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TOPDON

ArtiDiag Pro

Professional Diagnostic Tool

USER MANUAL

CONTENTS

WELCOME

Thank you for purchasing the TOPDON ArtiDiag Pro, an automotive diagnostic tool. Please read manual prior to operation.

ABOUT

The TOPDON ArtiDiag Pro is an ideal diagnostic tablet designed to work on all available electronic systems. Beyond OBD2 diagnostics, the user can expect AutoVIN technology to accelerate diagnostic work, and the well-organized interface can run reset services for effective vehicle maintenance.

WHAT'S INCLUDED

1. ArtiDiag Pro
2. Diagnostic Cable
3. Smart OBD II-16E Adaptor
4. BENZ-38 Adaptor
5. BMW-20 Adaptor
6. 5V DC Charging Cable
7. Power Adaptors
8. Carrying Case
9. Quick User Guide
10. User Manual

TECHNICAL SPECIFICATION

Display: 7-inch 1024*600 Touchable Screen
RAM: 4G
ROM: 64GB
Camera: 8.0MP rear-facing camera
OBDII Input Voltage Range: 9~18V
Charging: Type-C charging port, or through connection to vehicle's DLC
Working Temperature: 14°F to 122°F (-10°C to 50°C)
Storage Temperature: -4°F to 158°F (-20°C to 70°C)

COMPATIBILITY

TOPDON ArtiDiag Pro is compatible with the following:

- KWP2000
- ISO9141
- J1850 VPW
- J1850 PWM
- CAN (Controller Area Network), CAN FD
- DoIP
- And more

NOTICE

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

This Product Manual is subject to change without written notice.

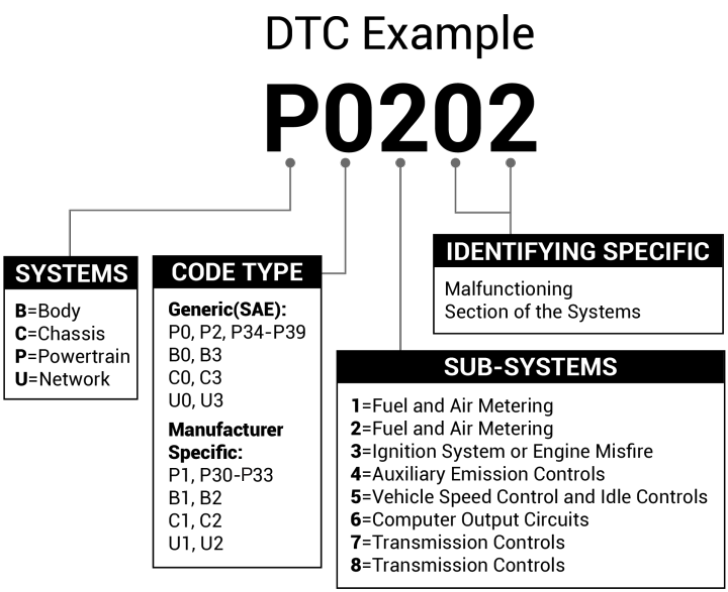
Read the instructions carefully and use the unit properly. Failure to do so may cause damage and/or personal injury, which will void the product warranty.

GENERAL INFORMATION OF OBDII

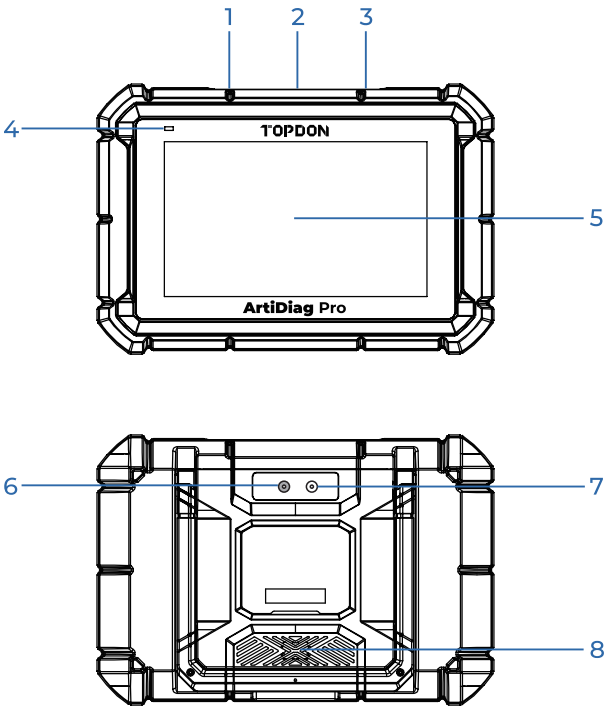
The OBDII system is designed to monitor emission control systems and key engine components by performing either continuous or periodic tests of specific components and vehicle conditions, which will relay the following information:

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

DIAGNOSTIC TROUBLE CODES (DTCS)



