BossComm

User Manual

Easy Touch Diagnostic Scanner

iTouch 880

www.bosscomm.net

Index

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For Services and Support:

service@bosscomm.net
www.bosscomm.net

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Safety Information

For your own safety and the safety of others, and to prevent damage to the device and vehicles upon which it is used, it is important that the safety instructions herein presented throughout this manual be read and understood by all persons operating or coming into contact with the device.

There are various procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the person doing the work. Because of the vast number of test applications and variations in the products that can be tested with this equipment, we cannot possibly anticipate or provide advice or safety messages to cover every circumstance.

It is the automotive technician's responsibility to be knowledgeable of the system being tested. It is crucial to use proper service methods and test

procedures. It is essential to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

Before using the device, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the device only as described in this manual. Read, understand, and follow all safety messages and instructions in this manual.

Safety Instructions

The safety messages herein cover situations **BOSSCOMM** is aware of. **BOSSCOMM** cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

Safety Messages

Safety messages are provided to help prevent personal injury and equipment damage. All safety messages are introduced by a signal word indicating the hazard level.

SAFETY WARNINGS:

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area, for exhaust gases are poisonous.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.

- Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.

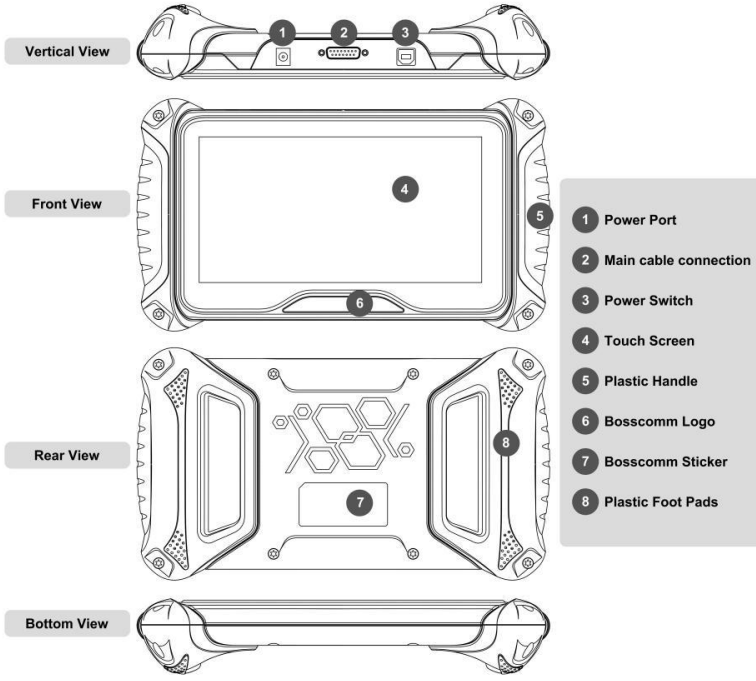
Chapter 1 General Introduction

The I-Touch 880 series diagnostic scanner is an evolutionary smart solution for specialized automotive diagnosis.

Utilizing the powerful processor, and an 8“ touch screen, combined with the best possible coverage of OE-level diagnostics, and based on the revolutionary multitask-capable Android Operating system, the I-Touch 880 series diagnostic scanner organizes information with test instrumentation to help you diagnose symptoms, codes, and customer complaints easily, quickly and efficiently.

This manual describes the construction and operation of these devices and how they work together to deliver diagnostic solutions.

1.1 Layout for I-Touch 880 series scanner Main Unit

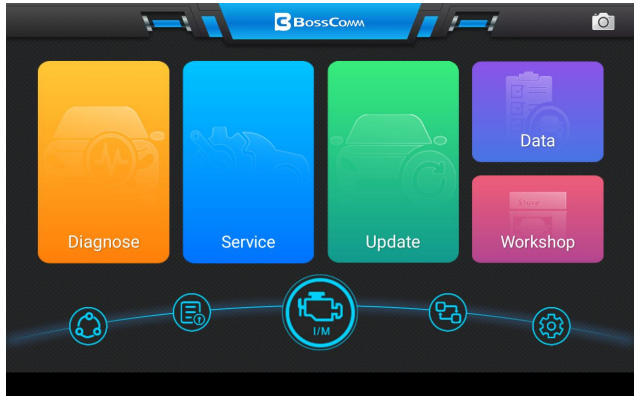


1.2 Technical Parameter

No.	Description	Features and Functions
1	Operating System	Android 10
2	Display	8 inch TFT-LCD with 1280x800 resolution & capacitive touch screen
3	Memory	2GB RAM & 16GB On-board Memory
4	Connectivity	Wi-Fi (802.11 b/g/n), DB16 DLC
5	Input Voltage	DC/12V (9-18 V)
6	Operating Temp	0 to 55°C (32 to 131°F)
7	Storage Temp	-20 to 60°C (-4 to 140°F)

Chapter 2 Get Ready before Diagnosis

Press the power switch on the top right side of the display tablet to switch the unit on. The system boots up and shows the screen with the I-Touch 880 series diagnostic scanner Job Menu as below.

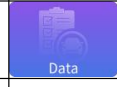


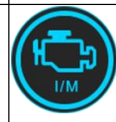
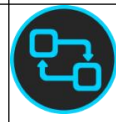
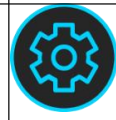
Almost all operations on the display tablet are controlled through the touch screen. The touch screen navigation is menu driven, which allows you to quickly locate the test procedure, or data that you need, through a series of choices and questions. Detailed descriptions of the menu structures are found in the chapters for the various applications.

The Diagnostics application allows you to retrieve diagnostic information, view live data parameters, and perform active tests. The Diagnostics application can access the electronic control module (ECM) for various vehicle control systems, such as engine, transmission, anti-lock brake system (ABS), airbag system (SRS) and more.

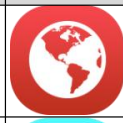
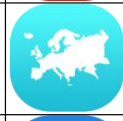
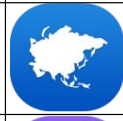
2.1 Application Buttons on Job menu

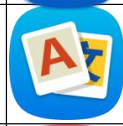
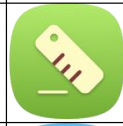
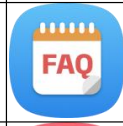
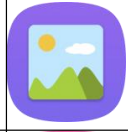
The Application buttons configure the I-Touch 880 series diagnostic scanner for the type of operation or activity to be performed.

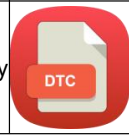
Name	Button	Description
Diagnosis		To access specific diagnosis function directly base on selection of the areas as well as the car makes.
Service		To provide common use service resets for the professional workshop repairs.
Update		To access online software update for full coverage. Internet update via Wi-Fi.
Data		To access some live data recorded or the screenshot saved during the car diagnosis.
Workshop		Multitask session for an organizing and management of operations and data from your workshop. Developed to save data files, customer information on vehicle and related identifiers.
Support		To provide a large database of repairs, diagnostic tips and procedures for some professional technicians with FAQ, Learning help and Maintenance help.

Feedback		Interactive sessions of data that allows direct contact between technical support and the clients for quick problem solving as well as the diagnostic errors.
OBDII Diagnosis		10 modes of OBDII test for cars after1996 and newer including read/erase codes, view live data, view freeze frame data, view I/M readiness, O2 monitor test, on-board monitor test etc.
Remote Desk		On-tool real-time remotely tech support allows rapid and accurate solution or means of a simple data transfer between the device and the support specialist.
Setting		To provide the diagnostic scanner system setting, including Language setting, logging setting, unit setting.

2.2 Application Buttons for Car Diagnostic

Name	Button	Description
All		Displays all the vehicle makes in the vehicle menu.
Europe		Displays the European vehicle menu. Including BMW, Alfa, Jaguar, Land Rover, Fiat, Ford, Citroen, Mercedes-Benz, Volkswagen, Audi, Volvo, Renault, etc.
Asia		Displays the Asian vehicle menu. Including Toyota, Lexus, Honda, Acura, Nissan, Infiniti, Mitsubishi, Daewoo, Mazda, Hyundai, Kia, Isuzu, Suzuki, etc.
USA		Displays the USA vehicle menu. Including GM, Chrysler, Ford

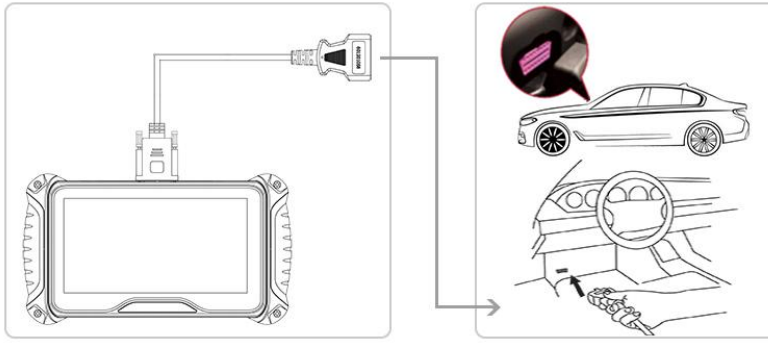
About		To display the diagnostic tool information including the software version, model hardware version, and the serial number etc.
Multi-language		Over 16 languages available such as English, Russian, Korean, Hungarian, Polish, Portuguese, Japanese, Dutch, German, Italian, French, Spanish, Turkish etc
Logging		Two options for Logging On and Logging OFF with the slide button. [Logging ON] must be set if the client wants to record the live data, otherwise the client cannot send logging files.
Unit		To provide two options for the unit of live data: Metric Unit and English Unit.
FAQ		The FAQ section provides comprehensive references for questions frequently asked and answered about the use of diagnostic scan tool, update procedures etc.
Workshop Information		Workshop Information
Customer Management		Customer Management
Screen Capture		Screen Capture
Image View		Image View To view the image captured by screenshot with JPG format
PDF View		PDF View To view all files of saved in the workshop with PDF format.

