

D730 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 D730 Diagnostic Computer will be added to the user manual in the future. Updated versions of user manual will be available to download at OTC website ([HTTP://WWW.OTCD730TOOL.COM](http://www.otcd730tool.com)).
- When reading the manual, please pay special attention to the words “Note”, “Caution” or “Warning”, read them carefully for appropriate operation.

D730 Diagnostic Computer main unit maintenance:

- Avoid shaking or dismantling as it may damage the internal components;
- Do not use hard or sharp objects to touch the LCD screen; 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;
- If necessary, calibrate the screen before testing to ensure the accuracy of LCD performance;
- 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 testing;
- 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 due to the high temperatures reached;
- 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 (DLC) diagnostic link connector is functioning properly before starting the test; otherwise the scanner may be damaged. OTC suggests you test the Power/Earth with Multimeter first;
- Do not switch off the power or unplug the connectors during testing, otherwise you may damage the ECU or scanner.

CONTENTS

1 Introduction.....	1
1.1 FUNCTION AND FEATURE	1
1.2 LAYOUT OF D730 MAIN UNIT	2
1.3 TECHNICAL PARAMETERS	3
1.4 CONFIGURATION	3
1.5 PRINTER.....	8
2 Operation.....	11
2.1 POWER SUPPLY & CABLE CONNECTION.....	11
2.1.1 <i>Power Supply</i>	11
2.1.2 <i>Cable Connection</i>	11
2.2 INTERFACE INSTRUCTION	12
2.2.1 <i>Starting Interface</i>	12
2.2.2 <i>Touch Screen Calibration</i>	12
2.2.3 <i>Diagnose Program</i>	13
2.2.4 <i>System Setting</i>	14
2.2.5 <i>Version Information</i>	16
2.2.6 <i>User Manual</i>	16
2.2.7 <i>Special tests Instructions</i>	16
2.3 FLOW CHART OF D730 SOFTWARE UPGRADING	17
SOFTWARE UPGRADING	18
2.3.1 <i>Download and Install “D730 Update Client”</i>	18
2.3.2 <i>Check D730 S/N and Password</i>	19
2.4 USE YOUR PC TO PRINT SAVED FILES FROM SD CARD.....	24
3 Test Procedure	25
3.1 ENGINE ECU TESTING METHODS	25
3.1.1 <i>Testing Description</i>	25
WARRANTY CERTIFICATE.....	32
STANDARD WARRANTY CONDITIONS.....	33

1 Introduction

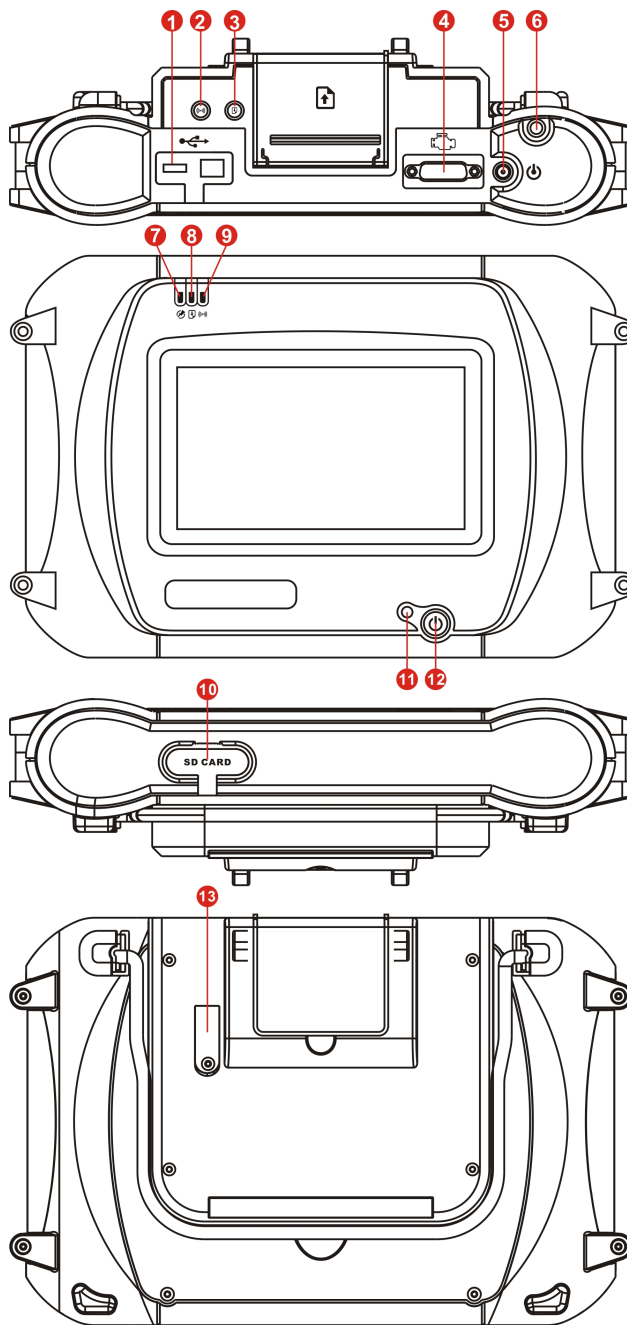
1.1 Function and Feature

- OE level coverage for European, Asian, American and Chinese cars
- Supports Multi-language
- CAN-BUS with high/low speed
- One OBDII connector for all CAN bus systems
- Frequent software update online
- High resolution VGA color TFT display
- Windows CE Operating System
- Quick Test function to test most vehicle systems
- Demo Mode for many OEM's
- Data graphing
- Self-check function



1.2 Layout of D730 main unit

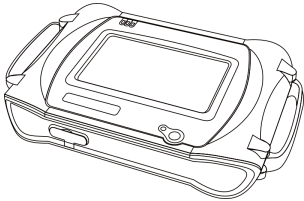


- ① USB Port
- ② Printing test button
- ③ Paper released button
- ④ Diagnostic Port
- ⑤ Power Port
- ⑥ Touch pen/ Stylus slot
- ⑦ Power indicator
- ⑧ Paper released indicator
- ⑨ Printing test indicator
- ⑩ SD Card
- ⑪ Working state indicator
- ⑫ Power switch
- ⑬ Fuse

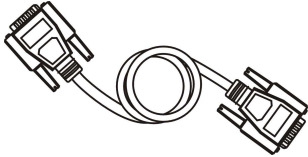
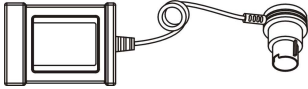
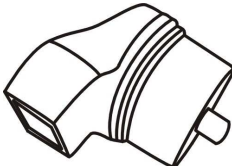
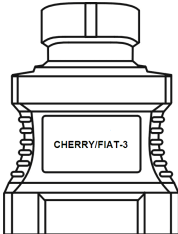
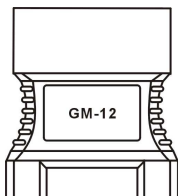



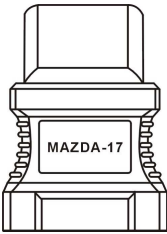
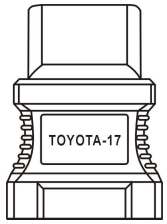
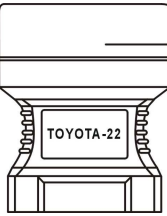
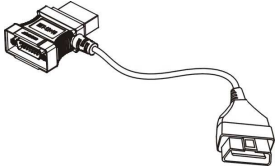
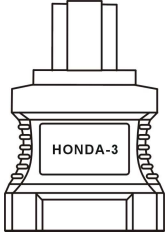

1.3 Technical Parameters


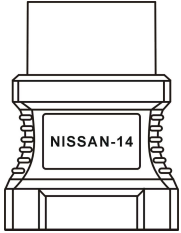
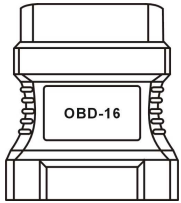
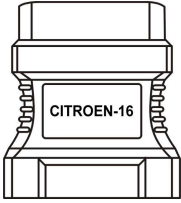
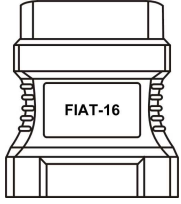
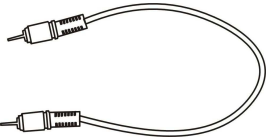
- **CPU:** SAMSUNG ARM9 2410A, 200MHz;
- **Memory:** 64M;
- **Flash card:** SD card, 8G
- **Display:** 7" Wide VGA (800x480) Ultra Bright TFT;
- **Power supply:** DC 8~15V, AC 110~250V 50Hz;
- **Port:** Diagnosis port, COM port, USB port, Power Port;
- **Operating system:** WINDOWS CE;
- **Storage temperature:** -30~85°C;
- **Working temperature:** -10~70°C;
- **Humidity:** <90%.