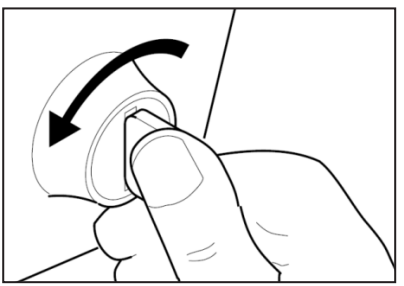
PRODUCT OVERVIEW



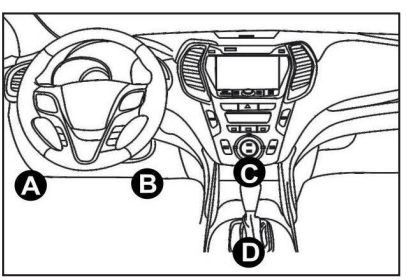
NO.	Name	Descriptions
1	Charging Port	To charge the tablet.
2	DB-15 Diagnostic Connector	To connect to the diagnostic cable.
3	Power/Lock Button	• Hold the button for 5 seconds to turn the tablet on. • Hold the button for 3 seconds to turn the tablet off. • Press the button to wake up the screen or turn off the screen.
4	Charging LED	Battery below 20% indicates low battery. Battery above 20% indicates normal battery. • For low battery, it illuminates red and flashes when being charged. If not charged, it illuminates solid red. • For normal battery, it illuminates green and flashes when being charged.
5	Touch Screen	Show test results.
6	Camera Flash	Produce a flash of artificial light.
7	Rear Camera	Snap the view in the front of the tablet.
8	Loudspeakers	Convert an audio signal into a corresponding sound.

PREPARATION & CONNECTION

1. Turn the ignition off.



2. Locate the vehicle's DLC socket.



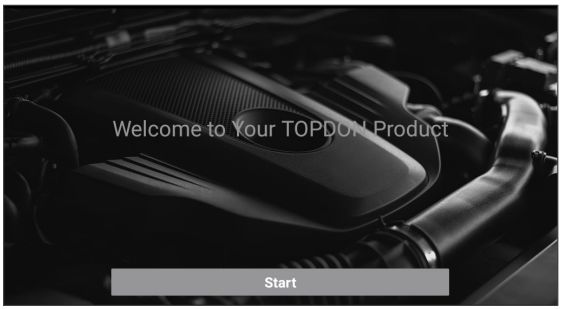
3. Connect one end of the diagnostic cable to the DB-15 port on the ArtiDiag Pro and tighten the captive screws.

4. Select the appropriate adaptor for vehicle's DLC connector. Connect the adaptor to the other end of the diagnostic cable and tighten the captive screws.

5. Plug the adaptor to vehicle's DLC connector.

6. Turn the ignition on. The engine can be off or running.

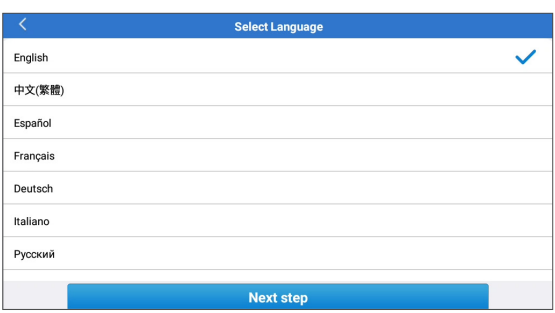
7. Hold the power button for 5 seconds to turn the TOPDON ArtiDiag Pro on. The tablet will start initializing and enter the welcome interface.



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

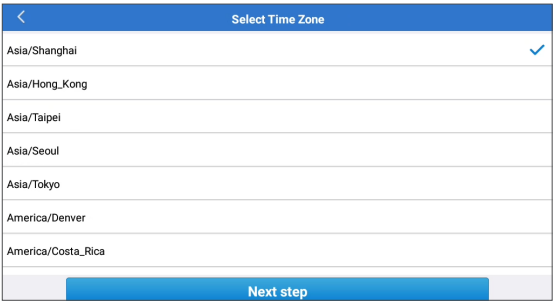
8. Language Setting

Select the tool language in the following interface:



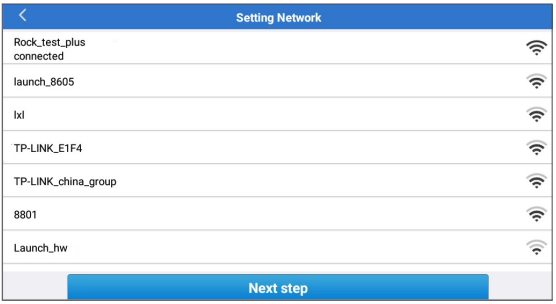
9. Choose Time Zone

Choose the time zone of your current location. The system will automatically configure the time according to the time zone you selected.



10. Connect Wi-Fi

The system will automatically search all available Wi-Fi networks. You can choose the Wi-Fi needed.