Datastream		Datastream To view datastream and playback the recorded data frames.
DTC Library		To list the DTC definition. P: powerstrain system B: body system C: chassis system U: network or data transmission system

Chapter 3 To Start a New Test

3.1 Vehicle Connection

Connect the OBD-II main cable to the vehicle diagnostic socket, which is generally located under the vehicle dash.

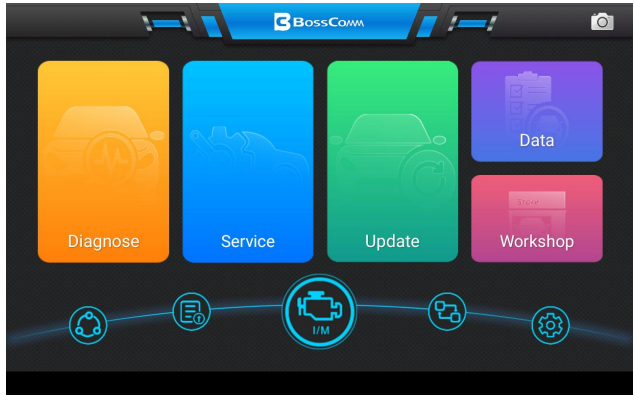


No.	Description	Features and Functions
1	Main Cable	To connect the main unit and diagnostic socket
2	Main Unit	To communicate with vehicle and display the diagnostic result
3	Diagnostic Socket	Socket location varies base on different car makes/models

3.2 Vehicle Selection

When the I-Touch 880 series diagnostic scanner main unit is properly connected to the vehicle, click **[Diagnose]** button from the Job Menu

directly. The screen then displays all options territory areas including ALL, AMERICAN, ASIAN, EUROPEAN and CHINA on the left and the vehicle coverage on the right.

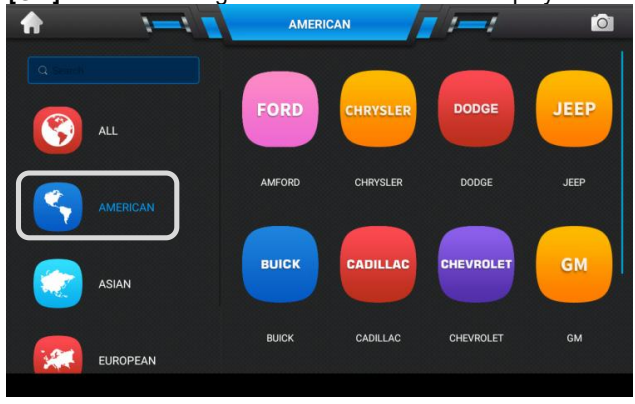


3.3 Automatic selection

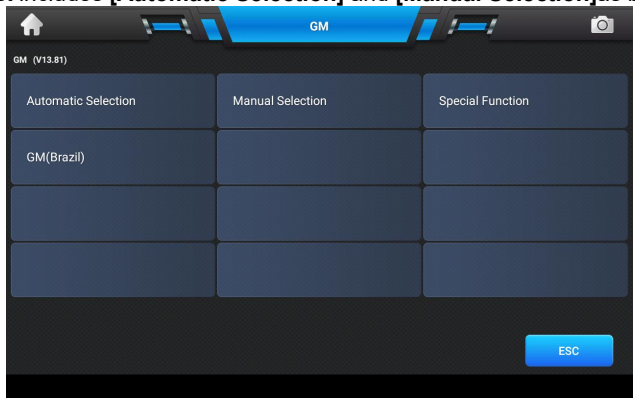
The I-Touch 880 series diagnostic scanner features the latest VIN-based Auto VIN Scan function to identify CAN vehicles in just one touch, which allows the technician to quickly detect vehicles, scan all the diagnosable ECUs on every vehicle and run diagnostics on the selected system.

3.3.1 To perform Auto VIN Scan

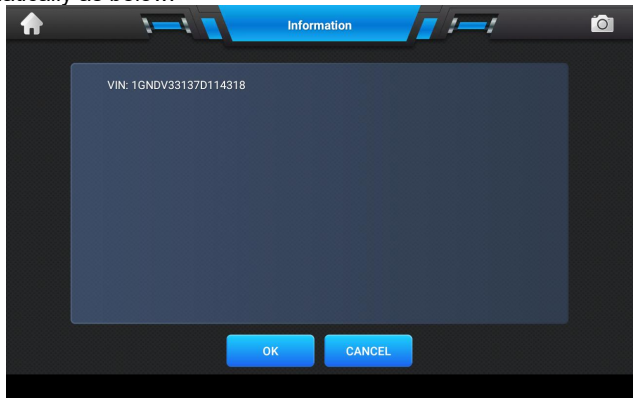
Take GM Chevrolet MPV 2007 as example. Select **[GM]** from **[AMERICAN]** or input **[GM]** in the searching area. The screen will be displayed as below:



The list includes **[Automatic Selection]** and **[Manual Selection]**as below:



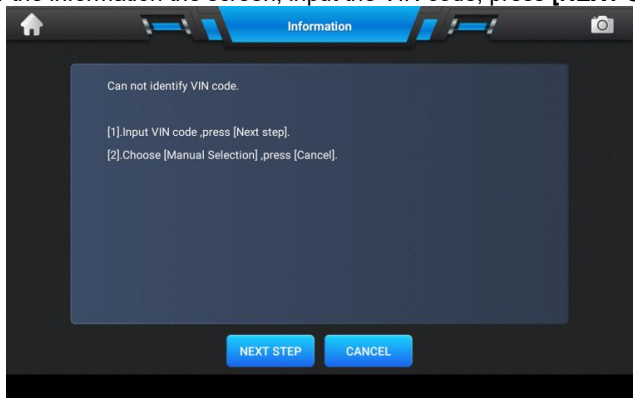
Tap **[Automatic Selection]** from above, the screen displays the VIN automatically as below:



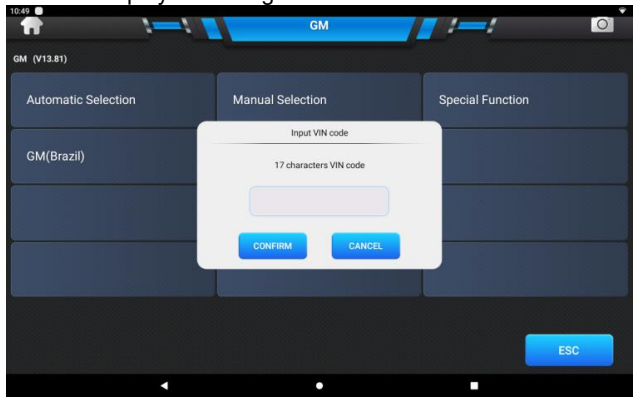
3.3.2 VIN code input via virtual keyboard

For some vehicles, the system cannot perform the Auto VIN scan. In case the I-Touch 880 series diagnostic scanner provides an option for vehicle VIN scan allowing users to input the VIN manually.

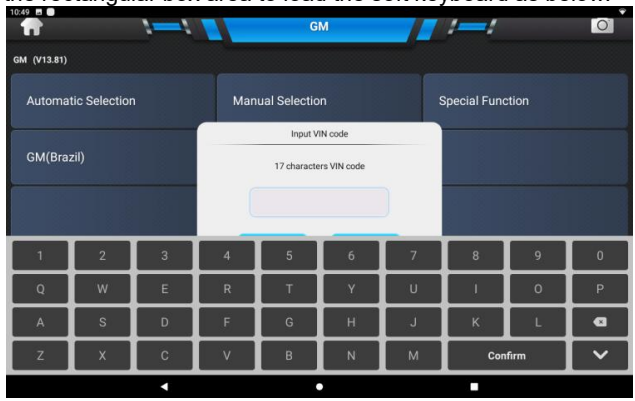
Follow the information the screen, input the VIN code, press **[NEXT STEP]**:



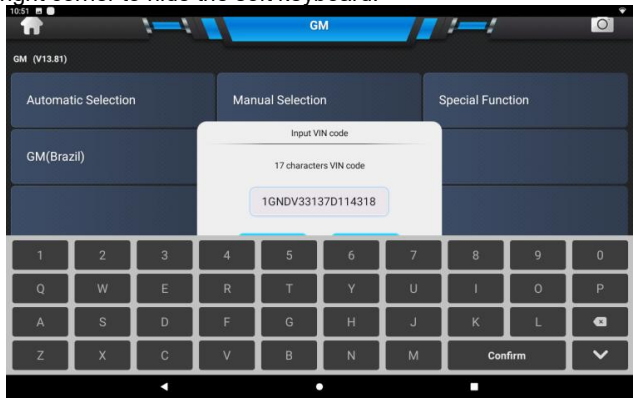
The screen will display the dialog box as below:



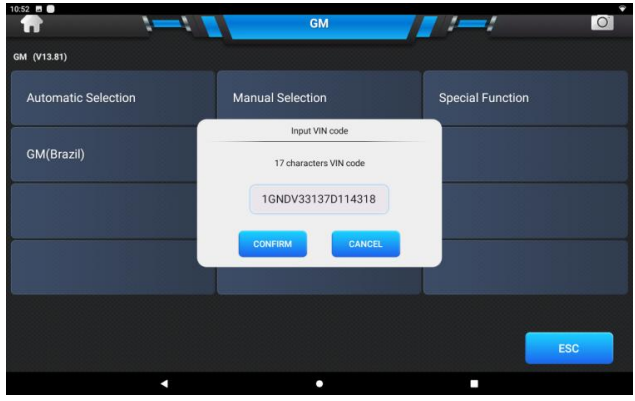
Press the rectangular box area to load the soft keyboard as below:



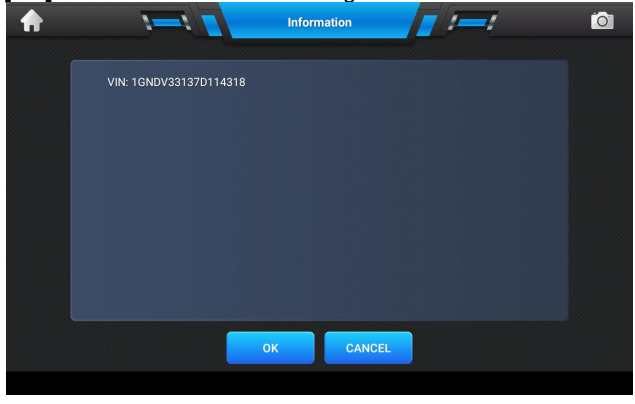
Input the VIN code, and press **[Confirm]** or the down arrow **[v]** on the lower right corner to hide the soft keyboard.



