GEELY GIDS

Wireless Automotive Diagnostic System

USER MANUAL

Version 1.0

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The GIDS can only be operated by qualified technicians.

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GIDS User Manual instructions

- Please read this user manual carefully before using the scanner.
- The current user manual is based on the current features and functions available. Any new added features and functions of GIDS will be added to the user manual in the future. Updated versions of user manual will be available to download at SPX website (http://www.servicesolutions.com.cn).
- When reading the manual, please pay special attention to the words “Note”, “Caution” and “Warn”**.** Read them carefully for appropriate operation**.**

GIDS main unit maintenance:

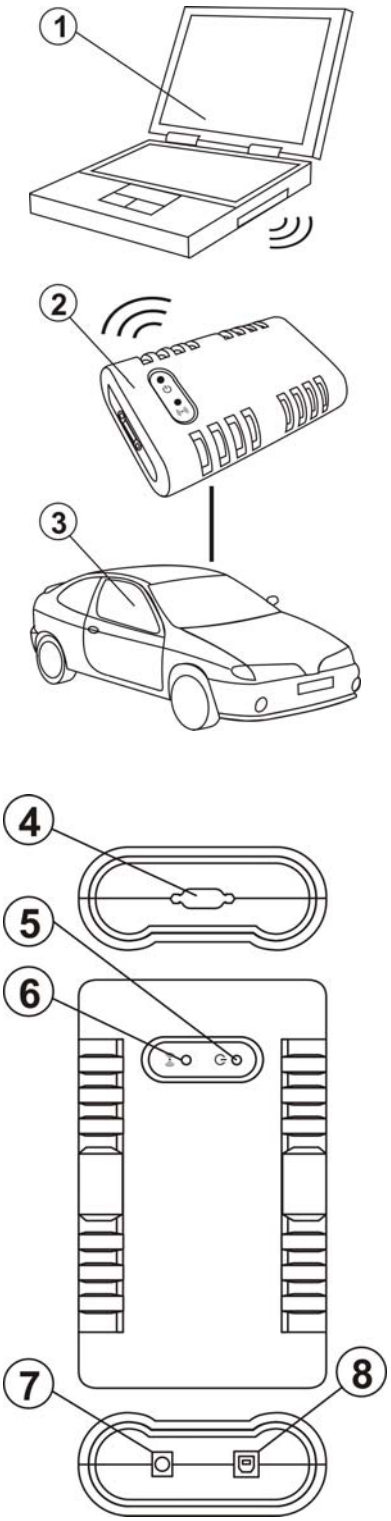
- Avoid shaking or dismantling as it may damage the internal components
- Do not use hard or sharp objects to touch it; do not use excessive force; do not expose the screen to strong sunlight for a long period
- Caution: keep it away from water, moisture, high temperature or very low temperature;
- Keep the main unit away from strong magnetic fields.

Operation Instructions

- For safe operation please follow the instructions below;
- Keep the scanner away from heat or fumes when using it;
- If the vehicle battery contains acid, Please keep your hands and skin or fire sources away from the battery during test
- Exhaust gas of vehicle contains harmful chemicals, please ensure adequate ventilation.
- Do not touch the cooling system components or exhaust manifolds when engine is running to high temperature;
- Make sure the car is securely parked and the selector is at P or N position to prevent the vehicle from moving when engine starts;
- Make sure the diagnostic link connector (DLC) is OK before starting the test; otherwise the scanner may be damaged. SPX suggests you test the Power/Earth with multi-meter first.
- Do not switch off the power or unplug the connectors during testing, otherwise you may damage the ECU or scanner;

CONTENT

1. Introduction



1.1 Function and Feature

- OE level coverage for Geely cars
- Supports Multi-language
- Multi-functions
- Wireless diagnosis operated on PC
- CAN-BUS with high/low speed
- One OBDII connector for all CAN bus systems
- Continuous software update online
- 6-layer electronic circuit board
- Self-check function

1.2 Layout of Main Unit

The main unit layout is as shown in left picture.

① PC/laptop
② GIDS main unit
③ Vehicle (ECU)
④ Main cable port
⑤ Power indicator
⑥ Wireless operation indicator
⑦ Power supply (+12V) port
⑧ USB port

1.3 Technical Parameters

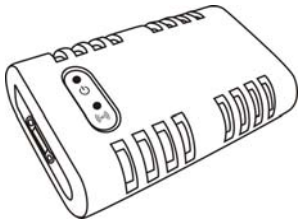
PC configuration

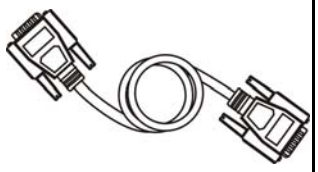
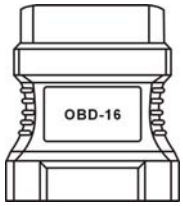
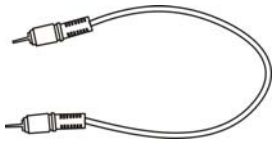
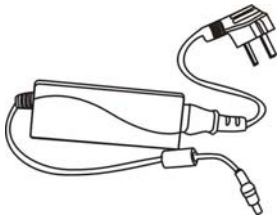
CPU: Pentium 4 (or Celeron R series) or above

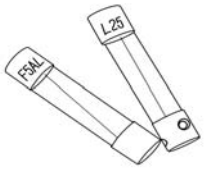
Memory: Minimum 1GB

- Operating system: WINDOWS XP SP2 or above
  Power supply: DC 12V, AC 110~250V 50/60Hz;
- Power: DC 9~15V
- Wireless working frequency: 2400 MHz-2483.5 MHz. (ISM-Band)
- Wireless communication distance: around 20~100 Meters (depending on environment)
- Wireless transfer speed: max. 11Kbytes/s
- Memory temperature: -20~70ºC
- Working temperature: -10~60ºC
- Humidity: <90%

1.4 Configuration

Picture	Item	Description
	**Name**: PC/laptop **Quantity**: 1	**Function**: Used for wireless diagnosis and display
	**Name**: GIDS main unit **Quantity**: 1	**Function**: Data transfer connecting with vehicle
	**Name**: Installation CD **Quantity**: 1	**Function**: Used to install operating software in PC

Picture	Item	Description
	**Name**: Main Cable **Quantity**: 1	**Function**: Connect the main unit and connectors with vehicle
	**Name**: OBD-16 connector **Quantity**: 1	**Function**: Used for testing all vehicles compliant with OBDII, EOBD and J1962 with 16-pin DLC
	**Name**: Jumper **Quantity**: 1	**Function**: Short circuit test for flash code reading
	**Name**: Battery power cable **Quantity**: 1	**Function**: Gains power supply from battery
	**Name**: Cigarette lighter power cable **Quantity**: 1	**Function**: Gains power supply via cigarette lighter on car
	**Name**: DC adaptor **Quantity**: 1	**Function**: Used to connect with power supply of 12V DC voltage

Picture	Item	Description
	Fuse 5A 30*6	Function: Spare parts
	Fuse 5A 20*5	Function: Spare parts

NOTE: Configuration varies as per software package. For complete configuration, please refer to the relevant shipping list.

2.Operation

2.1 Software installation & cable connection

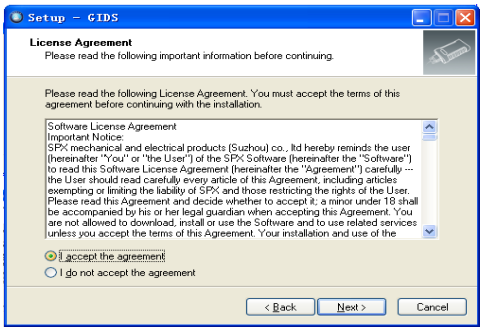
2.1.1 Diagnostic software installation

Steps for installation of GIDS diagnostic software:

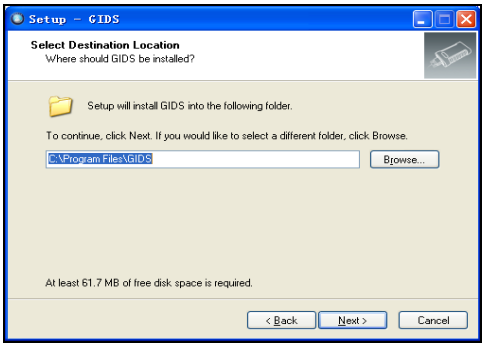
(1). Put the GIDS CD into CD driver in PC.

Installation information will popup.

Click on **[Next]** to continue.