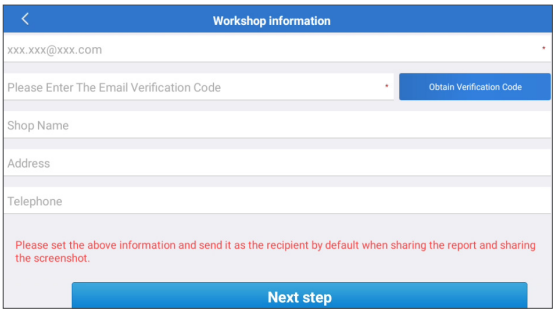


*Note: Since the first use of the scanner requires data interaction with the server to activate it, the first use must connect to WIFI; otherwise, the diagnostic software will not be able to use, but after the activation of the scanner, the diagnostic function can be used in the offline state.

11. Enter workshop information

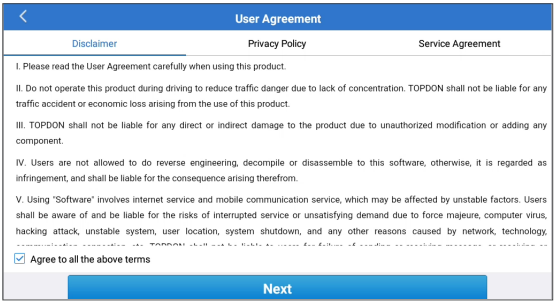
Here you can configure workshop information and an email address (as the recipient by default when sharing reports or screenshots).

After entering the email address, tap "Obtain Verification Code" to verify its validility.



12. User Agreement

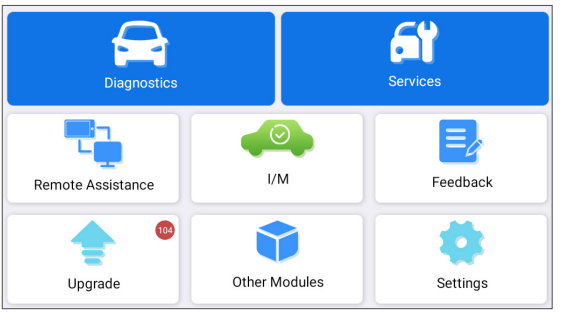
Please read all the terms and conditions of the user agreement carefully. Check “Agree all the above terms” and tap “Next” to complete the registration process.



It will automatically jump to the Home Menu.

OPERATION INTRODUCTION

TOPDON ArtiDiag Pro has 8 major modules, including Diagnostics, Services, Remote Assistance, I/M, Feedback, Upgrade, Other Modules, and Settings.



1. Diagnostics

TOPDON ArtiDiag Pro supports Smart Diagnosis and Manual Diagnosis covering OBDII diagnosis, full system diagnosis for most modern vehicles worldwide.

A diagnostic report will be automatically generated after the diagnosis.

1.1 Smart Diagnosis (Auto-Detect)

Power on the ArtiDiag Pro. Tap “Settings”, and make sure the “Automatic detection on connect” is on.

*Note: Alternatively, the user can also tap "Diagnose" -> "AutoDetect" to start the smart diagnosis manually if the “Automatic detection on connect” is Off.

Connect to the DLC’s port, and then turn the ignition key on. The ArtiDiag Pro will enter the Smart Diagnosis mode automatically.

*Note: If the automatic detection can not identify the vehicle, please try to connect to the network. Not all cars support the Auto-Detect function due to auto manufacturers' settings.

1.1.1 Once the system successfully obtains the VIN (Vehicle Identification Number), it will continue scanning the vehicle systems. A diagnostic report will be automatically generated after the scanning is completed.

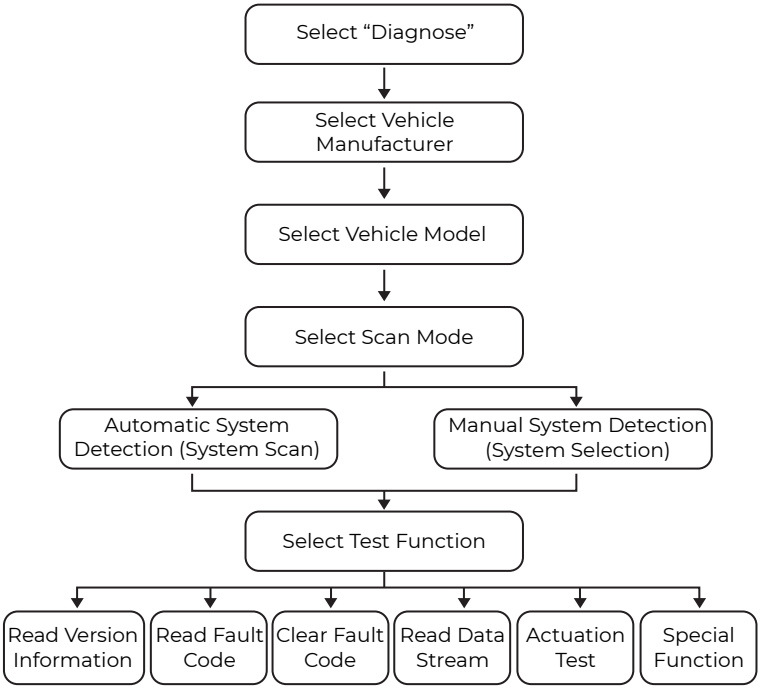
1.1.2 If the tablet fails to access the VIN information, the screen will display as follows:

Input the VIN and tap “OK”; the system will automatically identify the vehicle model.
If the VIN is successfully decoded, it will perform Smart Diagnosis until a diagnostic report is automatically generated. Otherwise it will enter the Manual Diagnosis mode.

