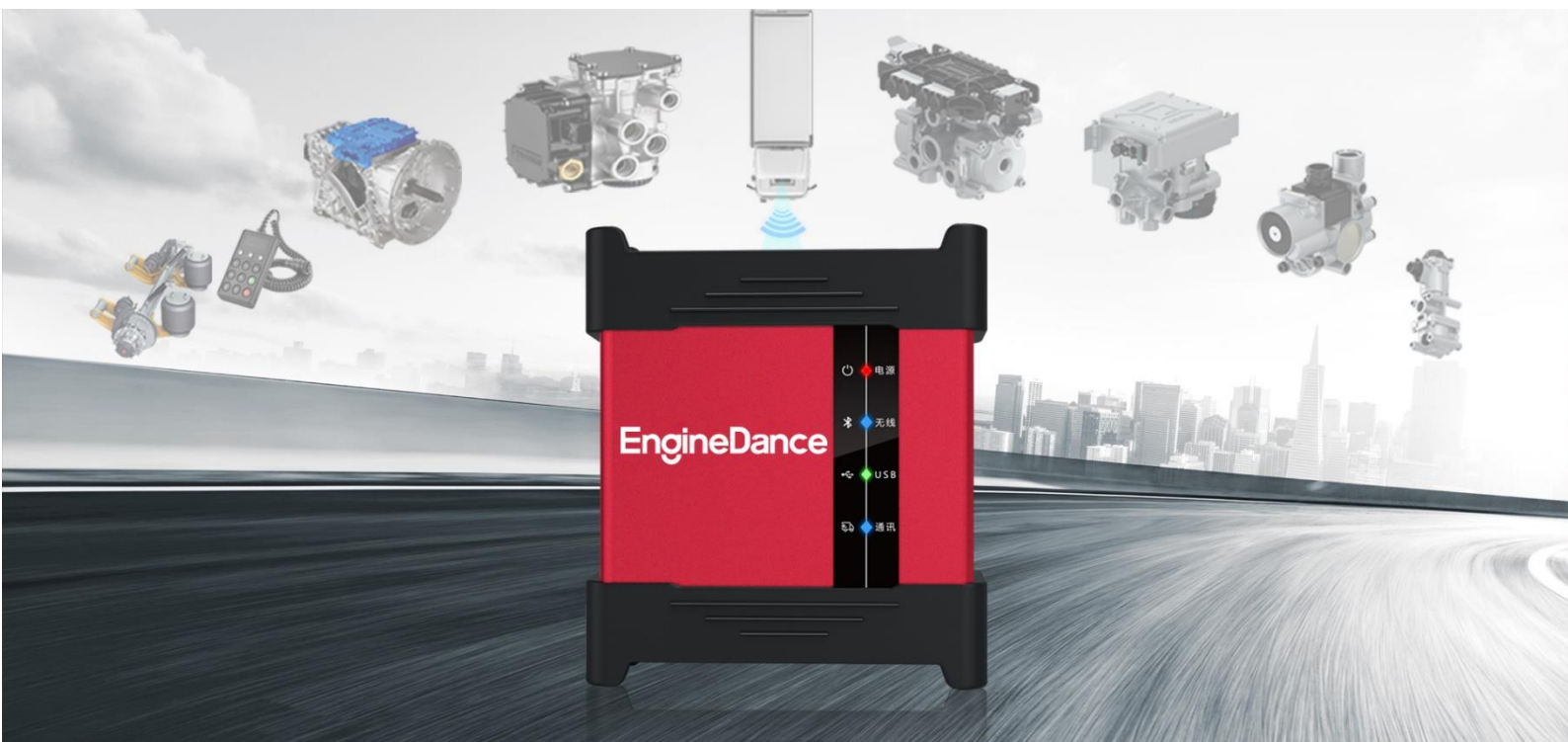


EngineDance



ABS-EBS Special Diagnostic System

User Manual

1 Important Notes.....	3
1.1 Agreement.....	3
2 Safety Information	4
3 Product Introduction.....	6
3.1 Product Overview	6
3.2 Product Hardware Introduction.....	6
4 Initial Use.....	7
4.1 Product Power Supply	7
4.2 Software Download and Installation	7
4.3 Bluetooth Pairing	8
5 Registration and Activation.....	11
5.1 Launching the Software	11
5.2 Device Registration and Activation.....	12
5.3 Product Activation	13
5.4 Software Upgrade.....	14
6 Function Introduction	14
6.1 Intelligent Diagnosis: ABS-EBS Brakes - ECAS Air Suspension - ADAS Radar	15
6.2 Advanced Functions.....	17
6.3 Remote Assistance.....	18
6.4 Software Update	19
7 Software Upgrade.....	20
8 Technical Parameters.....	20
9 Maintenance, Care, and Warranty	20
9.1 Cleaning and Maintenance.....	20
9.2 Equipment Warranty.....	20

1 Important Notes

Before powering on, connecting, and operating the ABS-EBS Special Diagnostic product, you must carefully read the operating instructions/user manual, especially the safety warnings. For your own safety and to avoid damaging the product, please eliminate any unsafe conditions and corresponding potential hazards associated with using the ABS-EBS Special Diagnostic product in advance. If transferring an ABS-EBS Special Diagnostic product to a third party, you must also transfer the user manual along with the safety warnings and information regarding proper operation.

1.1 Agreement

By using this product, you indicate your acceptance of the following terms:

Declaration

- Product configuration is subject to the packing list provided with the product and is based on the actual items received.
- The functions and images described in this manual are subject to what is actually provided by the software.

This product must not be used in:

Locations characterized by a separate power supply network, typically fed by a high-voltage or medium-voltage transformer, dedicated to supplying power to manufacturing or similar plant facilities, and possessing one or more of the following conditions:

- Frequent switching of large inductive or capacitive loads;
- Strong currents and corresponding magnetic fields;
- Presence of industrial, scientific, or medical (ISM) equipment (e.g., welding machines).

Copyright Information

Without the prior written consent of ABS-EBS Special Diagnostic, no company or individual may reproduce or back up this manual in any form (electronic, mechanical, photocopying, recording, or other forms).

The software and data are owned by ABS-EBS Special Diagnostic and are protected by copyright law, international contractual law, and the legal provisions of other countries or regions. They may not be copied. Copying or transferring the data and software or any part thereof is strictly prohibited. ABS-EBS Special Diagnostic will pursue legal action against any violation and has the right to enforce compensation for property damage.

Disclaimer and Limitation of Liability

All information, specifications, and illustrations in this manual are the latest available at the time of publication. ABS-EBS Special Diagnostic reserves the right to make changes without prior notice. The content of this manual has been carefully reviewed but no guarantee is made regarding its completeness or accuracy (including but not limited to product specifications, functions, and illustrations).

The company shall not be liable for any direct, indirect, special, incidental, or consequential damages or any indirect economic losses (including but not limited to loss of profits).

- Product configuration is subject to the packing list provided with the product and is based on the actual items received.
- The functions and images described in this manual are subject to what is actually provided by the software.

Note: Before operating or maintaining the equipment, please read this manual carefully, especially the safety precautions.

Warranty

The company assumes no responsibility or warranty for losses resulting from changes to its products caused by the use of unauthorized hardware and software, even if such hardware or software is subsequently uninstalled or deleted. Unauthorized modifications to this product are not permitted. Only original parts and accessories from the company may be used; otherwise, all warranty obligations become void.

The product may only be operated using operating systems approved by ABS-EBS Special Diagnostic. If unauthorized operating systems are used to run the product, the company's warranty obligations become invalid according to the terms of supply. Furthermore, the company shall not be liable for losses and subsequent damages resulting from the use of unauthorized operating systems.

2 Safety Information

For your own safety and the safety of others, and to avoid damage to the device and the vehicle, all personnel operating this device must read the safety precautions mentioned in this manual.

