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ArtiLink300

Code Reader

USER MANUAL

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Welcome

Thank you for purchasing TOPDON OBD2 scan tool ArtiLink 300. Please patiently read and understand this User Manual before operating this product.

About

As designed to work with all OBDII compliant vehicles, including Controller Area Network (CAN), TOPDON ArtiLink 300 supports all 10 modes of OBDII test for a complete diagnosis. It enables users to Read/Clear DTCs, run I/M Readiness test, check Live and Freeze Frame Data etc., with built-in help menus and code definitions.

Package List

1. ArtiLink 300
2. Quick Start Guide
3. User Manual

Compatibility

TOPDON ArtiLink 300 is compatible with following protocols:

- **KWP2000**
- **ISO9141**
- **J1850 VPW**
- **J1850 PW**
- **CAN (Controller Area Network)**

Notice

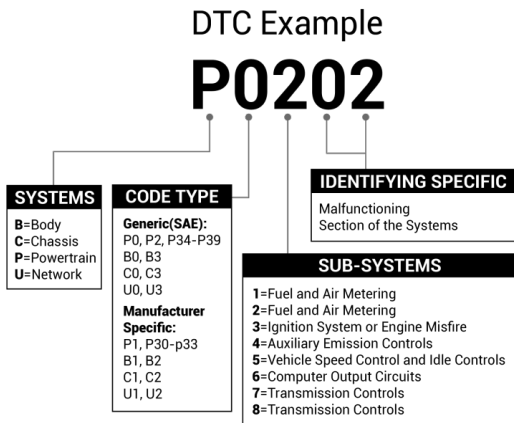
ArtiLink 300 may automatically reset while being disturbed by strong static electricity. THIS IS A NORMAL REACTION.

General Information of OBDII (On-Board Diagnostics II)

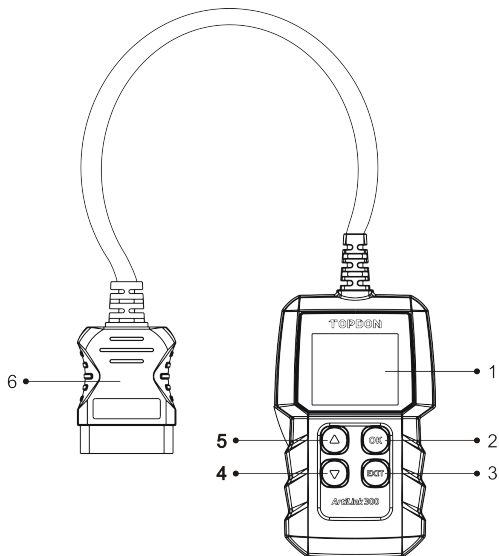
The OBDII system is designed to monitor emission control systems and key engine components by performing either continuous or periodic tests of specific components and vehicle conditions, which will offer three pieces of such valuable information:

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

Diagnostic Trouble Codes (DTCs)



Features

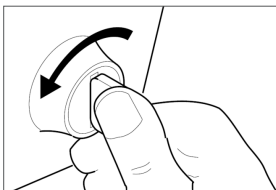


1. **LCD** - Show test results.
2. **OK** - To confirm the current operation.
3. **EXIT** - Back to the previous page.
4. **▼** - Move down for selection. Or skip to the next page when more than one page is displayed.
5. **▲** - Move up for selection. Or skip to the previous page when more than one page is displayed.
6. **16-pin Connector** - To connect to the vehicle's DLC (Data Link Connector).

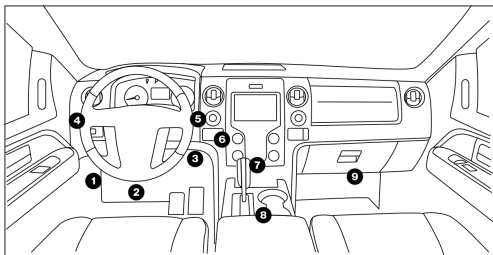
Operation Introduction

1. Preparation & Connection

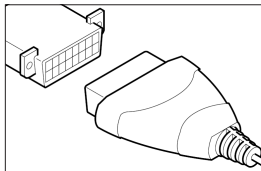
1. Turn the ignition off.



