Manuals+ — User Manuals Simplified.

TOPDON ArtiLink 300 Code Reader User Manual

Contents [**hide**]

TOPDON ArtiLink 300 Code Reader

Welcome

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

About

As specially 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, record and save data etc., with built-in help menus and code definitions. Diagnosing and repairing that dreaded Check Engine Light is now easier than ever!

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

Compatibility

TOPDON ArtiLink 300 is compatible with following protocols:

- KWP2000

- IS09141
- J1850 VPW
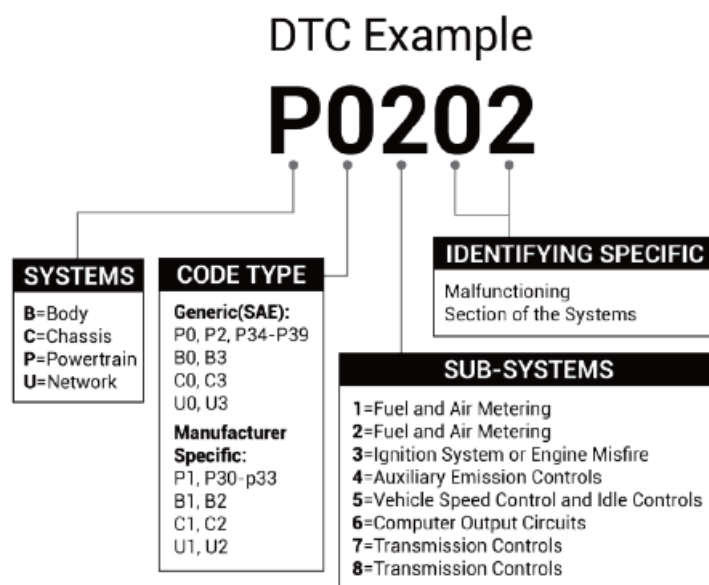- J1850 PW
- CAN (Controller Area Network)

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

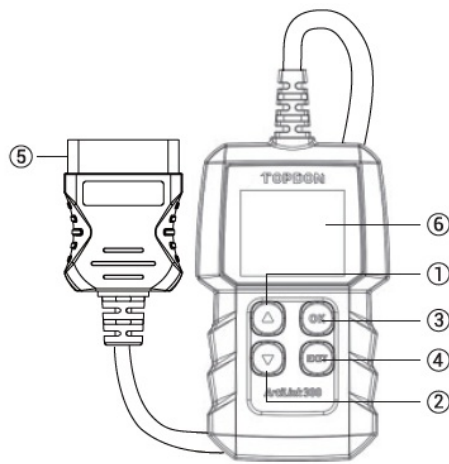## General Information of OBDII (On-Board Diagnostics II)

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)

DTC Example
P0202

SYSTEMS
B=Body
C=Chassis
P=Powertrain
U=Network

CODE TYPE
Generic(SAE):
P0, P2, P34-P39
B0, B3
C0, C3
U0, U3
Manufacturer Specific:
P1, P30-p33
B1, B2
C1, C2
U1, U2

IDENTIFYING SPECIFIC
Malfunctioning
Section of the Systems

SUB-SYSTEMS
1=Fuel and Air Metering
2=Fuel and Air Metering
3=Ignition System or Engine Misfire
4=Auxiliary Emission Controls
5=Vehicle Speed Control and Idle Controls
6=Computer Output Circuits
7=Transmission Controls
8=Transmission Controls

Features

| NO.	Name	Descriptions
1	▲	Move up for selection. Or skip to the previous page when more than one page is displayed.
2	▼	Move down for selection. Or skip to the next page when more than one page is displayed.
3	OK	To confirm the current operation.
4	EXIT	Back to the previous page.
5	16-pin Connector	To connect to the vehicle's DLC (Data Link Connector).
6	LCD	Show test results