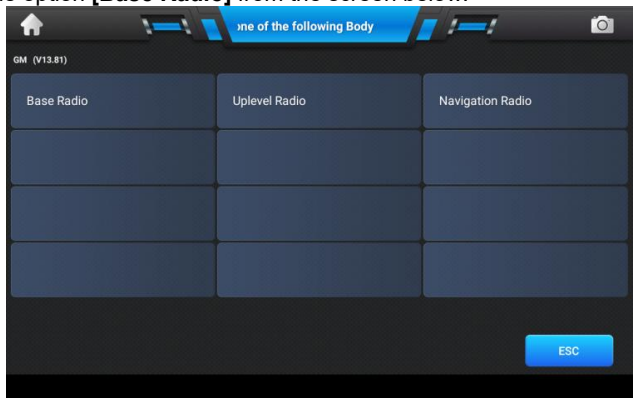
Press the blue button of **[CONFIRM]** after input the VIN code from the screen as below:



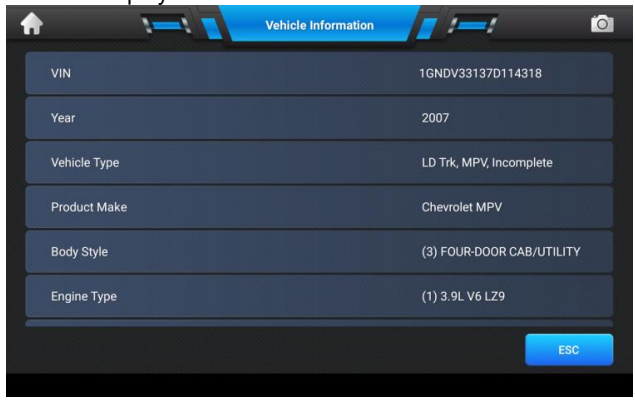
Press **[OK]** to continue the further testing from the screen below:



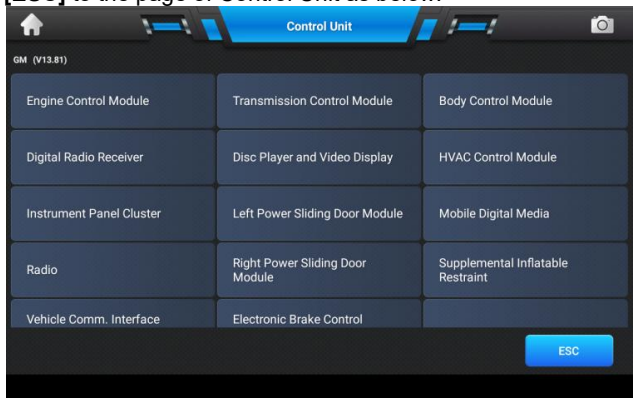
Tap the option **[Base Radio]** from the screen below:



The screen will display the vehicle information details as below:



Press **[ESC]** to the page of Control Unit as below:



3.4 Manual Selection

The I-Touch 880 series diagnostic scanner also provides manual selection (system selection) for some vehicles.

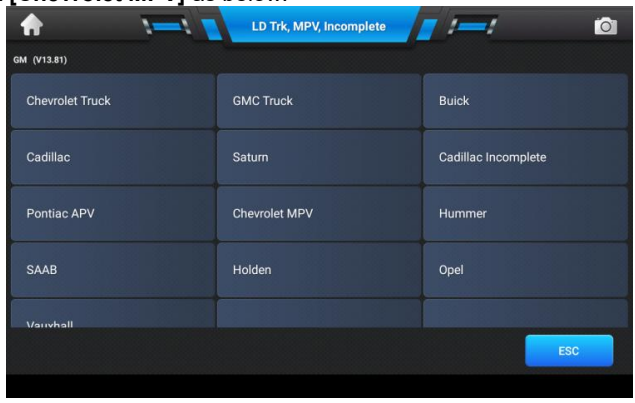
Followed the screen display as below and press the **[Manual Selection]**:

Take 2007 GM Chevrolet MPV as an example to start the testing:

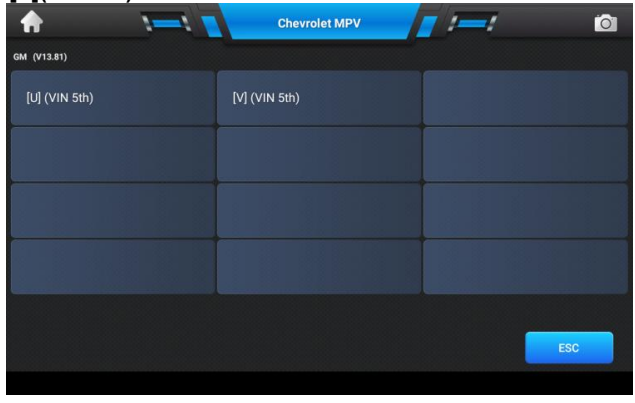
The vehicle will be identified in a few seconds, and once the matching is successful, the system will guide you the vehicle diagnostics screen directly.

Select **[LD Trk, MPV, Incomplete]**as below:

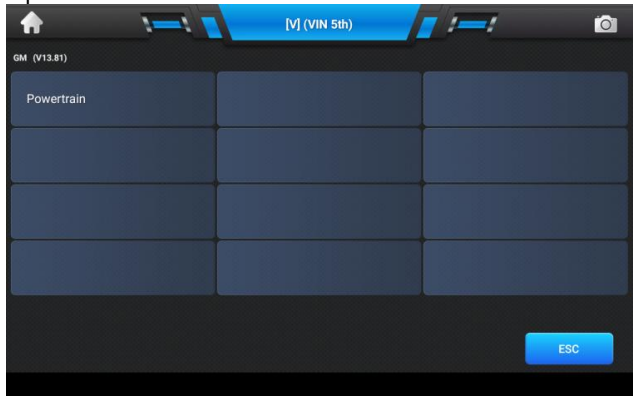
Select **[Chevrolet MPV]** as below:



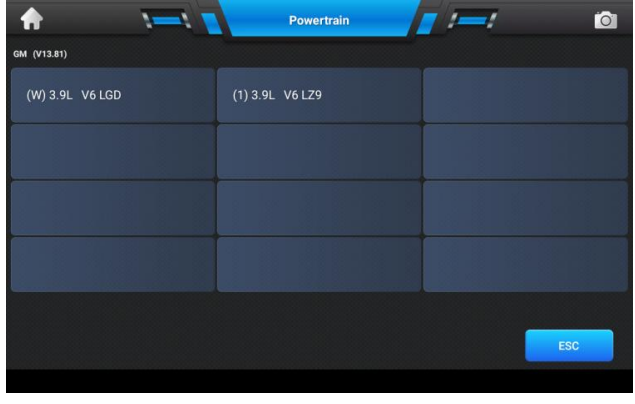
Select **[V](VIN 5th)** as below:



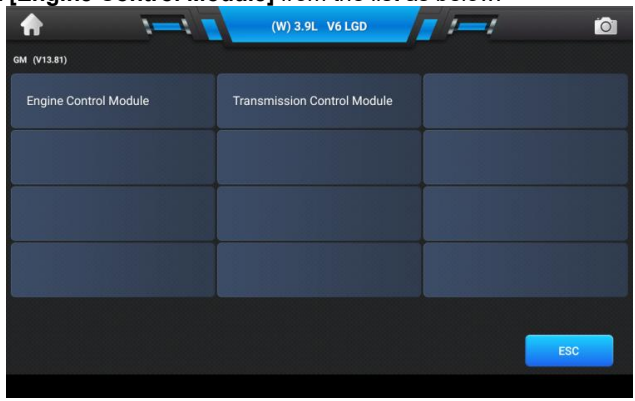
Select the testing system required from the list below. Take **[Powertrain]** as example as below:



Select **[(W)3.9L V6LGD]** from the list as below:

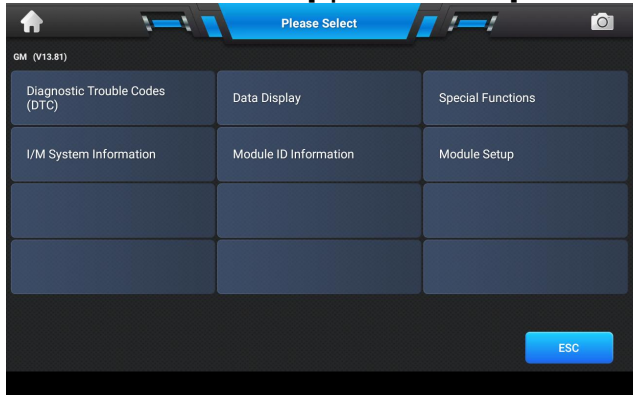


Select **[Engine Control Module]** from the list as below:

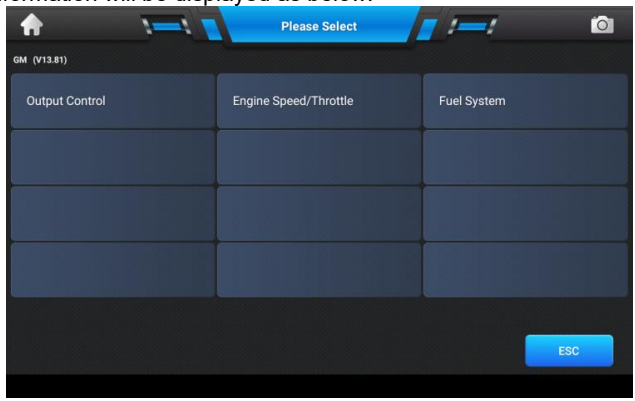


3.5 Special Functions

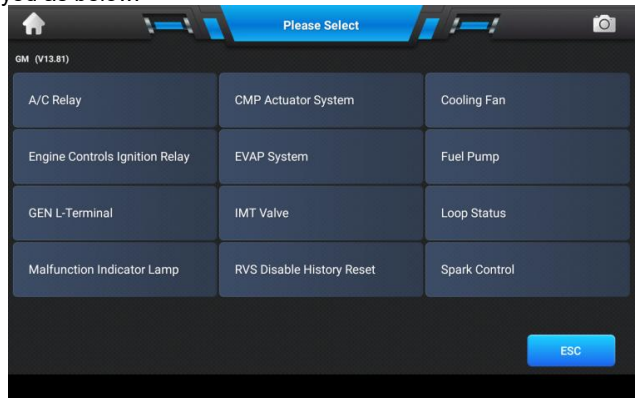
Followed the screen below to select **[Special Functions]** from the listing:



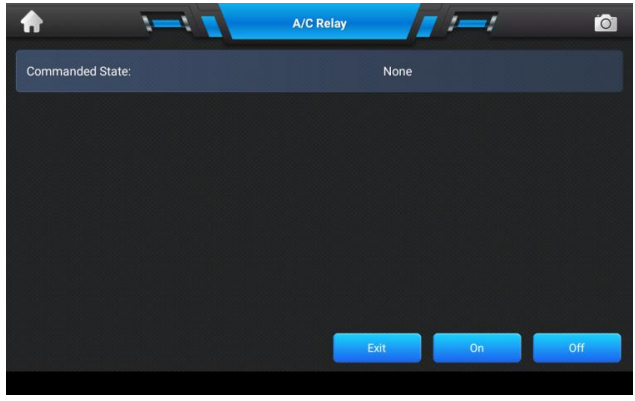
The information will be displayed as below:



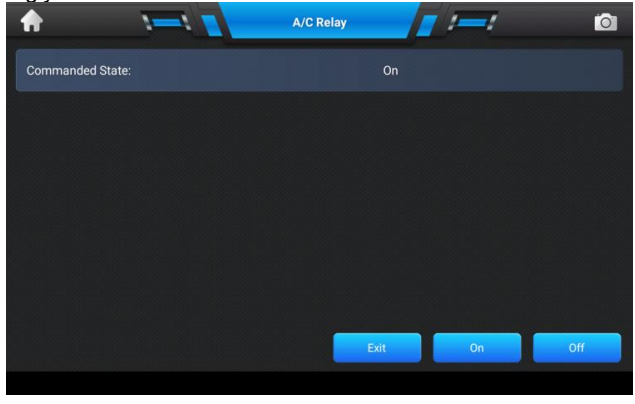
Click **[Output Control]** from the above screen, the information will be displayed as below:

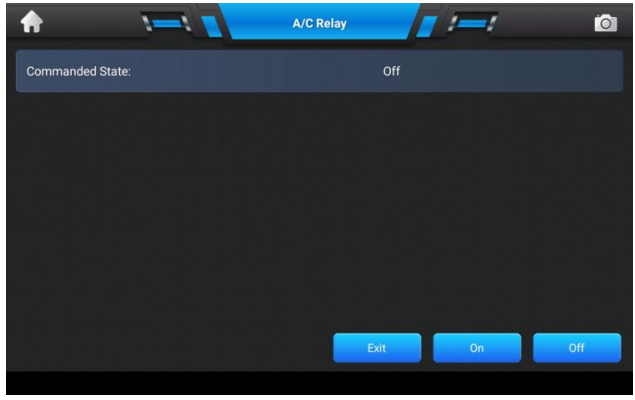


Click **[A/C Relay]** from the above screen, the information will be displayed as below:



Press the button of **[On]** or **[Off]** to start the special testing of A/C Relay accordingly.

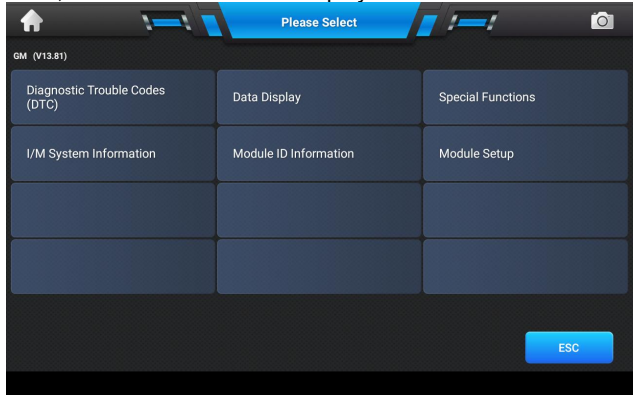




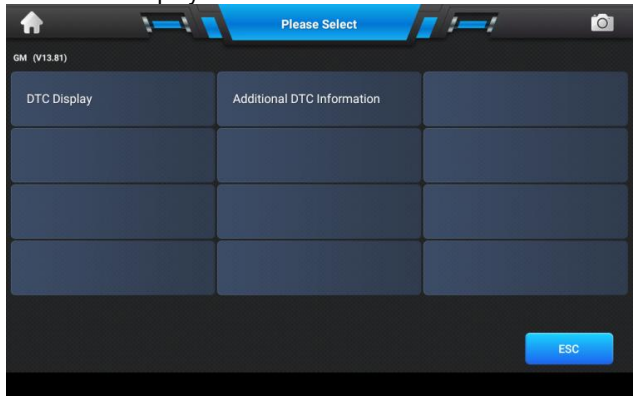
Press **[Exit]** to the previous menu.

3.6 Read Trouble Codes (DTC)

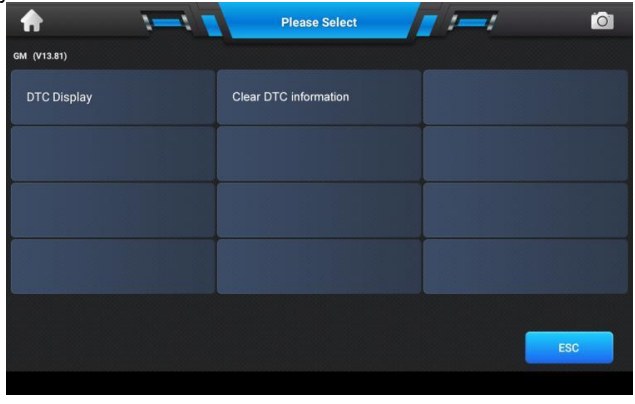
Followed the screen mentioned above, tap the **[Engine Control Module]** from the list, the information will be displayed as below:



Tap the **[Diagnostic Trouble Codes (DTC)]** from above screen, the information will be displayed as below:



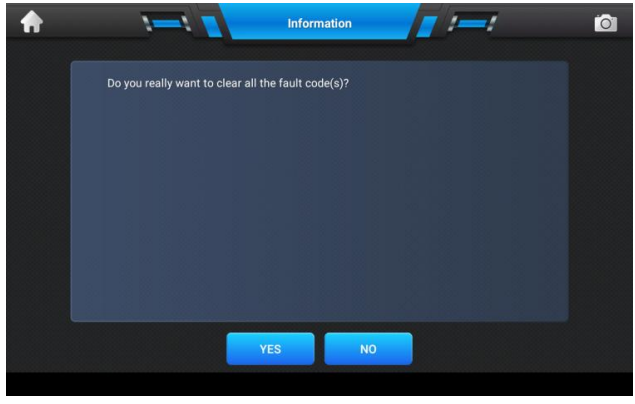
Tap the item **[DTC Display]** from above screen, the information will be displayed as below:



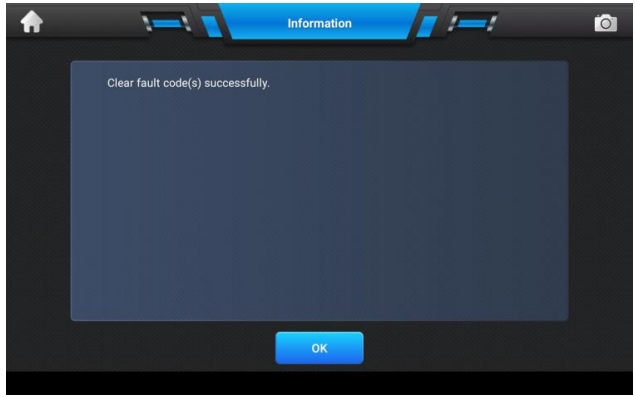
Tap **[DTC Display]** again from the above screen, the information will be displayed as below:

3.7 Clear Trouble Codes (DTC)

Tap **[Clear DTC Information]** from the menu, the screen will display as below:

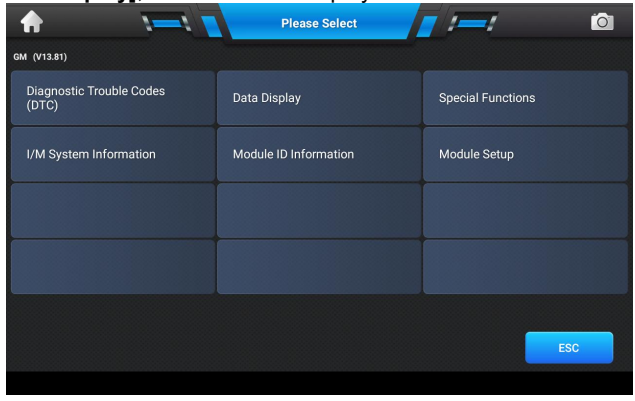


The fault code are cleared as below:

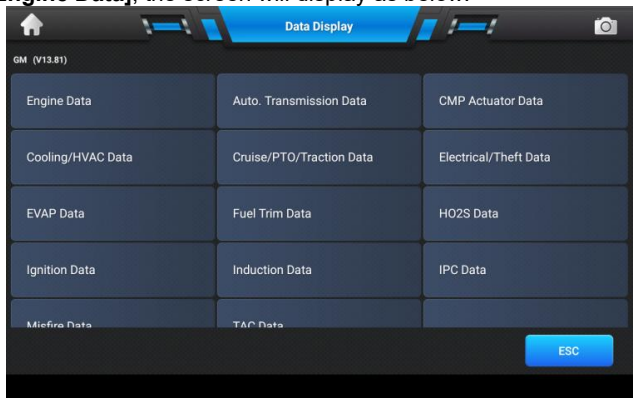


3.8 Data Display

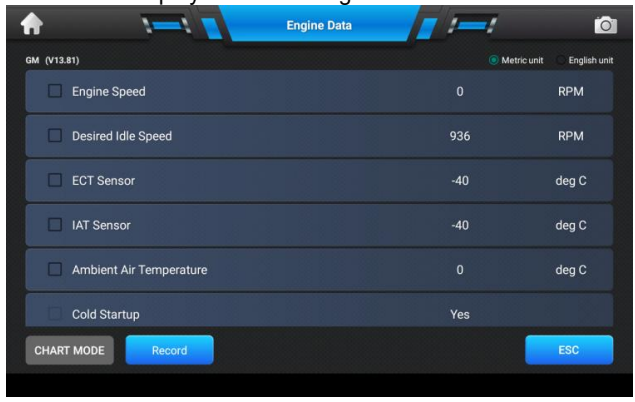
Tap **[Data Display]**, the screen will display as below:



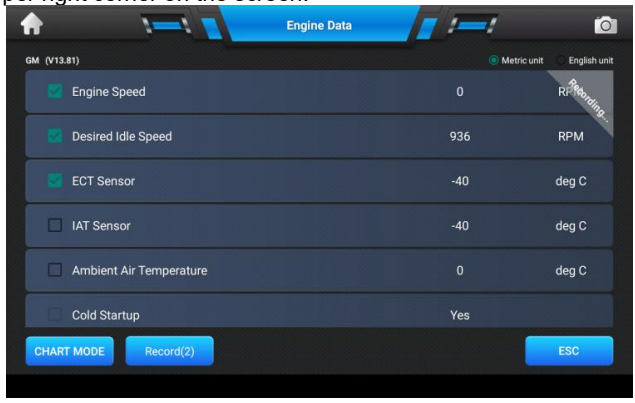
Tap **[Engine Data]**, the screen will display as below:



The screen will be displayed as following:

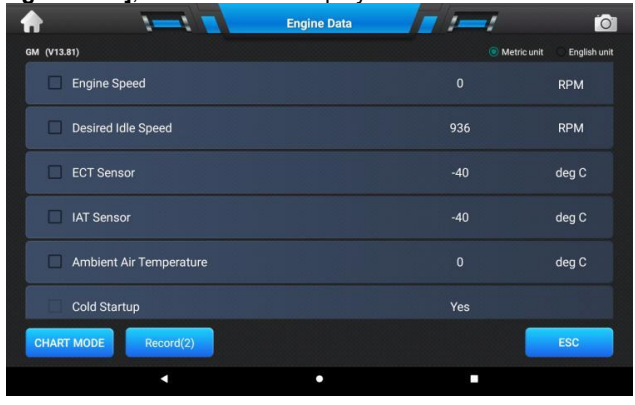


Tick the items from the listing as below and press the button **[Record]**, the system will start the data recording. The icon of recording will be shown on the upper right corner on the screen:



Press the button **[CHART MODE]** to show the data in graphic or press the button **[TEXT]** to show the data in text.

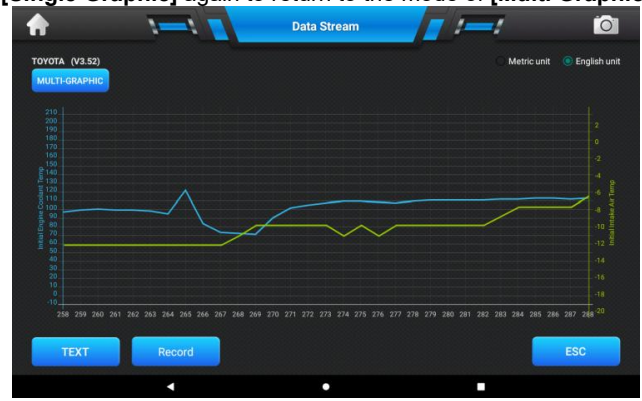
Tap **[Engine Data]**, the screen will display as below:



Select the check box in front of the item as below:

Press the **[Multi Graphic]** in order to show curve as **[Single Graphic]**:

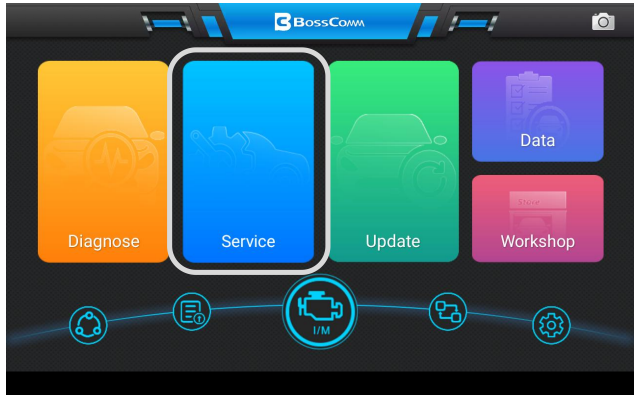
Click **[Single Graphic]** again to return to the mode of **[Multi Graphic]**.

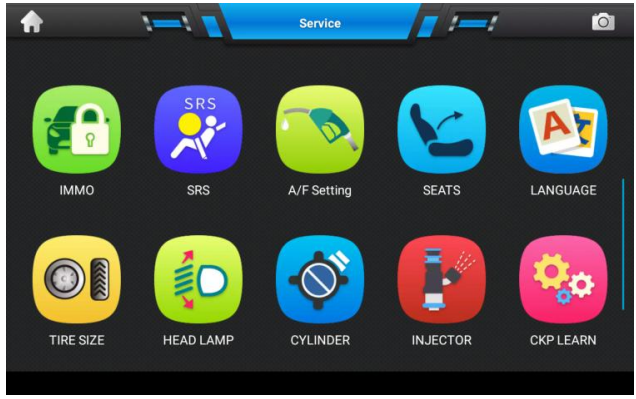


Chapter 4 Service Operation

The Service section is specially designed to provide you with quick access to the vehicle systems. There are two methods to reset service lamp: 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.

Following the diagnostic function, click the button **[Service]** from the menu as below:





The most commonly performed service functions include:
Oil Reset Service
Electronic Parking Brake Reset
Steering Angle Calibration
ABS Bleeding
TPMS (Tire Pressure Monitor System) Reset
Gear Learning
IMMO Service
Injector Coding
Battery Maintenance System
Diesel Particulate Filter (DPF) Regeneration
Electronic Throttle Position Reset

Oil Reset Service

This function allows you to perform reset for the engine oil life system, which calculates an optimal oil life change interval depending on the vehicle driving conditions and climate.

This function can be performed in the following cases:
1. If the service lamp is on, you must provide service for the car. After service, you need to reset the driving mileage or driving time so that the service lamp turns off and the system enables the new service cycle.
2. After changing engine oil or electric appliances that monitor oil life, you need to reset the service lamp.

Electronic Parking Brake Reset

1. If the brake pad wears the brake pad sense line, the brake pad sense line sends a signal sense line to the on-board computer to replace the brake pad. After replacing the brake pad, you must reset the brake pad. Otherwise, the car alarms.

2. Reset must be performed in the following cases:
a) The brake pad and brake pad wear sensor are replaced.
b) The brake pad indicator lamp is on.
c) The brake pad sensor circuit is short, which is recovered.
d) The servo motor is replaced.

Steering Angle Calibration

To reset the steering angle, first find the relative zero point position for the car to drive in straight line. Taking this position as reference, the ECU can calculate the accurate angle for left and right steering.

After replacing the steering angle position sensor, replacing steering mechanical parts (such as steering gearbox, steering column, end tie rod, steering knuckle), performing four-wheel alignment, or recovering car body, you must reset the steering angle.

ABS Bleeding

This function allows you to perform various bi-directional tests to check the operating conditions of Anti-lock Braking System (ABS).

1. When the ABS contains air, the ABS bleeding function must be performed to bleed the brake system to restore ABS brake sensitivity.
2. If the ABS computer, ABS pump, brake master cylinder, brake cylinder, brake line, or brake fluid is replaced, the ABS bleeding function must be performed to bleed the ABS.

Tire Pressure Monitor System Reset

This function allows you to quickly look up the tire sensor IDs from the vehicle's ECU, as well as to perform TPMS replacement and sensor test.