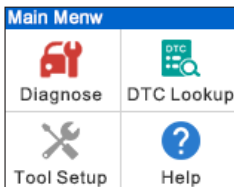
2. Locate the vehicle's DLC socket.



3. Plug the diagnostic cable into the vehicle's DLC socket.



4. Turn the ignition on. The engine can be off or running.
5. ArtiLink 300 will start initializing and enter the main menu.



***Note: Don't connect or disconnect any test equipment with ignition on or engine running.**

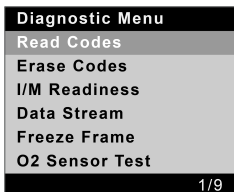
2. Diagnose

Select [**Diagnose**] in Main Menu and press [**OK**]. The tool will automatically start a check of the vehicle's computer.

2.1 Read Codes

This option identifies which section of the emission control system has malfunctioned.

Select [**Read Codes**] and press [**OK**].



The DTC with its definition will be displayed on screen.

DTC	
P0001	1/12
Generic	Current
Fuel Volume Regulator Control Circuit/Open	
▲ ▼ OK □	

***Note:** Never replace a part based only on the DTC definition. Always refer to the vehicle's service manual for detailed testing instructions.

2.2. Erase Codes

This option erases the codes from the vehicle after retrieving codes from the vehicle, and certain repairs have been carried out.

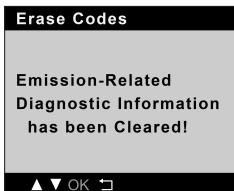
Select [Erase Codes] and press [OK].

Diagnostic Menu
Read Codes
Erase Codes
I/M Readiness
Data Stream
Freeze Frame
O2 Sensor Test
2/9

Press [OK] to confirm erasing.

Erase Codes
Clear/Reset Emission- Related Diagnostic Information, Are You sure?
▲ ▼ OK □

The result will be displayed on screen.



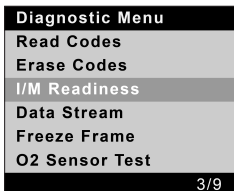
***Note:** Be sure the vehicle's ignition key is in the ON position with the engine off.

2.3 I/M Readiness

This option checks whether or not the various emissions-related systems on the vehicle are operating properly, and are ready for Inspection and Maintenance testing.

It is also can be used 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.

Select [I/M Readiness] and press [OK].



Select an option, and press [OK].

I/M Readiness	
Since DTCs Cleared	
This Drive Cycle	
1/2	

The result will be displayed on screen.

I/M Readiness	
CAT_RDY	OK
HCAT_RDY	OK
EGR_RDY	OK
1~3/3	

*Explanation of terms:

- CAT_RDY - Catalyst Monitor Ready?
- HCAT_RDY - Heated Catalyst Monitor Ready?
- EGR_RDY - EGR System Monitor Ready?

2.4 Data Stream

This option retrieves and displays live data and parameters from the vehicle's ECU.

Select [**Data Stream**] and press [**OK**].

Diagnostic Menu	
Read Codes	
Erase Codes	
I/M Readiness	
Data Stream	
Freeze Frame	
O2 Sensor Test	
4/9	

The result will be displayed on screen.

Datastream	
FUELSYS1	OL-Drive
FUELSYS2	OL-Drive
LOAD_PCT	1.6%
ECT	-36 °C
1~4/67	

2.5 View Freeze Frame

This option takes the snapshot of the operating conditions when an emission-related fault occurs.

Select [**Freeze Frame**] and press [**OK**].

Diagnostic Menu
Read Codes
Erase Codes
I/M Readiness
Data Stream
Freeze Frame
O2 Sensor Test
5/9

The result will be displayed on screen.

