Statement

The V-30 Diagnostic Computer can only operated by qualified technicians.

Trade mark

V30 ELITE 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 V30 ELITE Diagnostic Computer will be added to the user manual in the future. Updated versions of user manual will be available to download at AUTOBOSS website (http://www.AUTOBOSS.net).

● When reading the manual, please pay special attention to the words "Note", "Caution" or "Warning", read them carefully for appropriate operation.

V30 ELITE 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. AUTOBOSS 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 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 V30 ELITE 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 WIFI indicator

⑩ SD Card

⑪ Working state indicator

⑫ Power switch

⑬ Fuse
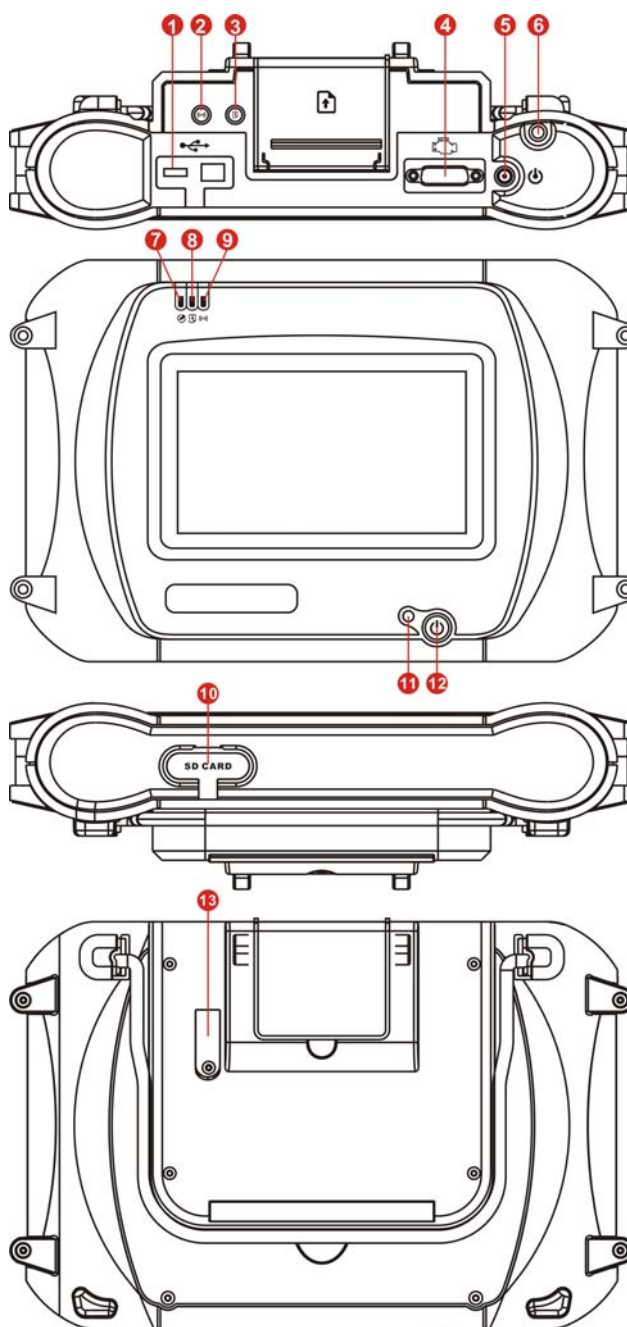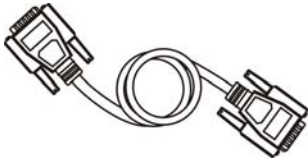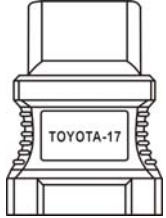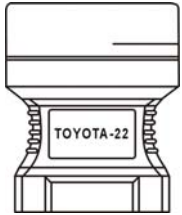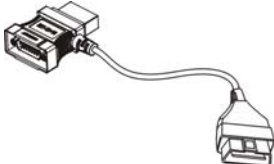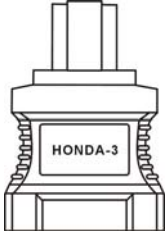
1.3 Technical Parameters
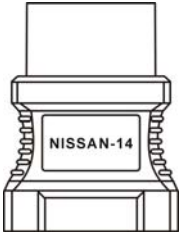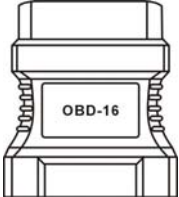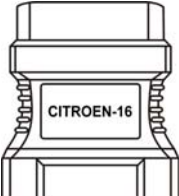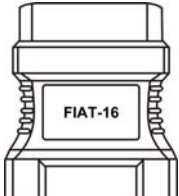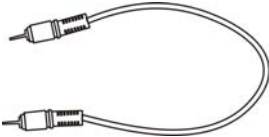
- **CPU:** SAMSUNG ARM9 2410A, 200MHz;
- **Memory:** 64M;
- **Flash card:** SD card, 8G
- **Display:** 7" Wide VGA (800×480) Ultra Bright TFT;
- **Power supply:** DC 8~15V
- **Port:** Diagnosis port, COM port, USB port, Power Port;
- **Operating system:** WINDOWS CE;
- **WIFI Model:802.11 b/g/n**
- **Storage temperature:** -30~85ºC;
- **Working temperature:** -10~70ºC;
- **Humidity:** <90%.
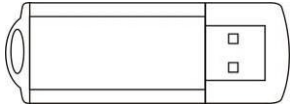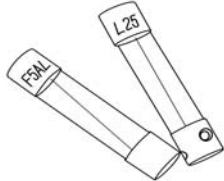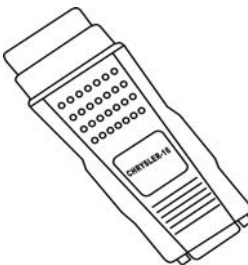
1.4 Configuration