1. After the tire pressure MIL turns on and maintenance is performed, the tire pressure resetting function must be performed to reset tire pressure and turn off the tire pressure MIL.
2. Tire pressure resetting must be performed after maintenance is performed in the following cases: tire pressure is too low, tire leaks, tire pressure

monitoring device is replaced or installed, tire is replaced, tire pressure sensor is damaged, and tire is replaced for the car with tire pressure monitoring function.

Gear Learning

The crankshaft position sensor learns crankshaft tooth machining tolerance and saves to the computer to more accurately diagnose engine misfires.

If tooth learning is not performed for a car equipped with Delphi engine, the MIL turns on after the engine is started. The diagnostic device detects the DTC P1336 'tooth not learned'. In this case, you must use the diagnostic device to perform tooth learning for the car.

After tooth learning is successful, the MIL turns off. After the engine ECU, crankshaft position sensor, or crankshaft flywheel is replaced, or the DTC 'tooth not learned' is present, tooth learning must be performed.

IMMO Service

An immobilizer is an anti-theft mechanism that prevents a vehicle's engine from starting unless the correct ignition key or other device is present. Most new vehicles have an immobilizer as standard equipment. An important advantage of this system is that it doesn't require the car owner to activate it since it operates automatically.
An immobilizer is considered as providing much more effective anti-theft protection than an audible alarm alone. As an anti-theft device, an immobilizer disables one of the systems needed to start a car's engine, usually the ignition or the fuel supply.

This is accomplished by radio frequency identification between a transponder in the ignition key and a device called a radio frequency reader in the steering column. When the key is placed in the ignition, the transponder sends a signal with a unique identification code to the reader, which relays it to a receiver in the vehicle's computer control module.
If the code is correct, the computer allows the fuel supply and ignition systems to operate and start the car. If the code is incorrect or absent, the computer disables the system, and the car will be unable to start until the correct key is placed in the ignition.

To prevent the car being used by unauthorized keys, the anti-theft key matching function must be performed so that the immobilizer control system on the car identifies and authorizes remote control keys to normally use the car.

When the ignition switch key, ignition switch, combined instrument panel, ECU, BCM, or remote control battery is replaced, anti-theft key matching must be performed.

Injector Coding

Write injector actual code or rewrite code in the ECU to the injector code of the corresponding cylinder so as to more accurately control or correct cylinder injection quantity. After the ECU or injector is replaced, injector code of each cylinder must be confirmed or re-coded so that the cylinder can better identify injectors to accurately control fuel injection.

Battery Maintenance System Reset

This function enables you to perform a resetting operation on the monitoring unit of vehicle battery, in which the original low battery fault information will be cleared and battery matching will be done.

Battery matching must be performed in the following cases:
a) Main battery is replaced. Battery matching must be performed to clear original low battery information and prevent the related control module from detecting false information. If the related control module detects false information, it will invalidate some electric auxiliary functions, such as automatic start & stop function, sunroof without one-key trigger function, power window without automatic function.

b) Battery monitoring sensor. Battery matching is performed to re-match the control module and motoring sensor to detect battery power usage more accurately, which can avoid an error message displaying on the instrument panel.

Diesel Particulate Filter (DPF) Regeneration

DPF regeneration is used to clear PM (Particulate Matter) from the DPF filter through continuous combustion oxidation mode (such as high temperature heating combustion, fuel additive or catalyst reduce PM ignition combustion) to stabilize the filter performance.

DPF regeneration may be performed in the following cases:
a) The exhaust back pressure sensor is replaced.
b) The PM trap is removed or replaced.
c) The fuel additive nozzle is removed or replaced.
d) The catalytic oxidizer is removed or replaced.
e) The DPF regeneration MIL is on and maintenance is performed.
f) The DPF regeneration control module is replaced.

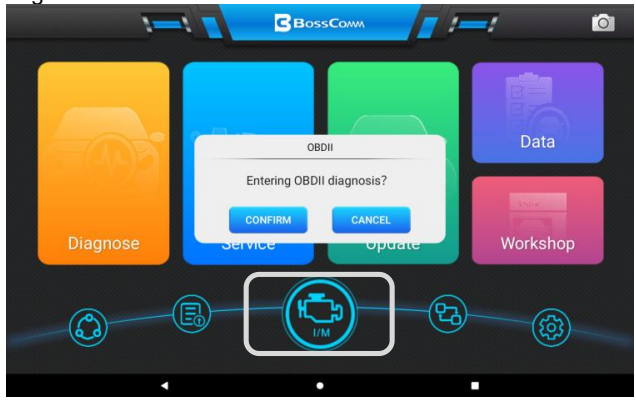
Electronic Throttle Position Reset

This function enables you to make initial settings to throttle actuators and returns the “learned” values stored on ECU to the default state.
Doing so can accurately control the actions of regulating throttle (or idle engine) to adjust the amount of air intake.

Chapter 5 OBDII Operation

A fast-access option for OBD II/EOBD vehicle diagnosis is available on the Vehicle Menu screen. This option presents a quick way to check for DTCs, isolate the cause of an illuminated malfunction indicator lamp (MIL), check monitor status prior to emissions certification testing, verify repairs, and perform a number of other services that are emissions-related.
The OBDII direct access option is also used for testing OBD II/EOBD compliant vehicles that are not included in the Diagnostics database.

Tap the round big button as below, the system will ask you whether to enter OBDII diagnosis?



Stored Codes

Stored codes are the current emission related DTCs from the ECM of the vehicle. OBD II/EOBD Codes have a priority according to their emission severity, with higher priority codes overwriting lower priority codes. The priority of the code determines the illumination of the MIL and the codes erase procedure. Manufacturers rank codes differently, so expect to see differences between makes.

Pending Codes

These are codes whose setting conditions were met during the last drive cycle, but need to be met on two or more consecutive drive cycles before the DTC actually sets. The intended use of this service is to assist the service technician after a vehicle repair and after clearing diagnostic information, by reporting test results after a single driving cycle.

1) If a test failed during the driving cycle, the DTC associated with that test is reported. If the pending fault does not occur again within 40 to 80 warm-up cycles, the fault is automatically cleared from memory.

2) Test results reported by this service do not necessarily indicate a faulty component or system. If test results indicate another failure after additional driving, then a DTC is set to indicate a faulty component or system, and the MIL is illuminated.

Freeze Frame

In most cases the stored frame is the last DTC that occurred. Certain DTCs, those that have a greater impact on vehicle emission, have a higher priority. In these cases, the highest priority DTC is the one for which the freeze frame records are retained. Freeze frame data includes a “snapshot” of critical parameter values at the time the DTC is set.

Erase Codes

This option is used to clear all emission related diagnostic data such as, DTCs, freeze frame data and manufacturer specific enhanced data from the vehicle’s ECM, and resets the I/M Readiness Monitor Status for all vehicle monitors to Not Ready or Not Complete status.
A confirmation screen displays when the clear codes option is selected to prevent accidental loss of data. Select **[OK]** on the confirmation screen to continue, or **[Cancel]** to exit.

I/M Readiness

This function is used to check the readiness of the monitoring system. It is an excellent function to use prior to having a vehicle inspected for compliance to a state emissions program. Selecting I/M Readiness opens a submenu with two choices:
Since DTCs Cleared – displays the status of monitors since the last time the DTCs are erased. This Driving Cycle – displays the status of monitors since the beginning of the current drive cycle.

Live Data

This function displays the real time PID data from ECU. Displayed data includes analog inputs and outputs, digital inputs and outputs, and system status information broadcast on the vehicle data stream.

O2 Sensor Monitor

This option allows retrieval and viewing of O2 sensor monitor test results for the most recently performed tests from the vehicle's on-board computer. The O2 Sensor Monitor test function is not supported by vehicles which communicate using a controller area network (CAN).

On-Board Monitor

This option allows you to view the results of On-Board Monitor tests. The tests are useful after servicing /erasing a vehicle's control module memory.

Component Test

This service enables bi-directional control of the ECM so that the diagnostic tool is able to transmit control commands to operate the vehicle systems. This function is useful in determining how well the ECM responds to a command.

Vehicle Information

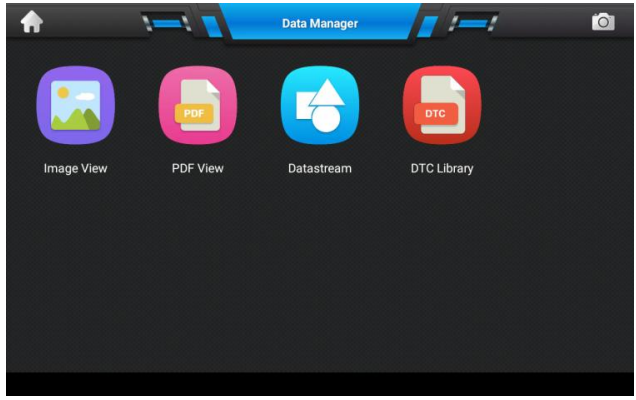
The option displays the vehicle identification number (VIN), the calibration identification, and the calibration verification number (CVN), and other information of the test vehicle.

Vehicle Status

This item is used to check the current condition of the vehicle, including communication protocols of OBD II modules, retrieved codes amount, status of the Malfunction Indicator Light (MIL), and other additional information may be displayed.