*Note:
- A highly stable and solid network connection is recommended for successful VIN access.
- VIN characters may be capital letters A through Z and numbers 1 through 0; however, the letters I, O and Q would never be used in order to avoid misreading. No signs or spaces are allowed in the VIN.

1.2 Manual Diagnosis

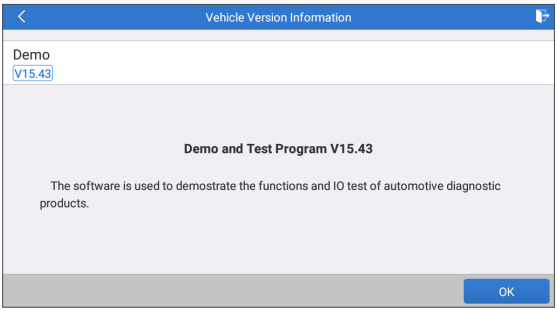
If the tablet cannot obtain or analyze the VIN information, you can also perform Manual Diagnosis. In this mode, you need to execute the menu-driven command and follow the on-screen instruction to proceed.
Refer to the flowchart illustrated below to run the manual system diagnostics.



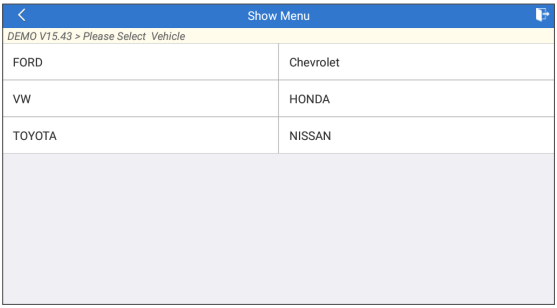
*Note:

- Before diagnosing, please make sure the corresponding vehicle manufacturer software has been installed in the scanner.
- The diagnostic menu may vary by the vehicle’s make, model, and year.

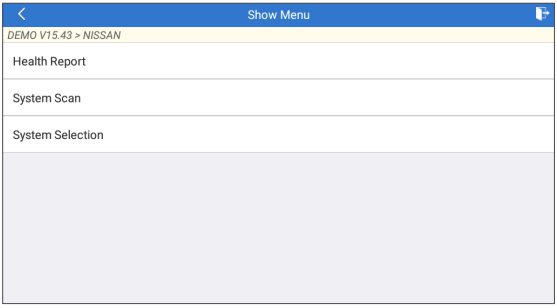
Take “Demo V15.43” as an example to demonstrate how to manually diagnose a vehicle.
Tap “OK” to continue.



The following screen will appear:



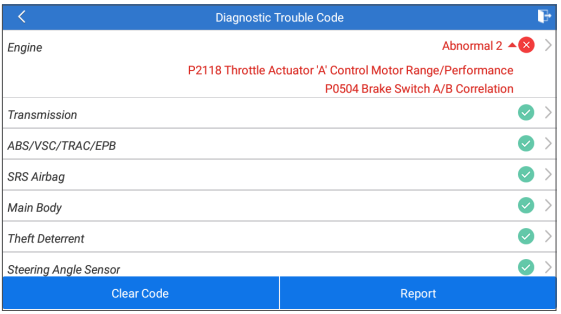
Take “NISSAN” as an example to continue.



1.2.1 Health Report (Quick Test)

This function enables you to quickly access all electronic control units of the vehicle and generate a detailed report about vehicle health.

Tap “Health Report”, and the system will start scanning the ECUs. Once the scanning is complete, the following screen will appear:



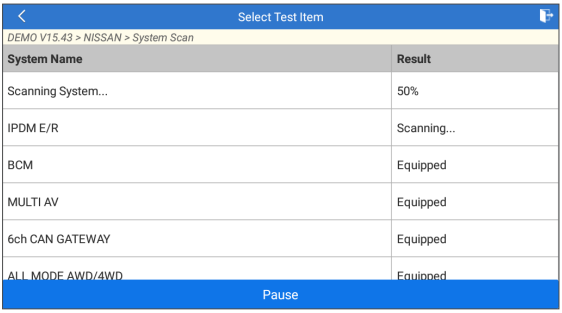
The system with fault codes will be displayed in red (✕). The system with no fault codes will be displayed in green (✓).

*Explanation of terms:

- Tap ▼ to display the details of DTCs existing in the current system. Tap ▲ to hide it.
- ›: To select other test functions.
- Report: To save the diagnostic result as a report.
- Clear Code: To clear the existing diagnostic trouble codes.