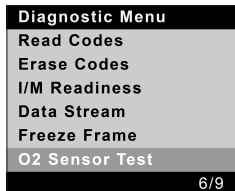
Freeze Frame	
DTCFRZF	U0004
FUELSYS1	OL-Drive
FUELSYS2	OL-Drive
LOAD_PCT	1.6%
1~4/29	

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

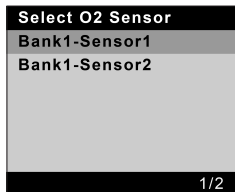
2.6 O2 Sensor Test

This option retrieves O2 sensor monitor test results of the most recently completed tests from your vehicle's on-board computer.

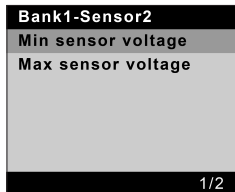
Select [**O2 Sensor Test**] and press [**OK**].



Select an option, and press [**OK**].



Select an option, and press [**OK**].



The result will be displayed on screen.

Min sensor voltage	
Test ID	\$07
Value	0.000V
Min	0.000V
Max	0.000V
Status	Pass
▲ ▼ OK □	

2.7 On-Board Monitor Test

This option retrieves test results for emission-related powertrain components and systems that are not continuously monitored. The tests available are determined by the vehicle manufacturer.

Select [**On-Board Monitoring**] and press [**OK**].

Diagnostic Menu
On-Board Monitoring
Evap Sysstem(mode\$8)
Vehicle Information
7/9

Select an option, and press [**OK**].

On-Board Monitoring
Catalyst Monitor B1
VVT Monitor Bank 1
Purge Flow Monitor
Sensor Heater B1-S1
Sensor Heater B1-S1
1/5

The result will be displayed on screen.

Catalyst Monitor B1	
Component ID	\$00
Limit Type	Min&Max
Value	82.24km/h
Min	41.12km/h
Max	123.36km/h
Status	Pass
▲ ▼ OK □	

2.8 EVAP System Test

This option initiates a leak test for the vehicle's EVAP system. Select **[EVAP System (mode\$8)]** and press **[OK]**.

Diagnostic Menu	
On-Board Monitoring	
Evap System(mode\$8)	
Vehicle Information	
8/9	

If the vehicle doesn't support mode\$8, the following result will be displayed on screen.

Evap System(mode\$8)	
Evaporative system leak test nor supported	
▲ ▼ OK □	

***Note:** Before using the system test function, refer to the vehicle's service repair manual to determine the necessary procedures.

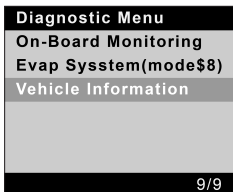
2.9 Vehicle Info

This option retrieves a list of information (provided by the vehicle manufacturer) from the vehicle's on-board computer.

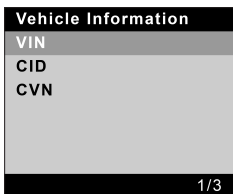
This information may include:

- VIN (Vehicle identification Number).
- CID (Calibration ID).
- CVN (Calibration Verification Number).

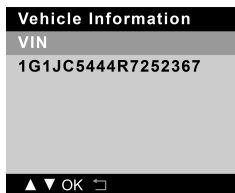
Select [**Vehicle Information**] and press [**OK**].



Select an option, and press [**OK**].



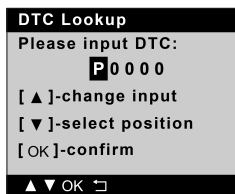
The result will be displayed on screen.



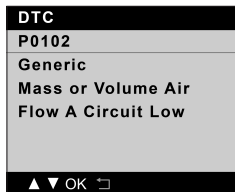
3. DTC Lookup

This function enables you to view the detailed definition of the retrieved DTC.

Select **[DTC Lookup]** in the Main Menu and press **[OK]**, the following screen will appear:

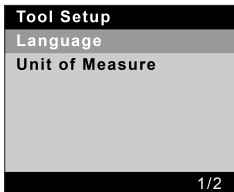


After you input the DTC, press **[OK]** to view its detailed definition.