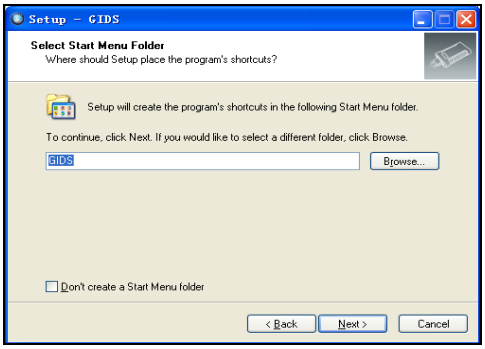


(2). In GIDS installation interface, click on **[I agree this license]** and then **[Next]**.



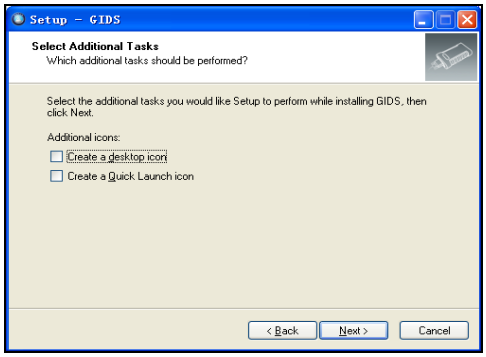
(3). Choose the path for installation. The default path is C:\Program Files\GIDS.

To continue, click on **[Next]**.



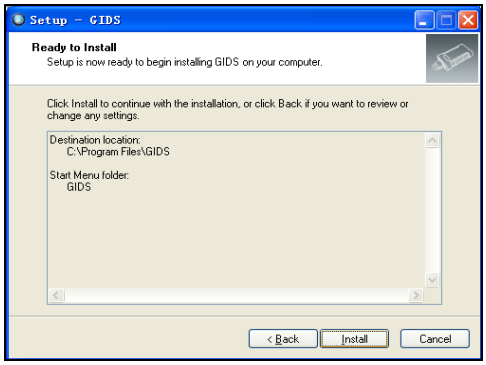
(4). Choose select start menu folder.

. To continue, click on **[Next]**.



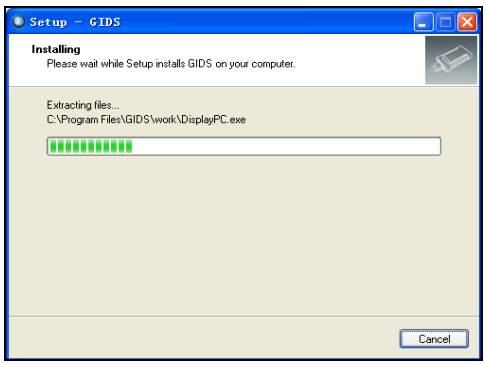
(5). Select Additional Tasks.

To continue, click on **[Next]**.



(6). Ready to Install.

To continue, click on **[Next]**.



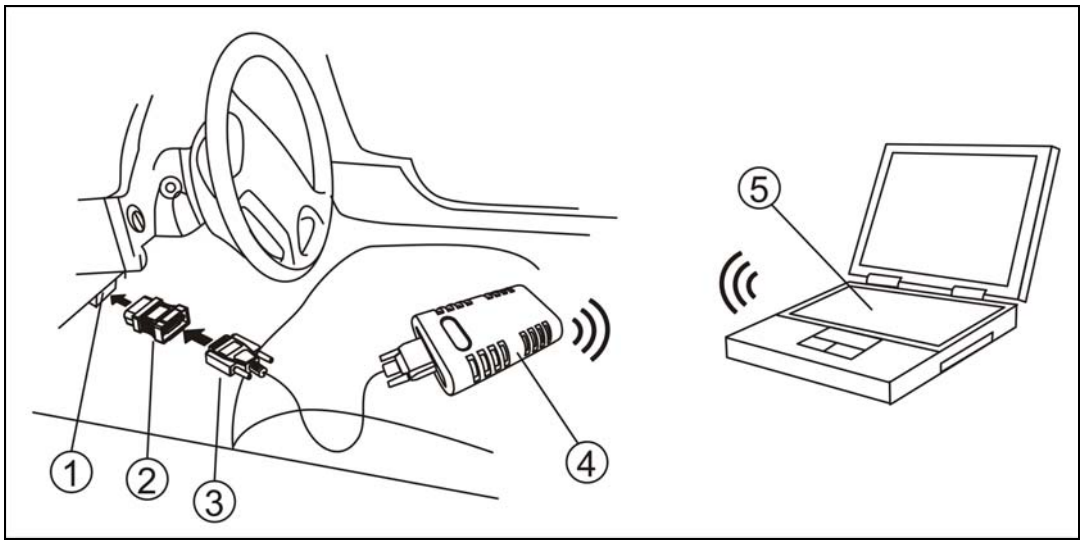
(7). Installing.

To continue, click on **[Next]**.

(8). Click on **[Finish]** to complete Installation.

2.1.2 Cable connection

Please check the following chart for connection instruction:



1. DLC
2. Connector
3. Main cable
4. Main unit of GIDS
5. PC/laptop

Diagnostic connection：

① Check the position of DLC and see if it is OK.

② Enable PC wireless switch.

③ Select corresponding connectors for car make and DLC.

④ Connect one end of main cable to the main unit and the other end to the connector.

⑤ Connect the diagnostic connector with vehicle DLC after connecting with main cable.

⑥ Make sure the indicator of GIDS power is on and wireless working indicator is flashing. If power is not on and working indicator is not flashing, please make sure the DLC has power supply. If it has no power, please connect the vehicle with GIDS power port (+12V) with a cigarette lighter power cable.

⑦ When power indicator of GIDS main unit is on and wireless working indicator is flashing. Cable connection is finished.

2.2 Interface Instruction

2.2.1 Starting Interface

The interface shown on the left picture will appear on the screen after the GIDS software is run on PC.

2.2.2 Diagnostic Program

In the diagnostic interface you can select vehicle makes including: Geely, Emgrand, Gleagle, Londontaxi.

2.2.3 System Setting

Click on the button [Option] to enter settings for language, Compulsive download MCU software and DEMO selection.

.2.2.3.1 Language Setting

GIDS supports Multilanguage. Choose any language needed under **[working language]** and press **[OK]** to finish language setting.

2.2.3.2 Download

If you choose this option, it will download the program again every time when you choose a car for testing in order to insure the success of test.

2.2.3.2 Version Information

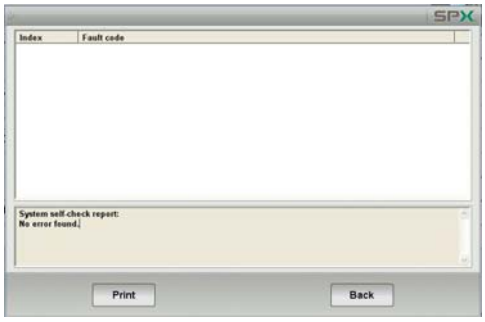
Show the version information of Hardware, Software,Serial number, Release date, etc

2.2.3.3 Display Mode

Include two mode: Full Screen, Window Screen.

2.2.3.4 Unit Switch

Include two mode: Metric, British.



2.2.4 Self check

This is for hardware checking. Click on the button **[Self-check]** in **[Option]** and any hardware faults will be displayed. Please contact local distributor if a hardware problem is reported.

If there are no hardware errors, the checking result will be like the left photo.

Note: The main cable should be disconnected when self checking. And GIDS main unit is connected with power supply.

2.2.6 Homepage

Due to certain reasons, the operating interface may freeze up. You could click on the button **[**Home**]** to exit and continue testing.

2.3 GIDS Software Register

Fig 1-1 Register interface

If GIDS software is unregister, then user only use DEMO mode and can not communicate with vehicles. GIDS software can be registered step by step:

1). Make PC to connect to internet with cable.

2). Connect VCI and PC by wireless.

3). Run GIDS software(Fig1-1).

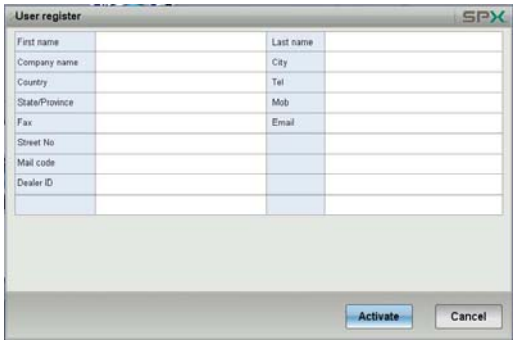


Fig 1-2 User information interface

3). Press “Register” button. And show a user information screen(Fig1-2).

4). Input user information correctly and press “Activate” button.