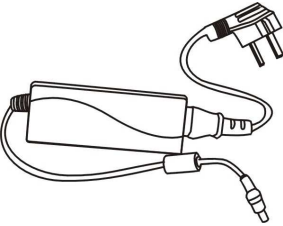
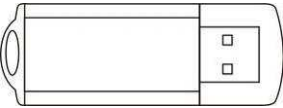
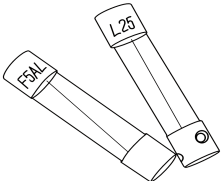

1.4 Configuration

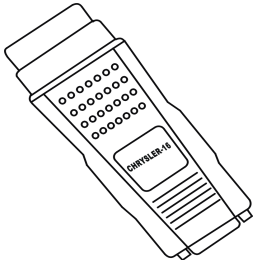
Picture	Item	Description
	<p>Name: D730 main unit Quantity: 1</p>	<p>Function: Display testing procedures and information</p>
	<p>Name: SD card Quantity:1</p>	<p>Function: Storage of Diagnostic programs and saved files</p>
	<p>Name: Touch pen / Stylus Quantity: 1</p>	<p>Function: For touch screen operation</p>

Picture	Item	Description
	<p>Name: Main Cable Quantity: 1</p>	<p>Function: Connect the main unit & connectors for diagnosis</p>
	<p>Name: BENZ-38 connector Quantity: 1</p>	<p>Function: Used for testing Mercedes-Benz vehicles equipped with a circular 38-pin DLC</p>
	<p>Name: BMW-20 connector Quantity: 1</p>	<p>Function: Used for testing BMW vehicles equipped with a 20-pin DLC</p>
	<p>Name: Chery/Fiat -3 connector Quantity: 1</p>	<p>Function: Used for testing FIAT vehicles equipped with a 3-pin DLC</p>
	<p>Name: GM-12 connector Quantity: 1</p>	<p>Function: Used for testing GM/DAEWOO vehicles equipped with a 12-pin DLC</p>
	<p>Name: Kia-20 connector Quantity: 1</p>	<p>Function: Used for testing KIA vehicles equipped with a 20-pin DLC</p>

Picture	Item	Description
	<p>Name: Mazda-17 connector Quantity: 1</p>	<p>Function: Used for testing MAZDA vehicles equipped with a 17-pin DLC</p>
	<p>Name: TOYOTA-17 connector Quantity: 1</p>	<p>Function: Used for testing TOYOTA/LEXUS vehicles equipped with a semi-circular 17pin DLC</p>
	<p>Name: TOYOTA-22 connector Quantity: 1</p>	<p>Function: Used for testing Toyota and Lexus vehicles with a rectangular 22-pin DLC</p>
	<p>Name: MIT-12+16 connector Quantity: 1</p>	<p>Function: Used for testing Mitsubishi and Hyundai vehicles equipped with a 12-pin or 16-pin DLC</p>
	<p>Name: HONDA-3 connector Quantity: 1</p>	<p>Function: Used for testing HONDA and ACURA vehicles equipped with a 3-pin DLC</p>
	<p>Name: BENZ-4 connector Quantity: 1</p>	<p>Function: Used for testing Mercedes-Benz vehicles before 1997 with flash codes. Those vehicles are usually equipped with either a rectangular 8-pin or 16-pin</p>

Picture	Item	Description
	<p>Name: AUDI-4 connector Quantity: 1</p>	<p>Function: Used for testing VW/AUDI vehicles with a 4-pin (2x2) DLC</p>
	<p>Name: NISSAN-14 connector Quantity: 1</p>	<p>Function: Used for testing Nissan and Infiniti vehicles equipped with a 14-pin DLC</p>
	<p>Name: OBD-16 connector Quantity: 1</p>	<p>Function: Used for testing all vehicles compliant with OBDII, EOBD and J1962 with the 16-pin DLC</p>
	<p>Name: Citroen-16 connector Quantity: 1</p>	<p>Function: Used for testing Citroen with the 16-pin DLC according to software screen indicator</p>
	<p>Name: FIAT-16 connector Quantity: 1</p>	<p>Function: Used for testing Fiat with the 16-pin DLC according to software screen indicator</p>
	<p>Name: Jumper Quantity: 1</p>	<p>Function: Short circuit test for flash code reading</p>

Picture	Item	Description
	<p>Name: Battery power cable Quantity: 1</p>	<p>Function: Provide the power supply via battery</p>
	<p>Name: Cigarette lighter power cable Quantity: 1</p>	<p>Function: Provide the power supply via cigarette lighter on the car</p>
	<p>Name: DC adaptor Quantity: 1</p>	<p>Function: Provide 12V DC voltage</p>
	<p>Name: SD Card reader Quantity: 1</p>	<p>Function: Read SD card for software update or SD card reading and writing</p>
	<p>Fuse 5A 30*6</p>	<p>Spare parts</p>
	<p>Fuse 5A 20*5</p>	<p>Spare parts</p>
	<p>Name: Benz-14 pin connector Quantity: 1</p>	<p>Function: Used to test Mercedes-Benz Sprinter Note: Optional</p>

Picture	Item	Description
	<p>Name: Chrysler-16 connector Quantity: 1 Note: Optional</p>	<p>Function: Used to test Chrysler car with CCD protocol</p>

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

1.5 Printer

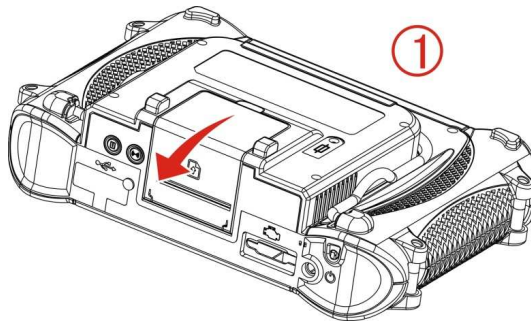
There are two print modes in D730.

1.5.1 Printing out on paper. You can print out diagnosis information on paper.

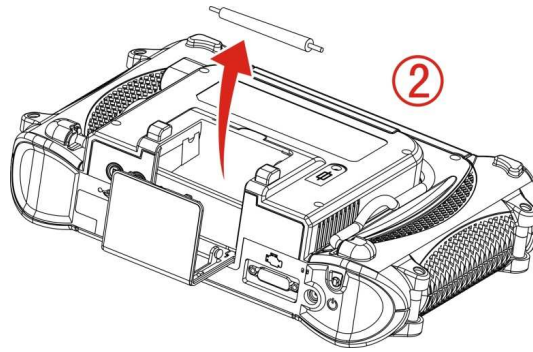
1.5.2 Save diagnosis information in World File and JPEG file. You can save diagnosis information in World file or in JPEG file.