Picture	Item	Description
	Name: V30 ELITE main unit **Quantity**: 1	**Function**: Display testing procedures and information
	Name: SD card **Quantity**:1	**Function**: Storage of Diagnostic programs and saved files
	Name: Touch pen / Stylus **Quantity**: 1	**Function**: For touch screen operation

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

Picture	Item	Description
	Name: Mazda-17 connector **Quantity**: 1	**Function**: Used for testing MAZDA vehicles equipped with a 17-pin DLC
	Name: TOYOTA-17 connector **Quantity**: 1	**Function**: Used for testing TOYOTA/LEXUS vehicles equipped with a semi-circular 17pin DLC
	Name: TOYOTA-22 connector **Quantity**: 1	**Function**: Used for testing Toyota and Lexus vehicles with a rectangular 22-pin DLC
	Name: MIT-12+16 connector **Quantity**: 1	**Function**: Used for testing Mitsubishi and Hyundai vehicles equipped with a 12-pin or 16-pin DLC
	Name: HONDA-3 connector **Quantity**: 1	**Function**: Used for testing HONDA and ACURA vehicles equipped with a 3-pin DLC
	Name: BENZ-4 connector **Quantity**: 1	**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

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

Picture	Item	Description
	Name: Battery power cable **Quantity**: 1	**Function**: Provide the power supply via battery
	Name: Cigarette lighter power cable **Quantity**: 1	**Function**: Provide the power supply via cigarette lighter on the car
-----	-----	-----
	Name: SD Card reader **Quantity**: 1	**Function**: Read SD card for software update or SD card reading and writing
	Fuse 5A 30*6	Spare parts
	Fuse 5A 20*5	Spare parts
	Name: Benz-14 pin connector **Quantity:** 1	**Function:** Used to test Mercedes-Benz Sprinter **Note:** Optional
	Name: Chrysler-16 connector **Quantity:** 1 **Note: Optional**	**Function:** Used to test Chrysler car with CCD protocol

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 V30 ELITE.

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
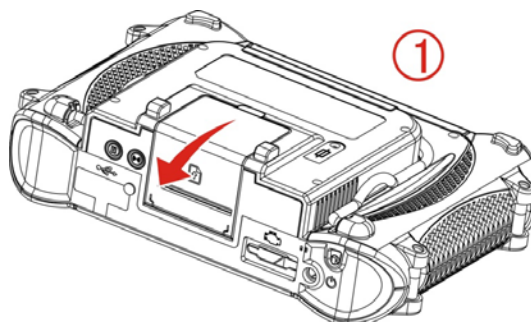
Step 2: take out the stick
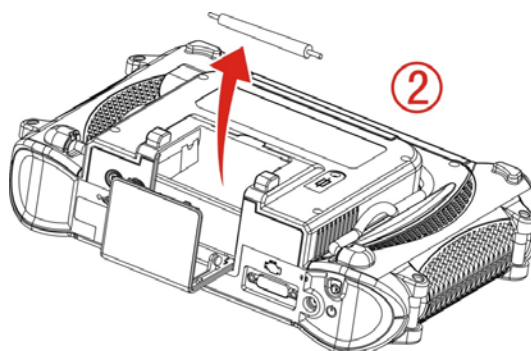
Step 3: Install the paper roll as shown in the following picture
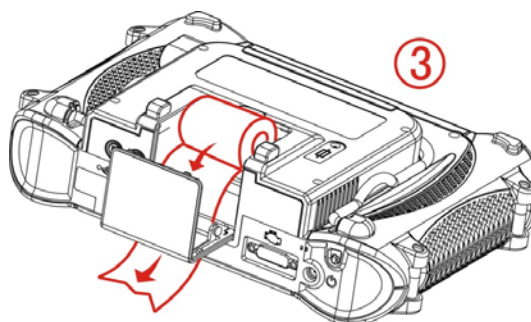
2. Operation

2.1 Power Supply & Cable Connection

2.1.1 Power Supply

There are 4 ways to get power for V30 Elite Diagnostic Computer. From:

① Vehicle DLC, no external power supply needed
② Cigarette lighter
③ Battery
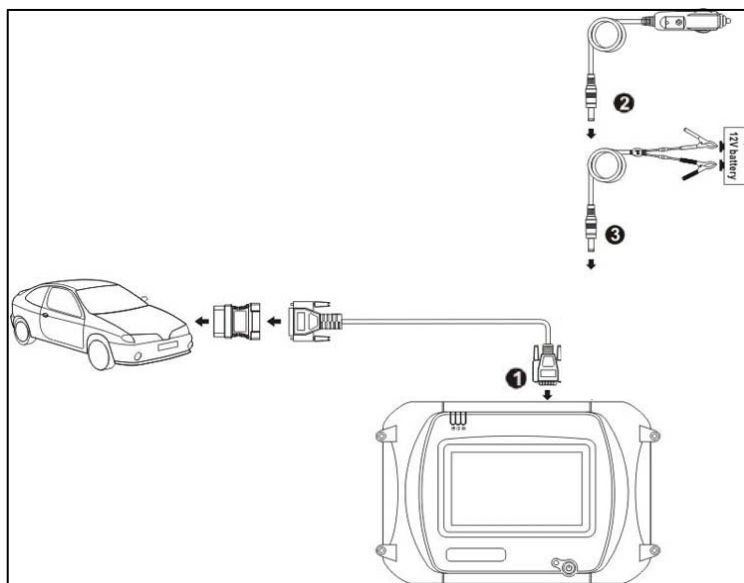
2.1.2 Cable Connection

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 Select corresponding connectors for car make and DLC.
② Connect one end of main cable to the main unit and the other end to the connector.
③ Plug the connector in to the DLC on car.
④ 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
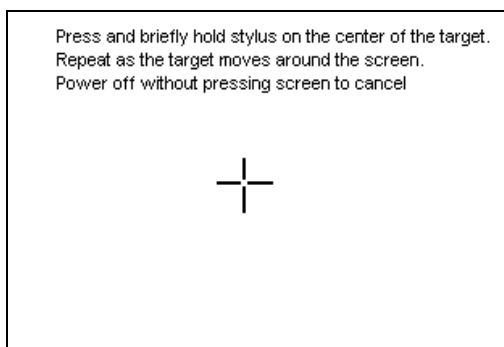
Several seconds after power is switched on, the screen will go into calibration mode. Click anywhere on the screen to start calibration if necessary.

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], [User Data], [Version] , [User Manual] and [Special tests Instructions],.

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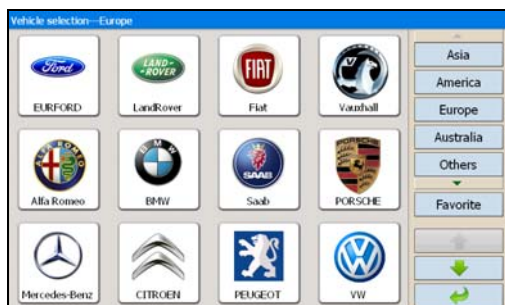
After entering [Diagnose], you will enter the diagnostic screen where you can select the region of vehicle manufacturer required: China, Europe, Asia, America, Others (OBDⅡ/EOBD) and Favorite.

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 OBDⅡ/EOBD and CAN-OBD.

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.
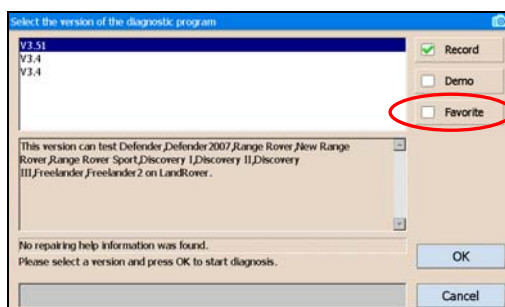
2.2.4 System Setting

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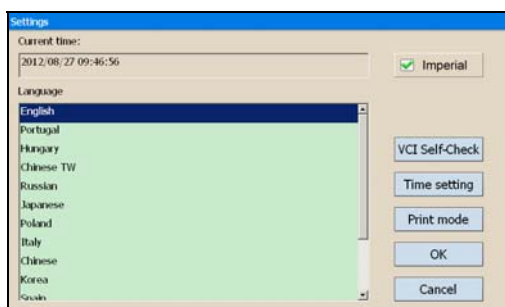
2.2.4.1 Language Setting

V30 ELITE supports Multilanguage. Choose any language needed under **[working language]** and press **[OK]** to finish language setting.
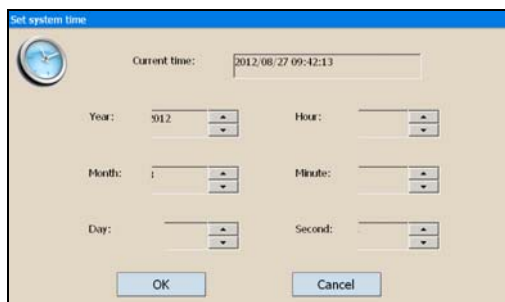
2.2.4.2 Time Setting

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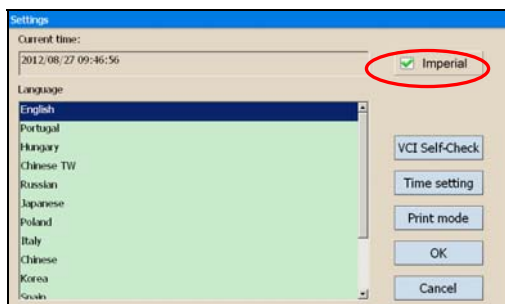
Click **[OK]** to save the setting or **[Cancel]** to exit.