Fig 1-3 Register success interface

5). GIDS software rerun automatically. You can see the interface shown in Fig1-3, “Register” Button is unavailable. GIDS software was registered successfully.

2.4 Software update

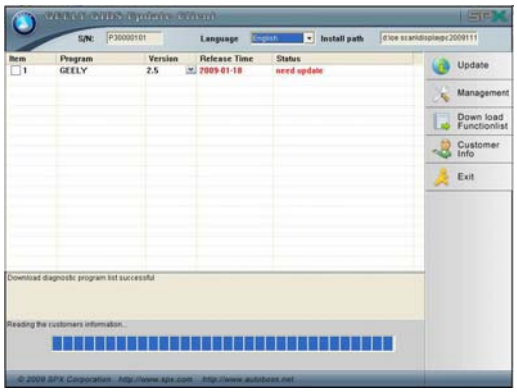


Fig 2-1 update client starting interface

2.4.1 Upgrading Instructions

2.4.1.1 Run GIDS update client program Double click to run the “GIDSClient.exe” program under the folder named “tools” in the CD program. You will go to update interface as shown in Fig 2-1.

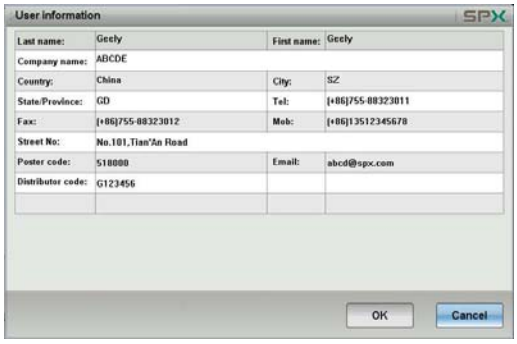


Fig2-2 Input customer info interface

2.4.2.1 Input Customer Information

You must fill in your personal information when you first login to GIDS update client; otherwise you will not be able to download the diagnostic program.

Operation instruction:

Click on the button **[Customer info]** after login succeeds. You can see the interface shown in Fig2-2. Input your information in relevant space and click **[OK]** to save the information.

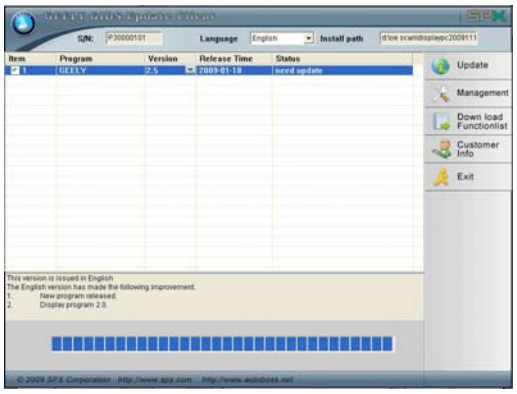


Fig.2-3 Download interface

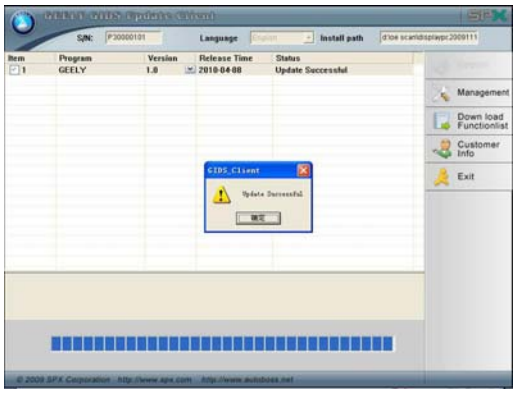


Fig.2-4 Download interface

2.4.3.1 Software Download

After user information is saved, you can download the program needed.

Operation instruction:

(1) Choose the language version. The default path is “C:\Program Files\GIDS\work\”.

(2) Tick the small box before the relevant program as shown in Fig.2-3;

(3) Click on the button **[Update]** in right column to enter update status. Programs that are not downloaded are in black. If download succeeds, they will be highlighted in blue. Failed downloads are highlighted in red.

(4) The programs will be downloaded to your PC hard drive and updated automatically.

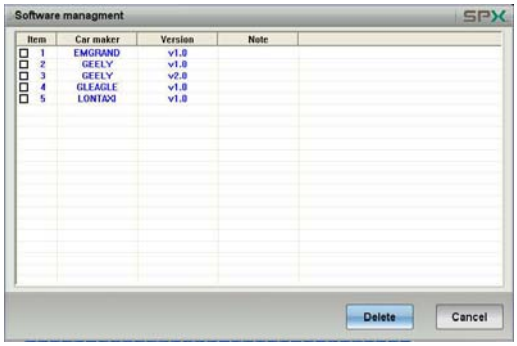


Fig.2-5 software installation interface

2.4.4.1 Software Management

You can delete old versions of software on the download list by entering software management.

Operating instruction:

Click on the button **[Management]** to enter the interface shown in Fig. 2-10. Select the software not needed and click on **[Delete].** The selected software will be uninstalled automatically.

2.4.5.1 Exit

After finishing all of the steps, click on **[Exit]** to exit from the update client.

3.Test Procedure

1. Install the Geely application software of GIDSSetup.exe
2. Connect the vehicle and the GIDS VCI。
3. Run the installed software on PC：

For example: Emgrand--→EC715--→ Manual Choose→EMS--→Engine

1. Double click the installed Geely application software, the picture is below.

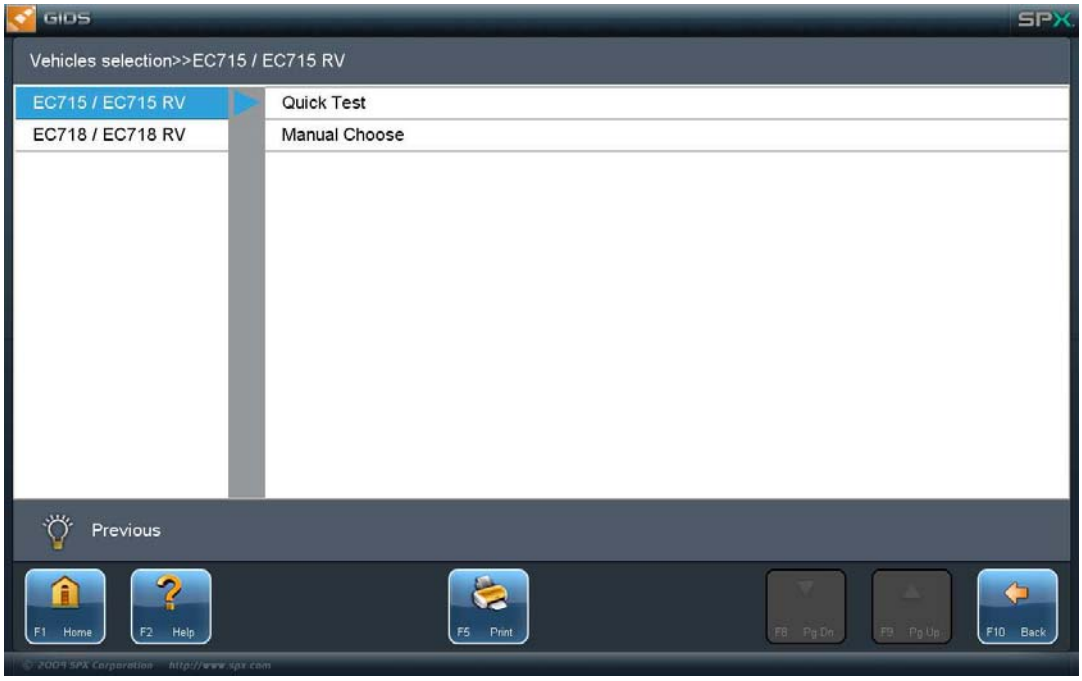
Click the icon F3 Option, the picture is below. We can make some setting. For example, the switch of Language, adjust of the color of GUI, the automatic conversion of Metric and Inch, download automotive communications software, self-test.

If we select the display of Chinese language, the picture in below.