1.5.3 Change printing paper

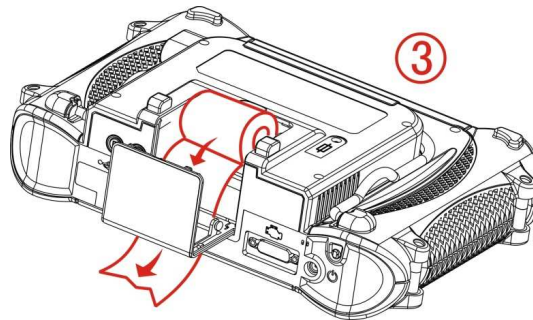
Step 1: Open printer back cover





Step 2: take out the stick







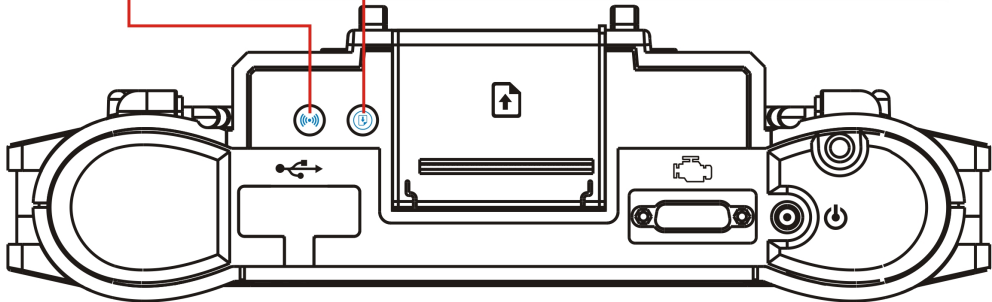
Step 3: Install the paper roll as shown in the following picture






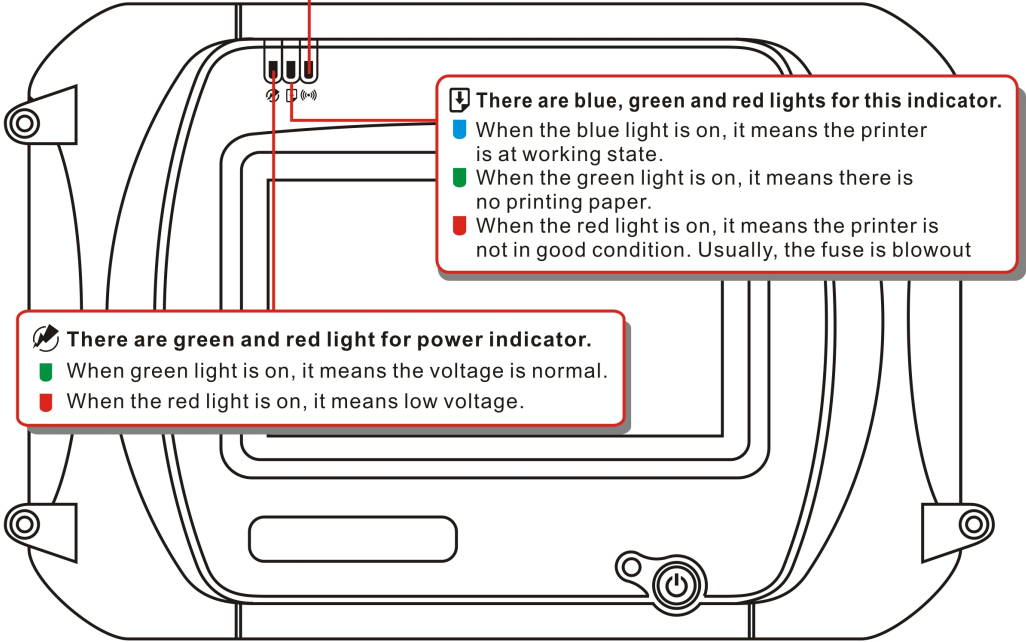
1.5.4 Printer operation introduction





When you press button , it can shift between printing mode and WIFI mode.
 When the blue light is on , it means the printer is well connected and ready to work.




A When the printer is on , press  to release the paper.
 B Printing test: Press  and  at the same time, release them when printing is finished.




 **There are blue and red lights for this indicator.**
 When the blue light is flashing fast about 3 times per second, it means the machine is searching for the WIFI signal.
 When the blue light is flashing slowly about 1 time per second, it means the WIFI signal is connected well.
 When the red light is flashing, it means that the temperature of the printer is high, so please do printing after the red light is off.



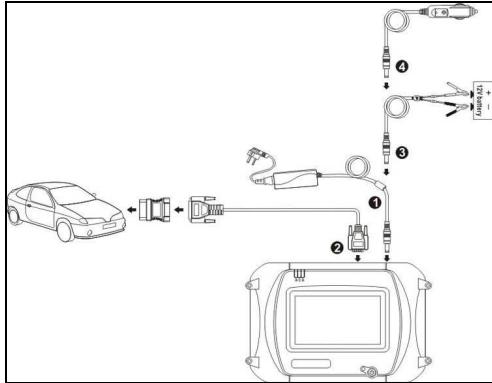
 **There are blue, green and red lights for this indicator.**
 When the blue light is on, it means the printer is at working state.
 When the green light is on, it means there is no printing paper.
 When the red light is on, it means the printer is not in good condition. Usually, the fuse is blowout

 **There are green and red light for power indicator.**
 When green light is on, it means the voltage is normal.
 When the red light is on, it means low voltage.

Attention:

1. The printer operation is not available when V30 Elite is connected to PC.
2. When press  to shift from WIFI to printer operation, you can't perform printing function until the blue light is on.

2 Operation



1. Cigarette lighter plug
2. Battery cable
3. Battery
4. Main cable
5. Main cable adaptor
6. Connector
7. Diagnostic connector port
8. Power port
9. Cigarette lighter

2.1 Power Supply & Cable Connection

2.1.1 Power Supply

There are 3 ways to get power for D730 Diagnostic Computer. From:

- ① Vehicle DLC, no external power supply needed
- ② Cigarette lighter
- ③ Battery

2.1.2 Cable Connection

How to get power supply:

- ① Use Cigarette lighter or Battery cable to power main unit if DLC is not self-powered.
- ② No external power supply needed if DLC is self-powered.
- ③ NOTE: ALL 16 PIN DLC connectors have 12v supply and earth for scan tools.

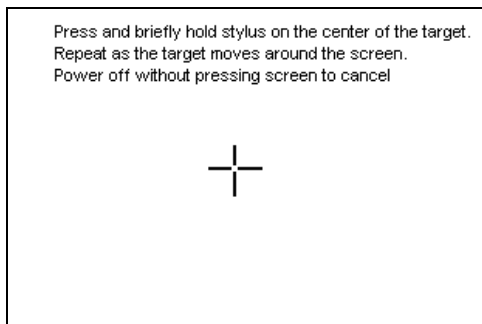
How cables are connected:

- ① Check the type of DLC to see if external power supply is required.
- ② Select corresponding connectors for car make and DLC.
- ③ Connect one end of main cable to the main unit and the other end to the connector.
- ④ Plug the connector in to the DLC on car.
- ⑤ Turn on the unit using the power button to start testing.

2.2 Interface Instruction

2.2.1 Starting Interface

The screen shown on the left picture will appear on the screen after the scanner is switched on.



2.2.2 Touch Screen Calibration

Several seconds after power is switched on, the screen will go into calibration mode. Click anywhere on the screen to start calibration if necessary.

Note: Just wait for several seconds until the diagnosis program runs if screen calibration is not required.



Click the center of cross with touch pen according to the instruction on the screen. Repeat the operation as the cross moves until the setting is finished.

After the scanner is started, you will come to the screen shown on the left picture which includes the functions of [Diagnose], [Setting], [Future Feature], [Version], [User Manual] and [Special tests Instructions],.

2.2.3 Diagnose Program



After entering [Diagnose], you will enter the diagnostic screen where you can select the region of vehicle manufacturer required: China, Europe, Asia, America, Others (OBD II /EOBD) and Favorite.

Europe: This section includes the diagnostic programs for European vehicles.