2.2.4.3 Display Data Stream in Imperial

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

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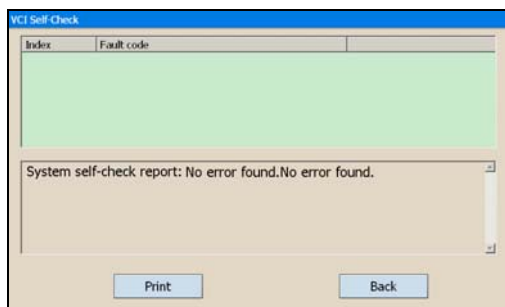
This is for hardware checking. Click the button **[Self check]** and any hardware faults will be displayed. Please contact technical support if a hardware problem is reported.

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

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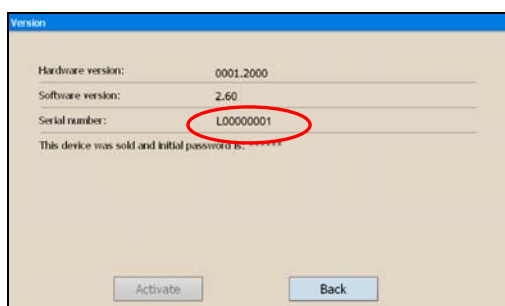
Click the button **[Version]** in main menu to get the information of Hardware version, Software Serial number, Release date, etc.

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 V30 ELITE Software Upgrading

Visit http://www.autoboss.net
↓
Select English website
↓
Download
↓
V30 Elite
↓
Download V30 Elite Update Client
↓
Install the V30 Elite Update Client to your PC
↓
Run V30 Elite Update Client
↓
Input Serial number and password
↓
Put SD Card into your PC → **Register for the first time**
↓   ↓
Select vehicle software and download it   Input customer information
↓   ↓
Exit   Click OK
↓   ↓
Put SD Card back to V30 Elite   Select vehicle software and download it
                                       ↓
                                       Exit
                                       ↓
                                       Put SD Card back to V30 Elite

AUTOBOSS

2.4 Software Upgrading

2.4.1 Download and Install "V30 ELITE Update Client"

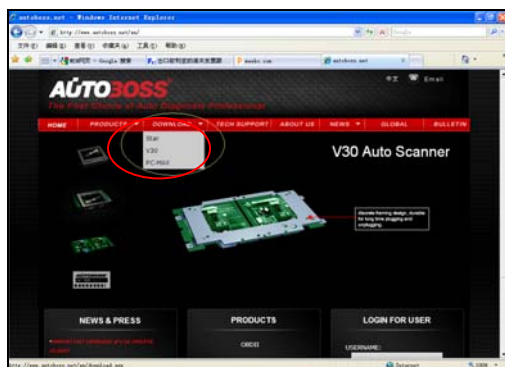Step1: Visit AUTOBOSS website at http://www.AUTOBOSS.net
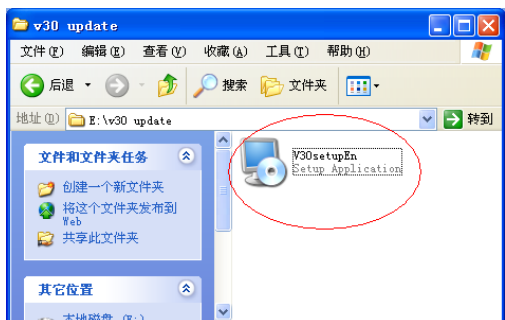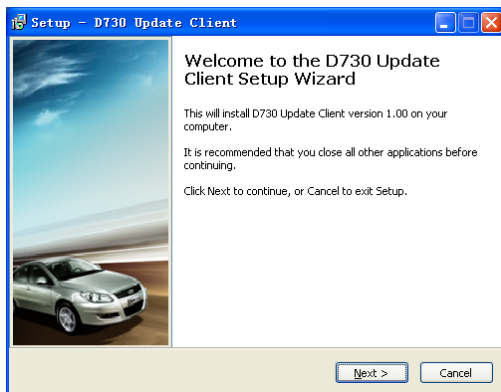
Step2: Enter English website

Step3: Click button **[Download]** and select V30 ELITE as shown in left image.
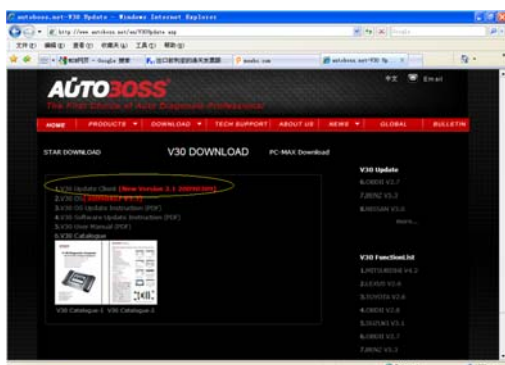
Step4: Click the option **[V30 Elite Update Client]** to download the update client to your PC.
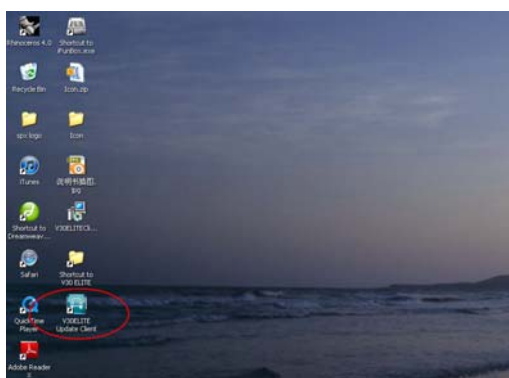
A file named V30 ELITEUpdateClien.exe will be saved in your PC.