1.2.2 System Scan (Automatic System Detection)

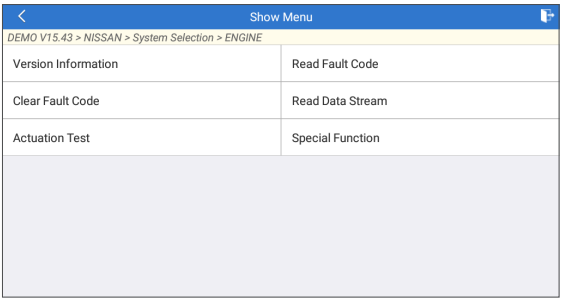
This function will scan the vehicle test system automatically. Tap “System Scan”. The following screen will appear:



1.2.3 System Selection (Manual System Detection)

This function allows you manually select the system and perform the related diagnostic functions.

Tap “System Selection”, and then select the desired system (take “ENGINE” for example). The following screen will appear:

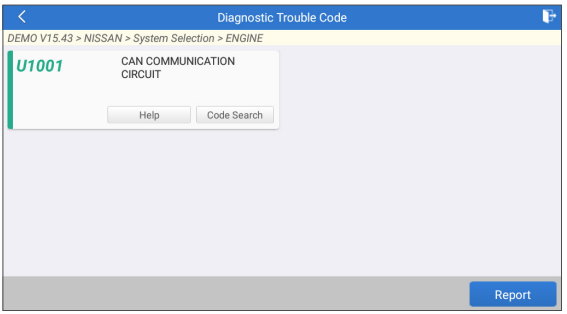


a. Version Information

This function can read the version information of system mode, vehicle VIN, software and ECU.

b. Read Fault Code

This function displays the detailed information of DTC records retrieved from the vehicle’s control system.
The following screen will appear:



*Explanation of terms:

- Help: To view the help information.
- Code Search: To search for more information about the current DTC online.
- Report: To save the current data in text format. All diagnostic reports can be accessed from “Data” -> “Diagnostic Report”.

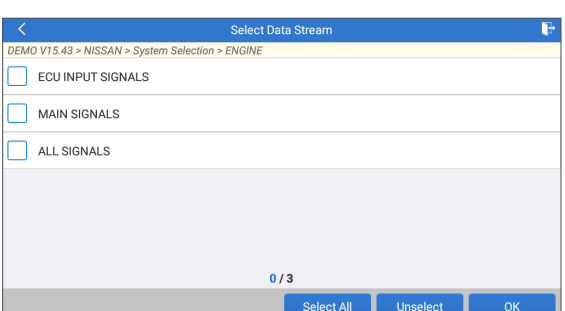
c. Clear Fault Code

This function can erase the codes from the vehicle. Please make sure the vehicle’s ignition key is in the ON position with the engine off before the operation.

d. Read Data Stream

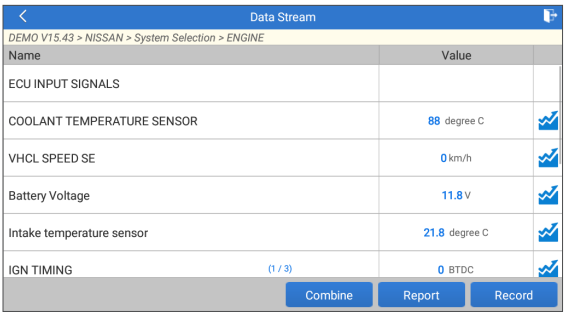
This option retrieves and displays live data and parameters from the vehicle’s ECU.

The following screen will appear:

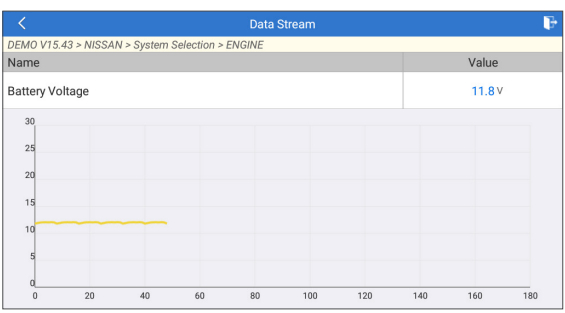


After selecting the desired items, tap “OK” to enter the data stream

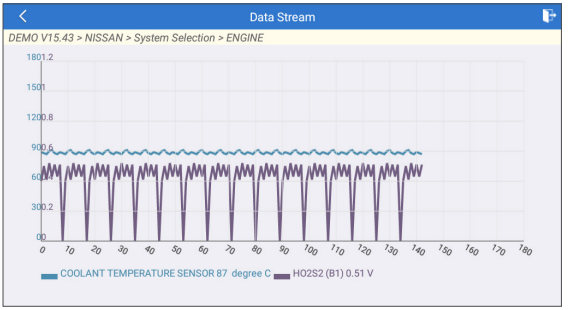
reading page.