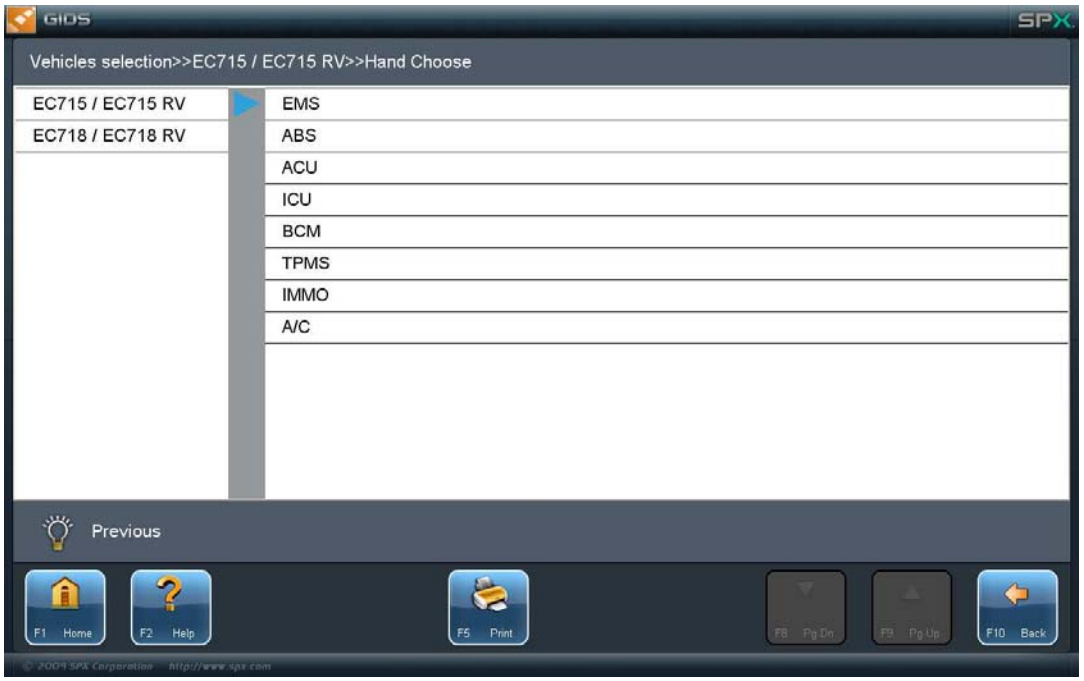
When the color of GUI changed from Geely blue to Holand orange, the picture is below.

The Metric system unit is the universal standard, the Inch unit is used in Europe. In default, the GIDS use Metric system unit.

2.When the setting is finished, click "Emgrand" icon, enter the following interface: If the "demo " checked, then the software into the demo mode; If the "demo " is not checked, enter the vehicle test mode.

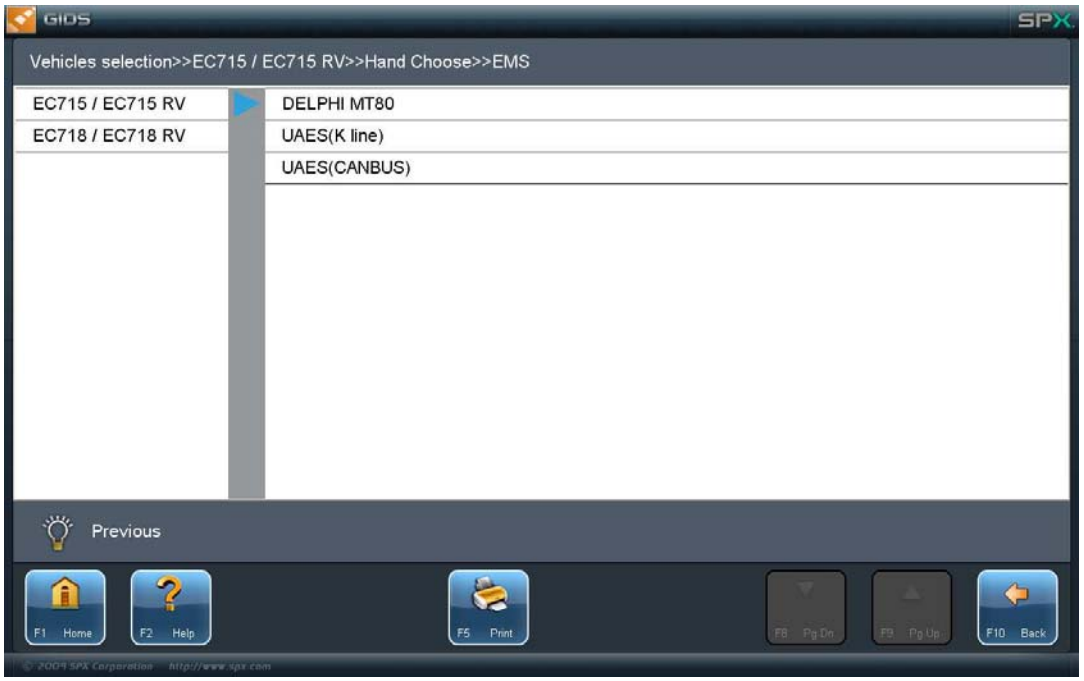


3. Press “EC715/EC715 RV” and “Manual Choose”, then enter the following interface.

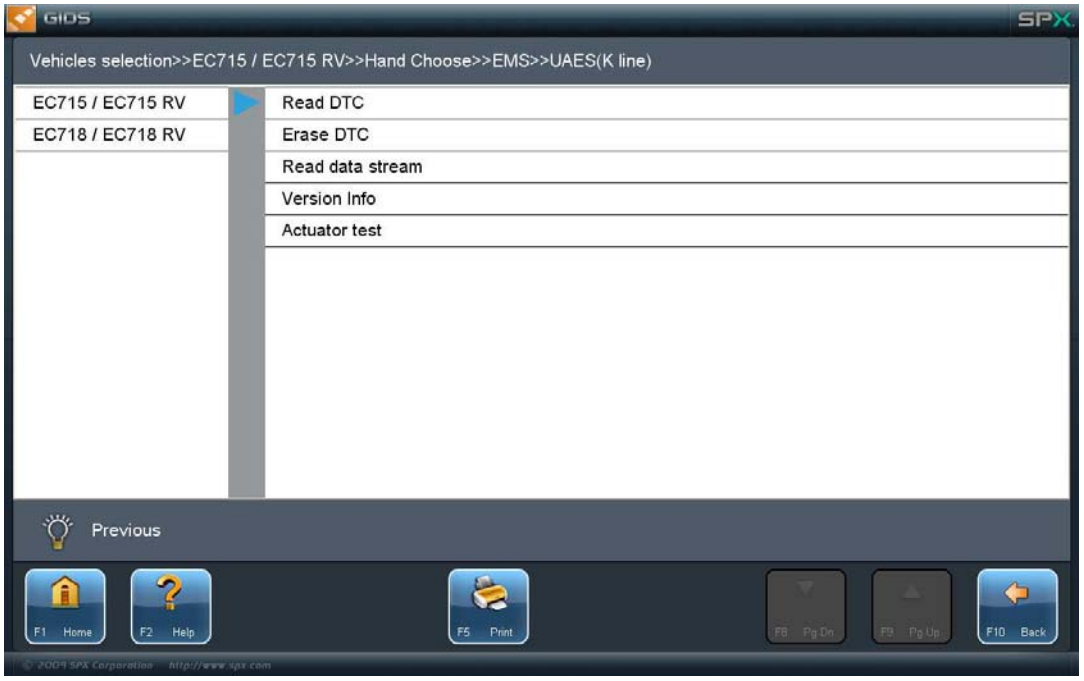


4. if Press “Quick Test”, then enter the following interface.

5. Click the button EMS, enter the following interface.



6.Press ”UAES(K Line)”.



7.Click the button Read DTC, We will see the picture below.

8.Click the item “P0560 Battery voltage(onboard diagnosis)(signal) 4B”, then the DTC is highlighted, the "F2 Service Guider" button will be lit, here click on "P0560 Battery voltage(onboard diagnosis)(signal) 4B ", the picture is below.

9. Click the "F2 Service Guider" button, you can see the corresponding fault code P0560 help to guide the maintenance, see below.