Operation Introduction

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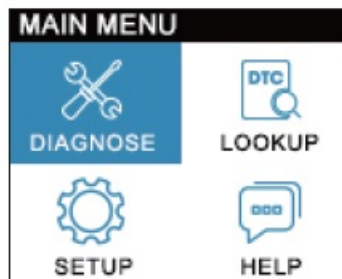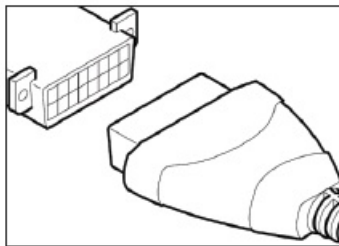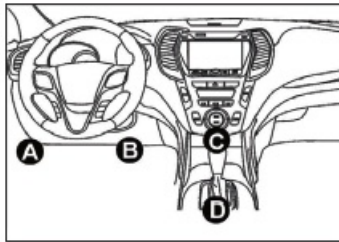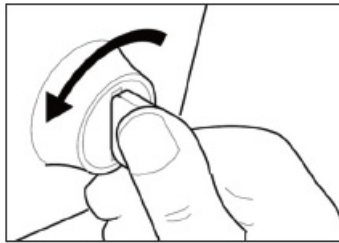
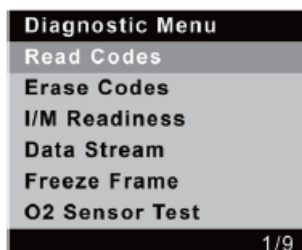**Note**: Don't connect or disconnect any test equipment with ignition on or engine running.
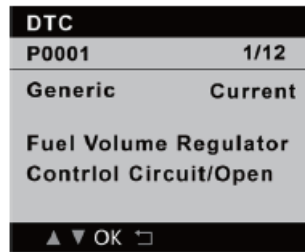
Diagnose

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

Read Codes
This option identifies which section of the emission contro system has malfunctioned. Select Read Codes) and press (OK]
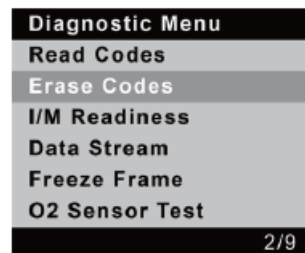
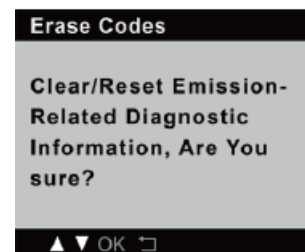The DTC with its definition will be displayed on screen.

```
DTC
P0001              1/12
Generic          Current

Fuel Volume Regulator
Contrlol 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.
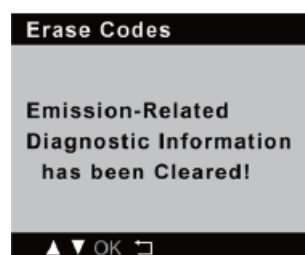
Erase Codes

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.

```
Erase Codes

Emission-Related
Diagnostic Information
  has been Cleared!

▲ ▼ OK ⊐
```

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

I/M Readiness

This option checks whether or not the various emissionsrelated 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 [/M Readiness] and press [OK].

```
Diagnostic Menu
Read Codes
Erase Codes
I/M Readiness
Data Stream
Freeze Frame
O2 Sensor Test
                    3/9
```

Select an option, and press |OKJ.