The system will display the selected data streams in 3 modes available:
1) Value (default): Shows parameters with numbers and lists.
2) Figure: Displays parameters with wave patterns.
3) Combine: The graphs can be merged for easier comparisons.
Tap to view the parameters in wave patterns:



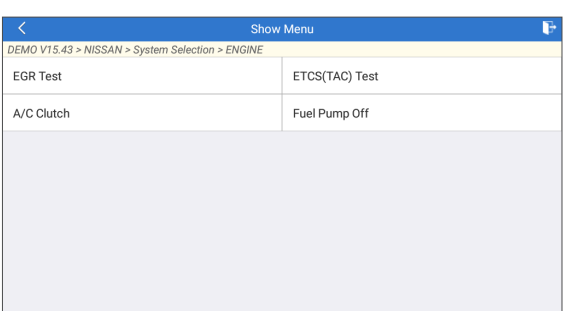
Tap “Combine” to merge values in waveform for easier comparisons. Maximum 4 values can be selected at the same time.



Tap “Report” to save the current data as a diagnostic report. All diagnostic reports can be accessed from “Data” -> “Diagnostic Report”.
Tap “Record” to record and save the Live Data as valuable information to help troubleshoot and diagnose. All diagnostic records can be accessed from “Data” -> “Diagnostic Record”.

e. Actuation Test

This option is used to access vehicle-specific subsystem and component tests. Available tests vary by vehicle manufacturer, year, and model.
During the actuation test, the display tablet outputs commands to the ECU in order to drive the actuators, and then determines the integrity of the system or parts by reading the ECU data, or by monitoring the operation of the actuators, such as switching an injector between two operating states.
The following screen will appear:



Simply follow the on-screen instructions and make appropriate

selections to complete the test.
Each time when an operation is successfully executed, "Completed" will display.

f. Special Functions

This option offers coding, reset, relearn, and more service functions, to help vehicles get back to functional status after repair or replacement. Available tests vary by vehicle manufacturer, year, and model.

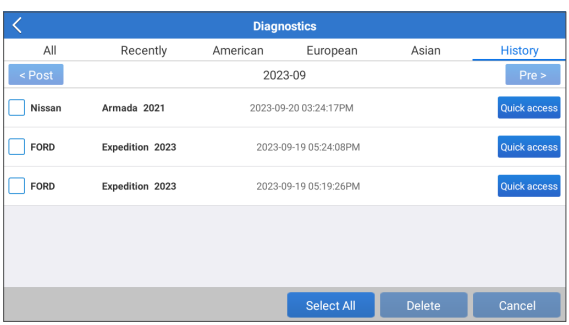
Some special functions can also be accessed by tapping the "Services" on the Home Menu.

1.3 Diagnostic History

The tablet will record every details of a diagnostic session.

The History function provides direct access to the previously tested vehicles. Users can resume from the last operation without the necessity of starting from scratch.

Tap “History” in the “Diagnose” module. All diagnostic records will be listed on the screen in a date sequence.



2. Maintenance Services

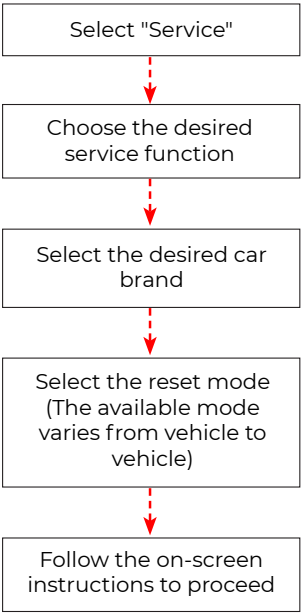
It offers coding, reset, relearn and more service functions, to help vehicles get back to functional status after repair or replacement. Available tests vary by vehicle manufacturer, year, and model.

Due to continuing improvements, available service functions are subject to change without prior written notice. To enjoy more service functions, you are suggested to check for updates on a regular basis.

There are two methods available to perform the reset procedures: Manual Reset or Auto Reset. Auto Reset follows the principle of sending command from the tool to vehicle’s ECU to do resetting.

While using Manual Reset, users just follow the on-screen instructions to select appropriate execution options, enter correct data or values, and perform necessary actions, the system will guide you through the complete performance for various service operations.

Follow the flowchart shown as below to perform resetting.



3. Remote Assistance

This function enables you to receive remote support from technician fellows, colleagues or friends by allowing them to control your tablet on their computer view TeamViewer software.

Note: In order to provide support and take control of your tablet remotely, you partner needs to install and run the TeamViewer full version program in his computer, and have your TeamViewer ID.

Visit http://www.teamviewer.com for details.

4. I/M

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

It can also be used to check the Monitor Run Status, and to confirm if the repair of a car fault has been performed correctly.

5. Feedback

This function provides a quick access to the Feedback in **Other modules** -> **Data**.

6. Upgrade

A number will be displayed upon the “Upgrade” module in the Home Menu indicating a new version of software is available.

It is strongly suggested to update the software on regular basis for more functions and better service.