Before using the device, refer to and comply with the safety information and applicable procedures provided by the vehicle or equipment manufacturer. Use the device according to the instructions in this manual. Read, understand, and follow all safety information and instructions in the manual.

Safety Guidelines

Safety information is primarily intended to prevent personal injury and equipment damage. All safety information is indicated by a specific signal word denoting the level of hazard.



DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or bystander.



WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or bystander.

Safety Instructions

The safety information provided here covers all situations known to ABS-EBS Special Diagnostic. ABS-EBS Special Diagnostic cannot know, predict, or advise on all possible hazards. Personnel installing and using the equipment must ensure that operations performed under any circumstances do not pose a risk to personal safety.



DANGER: When the engine is running, keep the area well ventilated or properly connect the engine exhaust pipe to the building's exhaust system. Carbon monoxide gas produced by the engine can cause unresponsiveness, serious personal injury or death.



SAFETY WARNING:

- The ABS-EBS Special Diagnostic Tester may only be connected to a properly grounded and fused power outlet.
- Use only the power cord supplied with the ABS-EBS Special Diagnostic Tester or a tested and approved equivalent.

- Keep clothing, hair, hands, tools, equipment, etc., away from moving or hot engine components.
- Vehicle exhaust fumes are hazardous. Use the device only in well-ventilated areas.
- Exercise extreme caution when working around ignition coils, distributor caps, ignition wires, and spark plugs. The voltage generated by these components while the engine is running is dangerous.
- Equip the work area with fire extinguishers suitable for gasoline, chemical, and electrical fires.
- Do not place the device on the vehicle's alternator. Strong electromagnetic interference can damage the device.
- After successfully installing the device and before starting the engine, confirm that the parking brake is engaged and the gear selector is in Neutral (manual transmission) or Park (automatic transmission) to prevent the vehicle from suddenly moving and causing injury.
- Smoking and open flames are strictly prohibited during testing.
- Car battery fluid contains sulfuric acid, which is corrosive to skin. Avoid direct contact between battery fluid and skin during operation, and be especially careful to prevent it from splashing into the eyes.
- Engine components become hot during operation. Avoid contact with high-temperature parts such as the radiator and exhaust pipe.
- Wear approved safety glasses during all vehicle testing procedures.
- Do not touch people with the battery clamps when they are energized.

Instrument Usage Notes

- This instrument is a precision electronic device. Do not drop or subject it to impact.
- During the first test, the instrument may respond slowly. Please wait patiently and avoid frequent operation.
- Ensure a good connection between the instrument and the diagnostic socket to avoid signal interruption affecting the test. If abnormal connection is found, unplug and reconnect the connector once. Do not shake the connector vigorously during use.
- When using connection cables and connectors, try to fasten them with screws to avoid disconnection and port damage during movement. When unplugging a connector, hold the front end of the connector; never pull on the back-end cable.
- Handle with care, place in a safe location, avoid impacts, and disconnect the power when not in use.
- Operating this instrument requires a certain foundation in automotive testing and repair and some knowledge of the electronic control system of the vehicle being tested.

Precautions for Operating Vehicle ECU

When performing diagnostic operations on vehicles equipped with computer-controlled systems, note the following:

- Do not place magnetic objects such as radio speakers near the ECU, as the magnetic field can damage circuits and components inside the ECU.
- Never disconnect electrical devices inside the car when the ignition switch is ON. Due to the self-inductance of coils, a very high transient voltage will be generated upon disconnection, which can damage sensors and the ECU.
- Exercise particular care when performing repair work near the ECU or sensors to avoid damaging them.
- Ensure the ECU wiring harness connector is reliably connected; otherwise, it may damage internal integrated circuits and other electronic components of the ECU.
- When performing maintenance work on or near an ECU-controlled digital instrument panel, always wear a grounding strap, attaching one end to the vehicle body and wrapping the other end around your wrist.
- When performing welding work on the vehicle, first cut off the power to the ECU system.
- Do not use a test light to test electrical devices related to the ECU to prevent damage to the ECU or sensors, unless specifically instructed.
- Unless specifically stated in the test procedure, do not use an analog ohmmeter to test the ECU and sensors. Use a high-impedance digital meter instead.

3 Product Introduction

3.1 Product Overview

This product is the latest generation ABS-EBS Special Diagnostic Tester, meticulously developed by top domestic automotive diagnostic technology experts. It integrates multiple advanced domestic and international technologies, featuring a fast, stable system, simple and intelligent interface operation, and a leading ABS-EBS detection system.

The main functions of this product include ABS-EBS brakes - ECAS air suspension - ADAS radar, reading OBD voltage, EOBD, vehicle annual inspection, etc., truly achieving worry-free ABS-EBS diagnosis with one device in hand. The product has a steady and grand appearance and reasonable dimensions. The main unit is made of high-end aviation-grade alloy material, sturdy and reliable. It is used in conjunction with a laptop or Windows tablet omputer, with simple operation.

This product represents the highest level of diagnostic technology in the world today and is the best solution for repair shops, 4S stations, and other users for automotive brake system diagnosis and repair.

3.2 Product Hardware Introduction



Figure 3-2-1 Main Unit Front View



Figure 3-2-2 Main Unit Rear View

4 Initial Use

4.1 Product Power Supply

When the main unit is connected to power, the power indicator light on the main unit will illuminate red continuously, and it will automatically power on and start up. The Bluetooth communication light will enter a blue flashing state.

4.2 Software Download and Installation

We will have different configurations for different product versions. If your product version is our built-in tablet, you do not need to download and install software. When you receive the product, our diagnostic software has already been installed on your tablet and Bluetooth paired with the diagnostic host. You can skip the content of chapters 4.2 and 4.3 and just register and activate the product starting from 5.1 to use it normally.

If your product version does not come with a tablet, you need to follow the steps below to install diagnostic software on your computer or laptop.

Find the software package on your computer and double-click to run the installation

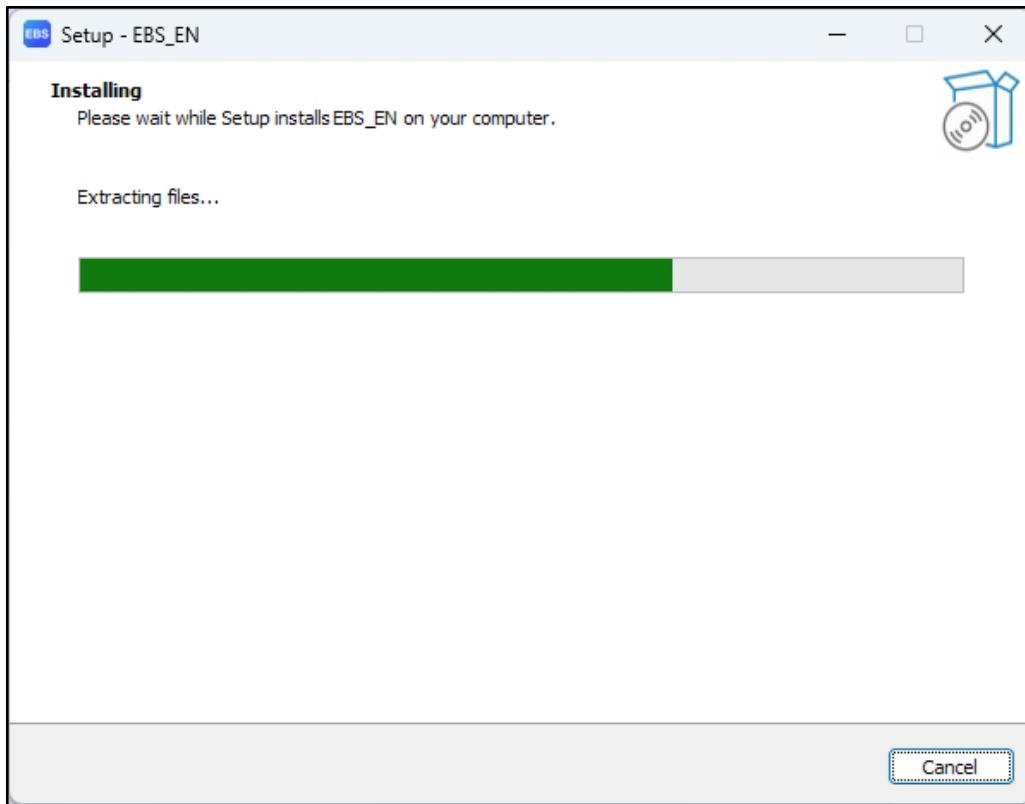


Figure 4-2-1

At this point, the software has been successfully installed on your computer.

