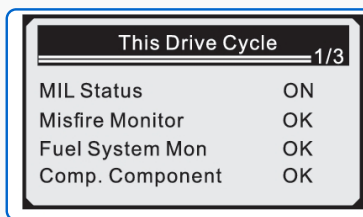
✓ "Confirm" - Test finished

x "INC" - Test not finished

- "N/A" - Not supported



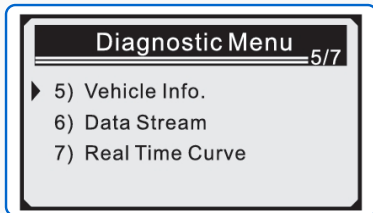
Press the Up/Down keys to view all status



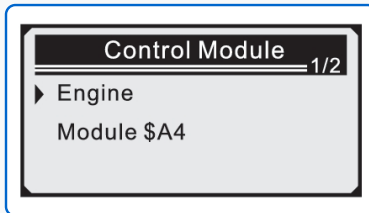
Appear if the vehicle supports the "This Drive Cycle" readiness test

3.5 Read the Vehicle Information

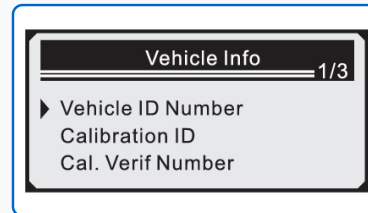
The Vehicle Information function (Mode 9) can retrieve the Vehicle Identification Number (VIN), Calibration Identification (CAL ID), and Calibration Verification Number (CVN) on supported vehicles. Mode 9 is available on many vehicles from model year 2000 and newer.



From diagnostic menu

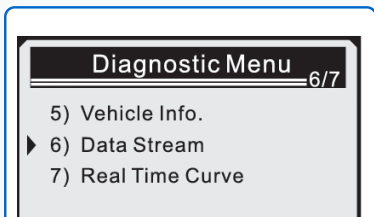


If multiple modules

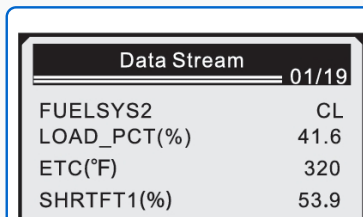


View VIN, CVN data

3.6 View Data Stream



From diagnostic menu



View data stream

3.7 Waveform Display

From the Diagnostic Menu, select Real Time Curve, then press the Confirm button to enter the real-time waveform screen to view:

The Real Time Curve interface consists of four sequential screens. Each screen shows a list of parameters on the left and a waveform graph on the right. The current parameter is highlighted with a right-pointing arrowhead.

- Screen 1/4:** Car Speed (85 km/h). Parameters: Car Speed, Calculate Load Value, Engine Coolant Temp, Engine RPM.
- Screen 2/4:** Calculate Load Value (42.7%). Parameters: Car Speed, Calculate Load Value, Engine Coolant Temp, Engine RPM.
- Screen 3/4:** Engine Coolant Temp (56°C). Parameters: Car Speed, Calculate Load Value, Engine Coolant Temp, Engine RPM.
- Screen 4/4:** Engine RPM (3000). Parameters: Car Speed, Calculate Load Value, Engine Coolant Temp, Engine RPM.

Note: Press Exit button or Confirm button to quickly exit waveform display interface.

3.8 Diagnostic Code Query

The DTC Lookup interface displays the code **P0000** in large font. Below it, the following ranges are listed:

- The 1st range: P, C, B, U
- The 2nd range: 0, 1, 2, 3
- Others from: 0 to F

- Press "▲" to move the cursor to the next character
- Press "▼" to change the value of the selected character
- After entering the full code, press Confirm to look up the DTC

4. Warranty and Service

4.1 One Year of Warranty

We guarantee our customers that this product will have no defects in material and process within one year from the purchase date, but subject to the following terms and conditions:

- 1) Our full responsibility under the warranty is limited to maintenance, or we can replace the code reader free of charge according to our choice, but we must show the proof of purchase. Sales receipts can be used for this purpose.
- 2) This warranty is not suitable for damage caused by improper use, flooding, lightning or any modification or repair of the product by anyone other than the manufacturer's service centre.
- 3) Our company are not responsible for any accidental or consequential damage caused by the use, misuse and installation of code readers.
- 4) The information in this manual is based on the latest information at the time of publication and we don't guarantee its accuracy or completeness. We reserve the right to change at any time without further notice.

4.2 Service Regulations

If you have any questions or require warranty service, please contact the retailer or distributor from whom you purchased the product. All warranty claims, returns and maintenance services are handled by the place of purchase.

For Technical Support (Distributors / OEM / ODM):

Email: info@drovewest.com

Please contact Drove West technical support team for additional resources, troubleshooting assistance, and product information.