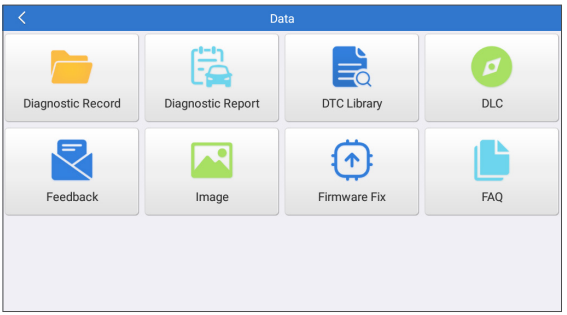
Once the download is finished, the software packages will be installed automatically.

*Note: Stable and solid network connection is required.

7. Other Modules

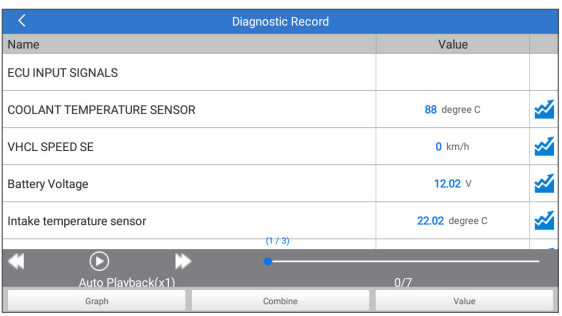
7.1 Data

Tap “Data” in the Home Menu. The following screen will appear:



7.1.1 Diagnostic Record

This module stores the running parameters or waveform graphs the user records.

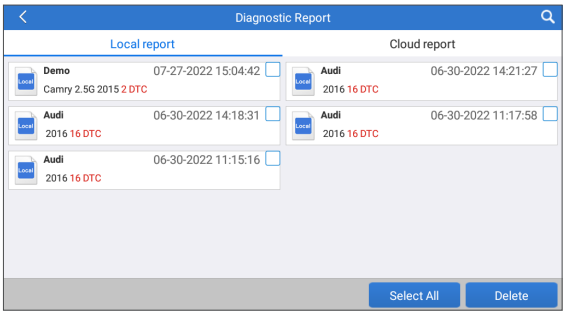


*Explanation of terms:

- Graph: Display parameters in waveform graphs.
- Combine: Merge graphs for data comparison. Items will be in different colors.
- Value (default): Display the parameters as text in a list format.
- Auto Playback: Automatic playback of the selected data stream items. When in Auto Playback mode, the bar will change to “Frame Playback”.

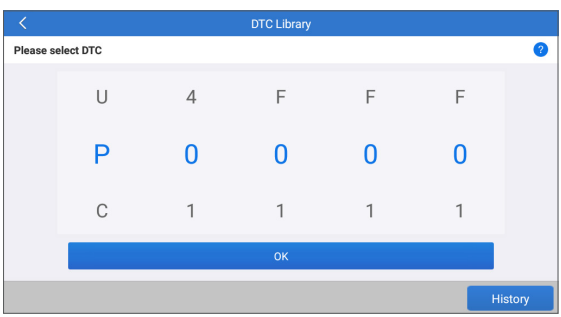
7.1.2 Diagnostic Report

This module stores all diagnostic reports generated in the process of vehicle diagnostics.



7.1.3 DTC Library

This function allows you to retrieve the detailed descriptions of certain DTC from the DTC database.



7.1.4 DLC (Data Link Connector) Location

This function helps you to find the location of the vehicle's DLC.

7.1.5 Feedback

This function allows you to send the feedback of your diagnostic problems to us for further analysis and troubleshooting.

There are 3 options:

1) Diag. Feedback: To send a tested vehicle diagnostic feedback.
2) History Feedback: To view all diagnostic feedback records.
3) Offline Feedback: To view all diagnostic feedback logs that have failed to be submitted, which will be uploaded again to the remote server automatically once the tablet gets the stable network.

7.1.6 Image

All screenshots created in the vehicle diagnostic work will be saved in this module.

7.1.7 Firmware Fix

Use this module to upgrade and fix diagnostic firmware.
Do not cut power or switch to other interfaces in the upgrading process.

7.1.8 FAQ

This module lists some frequently asked questions and answers related to this tablet.

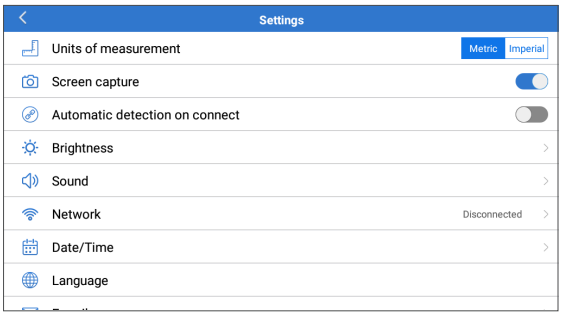
7.2 Camera

This function allows you to take pictures or record videos.

7.3 Battery Voltage

This function can measure the current voltage of the vehicle's battery.