4.3 Bluetooth pairing

After successful software installation, it is necessary to pair your computer with the ABS-EBS diagnostic device to perform Bluetooth pairing on the diagnostic host of this product.

On your computer, go to the Windows settings interface through the "Start" menu in the bottom left corner of the screen, Choose to add Bluetooth or other devices, as shown in Figure 4-3-1, After entering, select "Bluetooth" as shown in Figure 4-3-2.

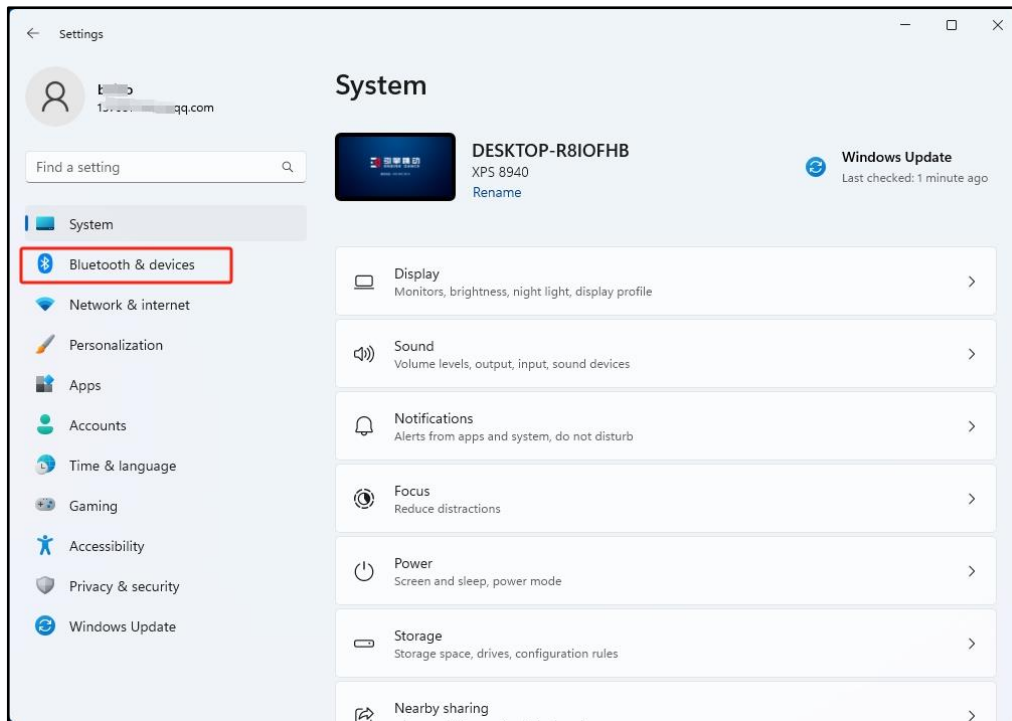


Figure 4-3-1

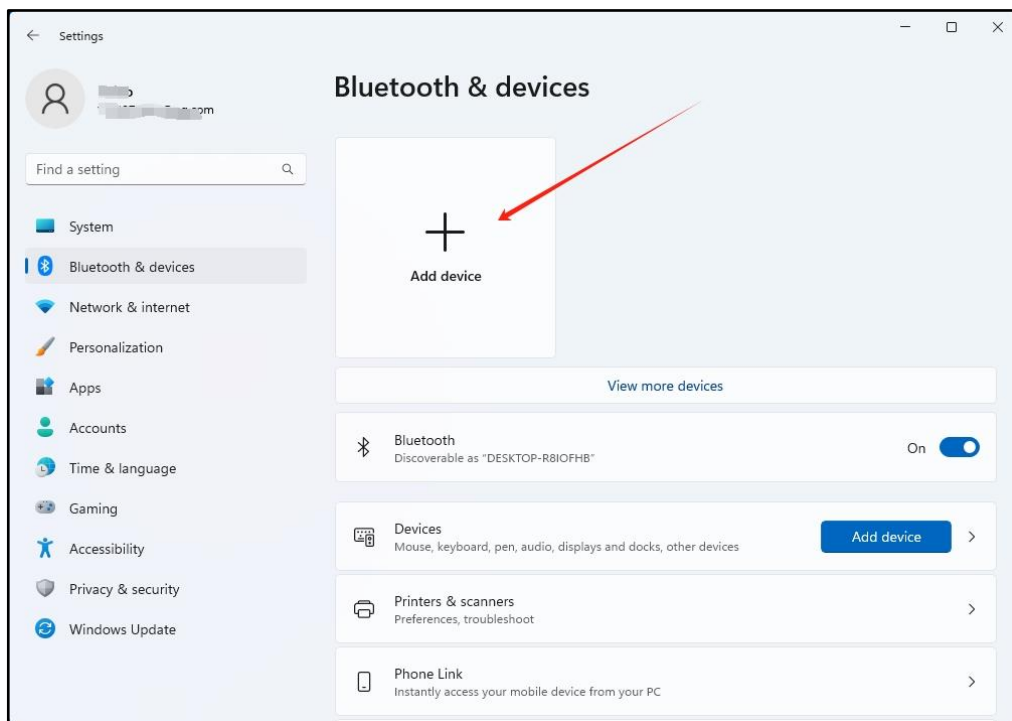


Figure 4-3-2 Adding Bluetooth

After entering, the system will automatically scan for Bluetooth devices that can be paired and list them in the list. Select the Bluetooth device "ED_***** SPP" in the list to pair. After successful Bluetooth pairing, it will prompt "Your device is ready".