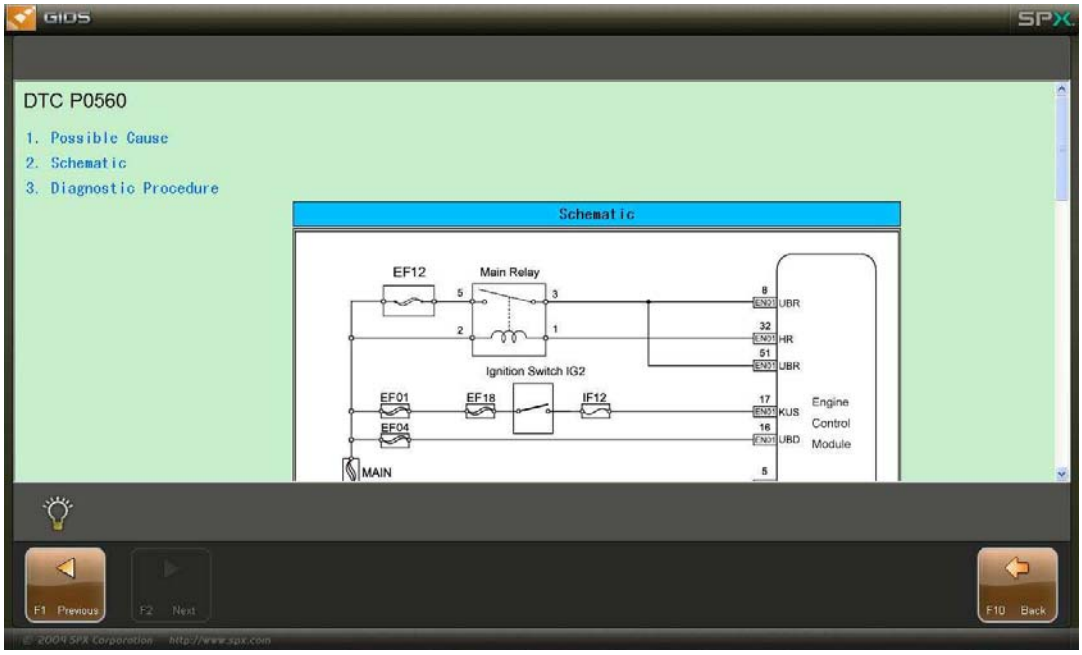
Associated with the description of the circuit description: Tips and the diagnosis-related DTC circuit information

Possible Cause: the possible reasons for the DTC

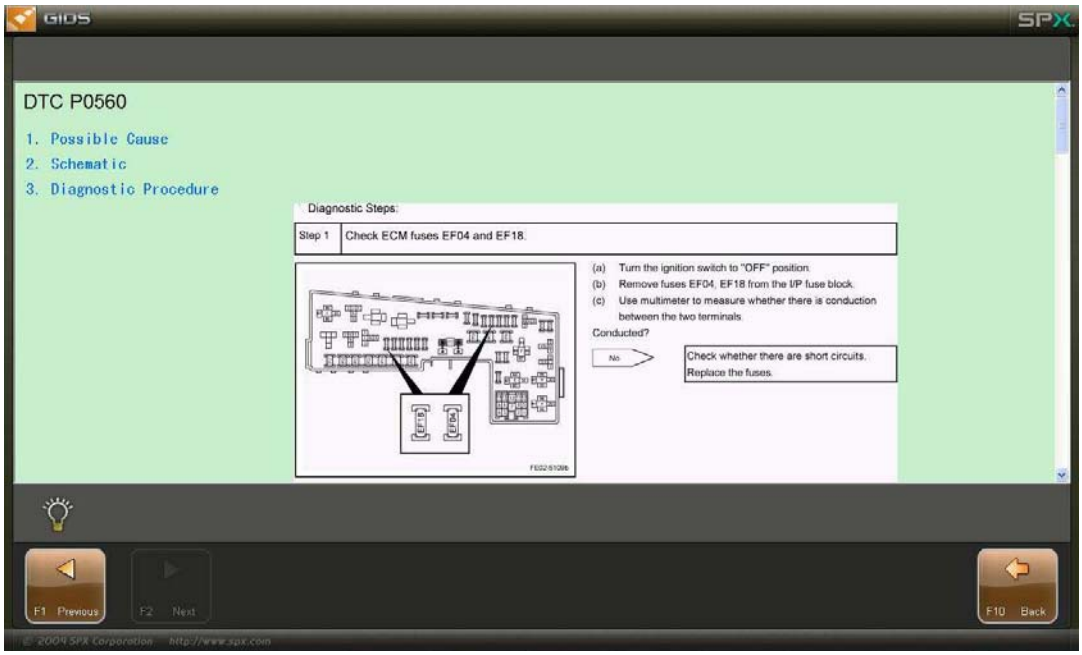
Diagnostic Procedure: Follow the steps to generate tips on how to determine the reasons for the DTC

Schematic: Tip of the fault produced DTC terminal parts of the plug or the location where we can find the fault technician position in time

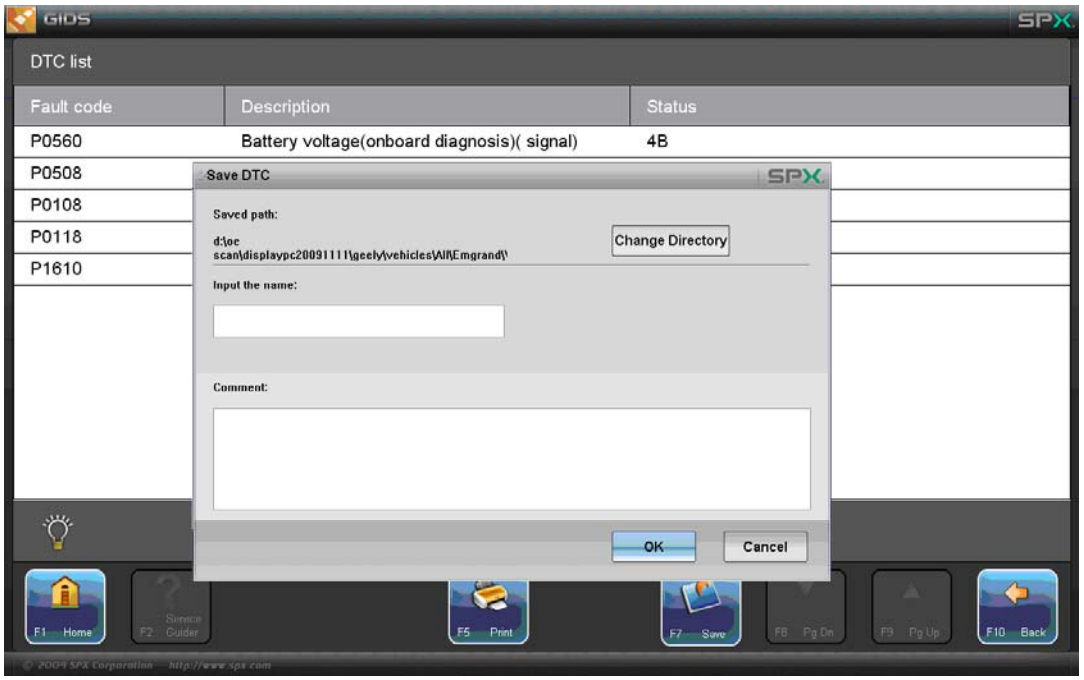
10. Click on the appropriate help guide items, you can view the corresponding help information. Such as the Click "2. Schematic", the help information following figure.



11.Such as click "3. Diagnostic Procedure", enter the following picture.

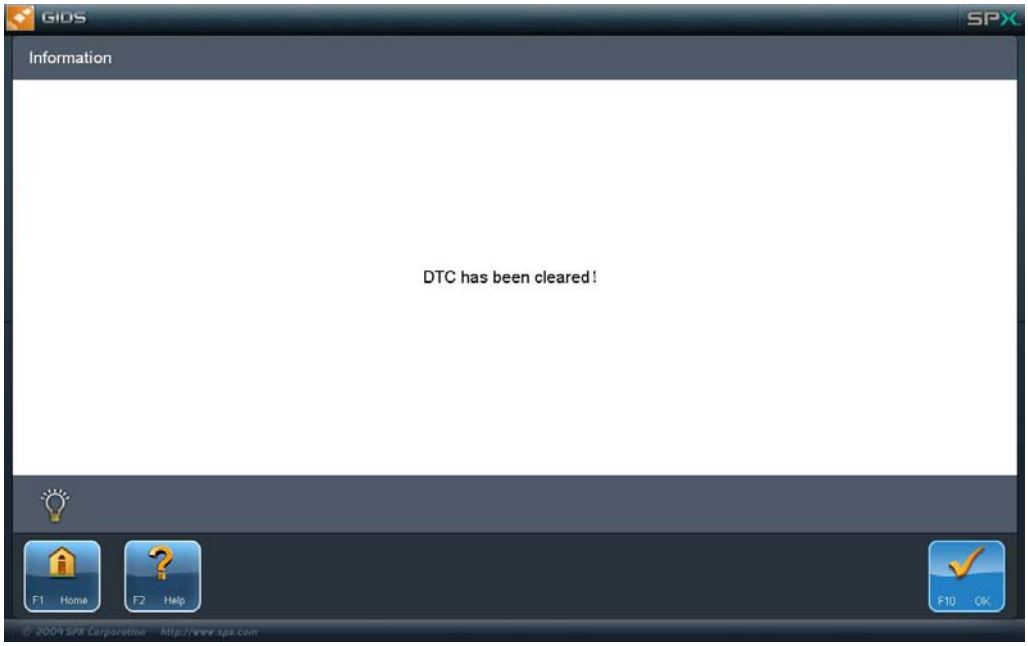


12. Trouble code information is also available by clicking on the "F5 Print" button to print out or "F7 Save" button to export to the local.