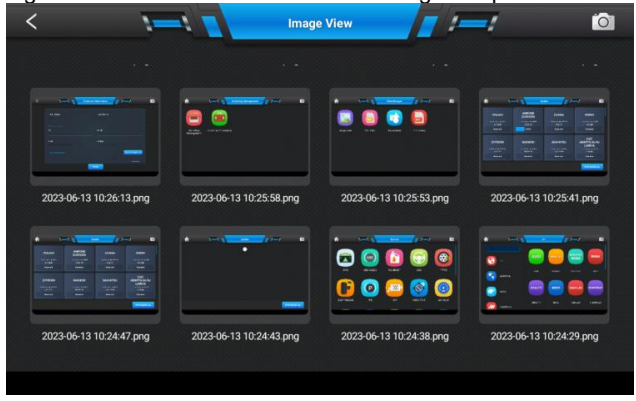
Chapter 6 Data Manager

Data manager operations are based on toolbar controls, details are explained in the following sections. There are three main functions available: Image View, PDF View and Graphic View



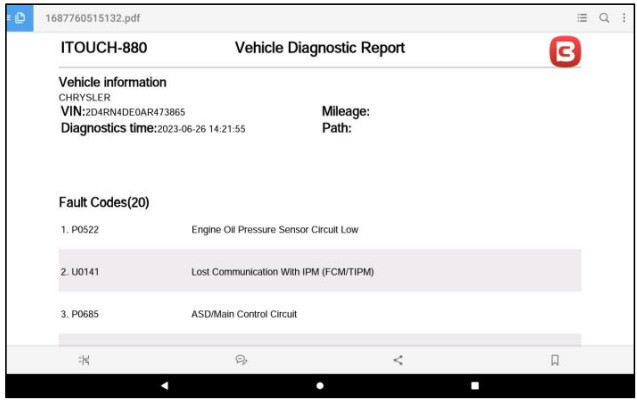
6.1 Image View

The Image section is a JPG database containing all captured screenshot.



6.2 PDF View

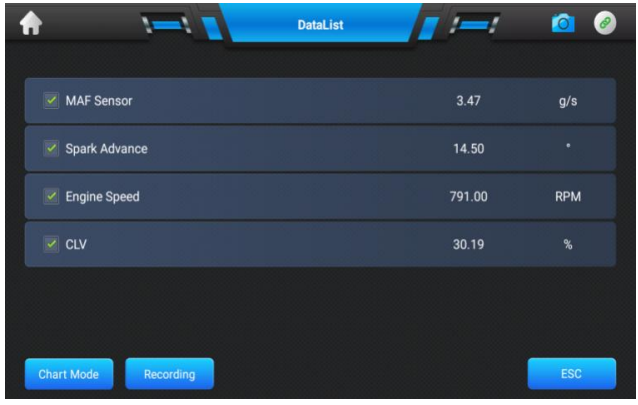
The PDF View stores and displays all PDF files of saved data. These files are the workshop testing reports



6.3 Datastream

The Datastream section allows you to playback the recorded data frames of live data streams.

Click the checkbox in front of the current line to select the data frame.



6.4 DTC Library

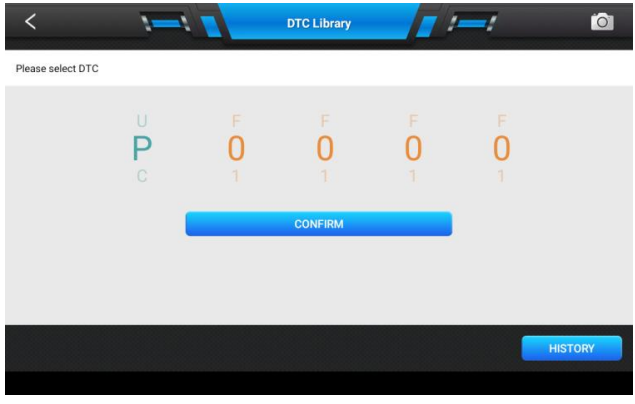
The DTC Library section allows you to list the DTC definition.

P: powerstrain system

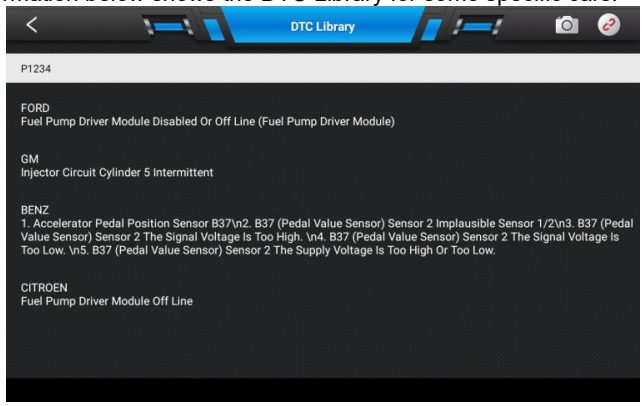
B: body system

C: chassis system

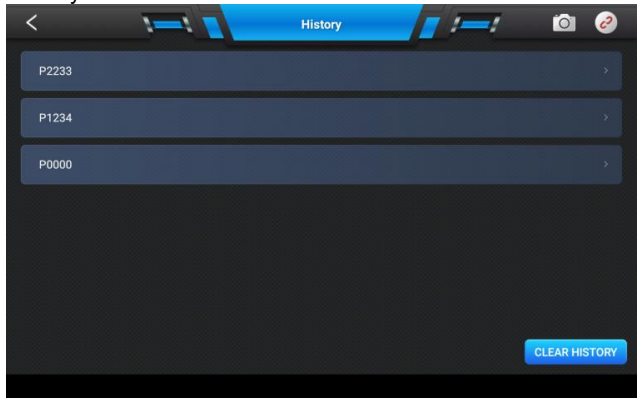
U: network or data transmission system



The information below shows the DTC Library for some specific cars.



The DTC library will show the list as below:



Chapter 7 Settings Operations

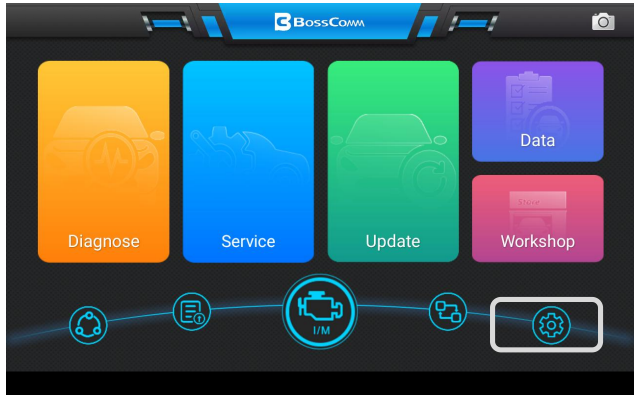
Setting operations are based on toolbar controls, details are explained in the following sections.

There are four main functions available: Language, Logging, Unit.

7.1 Language

This option allows you to adjust the display language for the I-Touch 880 series diagnostic scanner system.

Tap the [Settings] application on the I-Touch 880 series diagnostic scanner Job Menu:

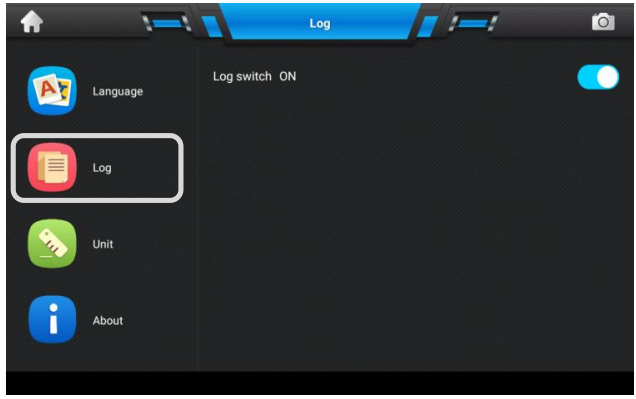


Tap the [Language] option on the left column.

Switch the language according to the demands.

7.2 Logging

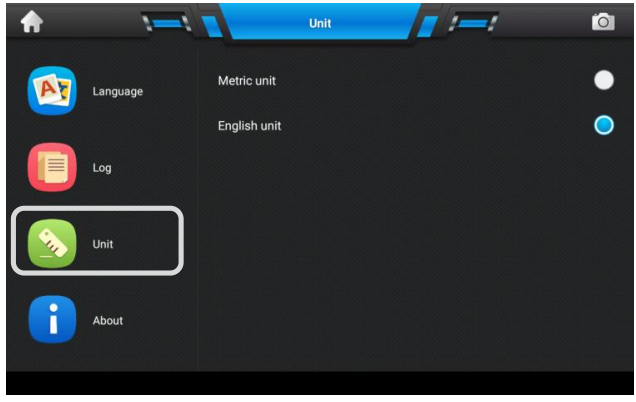
The Logging section allows you to launch Support platform directly to view all records of all sent or unsent (saved) data loggings on the diagnostic system.

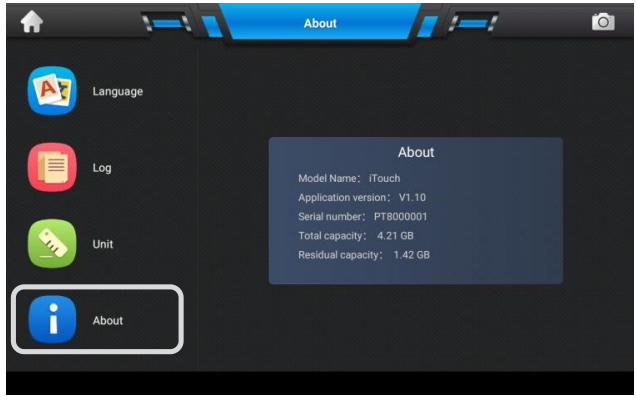


7.3 Unit

It allows you to adjust the measurement unit for the diagnosticsystem.8

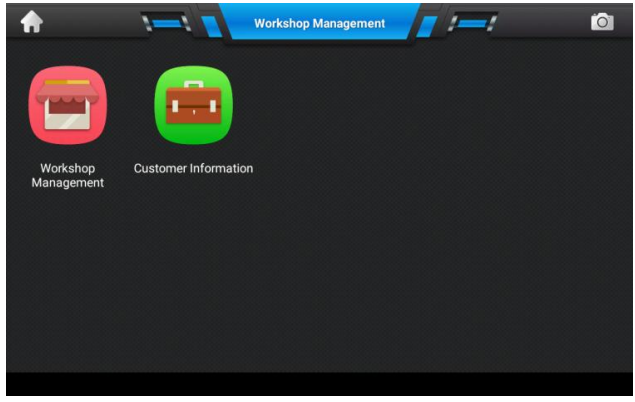
1. Tap the **[Settings]** application on the I-Touch 880 series diagnostic scanner Job Menu.
2. Tap the **[Unit]** option on the left column and click the round button on the right to set the unit.