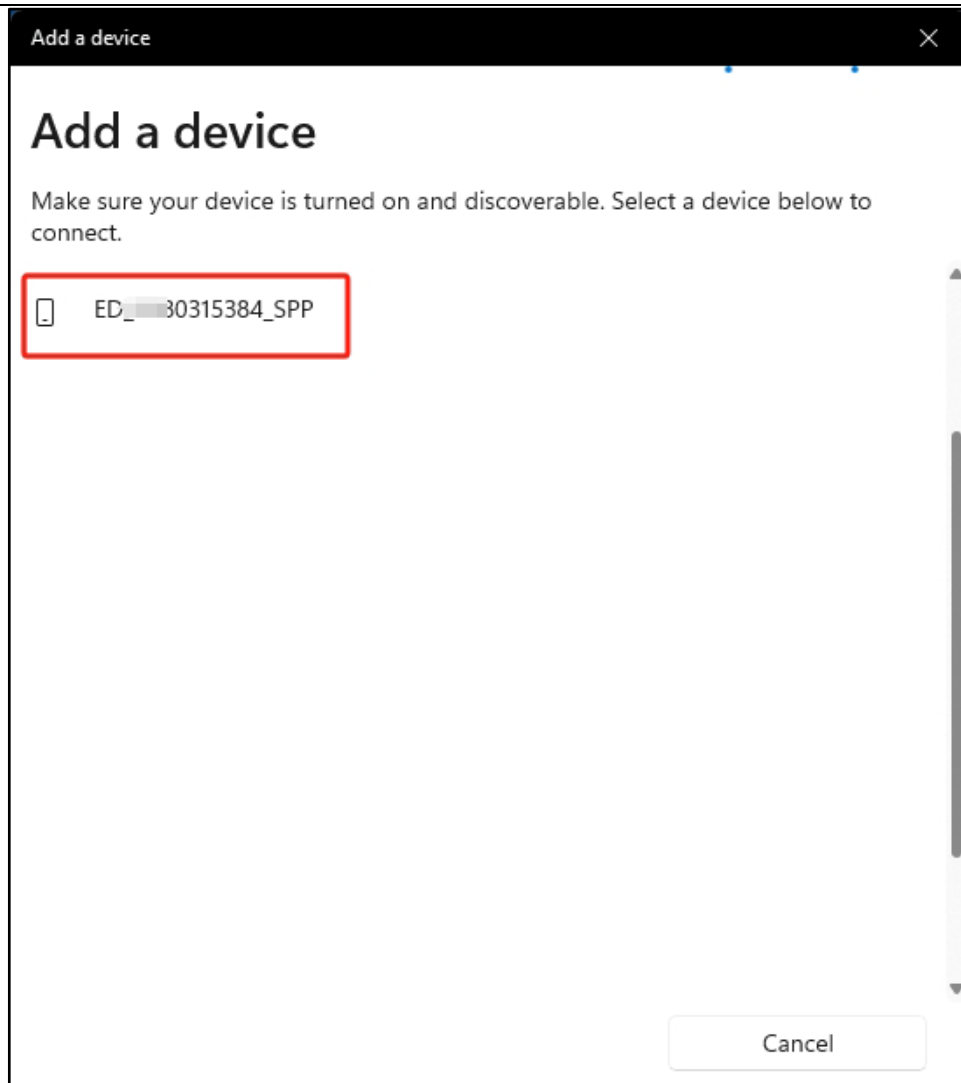


Figure 4-3-3 Selecting Bluetooth

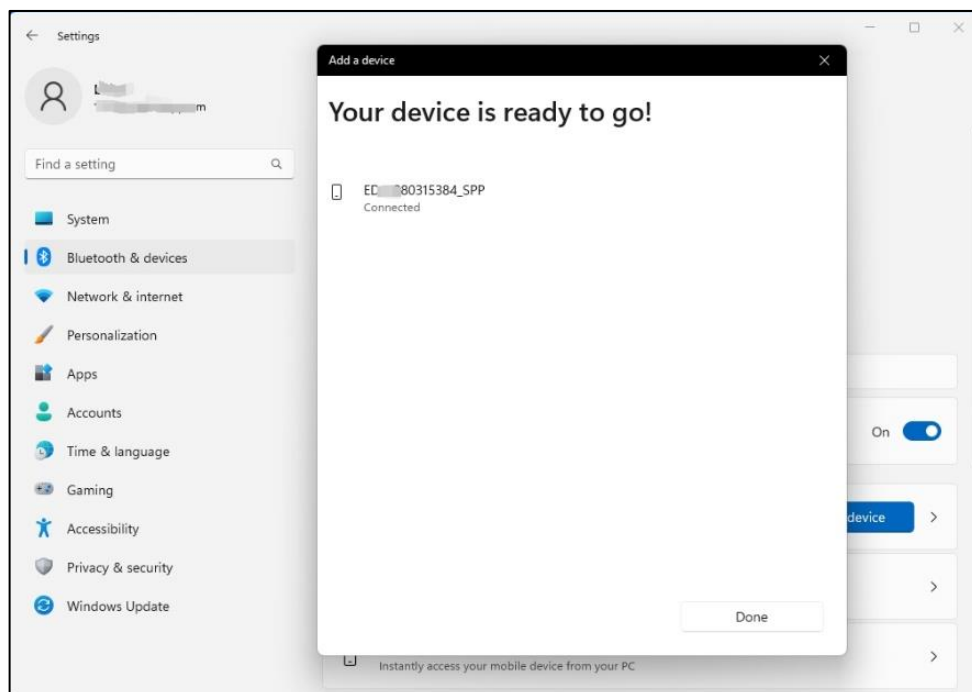


Figure 4-3-4 Successful Bluetooth pairing

5 Registration and Activation

After successful software installation and Bluetooth pairing with the diagnostic main unit, click the product's software icon on your computer desktop to launch the diagnostic software.



Figure 5-1

5.1 Entering the Software

Since this is the first time you are opening the software, the product has not been registered or activated. After entering the software, a prompt box will appear informing you that the product needs to be registered and activated. Click Confirm, then you will enter the main page of the ABS-EBS Special Diagnostic software, as shown in Figure 5-1-2.