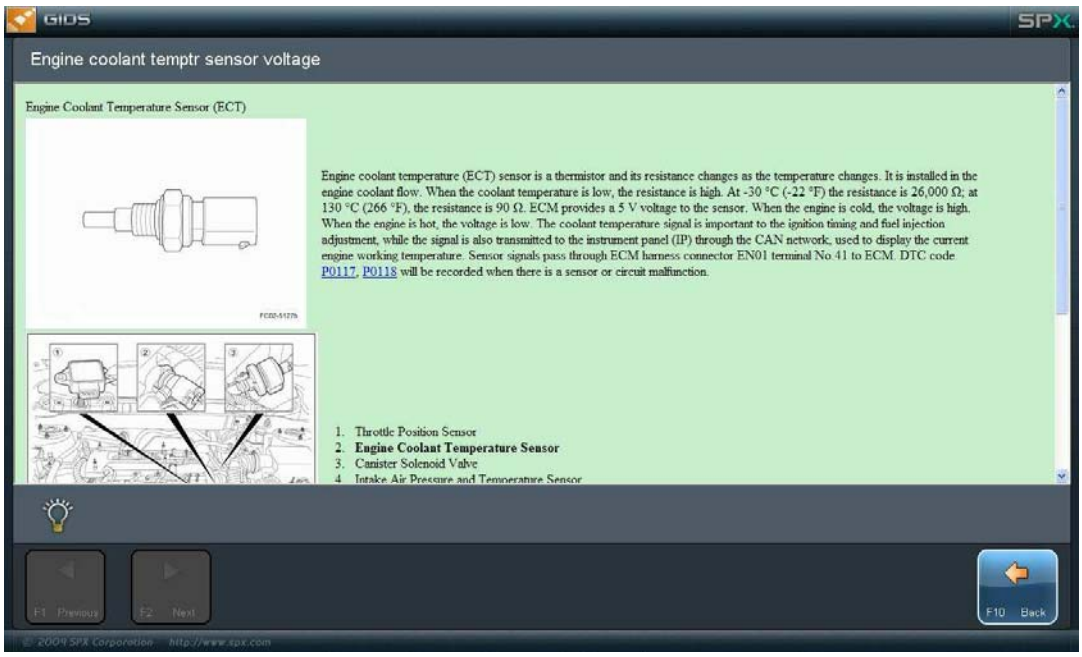
13.Click the item ”Erase DTC”. The tip information occur as follow.

Click the button “F10 Yes”.



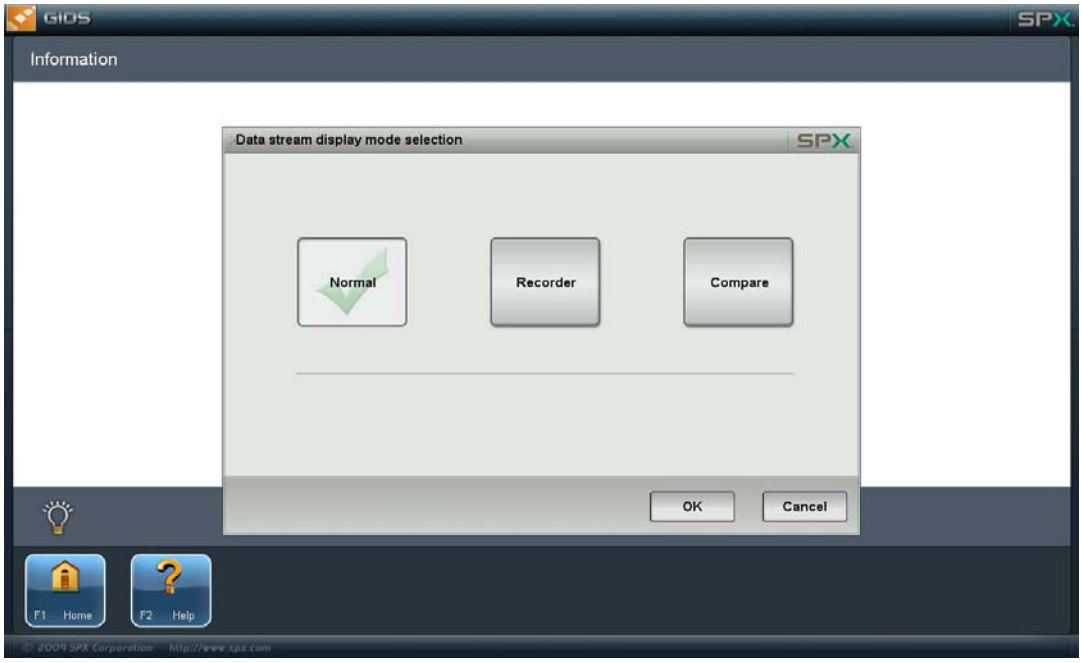
14.Click the item “Read data stream”. Enter the follow picture.

15.Click the selected items you want to view the data stream, you can view the “F2 service guide” corresponding to item. For example, we select the item “Engine coolant tempter sensor voltage“.

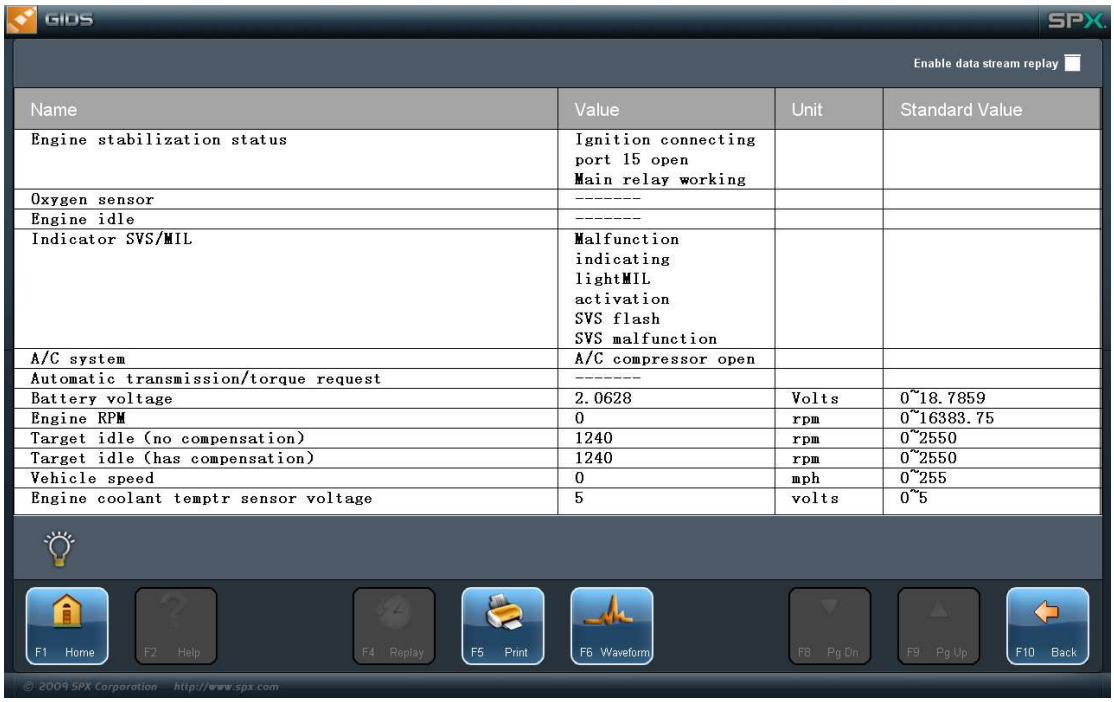


16.You can click Select to view the data flow items or click the "F6 Select All" button to select all of the data flow items, the color blue is selected, see below.