Chapter 8 Workshop Management

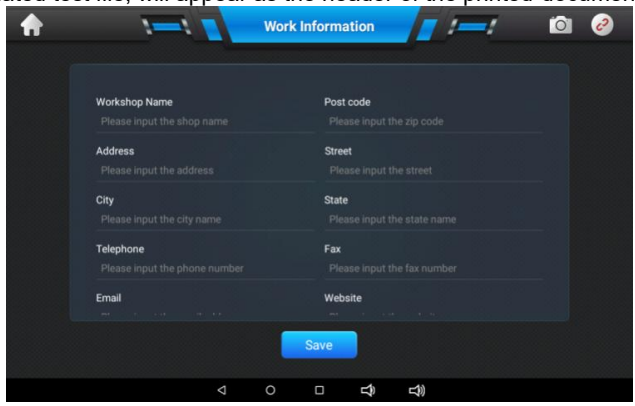
The Workshop Management helps you to manage the workshop information, customer information records, and keep test vehicle history records, which can be a great assist in dealing with daily workshop business and improves customer service. There are two main functions available: Workshop Information and Customer Management.



8.1 Workshop Information

The Workshop Information form allows you to edit, input and save the detailed workshop information, such as shop name, address, phone number etc, which, when printing vehicle diagnostic reports and other

associated test file, will appear as the header of the printed documents.



8.2 Customer Management

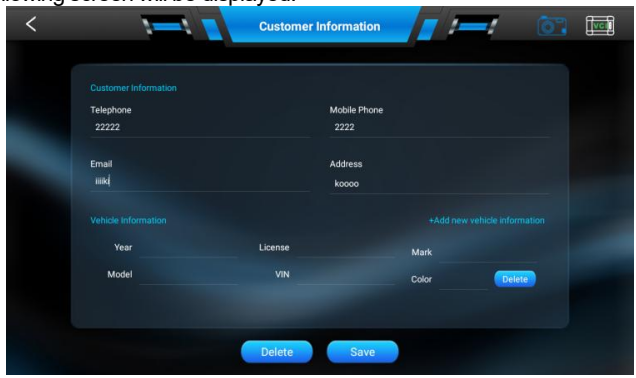
The Customer Management allows you to create and edit customer information. It helps you to organize the associated test vehicle history records and support for the arrangement of daily workshop business.

Select **[Customer Management]**.

1. Tap **[Add+]** to add new customer information and tap the appropriate information on each field.
2. Tap **[SAVE]** to save the customer information.
3. Tap **[+ Add new vehicle information]** to add other car information.
4. Tap **[Delete]** to delete vehicle information
5. Press **[◀]** on the bottom of the screen to exit the Workshop Information.

Press any selected customer information from the menu as below

The following screen will be displayed:

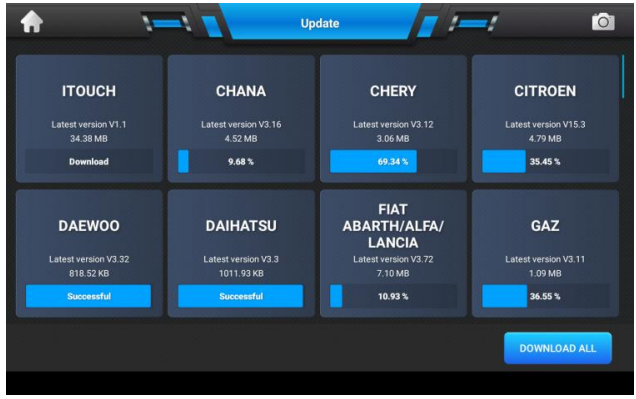


Press **[+Add new vehicle information]** to add another car in the list
Press **[Delete]** on the top to delete the car information.
Press **[Delete]** on the bottom to delete the customer information.
Press **[Save]** on the bottom to save the customer information

Chapter 9 Software Update

9.1 Update Program

The update program includes the display program and different car makes diagnostic software package. For details, please check the picture below:



9.2 How to Update

Make sure the I-Touch 880 series diagnostic scanner is fully charged before the software update and well connected to the Internet by WiFi. Click any car brand from the list above to start the download or you can click the button **[Download All]** to download all software packages once.

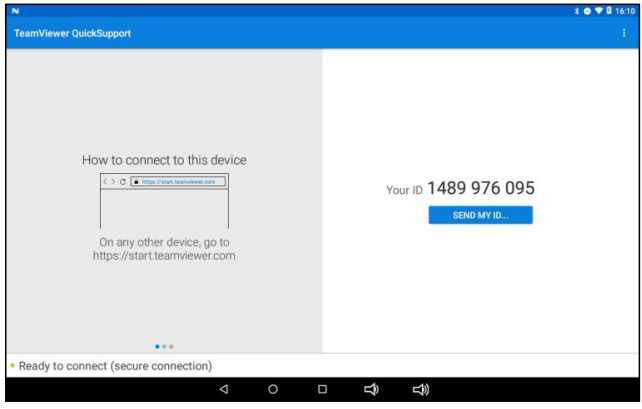
Click the blue downward arrow near the software version to select the required software versions from the screen above.

Chapter 10 Remote Desk Operations

The Remote Desk application launches the TeamViewer Quick Support program, which is a simple, fast and secure remote control interface. You can use the application to receive remote support from BOSSCOMM Tech Support Center, colleagues, or friends, by allowing them to control your I-Touch 880 series diagnostic scanner tablet on their PC via the TeamViewer software.

If you think of a TeamViewer connection as a phone call, the TeamViewer ID would be the phone number under which all TeamViewer Clients can be reached separately. Computers and mobile devices that run TeamViewer are identified by a globally unique ID. The first time the Remote Desk application is started, this ID is generated automatically based on the hardware characteristics and will not change later on.

Make sure the I-Touch 880 series diagnostic scanner is connected to the Internet before launching the Remote Desk application, so that the Display Tablet is accessible to receive remote support from the third party.



Chapter 11 Troubleshooting

When the display tablet does not work properly:

Make sure the tablet has been registered online.
Make sure the system software and diagnostic application software are properly updated.
Make sure the tablet is connected to the Internet.
Check all cables, connections, and indicators to see if the signal is being received.

When battery life is shorter than usual:

This may happen when you are in an area with low signal strength. Turn off your device if is not in use.

When you cannot turn on the tablet:

Make sure the tablet is connected to a power source or the battery is charged.

When you are unable to charge the tablet:

Your charger maybe out of order. Contact your nearest dealer.
You may be attempting to use the device in an overly hot/cold temperature. Try changing the charging environment.
Your device may have not been connected to the charger properly. Check the connector.

NOTE: If your problems persist, please contact **BOSSCOMM** technical support personnel or your local selling agent.

Chapter 12 About Battery Usage

Your tablet is powered by a built-in Lithium-ion Polymer battery. This means that, unlike other forms of battery technology, you can recharge your battery while some charge remains without reducing your tablet's autonomy due to the "battery memory effect" inherent in those technologies.

DANGER:

- The built-in Lithium-ion Polymer battery is factory replaceable only; incorrect replacement or tampering with the battery pack may cause an explosion.
- Do not use a damaged battery charger.
- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, expose to fire, explosion or other hazard.
- Make sure to use the charger and USB cables only that come together in the package. If you use the other charger and USB cables, you might incur malfunction or failure of the device.

- Only use the charging device that has been qualified with device per the standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Avoid dropping the tablet. If the tablet is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- The closer you are to your network's base station, the longer your tablet usage time because less battery power is consumed for the connection.
- The battery recharging time varies depending on the remaining battery capacity.
- Battery life inevitably shortens over time.
- Since over charging may shorten battery life, remove the tablet from its charger once it is fully charged. Unplug the charger, once charging is complete.
- Leaving the tablet in hot or cold places, especially inside a car in summer or winter, may reduce the capacity and life of the battery. Always keep the battery within normal temperatures.

Chapter 13 Service Procedures

This section introduces information for technical support, repair service, and application for replacement or optional parts.

13.1 Repair Service

If it becomes necessary to return your device for repair, please contact BOSSCOMM local dealer for help.

The following information must be included:

- Contact name
- Return address
- Telephone number
- Product name
- Complete description of the problem
- Proof-of-purchase for warranty repairs
- Preferred method of payment for non-warranty repairs

13.2 Other Services

You can purchase the accessories directly from authorized tool suppliers, and/or local distributor or agent.

Your purchase order should include the following information:

- Contact information
- Product or part name
- Item description
- Purchase quantity

Chapter 14 Warranty

Bosscomm Tech Corp (the Company) warrants to the original retail purchaser of this I-Touch 880 series diagnostic scanner Diagnostic Device, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within twelve (12) months period from the date of delivery, such defect(s) will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defect(s).

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the device. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty does not apply to:

a) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
b) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
c) Damage from exposure to excessive temperatures or extreme environmental conditions;
d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts.
f) Products damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

IMPORTANT

All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service

FCC Warning

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

*RF warning for Mobile device:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.