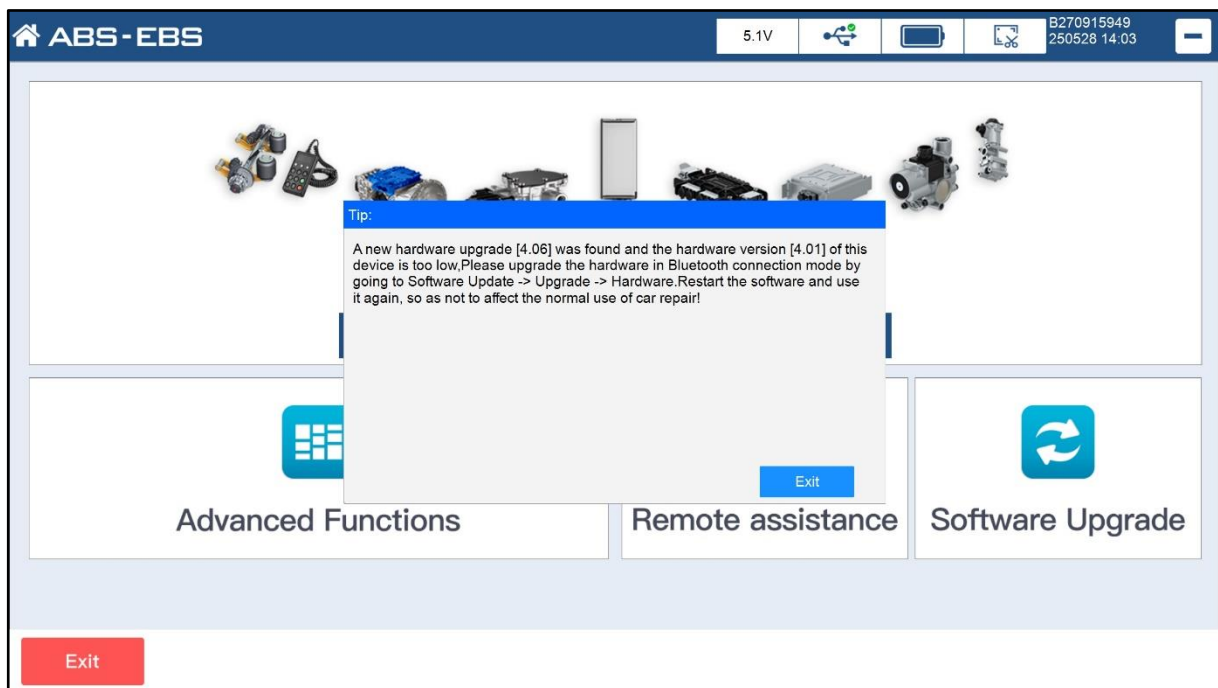


Figure 5-1-1 Activation Prompt

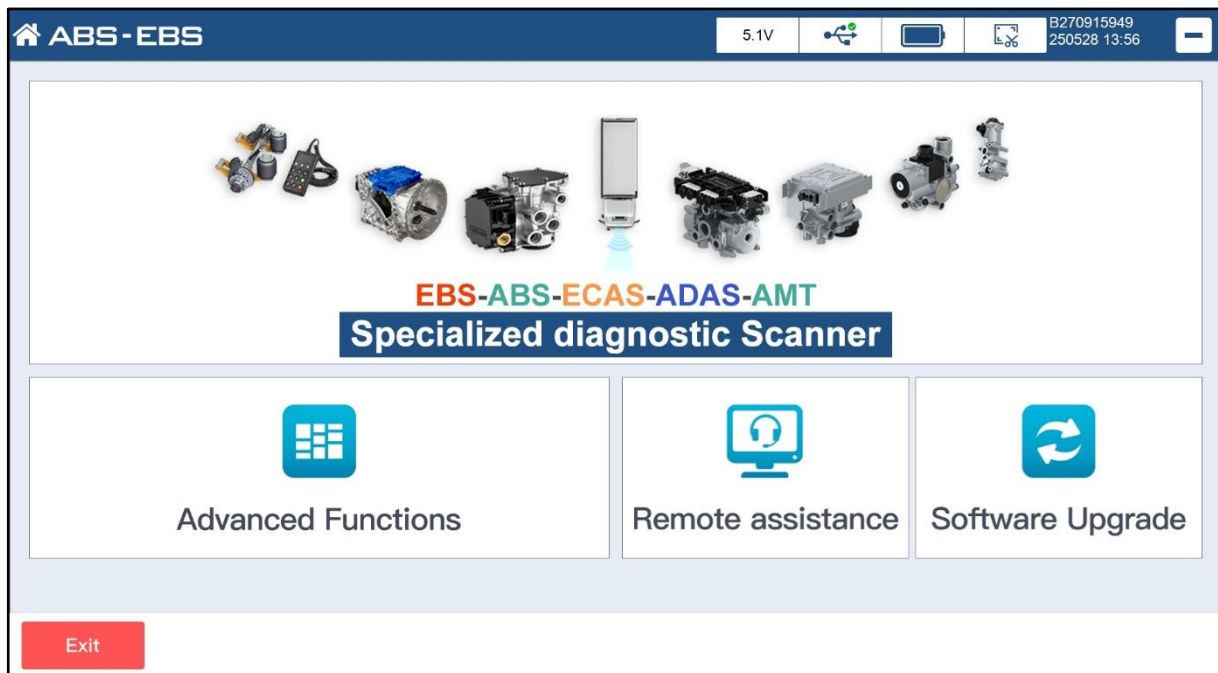


Figure 5-1-2 Diagnostic Homepage

5.2 Device Registration and Activation

On the diagnostic homepage, click "Software Update" to enter the device management page, select "Activate", register the product, follow the prompts on the interface, enter your user password (6 digits, you need to set your own password), repair station name, fill in the information, and then select "Register", As shown in Figures 5-2-1.

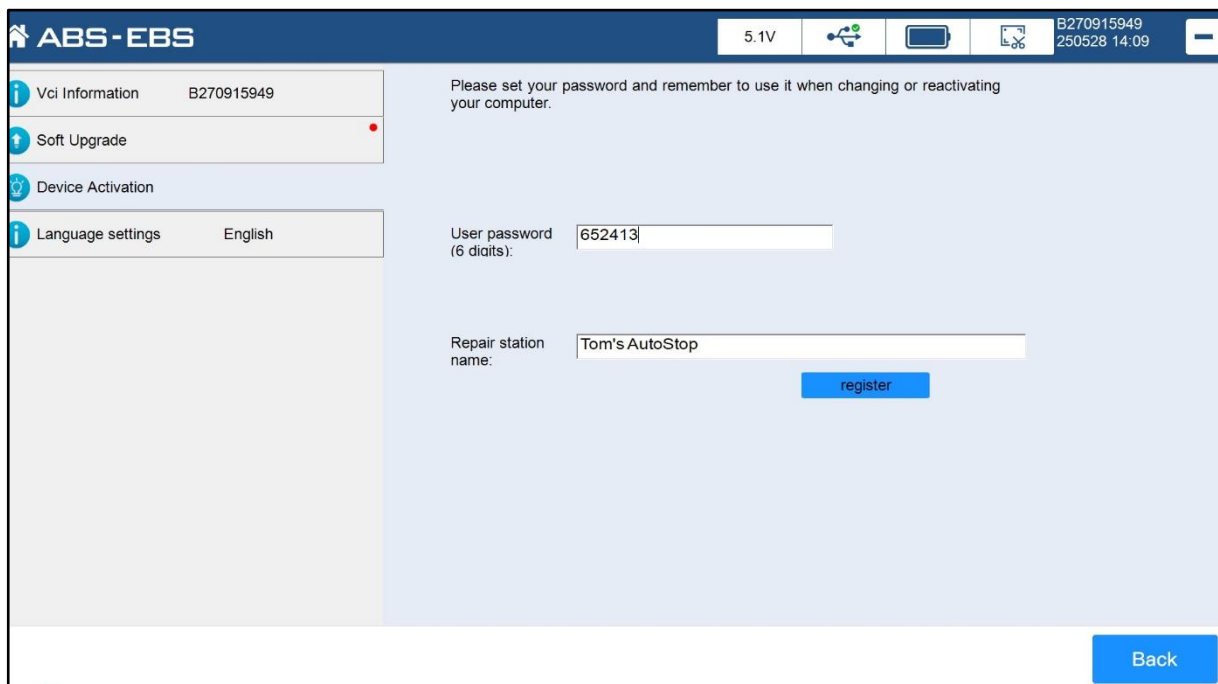


Figure 5-2-1 Product Registration

Submitted, product registration and activation successful. You need to close the diagnostic software and reopen it to complete product registration and activation. You can view device related information in VCI information, as shown in Figures 5-2-2.

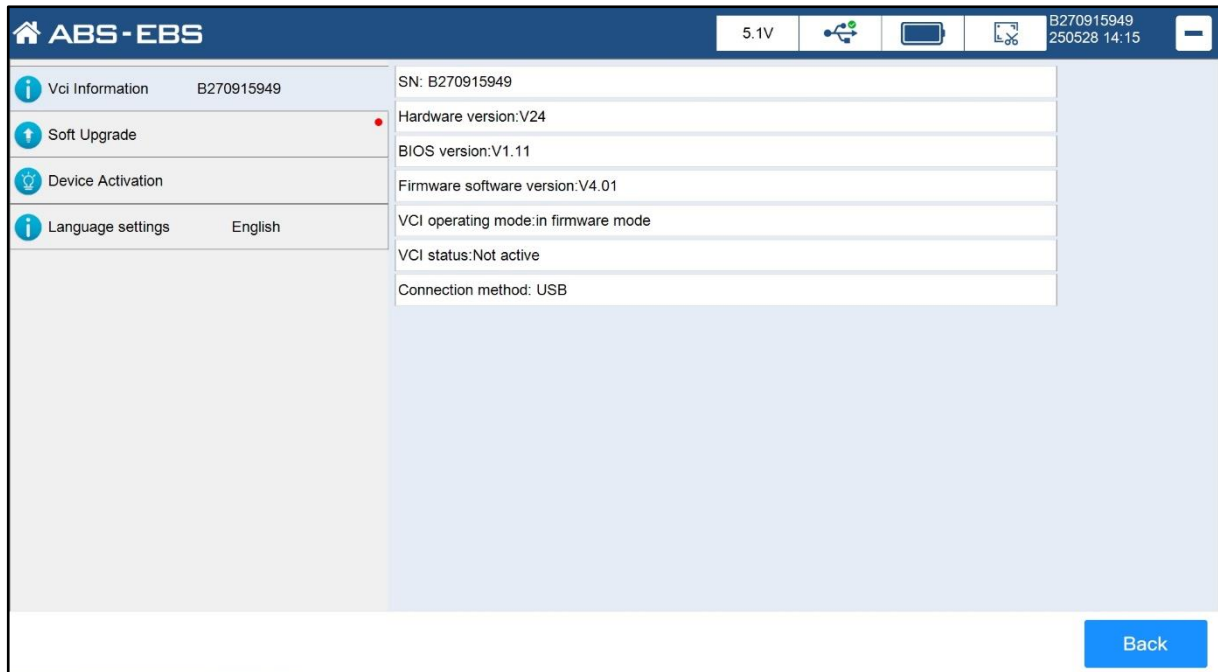


Figure 5-2-2 Equipment Information

5.3 Product Activation

If you install software and connect to another laptop in the later stage of your product, you need to activate the product once. Go to the activation page, enter the password you set when registering, and activate the product again, as shown in Figure 5-3-1.