8. Settings



8.1 Units of Measurement

This option can set the measurement unit. Metric System and Imperial System are available.

8.2 Screen Capture

This option can set the Screen Capture icon to be shown or not on the screen.

8.3 Automatic detection on connect

This option enables you to determine whether to start an automatic VIN detection once the tool is properly connected to the vehicle's DLC.

8.4 Display/Brightness

This option allows you to set the standby time and screen brightness.

8.5 Sound

This option allows you to adjust the volume and other sound settings.

8.6 Network

This option allows you to set up Wi-Fi networks that can be connected.

8.7 Date/Time

This option allows you to set the system date & time.

8.8 Language

The tool supports multiple languages. You can use this option to set the preferred language.

*Note: After switching the language, please re-download all diagnostic software, otherwise the system will use the English software by default.

8.9 Exipration Date

This option allows you to check the expiration date of the diagnostic software and renew the software subscription.

8.10 Workshop Information

This option can set up the default email address for receiving the diagnostic reports or screenshots.

8.11 Recovery

This option can reset the tool to the default factory setting.

8.12 Clean Up

This option allows user to clear some cache files and free up storage space.

8.13 About

This option displays the hardware configuration information of the tool and the license agreement.

WARNINGS

- Always perform automotive testing in a safe environment.
- DO NOT smoke near the vehicle during testing.
- DO NOT place the diagnostic tool 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.
- DO NOT disassemble the code reader.
- Engine parts will become hot when the engine is running. To prevent severe burns, avoid contact with hot engine parts.
- 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.

CAUTIONS

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

FAQ

Q: System halts when reading the data stream. What is the reason?
A: It may be caused by a slackened connector. Please turn off the tablet, firmly connect the connector, and switch it on again.

Q: Screen flashes at engine ignition start.
A: Normally caused by an electromagnetic disturbance.

Q: There is no response when communicating with the on-board computer.
A: Please confirm the proper voltage of the power supply and check the following:
- Whether the throttle has been closed;
- Whether the transmission is in the proper position;
- Whether the water is the proper temperature.

Q: What to do if the system fails to start auto VIN detection?
A: Please check the following possible causes:
- Whether the tool is properly connected to the vehicle's DLC.
- Whether the "Automatic detection on Connect" switch is OFF. If yes, slide it to ON.

Q: Why are there so many fault codes?
A: Usually it's caused by a poor connection or fault circuit grounding.

Q: How to upgrade the system software?
A:
1. Power the tool on and ensure a stable internet connection.
2. Tap "Settings" on the Home Menu, select "About" -> "Version", and tap "Detect the System Version" to enter the system upgrading page.
3. Follow the on-screen instructions step by step to finish the process. It may take a while to finish the upgrade depending on the internet speed. The tool will automatically restart and enters the Home Menu when the upgrade is finished.

Q: What if the tablet cannot be turned on even after recharging?
A: Please charge the tablet for at least 3 hours until the power LED lights up.

WARRANTY

TOPDON's One Year Limited Warranty

TOPDON warrants to its original purchaser that the company's 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 either repair or replace the defective part or product according to its technical support analysis and confirmation.
TOPDON shall not be liable for any incidental or consequential damages arising from the device's use, misuse, or mounting.
If there is any conflict between the TOPDON warranty policy and local laws, the local laws shall prevail.
This limited warranty is void under the following conditions:

- Misused, disassembled, altered or repaired by unauthorized stores or technicians.
- Careless handling and operation's violation.

Notice: All information in this manual is based on the latest information available at the time of publication and no warranty can be made for its accuracy or completeness. TOPDON reserves the right to make changes at any time without notice.

Compliance Information

FCC ID: 2AVYW-ADPROS

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive 2014/53/EU. The RF frequencies can be used in Europe without restriction.

FCC Warning:

RF Exposure Information (SAR)
This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels. The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid.

IC warning statements:

Specific Absorption Rate (SAR) information: This device meets the government's requirements for exposure to radio waves. The guide lines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

The SAR limit of ISED (Canada) is 1.6 W/kg averaged over one gram of tissue. Device types: Portable _PMN NAME_Professional Diagnostic Tool (IC: 32511-ADPROS) has also been tested against this SAR limit. according to this standard is less than 1.6W/kg w.

Informations sur le débit d'absorption spécifique (DAS) : cet appareil est conforme aux exigences gouvernementales en matière d'exposition aux ondes radio. Les lignes directrices sont basées sur des normes qui ont été élaborées par des organisations scientifiques indépendantes grâce à une évaluation périodique et approfondie d'études scientifiques. Les normes comprennent une marge de sécurité substantielle conçue pour assurer la sécurité de toutes les personnes, quel que soit leur âge ou leur état de santé.

La limite SAR d'ISED (Canada) est de 1,6 W/kg en moyenne sur un gramme de tissu. Types d'appareil : ___ Portable __PMN NAME__ Professional Diagnostic Tool __ (IC : 32511-ADPROS) a également été testé par rapport à cette limite SAR. selon cette norme est inférieure à 1,6 W/kg w.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.