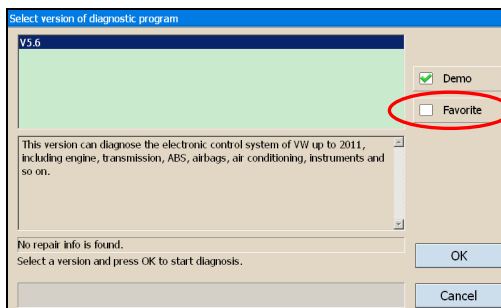
Asia: This section includes the diagnostic programs for Asian and Korean vehicles.

America: This section includes the diagnostic programs for US vehicles.

China: This section includes the diagnostic programs for Chinese vehicles.

Others: This diagnostic program can test all vehicles with OBD II /EOBD and CAN-OBDD.

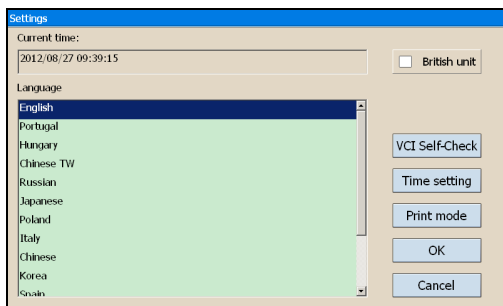
Favorite: This function enables you to save the vehicle frequently tested. For example, once you save Honda as your favorite, it will lead you directly to Honda interface when you click **【diagnose】** icon. You can save more than one vehicle as your favorites.





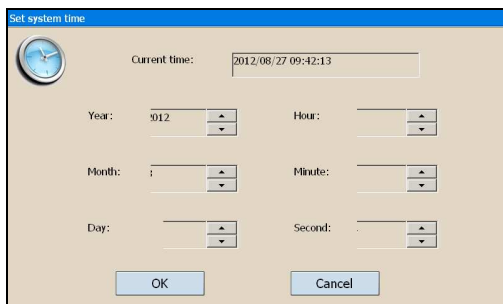
2.2.4 System Setting

Click the button **[Setting]** to enter settings for language, time, Self-Check and Print Mode.



2.2.4.1 Language Setting

D730 supports Multilanguage. Choose any language needed under **[working language]** and press **[OK]** to finish language setting.

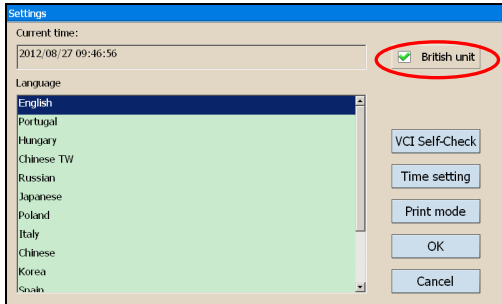


2.2.4.2 Time Setting

Click **[Set time]** to enter the menu for time selection. By clicking on signs of “▼” or “▲”, numbers will increase or decrease correspondingly.

Click the button **[Set time]** to finish setting. The dialog box **“Set system time successfully!”** will popup.

Click **[OK]** to save the setting or **[Cancel]** to exit.



2.2.4.3 Display Data Stream in British Unit

Data stream will be displayed in British unit after **[British unit]** is chosen.



2.2.4.4 Self-Check

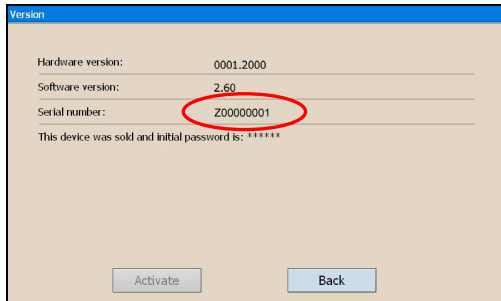
This is for hardware checking. Click the button **[Self check]** and any hardware faults will be displayed. Please contact technical support if a hardware problem is reported.

If there are no hardware errors, the checking result will be **“System Self test report: No error found.”**

2.2.5 Version Information

Click the button **[Version]** in main menu to get the information of Hardware version, Software Serial number, Release date, etc.

Click **[Back]** to exit.



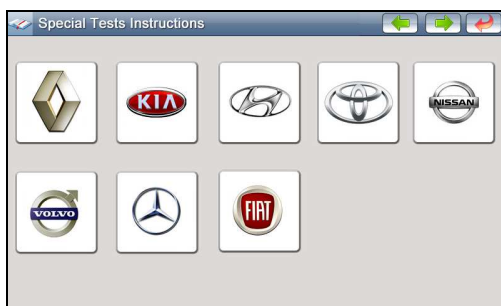
2.2.6 User Manual

Click the Button **[User Manual]**, and you can read the user manual.

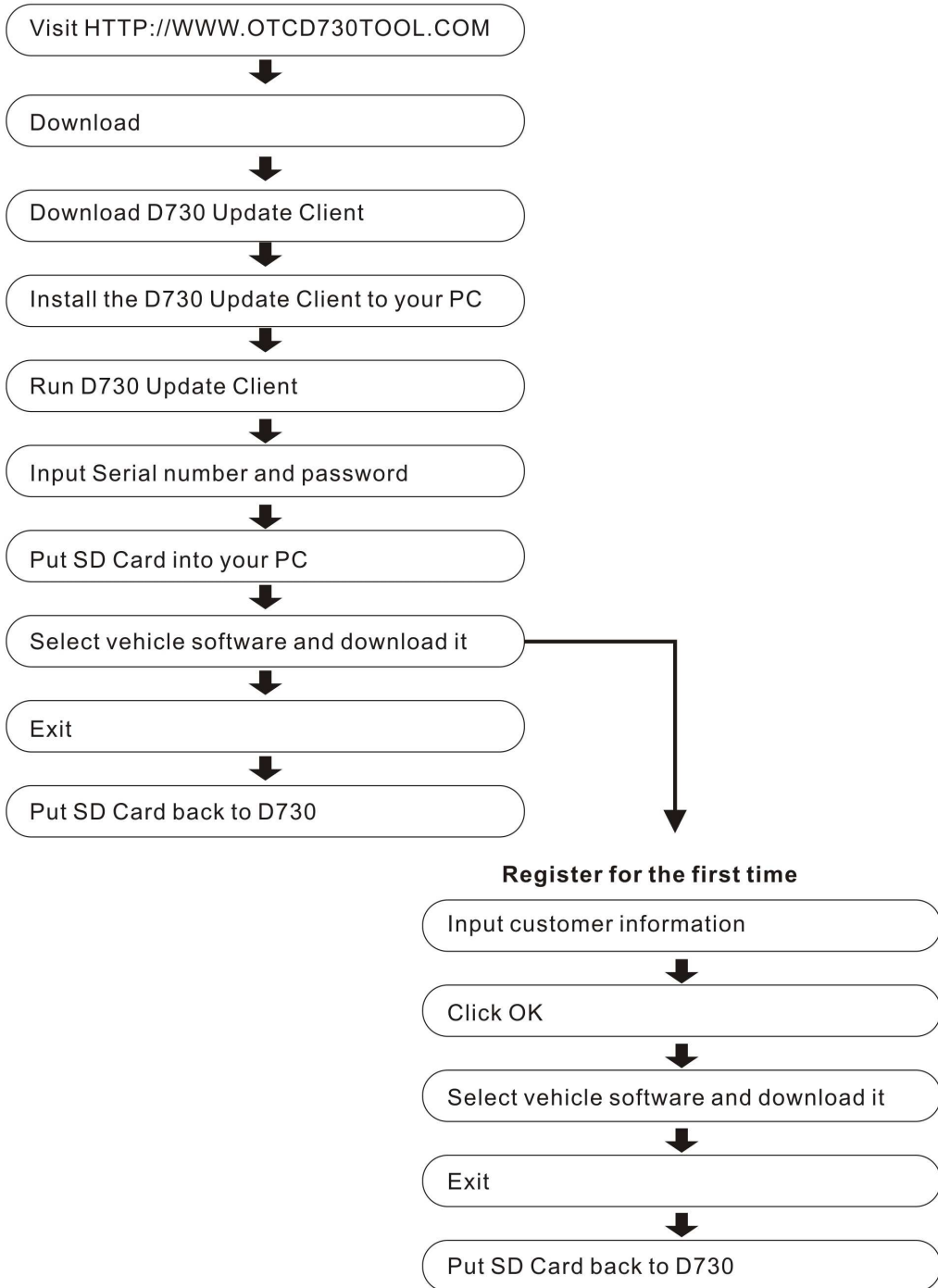


2.2.7 Special tests Instructions

Click the Button **[Special tests Instructions]**, and special tests, such as Injector code reading, Program new keys, air bleeding and others, will be shown step by step.