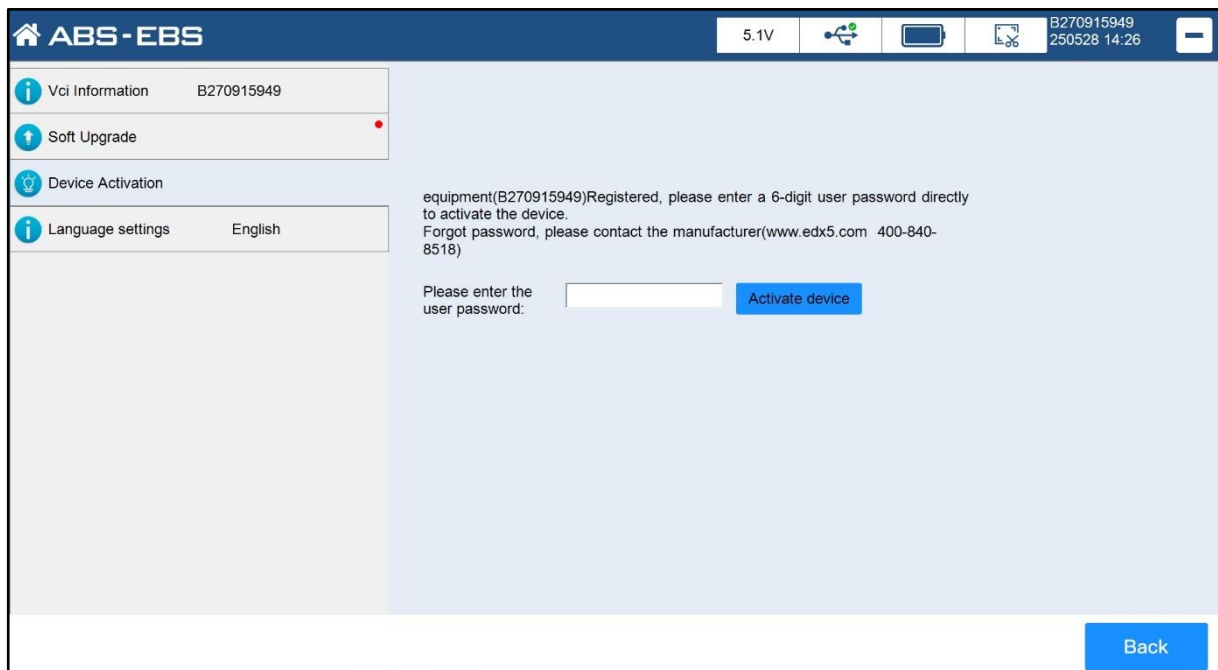


Figure 5-3-1 Product Activation

After product activation, device information and status can be viewed in "VCI Information". The VCI status is: activated, as shown in Figure 5-3-2. Device reactivation completed.

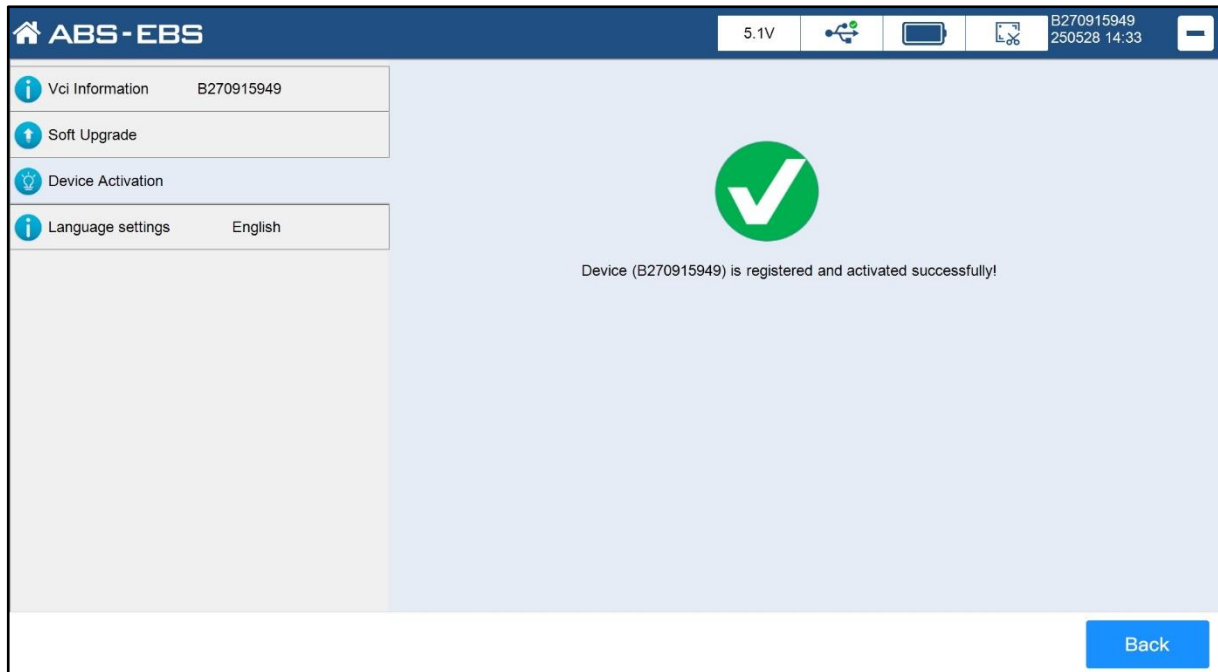


Figure 5-3-2 Device Information

5.4 Software Upgrade

After registering and activating your product, go to the Software Update>Upgrade page and you will see "Fault Detection Data". When there is a new version of software, You can directly select the "One click Upgrade" button to automatically upgrade the software. The upgrade operation is simple.

6 Function introduction

Open the ABS-EBS Special Diagnostic software, as shown in Figure 6-1, to enter the diagnostic software homepage. This section provides a brief introduction to the various software functions according to the numbers in the figure.