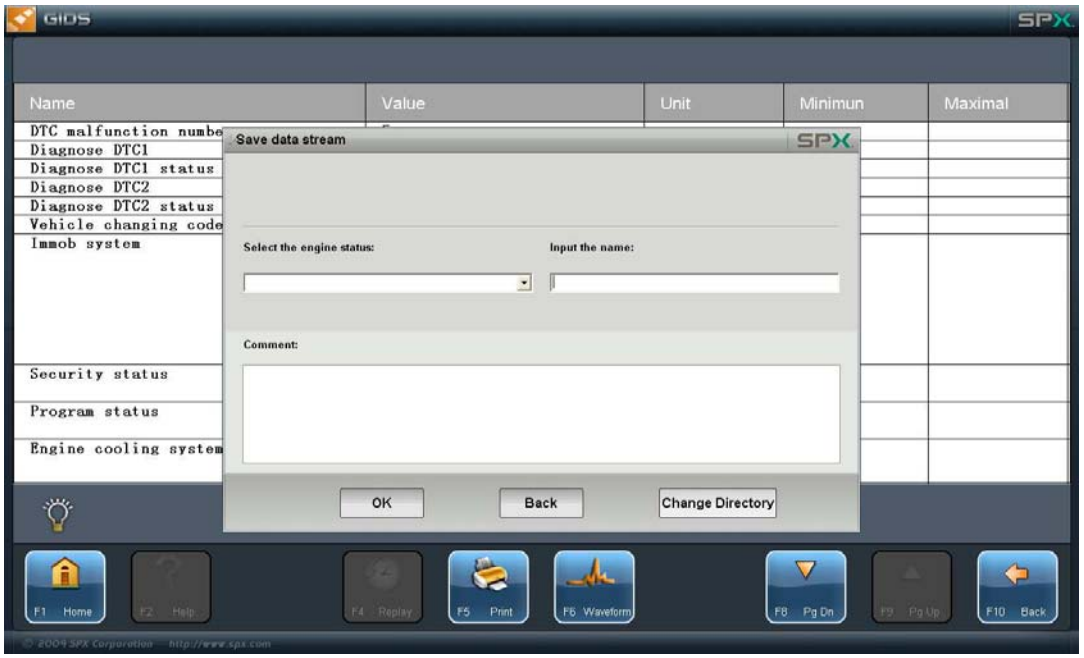
Click the button “F9 OK”.



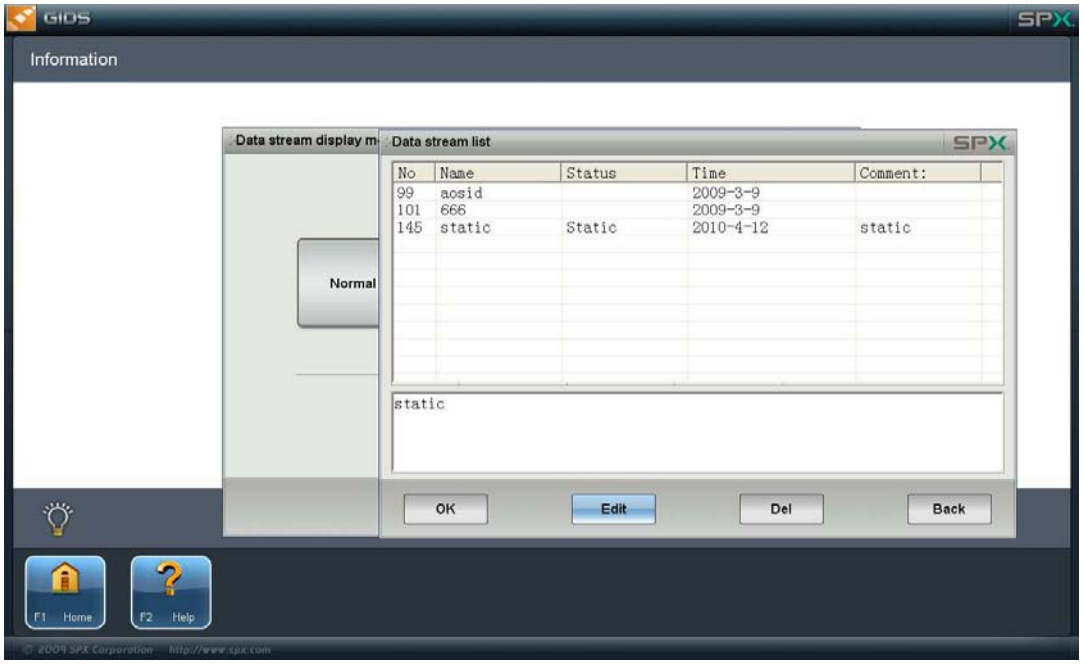
17.We can see that there are three modes: Normal mode, Recorder mode and Compare mode. Normal mode is the basic data flow items that are displayed; Recorder mode can record the data stream under the current situation that stored in the database file, it can also stored in Excel files format and convenient to keep track; Compare mode use the current data stream compared with the previous Recorder model stored in the computer database files. The below is the Normal mode.



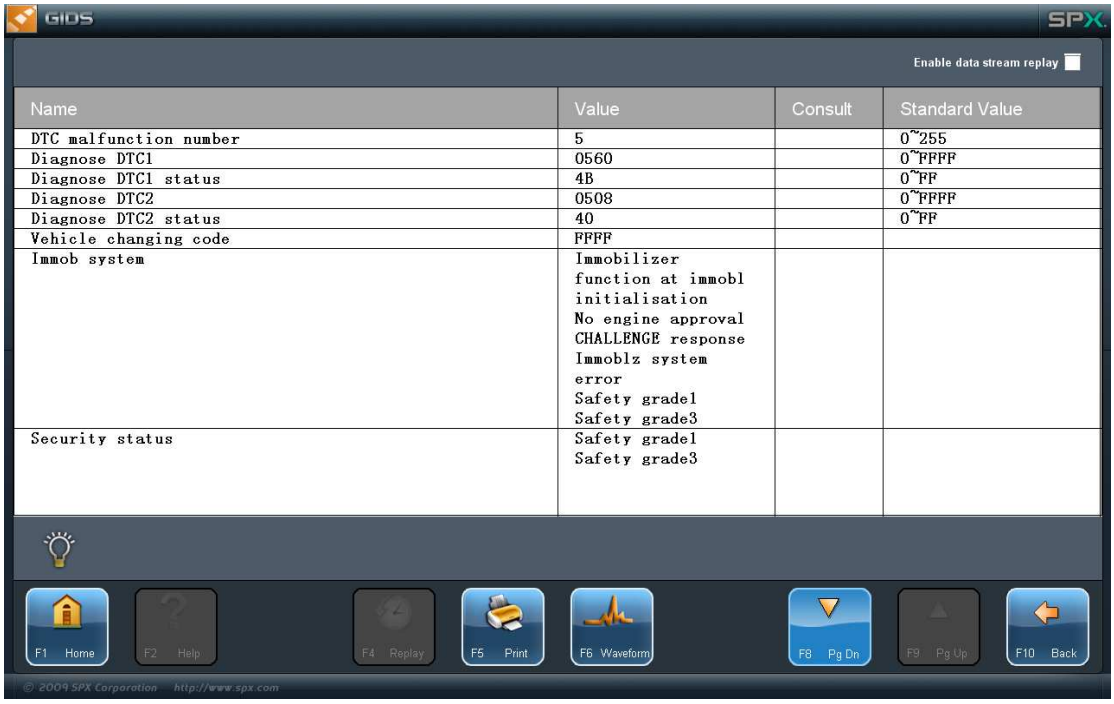
18. Next photo is the Recorder mode, click on the "F10 Back" will be prompted to save the Excel file information, the stored Excel file is used as the default file name "datastream".



19.Select the Compare mode, the following figure, will be given in a data list dialog box used to Select the previously saved database file for comparison.