2.3 Flow Chart of D730 Software Upgrading



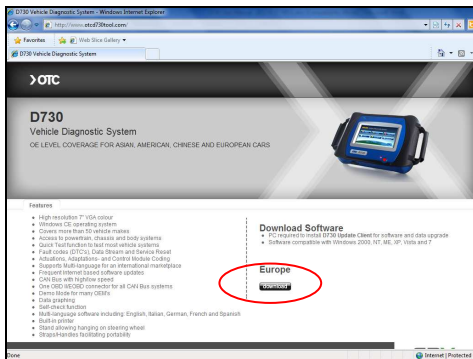
Software Upgrading

2.3.1 Download and Install “D730 Update Client”

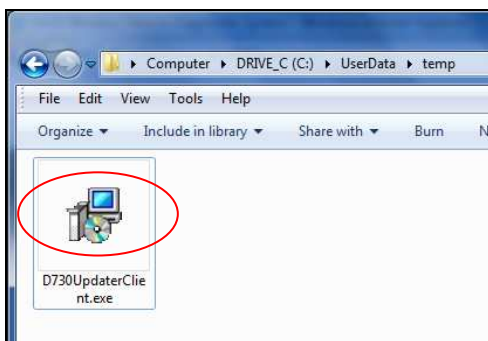
Step1: Visit OTC website at
[HTTP://WWW.OTCD730TOOL.COM](http://www.otcd730tool.com)



Step2: Click button **[Download]** to download the D730 Update Client to your PC as shown in left image.



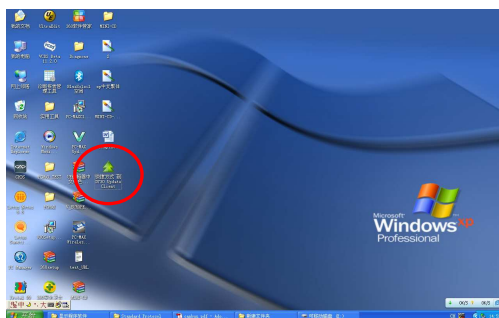
A file named **D730UpdateClient.exe** will be saved in your PC.






Step 3: Double click this file to install “D730 update client” step by step until you see the image shown on the left.

Note: Just click the button [Next] in each step during the installation. We advise you to keep everything as default. Please remember to input your name and company name.



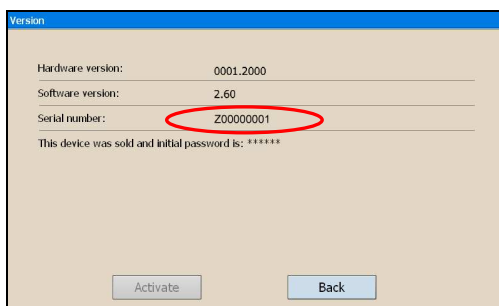
After finishing the installation, you will see the

icon shown below on your desktop. .

Download of “D730 update client” is finished.

2.3.2 Check D730 S/N and Password

Check the S/N: Please refer to **2.2.7 Version information** in this manual;



How to get password:

Click the button **[Activate]** to get the original register password as shown in left image.

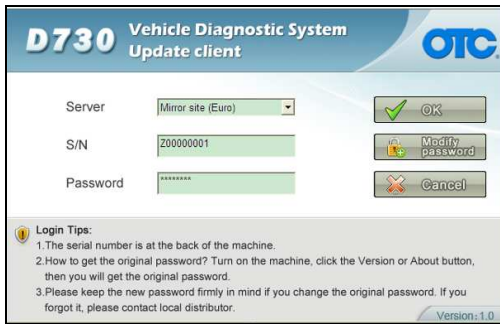


Fig 2-1 Login screen

2.3.3 Upgrading Instructions

2.3.3.1 Run D730 update client program

Step1: Take out the SD card from main unit, plug it into the USB SD card reader and connect to PC. Step 2: Double click to run the **D730 update client** program on your PC and go to update screen as shown in Fig 2-1.

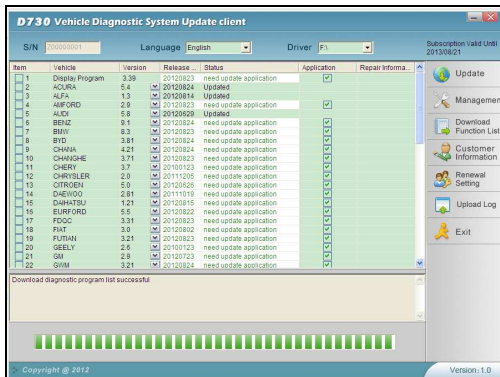


Fig 2-2 Downloads progress

2.3.3.2 Login the Server

- (1) Input the serial number and password then click the **[OK]** button to connect to server. It takes some seconds before the download is finished like Fig 2-2.
- (2) The default server is 'www.OTC.net'. Normally you do not have to change the server.

Note:

- ① Be sure that both S/N and password are correct. Please pay attention, the letters are case sensitive!
- ② If login takes a long time because of low internet speed, you can exit and retry;
- ③ Internet firewall might affect the login. If login fails, please make sure you have an internet connection, and ensure any installed firewall is not blocking the connection to the server. For detailed operation instructions, please contact technical support.

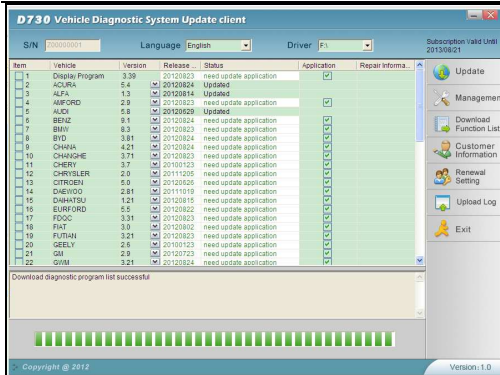


Fig 2-3 Program list screen

(4) After download is finished, all updates available will be displayed as shown in Fig 2-3.

(5) The update client will automatically identify new updates available for your D730.

2.3.3.3 Modify Password

After initial login, users can change original registered password.

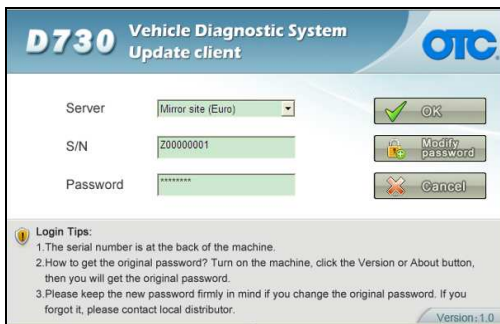


Fig 2-4 Modify password

Operation instruction:

(1) After inputting the serial number, click **[Modify password]** as shown in Fig 2-4 to go to the next step as Fig 2-5.

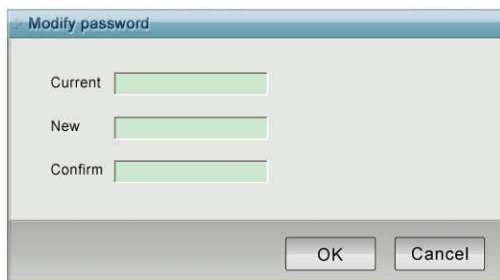


Fig 2-5 Modify password screen

(2) Input the current password and new password, then click **[OK]** for confirmation.