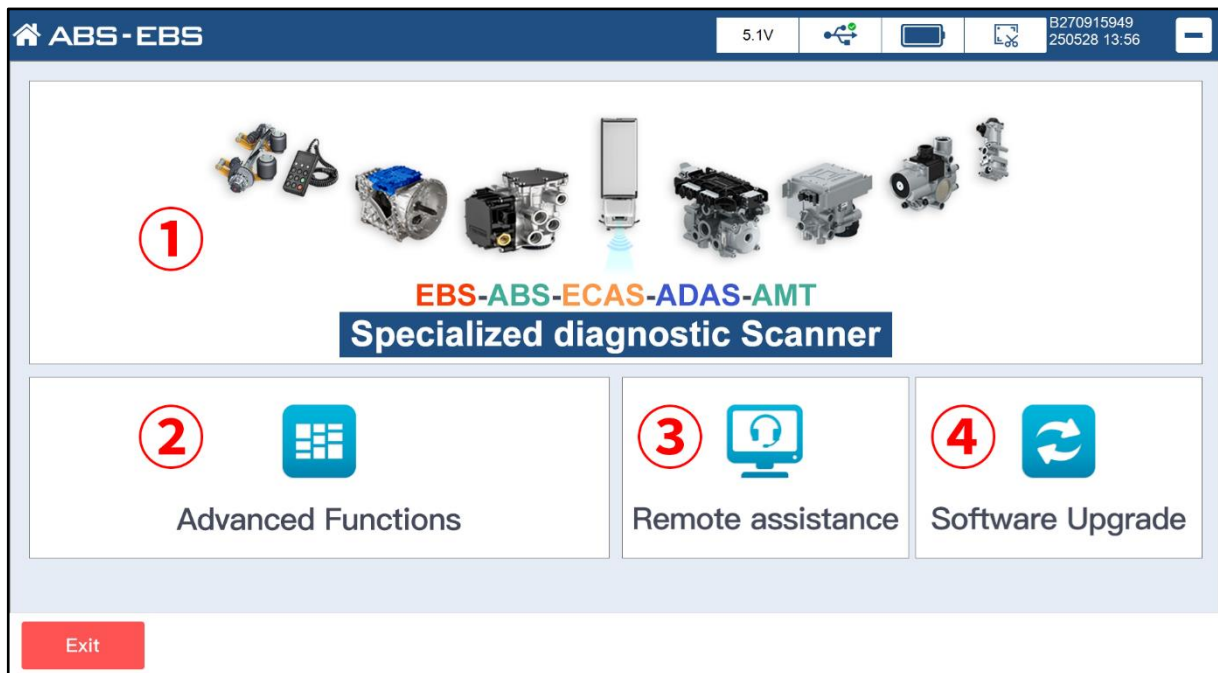


Figure 6-1 Diagnosis Home Page

①: Intelligent Diagnosis: ABS-EBS Braking - ECAS Air Suspension - ADAS Radar

②: Advanced Function

③: Remote assistance

④: Software Upgrade

6.1 Intelligent Diagnosis: ABS-EBS Brakes - ECAS Air Suspension - ADAS Radar

ABS-EBS Intelligent Diagnostic System Precision diagnostics for ABS-EBS braking, ECAS air suspension, and ADAS radar – featuring smart auto-identification and rapid access, ushering ABS/EBS diagnostics into the era of intelligent recognition. Figure 6-1-1.

ABS-EBS Special Diagnostic System



Figure 6-1-1

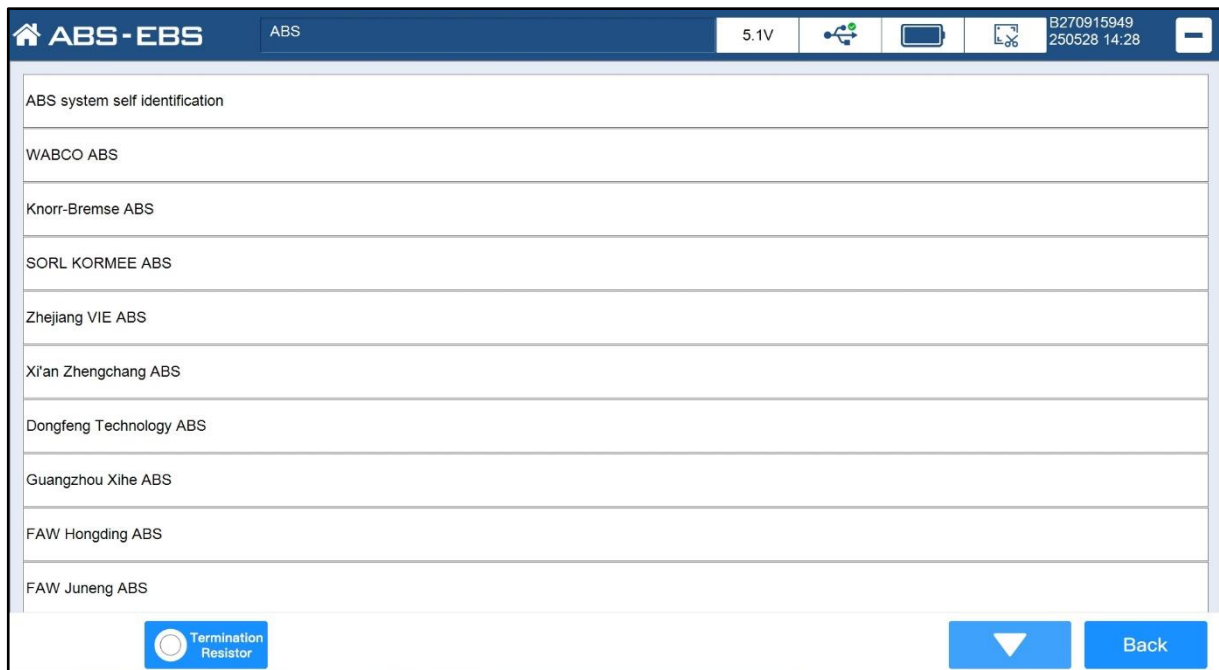


Figure 6-1-2 ABS

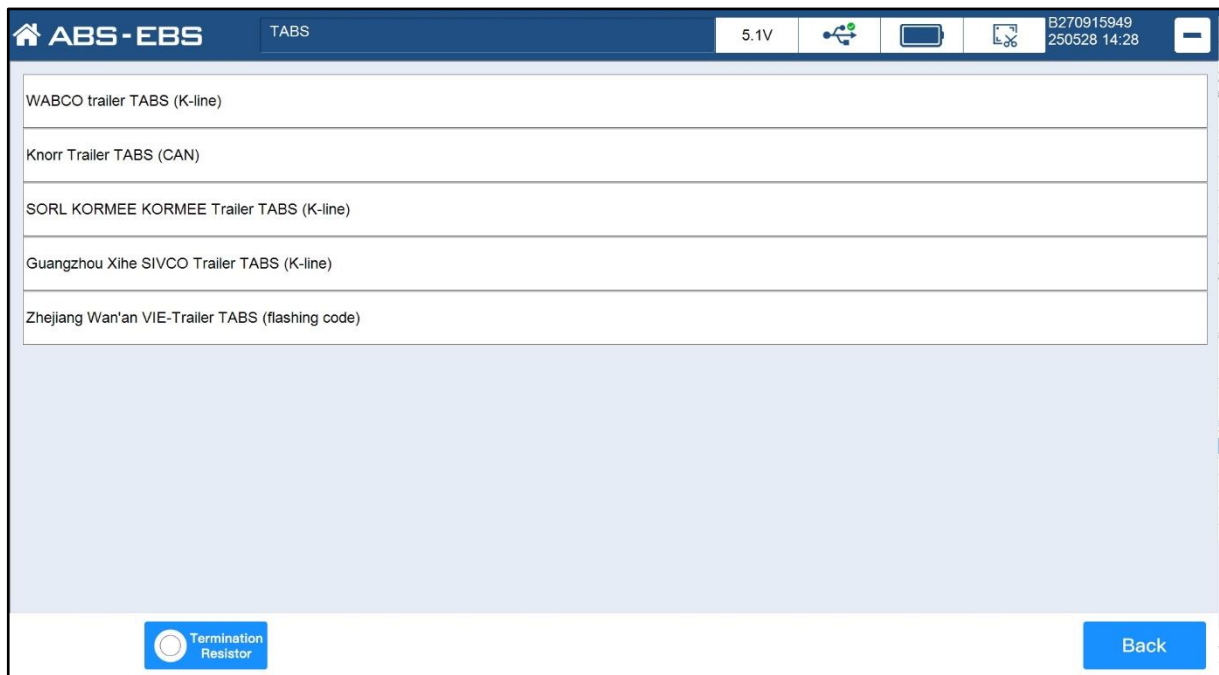


Figure 6-1-3 TABS

6.2 Advanced Functions

In addition to ABS-EBS brakes - ECAS air suspension - ADAS radar, you can also perform functions such as reading OBD voltage, EOBD, vehicle annual inspection, etc., through Advanced Functions, as shown in Figure 6-2-1.