4. Settings

Select [**Tool Setup**] in the Main menu and press [**OK**], the system will enter the tool setup screen.



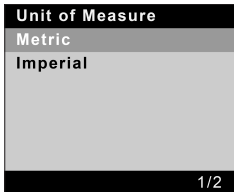
- Language

This option enables you to set the user interface language.



- Unit of Measure

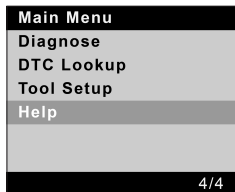
This option allows you to set measurement unit.



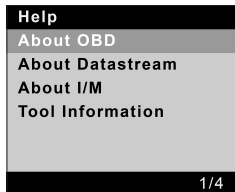
5. Help

This function enables you to view the tool information and the OBD introduction.

Select [**Help**] in the Main menu and then press [**OK**].



The following options will be displayed on screen.



- About OBD - Relevant introduction information about OBD.
- About Datastream - Relevant introduction information about Data Stream.
- About I/M - Introduces the full name and detailed definition of each I/M monitor.
- Tool Information - Displays the related information of your tool.

Technical Specification

Display: 1.77"color LCD

Input Voltage Range: 9~18V

Working Temperature: 0 to 50°C (32°F to 122°F)

Storage Temperature: -20 to 70°C (-4°F to 158°F)

Dimensions: 119 * 71.7 * 23.3 mm (4.68 * 2.82 * 0.91 inch)

Weight: 210g (0.46 lb)

Warranty

✔ TOPDON One Year Limited Warranty

The TOPDON Company warrants to its original purchaser that TOPDON products will be free from defects in material and workmanship for 12 months from the date of purchase (Warranty Period). For the defects reported during the Warranty Period, TOPDON will, according to the technical support analysis and confirmation, either repair or replace the defective part or product.

✔ This limited warranty is void under the following conditions:

- Misused, disassembled, altered or repaired by a non-TOPDON technical repair specialist.
- Careless handling and violation of operation.

Warnings

- ✔ Always perform automotive testing in a safe environment.
- ✔ DO NOT smoke near the vehicle during testing.
- ✔ DO NOT place the code reader near the engine or exhaust pipe to avoid damage from high temperatures.
- ✔ DO NOT wear loose clothing or jewelry when working on an engine.
- ✔ DO NOT connect or disconnect any test equipment while the ignition is on or the engine is running.
- ✔ When an engine is running, it produces carbon monoxide, a toxic and poisonous gas. Operate the vehicle ONLY in a well-ventilated area.
- ✔ Wear safety eye protection that meets ANSI standards.
- ✔ Engine parts become very hot when the engine is running. To prevent severe burns, avoid contact with hot engine parts.
- ✔ DO NOT disassemble the code reader.

Cautions

- ✔ Please ensure that the vehicle battery is fully charged and the tools are closely connected to the vehicle DLC to avoid erroneous data generated by tools and diagnostic systems.
- ✔ Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- ✔ Please do not use the code reader during driving.
- ✔ 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.
- ✔ Keep the code reader out of the reach of children.

FAQ

Q: System halts when reading data stream. What is the reason?

A: It may be caused by a slackened connector. Please turn off the tool, firmly connect the connector, and switch it on again.

Q: Screen of main unit flashes at engine ignition start.

A: Caused by electromagnetic disturbing, and this is normal phenomenon.

Q: There is no response when communicating with on-board computer.

A: Please confirm the proper voltage of power supply and check if the throttle has been closed, the transmission is in the neutral position, and the water is in proper temperature.

Q: Why are there so many fault codes?

A: Usually, it's caused by poor connection or fault circuit grounding.

Q: Why the DTCs cannot be erased?

A: 1. Please confirm the malfunction related to DTCs has been properly fixed.

2. Please switch the ignition OFF. Wait for 1~3 minutes, then start the vehicle. After that, try to run "Read Codes" again. (Some DTCs can only be erased in this way.)