Note: Please keep the password in a secure location. If you forget the password, please contact OTC or technical support.

User information			
First name	test	Last name	test
Company name	RD Center, SPX		
Tel	111	Fax	22085888
Mob	1	Email	1111111@spx.com
Distributor code	11	Country	11
State/Province	11	City	11
Street No.	11	Post code	11

Fig2-6 Input customer info screen

2.3.3.4 Input Customer Information

You must fill in your personal information when you first login to D730 update client; otherwise you will not be able to download updates.

Operation instruction:

Click the button **[Customer info]** after login succeeds. You can see the screen as shown in Fig. 2-6. Input your information to the relevant spaces and click **[OK]** to save the information.

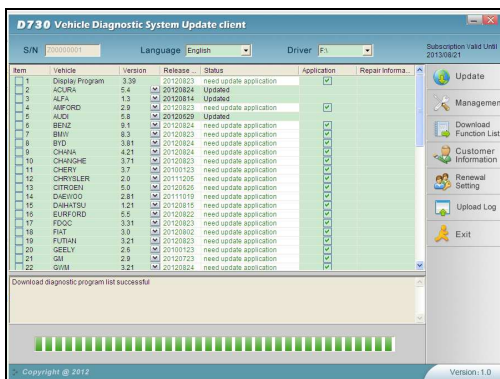


Fig.2-7 Download screen

2.3.3.5 Software Download

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

Operation instruction:

- (1) Choose the language version on the top and tick the small box before the relevant program as Fig. 2-7;
- (2) Click **[Download]** in right column to enter download status.

Note: A maximum of 10 items can be chosen to download simultaneously.

- (3) The software will be downloaded to your PC hard drive automatically.

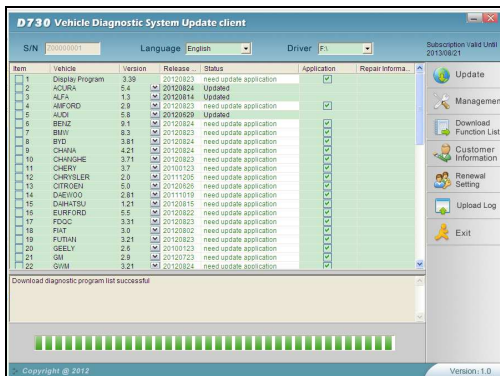


Fig.2-8 Download screen 2

2.3.3.6 Update

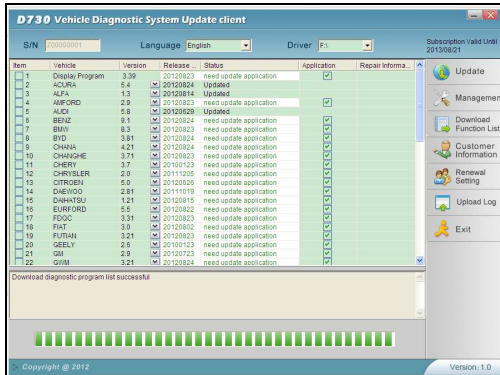


Fig.2-9 Software installation screen

- (1) Take out the SD card from D730 main unit;
- (2) Put the SD card into SD Card reader;
- (3) Connect the Card-Reader to PC USB port;
- (4) Select the SD card driver on the top-right side of software installation screen as shown in Fig.2-9;
- (5) Click the button **[Update]**, the selected programs already downloaded to your PC hard drive will be installed on SD card automatically.

Note: Make sure the update destination is the SD card driver. To confirm this, please enter “My computer” on the PC to verify the content in SD card.

2.3.3.7 Software Management

You can delete old versions of software on the SD card by software management.



Fig.2-10 software installation screen

Operation instruction:

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

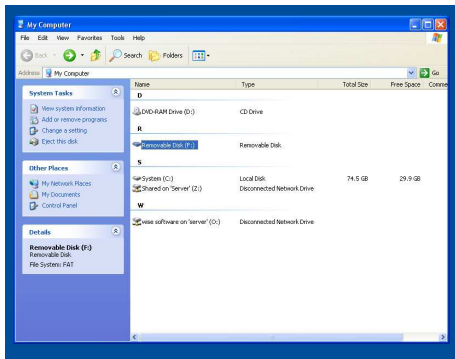
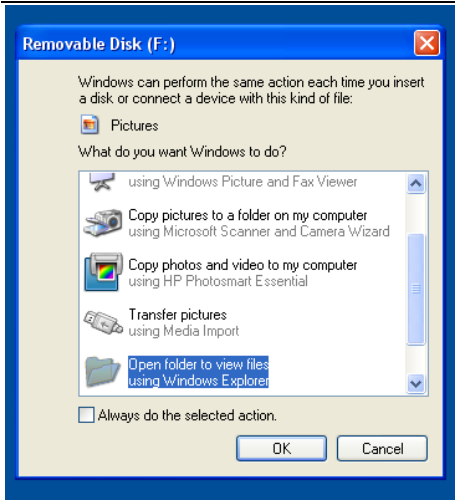
2.3.3.8 Exit

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

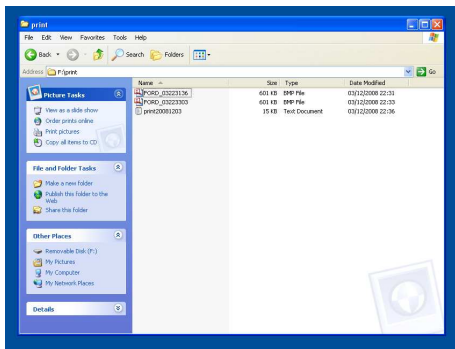
2.4 USE YOUR PC TO PRINT SAVED FILES FROM SD CARD

- (1). Insert SD card in SD card reader
- (2). Plug SD card reader into USB port of PC
- (3). Window as shown will pop up, select “open folder to view files” press “OK”

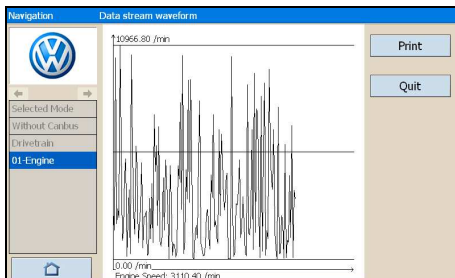
NOTE: You can also obtain a printout by pressing “Print” with the optional mini printer installed on the D730.



- (4). If the above window does not appear- go to “my computer”, double click the icon for “Removable disc (F:)” (NOTE: Drive letter may vary depending on assignment of letters by Windows.)



- (5). Double click “PRINT” folder and choose file required, double click to open file.



- (6). Depending on which program your PC has opened the file with, print using printer icon or select “File” then “Print” from top taskbar

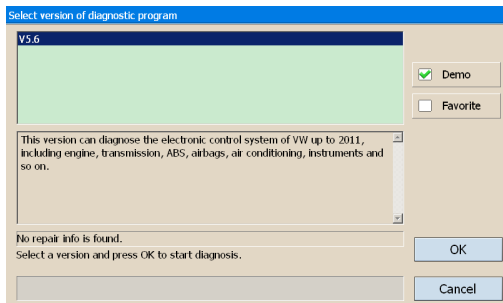
3 Test Procedure



3.1 Engine ECU Testing Methods

3.1.1 Testing Description

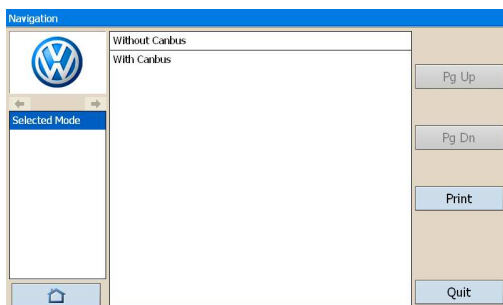
- (1) Power up and turn on the scanner;
- (2) Click **[Diagnose]** → **[Europe]** to enter screen as shown on the left image;



- (3) Select diagnostic program

Click **[VW]**, for example, to enter software version selection screen shown in the left image.