Step 5: Double click this file to install "V30 ELITE 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 "V30 ELITE update client" is finished.
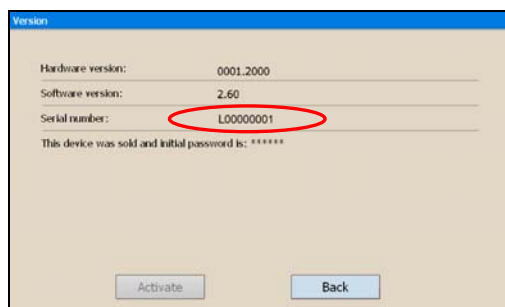
2.4.2 Check V30 ELITE S/N and Password

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

Fig 2-2 Downloads progress

2.4.3 Upgrading Instructions

2.4.3.1 Run V30 ELITE 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 **V30 ELITE update client** program on your PC and go to update screen as shown in Fig 2-1.
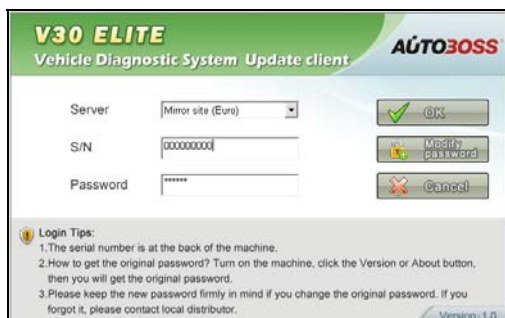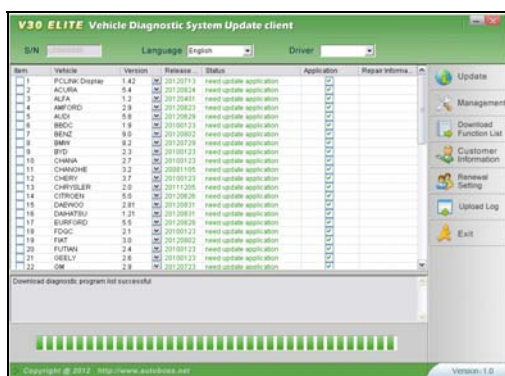
2.4.3.2 Login the Server

(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.AUTOBOSS.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.
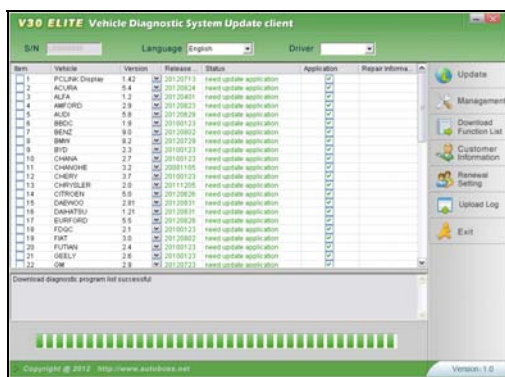
Fig 2-3 Program list screen

(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 V30 ELITE.

2.4.3.3 Modify Password

After initial login, users can change original registered password.

Fig 2-4 Modify password

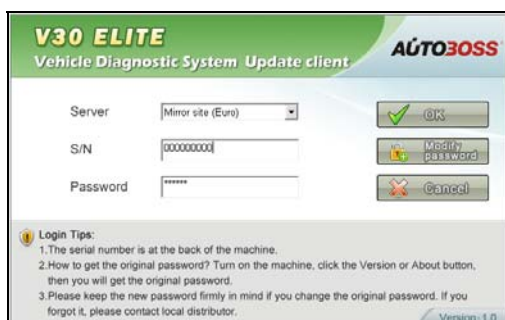**Operation instruction:**
(1) After inputting the serial number, click **[Modify password]** as shown in Fig 2-4 to go to the next step as Fig 2-5.

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 AUTOBOSS or technical support.

Fig2-6 Input customer info screen

Fig.2-7 Download screen

Fig.2-8 Download screen 2

2.4.3.4 Input Customer Information

You must fill in your personal information when you first login to V30 ELITE 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.

2.4.3.5 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.2-9 Software installation screen

2.4.3.6 Update

(1) Take out the SD card from V30 ELITE 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.

2.4.3.7 Software Management

Fig.2-10 software installation screen

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

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.