```
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
```
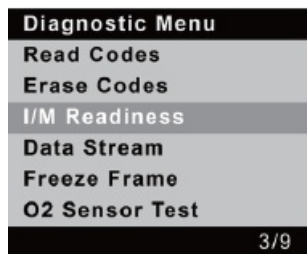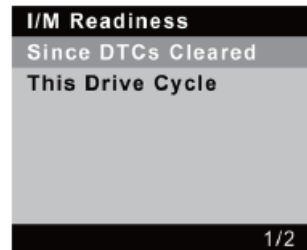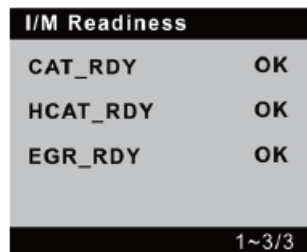
Explanation Of Terms:

- CAT RDY Catalyst Monitor Ready?
- HCAT RDY – Heated Catalyst Monitor Ready?
- EGR RDY – EGR System Monitor Ready?

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
```
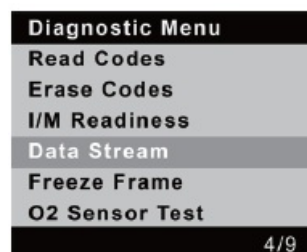
The result will be displayed on screen.

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

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.

02 Sensor Test
This option retrieves 02 sensor monitor test results of the most recently completed tests from your vehicle's on-board computer. Select [02 Sensor Test) and press [OK].

Diagnostic Menu	
Read Codes	
Erase Codes	
I/M Readiness	
Data Stream	
Freeze Frame	
O2 Sensor Test	
	6/9

Select an option, and press [OK].

Select O2 Sensor	
Bank1-Sensor1	
Bank1-Sensor2	
	1/2

Select an option, and press [OK].

```
Bank1-Sensor2
Min sensor voltage
Max sensor voltage




                            1/2
```

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 ⇆
```

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 System(mode$8)
Vehicle Information



                            7/9
```

Select an option, and press [OKJ.

```
On-Board Monitoring
Catalyst Monitor B1
VVT Monitor Bank 1
Purge Flow Monitor
Sensor Heater B1-S1
Sensor Heater B1-S2

                            1/5
```
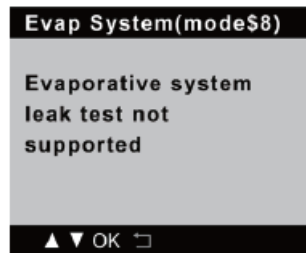
The result will be displayed on screen.

```
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 ⇆
```

EVAP System Test

This option initiates a leak test for the vehicle's EVAP system. Select [EVAP System (mode$8)] and press [OK]
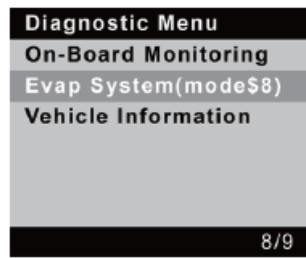
If the vehicle doesn't support mode$8, the following result will be displayed on screen.


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

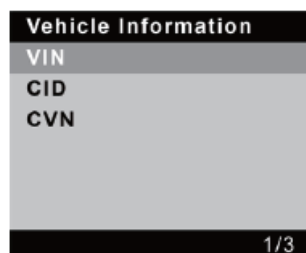**Vehicle Information**
This option retrieves a list of information (provided by the vehicle manufacturer) from the vehicle's on-board computer. This information may include:

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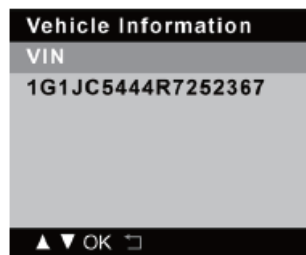- CVN (Calibration Verification Number).

Select [Vehicle Information) and press [OK].
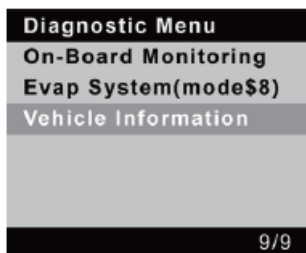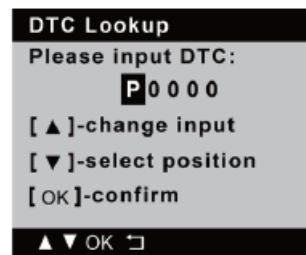

Select an option, and press |OK].