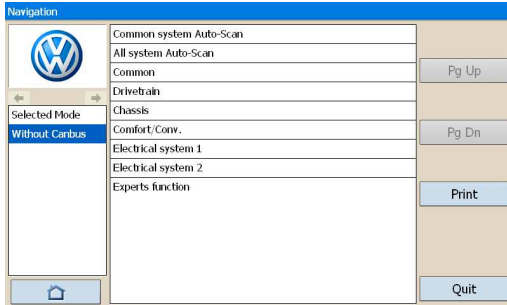
Note: Program descriptions will be displayed under the version information.



- (4) Select a version such as V3.1 and click [OK] as shown in left image. Click [Cancel] to go back to the previous menu;

- (5) Select vehicle type: take Volkswagen/Audi for example, we have two vehicle types for selection: [With Can bus] and [Without Can bus]. Here we choose without Can bus car as an example to introduce the test.

NOTE: VEHICLES WITH CAN BUS WILL HAVE DLC PINS 6 AND 14 POPULATED



(6) Select system:

[Common system Auto-Scan]: Test the common-use ECU automatically;

[All system Auto-Scan]: Test all ECU automatically;

[Common]: by choosing this item, all common-use ECU will be displayed on the screen, users can then select ECU required accordingly;

Other systems: Enter the systems as per relevant ECU type.



(7) Click **[Common]** to enter the screen shown on the left.

Select **[01-Engine]** to enter the screen with the following functions.

[01-Interrogate control unit versions]

[02-Interrogate fault memory]

[03-Final control diagnosis]

[04-Introduction of basis setting]

[05-Erase fault memory]

[06-End output]

[07-Coding]

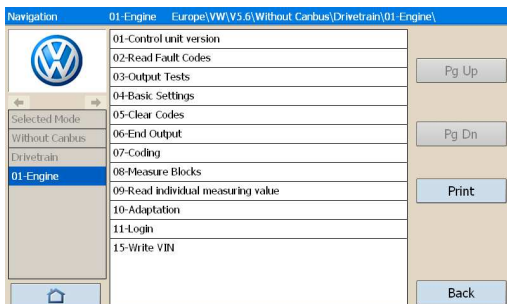
[08-Read measuring value block]

[09-Read individual measuring value]

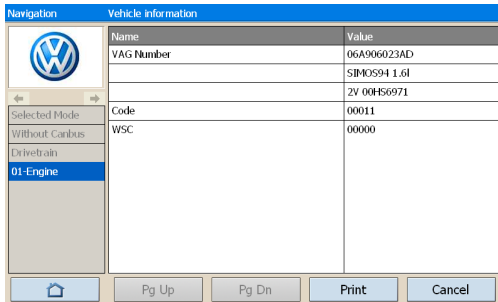
[10-Adaptation]

[11-Login procedure]

[15-Write VIN]



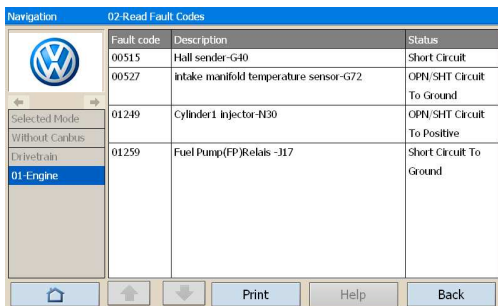
Note: Functions 04,07,10,15 require knowledge of the systems operation, please use with care.



① [01-Interrogate control unit versions]

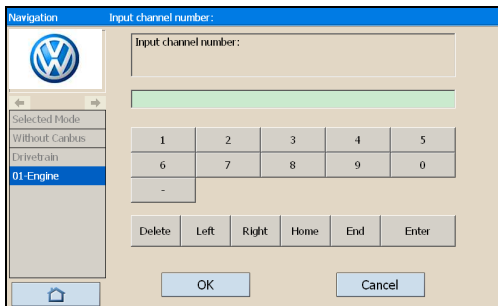
Click [01-Interrogate control unit versions] to see the information of control unit as shown on the left.

Note: Read out old ECU codes with this function when performing ECU coding.



② [02-Interrogate fault memory]

To display the DTC saved in the current control unit, click [02-Interrogate fault memory]. Please refer to the left image.



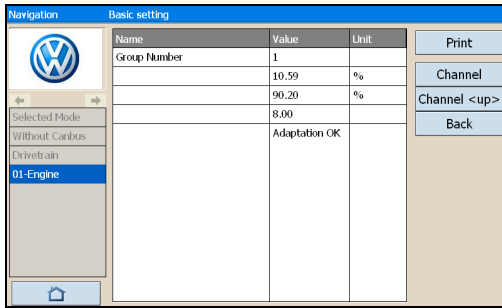
③ [03-Final control diagnosis]

Click the button [03-Final control diagnosis] to test relevant actuator automatically as shown on the left image. Click [Active Test] to begin actuator test.

④ [04-Introduction of basis setting]

Click the button [04-Introduction of basis setting] for basic setting. Input desired number using the number keys and click the button [OK] to start the basic setting.

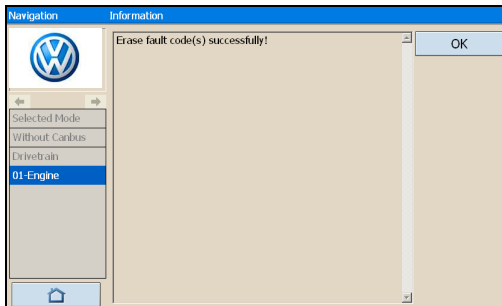
- [Del]: Delete the input numbers;
- [Left]: Move cursor to left;
- [Right]: Move cursor to right;
- [Home]: Move cursor to Home;
- [End]: Move cursor to End;
- [Enter]: confirm enters.



The window of “Basic setting!” in left image will popup after Basic Setting is done.

- **[Input]:** continue to Input number;
- **[Back]:** Back to the Function Menu.

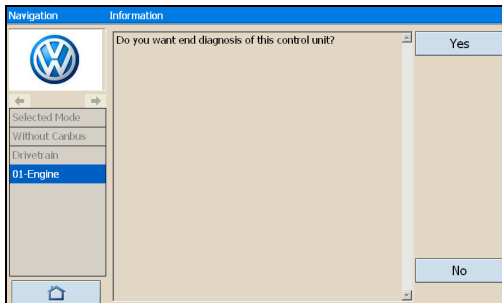
Note: Under basic setting mode, you can perform solenoid and engine control unit adaptation without starting the engine, or finish λ control process self-adaptation when engine starts. Also you can check faults or ignition timing by connecting or disconnecting λ control.



⑤ **[05-Erase fault memory]**

Click the button **[05-Erase fault memory]** to erase DTC as shown on the left image.

- **[OK]:** Return to the previous menu



⑥ **[06-End output]**

To exit from the diagnostic program, please click **[06-End output]**.

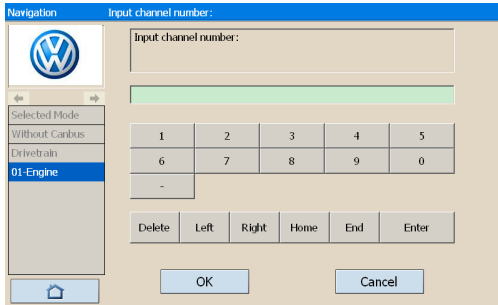
- **[Yes]:** Exit the diagnosis program

[No]: Return to the previous menu

⑦ **[07-Code control unit]**

Click **[07-Code control unit]** to go to screen as shown in the left image. Then input the code and click **[OK]**, the scanner will begin the coding. Click **[OK]** after coding succeeds.