2.4.3.8 Exit

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

2.5 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 V30 ELITE.
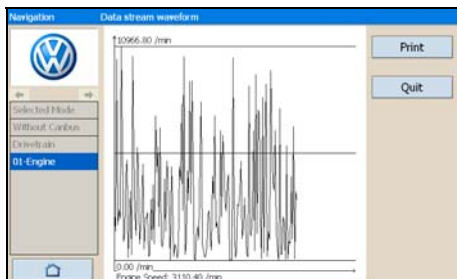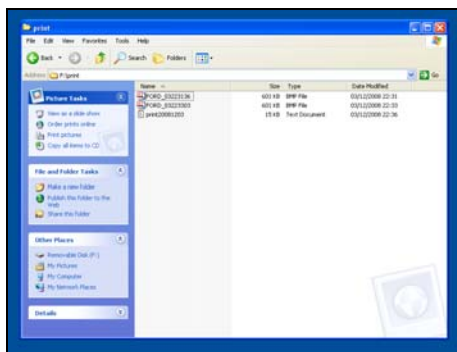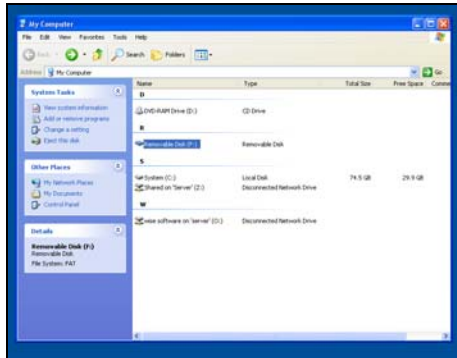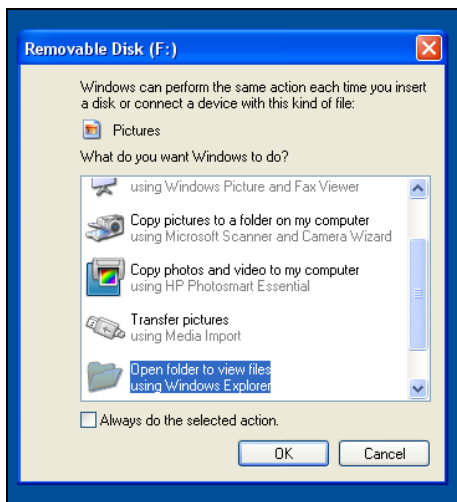
(4). If the above window does not appear- go to "my computer", double click the icon for "Removable disc (F:)"   (NOTE: Drive letter may vary depending on assignment of letters by Windows.)

(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

2.6 Logging function

The data logger records communication data and ECU information when you are testing vehicles. So if you have any technical problems when you are testing vehicles, you can use LOGGING function to send feedbacks back to AUTOBOSS head office who will analyze the data and help you solve the problems quickly.

To use LOGGING function, please follow the following steps:
Step 1: Click Record, then Click OK to test vehicles
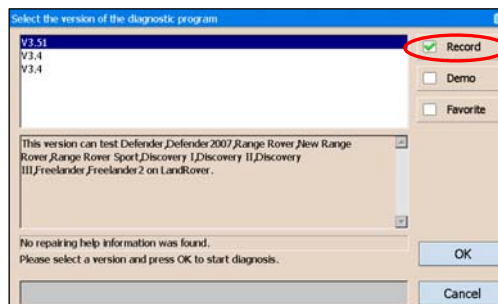
Step 2 : After testing the vehciles, exit testing program and power off V30 Elite.

Step 3: Take out SD Card from V30 Elite and put it into your laptop.
Step 4: Log in V30 Elite UPDATE CLIENT
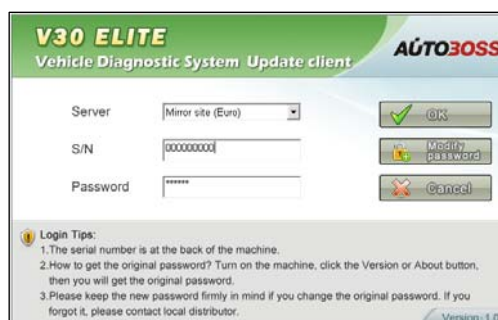
Step 5: Click Upload Log
Step 6: After Uploading is finished, Click Exit.
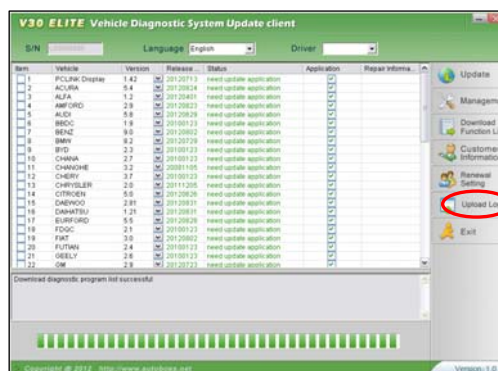
3.Test Procedure

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 d**escriptions will be displayed under the version information.**
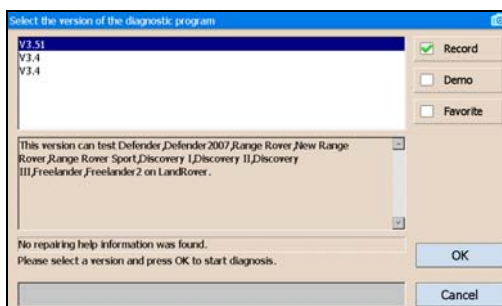
(4)Select a version such as V3.1 and click [OK] as shown in left image. Click [Cancel] to go back to the previous menu;