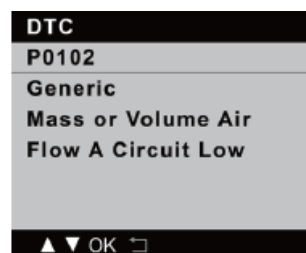The result will be displayed on screen.

```
┌─────────────────────────────┐
│ Vehicle Information          │
│ VIN                          │
│ 1G1JC5444R7252367            │
│                              │
│                              │
│                         1/7  │
│ ▲ ▼ OK ⊐                     │
└─────────────────────────────┘
```

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:
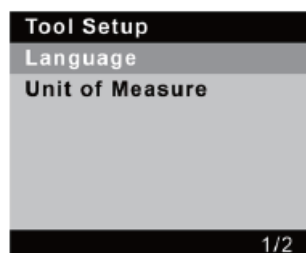
```
┌─────────────────────────────┐
│ DTC Lookup                   │
│ Please input DTC:            │
│           P 0 0 0 0          │
│ [ ▲ ]-change input           │
│ [ ▼ ]-select position        │
│ [ OK ]-confirm               │
│ ▲ ▼ OK ⊐                     │
└─────────────────────────────┘
```

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

```
┌─────────────────────────────┐
│ DTC                          │
│ P0102                        │
│ Generic                      │
│ Mass or Volume Air           │
│ Flow A Circuit Low           │
│                              │
│ ▲ ▼ OK ⊐                     │
└─────────────────────────────┘
```

Settings

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

```
┌─────────────────────────────┐
│ Tool Setup                   │
│ Language                     │
│ Unit of Measure              │
│                              │
│                              │
│                         1/2  │
└─────────────────────────────┘
```

Language
This option enables you to set the user interface language.

```
┌─────────────────────────────┐
│ Language                     │
│ English                      │
│ Français                     │
│ Español                      │
│ Deutsch                      │
│ Русский                      │
│ Italiano                     │
│                         1/7  │
└─────────────────────────────┘
```

Unit of Measure

This option allows you to set measurement unit.

Unit of Measure
Metric
Imperial

1/2
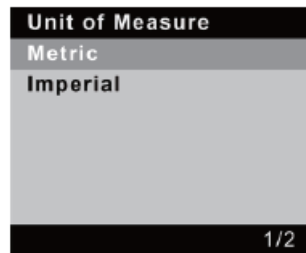
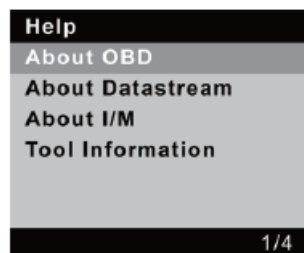**Help**

This function enables you to view the tool information and the OBD introduction. Select [Help] in the Main menu and then press [OK]

Main Menu
Diagnose
DTC Lookup
Tool Setup
Help

4/4
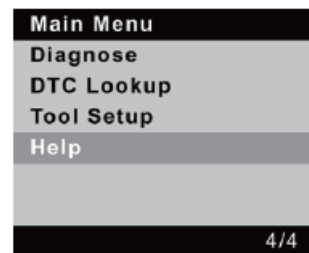
The following options will be displayed on screen.

Help
About OBD
About Datastream
About I/M
Tool Information

1/4

Explanation of terms:

- About OBD Relevant introduction information about 0BD.
- About Datastream – Relevant introduction information about Data Stream.
- About I/M – Introduces the full name and detailed definition of each 1/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**: 118 68*22.3 mm (4.65*2.68 0.88 inch)
- **Weight** <200g (0.44 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.

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?
  - Please confirm the malfunction related to DTCs has been properly fixed.

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

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Documents / Resources

	TOPDON ArtiLink 300 Code Reader [pdf] User Manual ArtiLink 300 Code Reader, ArtiLink 300, ArtiLink Reader, Code Reader, Reader