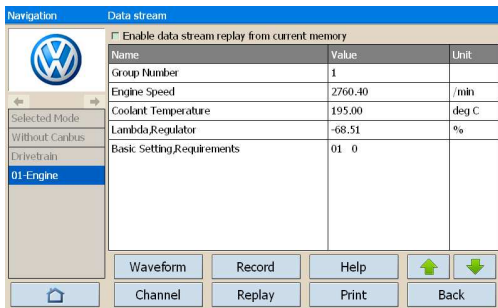
Note: Please only code the ECU after the ECU has been changed or a function has been added (e.g. Cruise control). You can get the code of the old ECU by choosing **[01-Interrogate control unit versions], then recode the new ECU accordingly.**



⑧ [08-Read measuring value block]

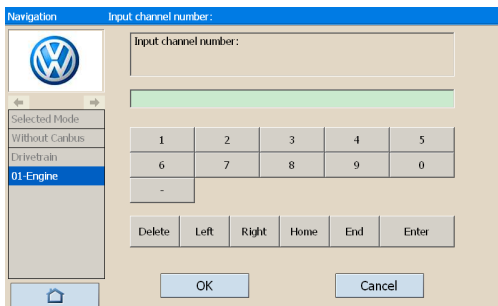
Click [08-Read measuring value block] to enter screen shown in left image. Please input the relevant channel number, and click [OK] to read data stream information.

Note: For channel definition, please refer to relevant technical manual.



The left image is the data stream of Group 01.

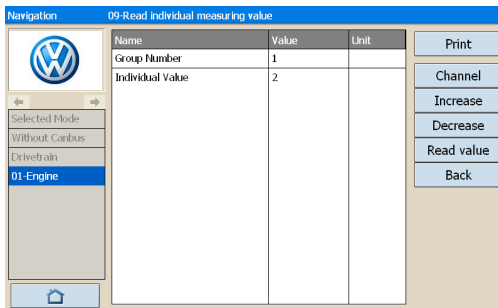
- [Page Up]: See previous group data stream;
- [Page Down]: See next group data stream;
- [Waveform]: Review data stream in graph;
- [Replay]: Review data stream;
- [Back]: Return to the Function Menu.
- [Print]: save the current screen to SD card.



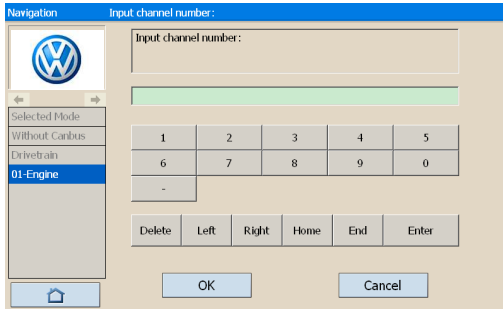
⑨ [09-Read individual measuring value]

Click [09-Read individual measuring value] to enter the screen shown in the left image. Input the channel number and click [OK] to view the relative data.

Click [Read Value], and current value will be displayed.



- [Input]: Back to the input screen;
- [Increase]: View the data of next channel number.
- [Decrease]: View the data of the previous channel number;
- [Read value]: Read current value;
- [Back]: Back to function list menu;
- [Print]: Save the current screen to SD card.

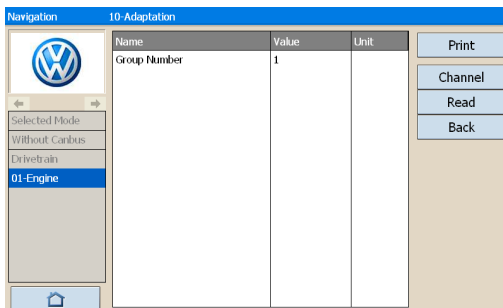


⑩ [10-Adaptation]

Click [10-Adaptation] to enter the screen for inputting channel number as shown in left image.

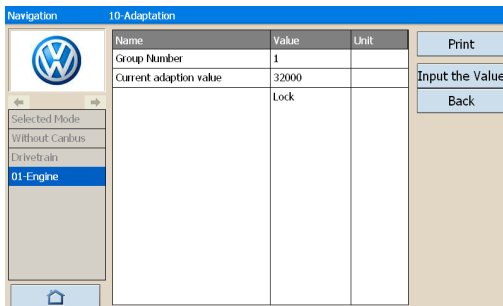
Note: Self-adaptation includes: self-study during idle, service reset, IMMO adaptation and so on. You should login first for some of the functions. For login methods, please refer to

⑪ [11-Login procedure] on page 26.



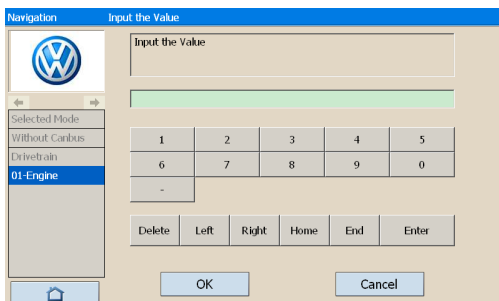
After inputting the relevant channel number, click [OK] to enter the screen as shown in left image.

- [Input]: Back to the “input number” screen;
- [Read]: Read the adaptation value of current channel;
- [Back]: Back to function list screen;
- [Print]: Save the current screen to SD card.

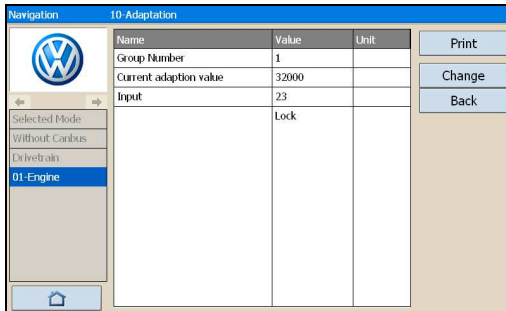


Click the button [Read] to read the adaptation value of current channel.

- [Input]: Input new adaptation value;
- [Back]: Back to function list menu.
- [Print]: Save the current screen to SD card.

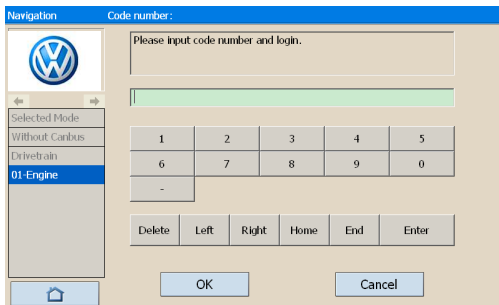


Click [Input] in enter the “input adaptation value” screen shown on the left. Input the new value and then click the button [Ok] to go to the next step.



After inputting the new value, new adaptation value will be displayed on the screen. If no error is found, please click the button **[Change]** to go to the next step.

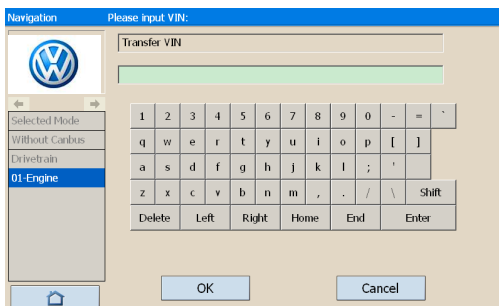
Last step: Click the button **[Save]** to save the new adaptation value and go back to the self-adaptation screen.



⑪ **[11-Login procedure]**

To perform adaptation in some group, login will be needed first. Just click the button **[11-Login procedure]**, input the code number and then click **[OK]**.

Note: Login is required when performing functions such as ECU coding, change channel adaptation and IMMO, etc.



⑫ **[15-Write VIN]**

Volkswagen/Audi uses the 3rd generation anti-theft technology, if you change engine control unit and instrument cluster at the same time you must rewrite the VIN code. Please click **[15-Write VIN]** to input the new VIN.

- **[Del]**: Delete the input numbers;
- **[Left]**: Move cursor to left;
- **[Right]**: Move cursor to right;
- **[Home]**: Move cursor to Home;
- **[End]**: Move cursor to End;
- **[Enter]**: confirm the information.
- **[Shift]**: same with **[Caps Lock] + [shift]** function on key board