(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.
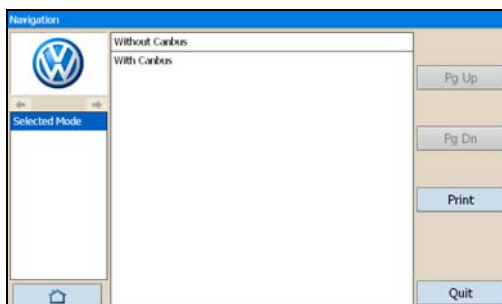
NOTE: VEHICLES WITH CAN BUS WILL HAVE DLC PINS 6 AND 14 POPULATED
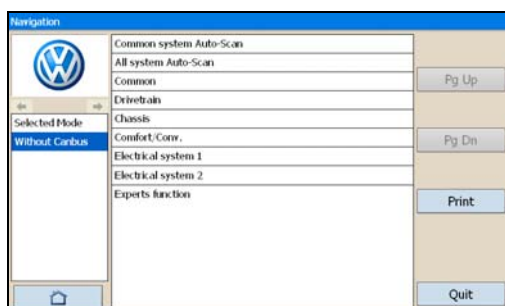
(6) Select system:

[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]
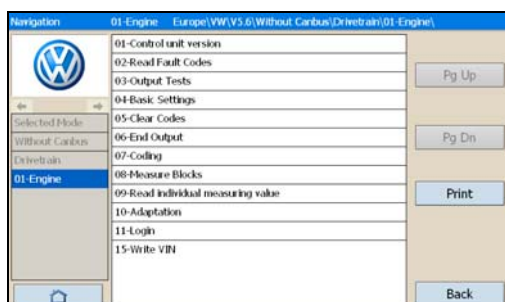
Note: Functions 04,07,10,15 require knowledge of the systems operation, please use with care.
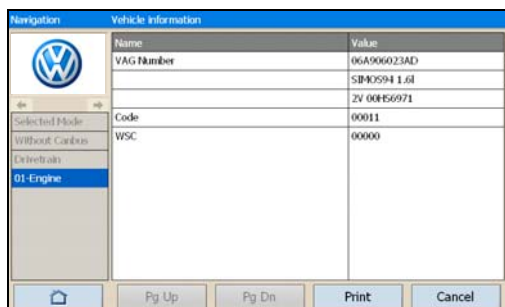
① **[01-Interrogate control unit versions]**

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.
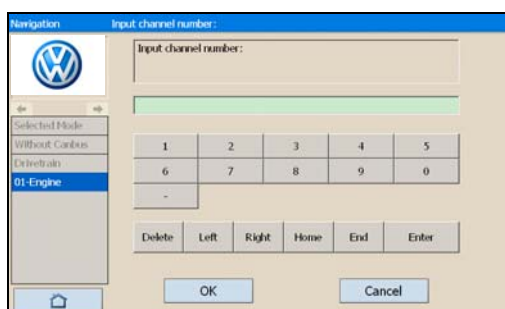
③ **[03-Final control diagnosis]**

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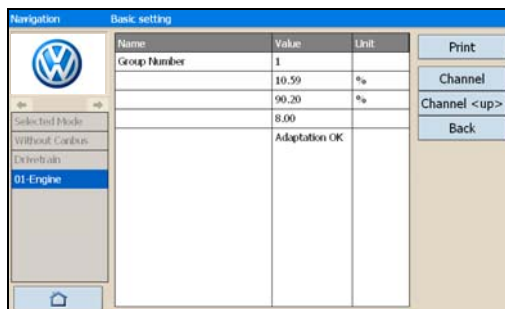
The window of "Basic setting!" in left image will popup after Basic Setting is done.

- **[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
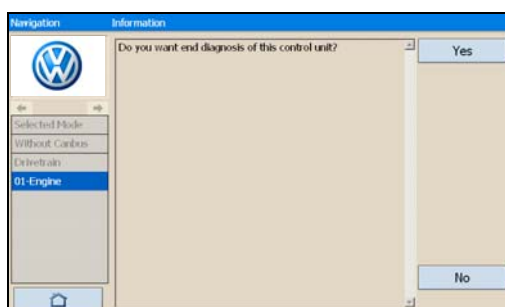
⑥ **[06-End output]**

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]**

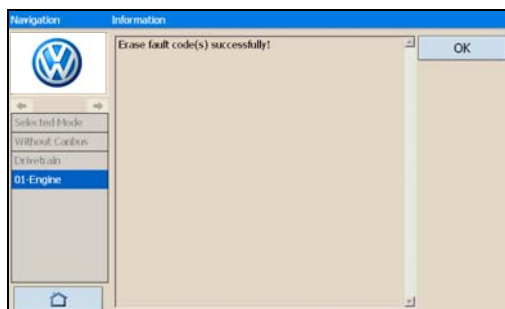Click **[07-Code control unit]** to go to screen as shown in the left image. Then input the code and click **[OK]**, the scanner will begin the coding. Click **[OK]** after coding succeeds.