The Compare mode is below:

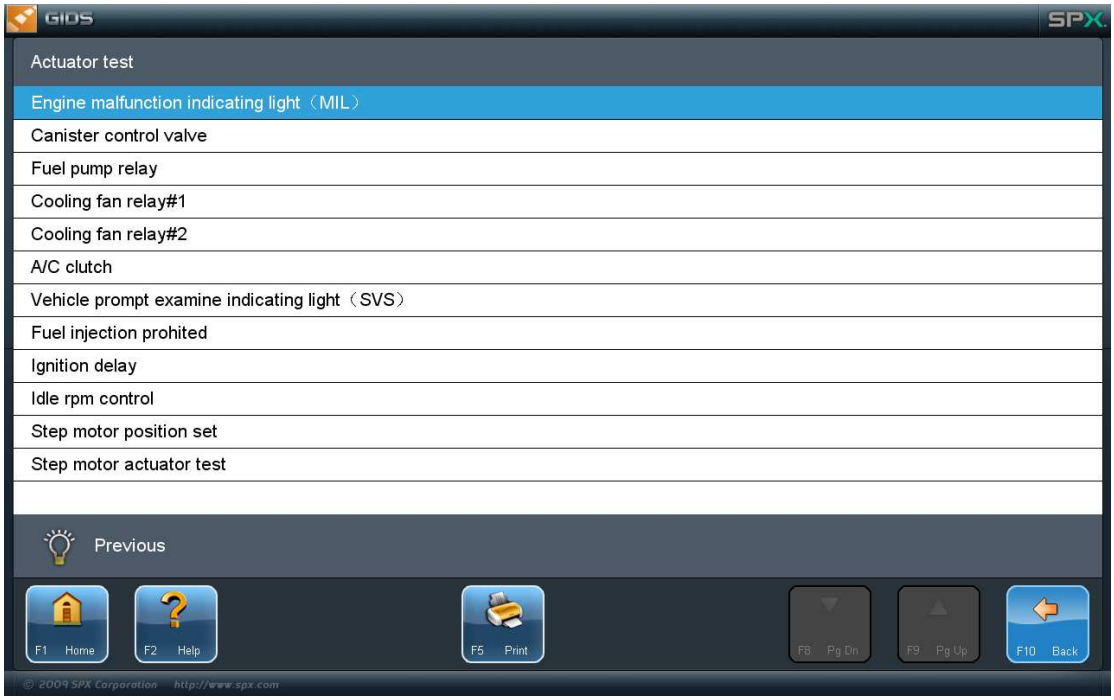


20.When the data stream display, we can use “F8 Pg Dn” and “F9 Pg Up” for the other page, use “F5 Print” button to print the data stream, use “F6 Data stream” to view a data stream item waveform display.

21. Click the item Version info. Enter the interface of Version info.

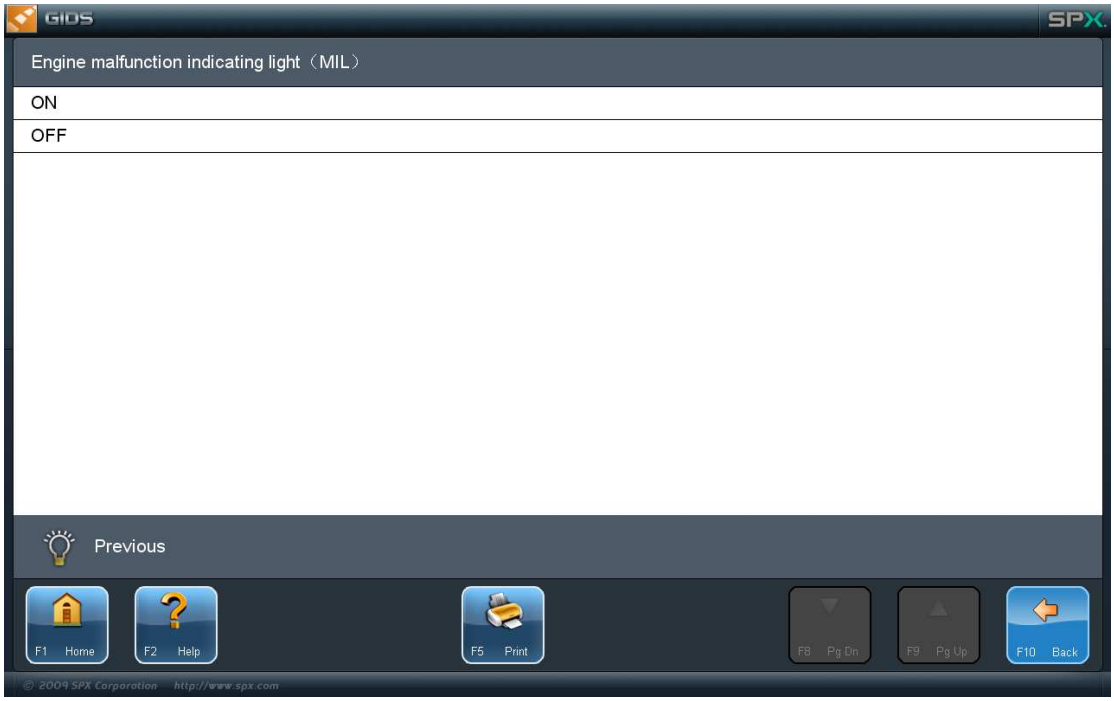
22. Click the item Actuator test. Enter the interface of Actuator test.

It can work when we click one Actuator test. For example, “Engine malfunction indicating light (MIL)” is used.

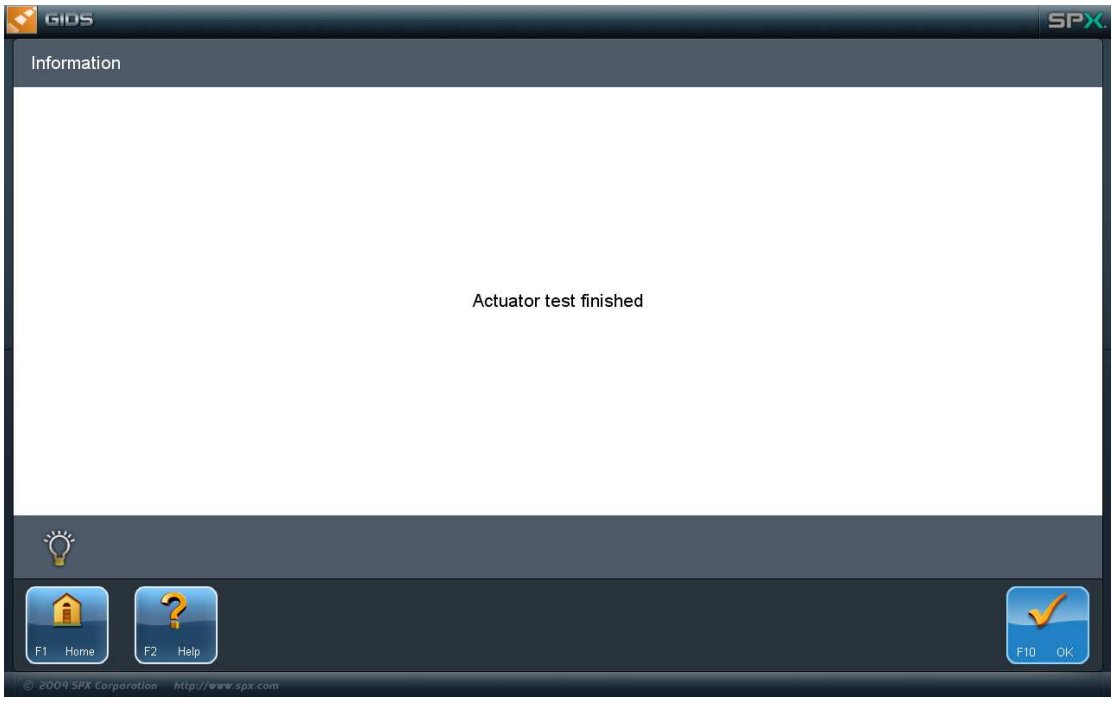


We use some test conditions indicated in the vehicle protocol to avoid damage to the vehicle caused by improper testing

Press the button “F10 OK”

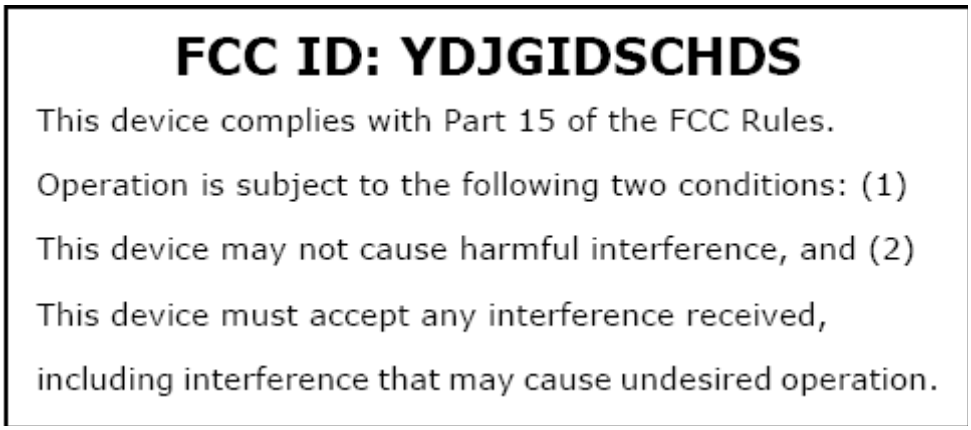


Click the item “ON” or “OFF”, the test will be implemented.



FCC STATEMENT

1. 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.
2. 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.

3. FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, Human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.