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.
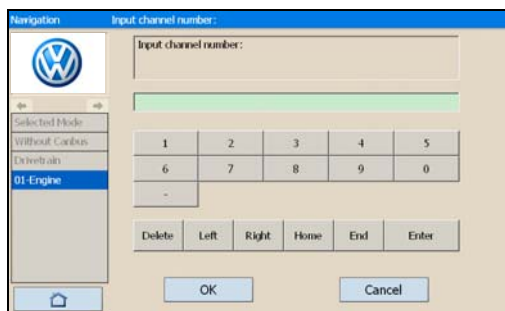
⑧ **[08-Read measuring value block]**

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.
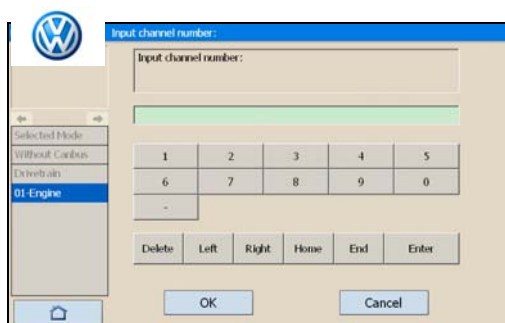
⑨ **[09-Read individual measuring value]**

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.
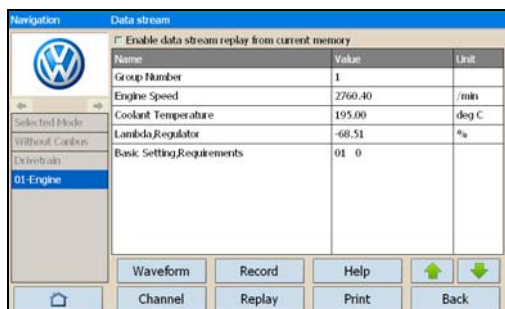
Click **[Read Value]**, and current value will be displayed.
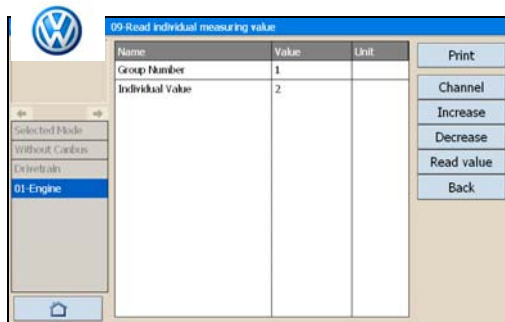
● **[Input]**: Back to the input screen;
● **[Increase]**: View the data of next channel number.
● **[Decrease]**: View the data of the previous channel number;
● **[Read value]**: Read current value;
● **[Back]**: Back to function list menu;
● **[Print]:** Save the current screen to SD card.
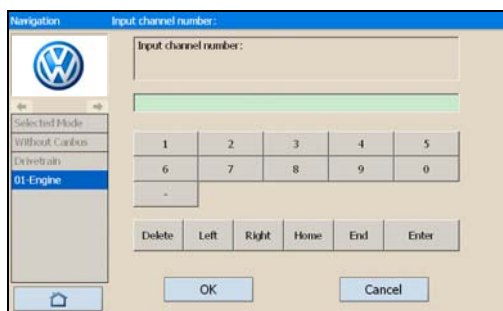
⑩ **[10-Adaptation]**

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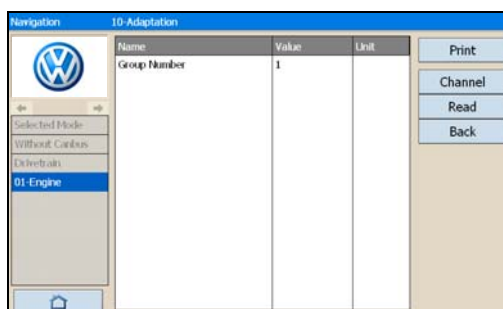
After inputting the relevant channel number, click **[OK]** to enter the screen as shown in left image.

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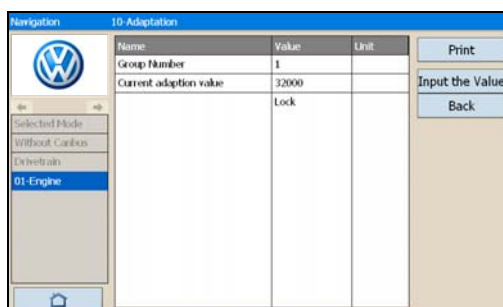
Click the button **[Read]** to read the adaptation value of current channel.

- **[Input]**: Input new adaptation value;
- **[Back]**: Back to function list menu.
- **[Print]**: Save the current screen to SD card.
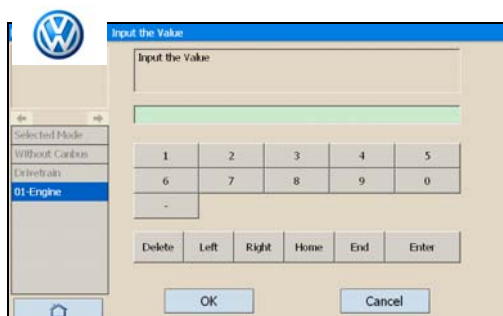
Click **[Input]** in enter the "input adaptation value" screen shown on the left. Input the new value and then click the button **[Ok]** to go to the next step.

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

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 interfee, 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.**

FCC Radiation Exposure Statement:

The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without RF striction.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 or 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 the 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.