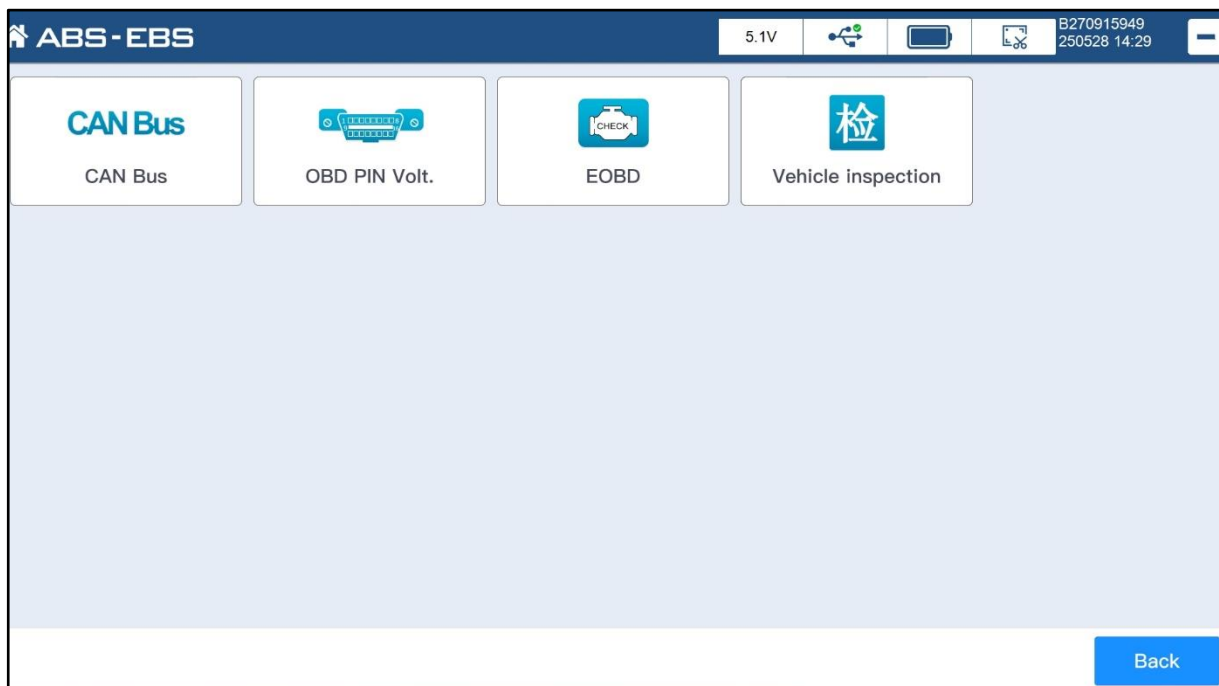


Figure 6-2-1 Advanced Functions

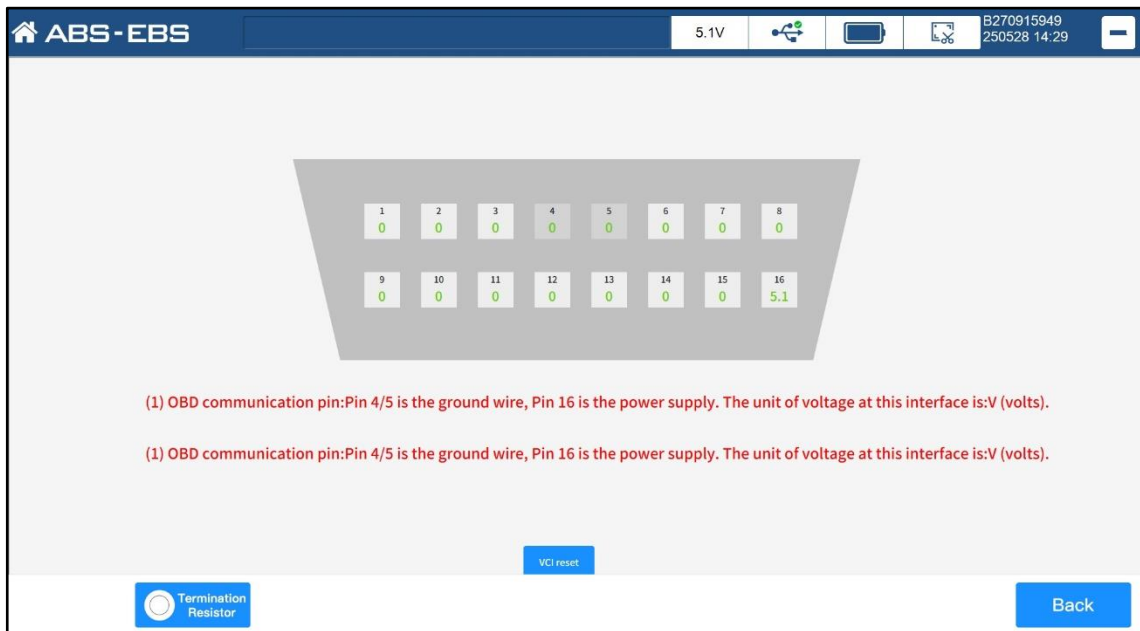


Figure 6-2-2 OBD Voltage Reading

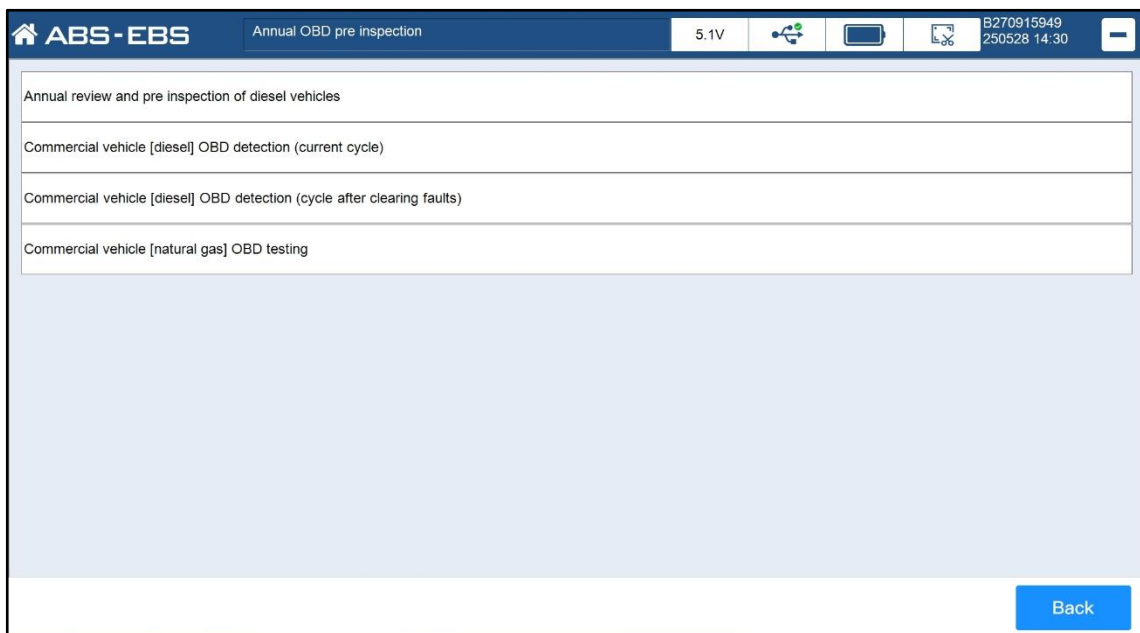


Figure 6-2-3 Vehicle Inspection

6.3 Remote Assistance

When you encounter problems that cannot be solved while using this diagnostic tool, you can initiate a remote session through the "Remote Assistance" function to contact an ABS-EBS Special Diagnostic after-sales technical engineer. Our engineers can provide you with remote support.

After clicking Remote, a remote assistance dialog box will pop up. You just need to "Copy ID" and send it to our

engineer via 微信 (WeChat) or take a photo and send it to our engineer. The engineer can then remotely control your computer to provide you with remote support.

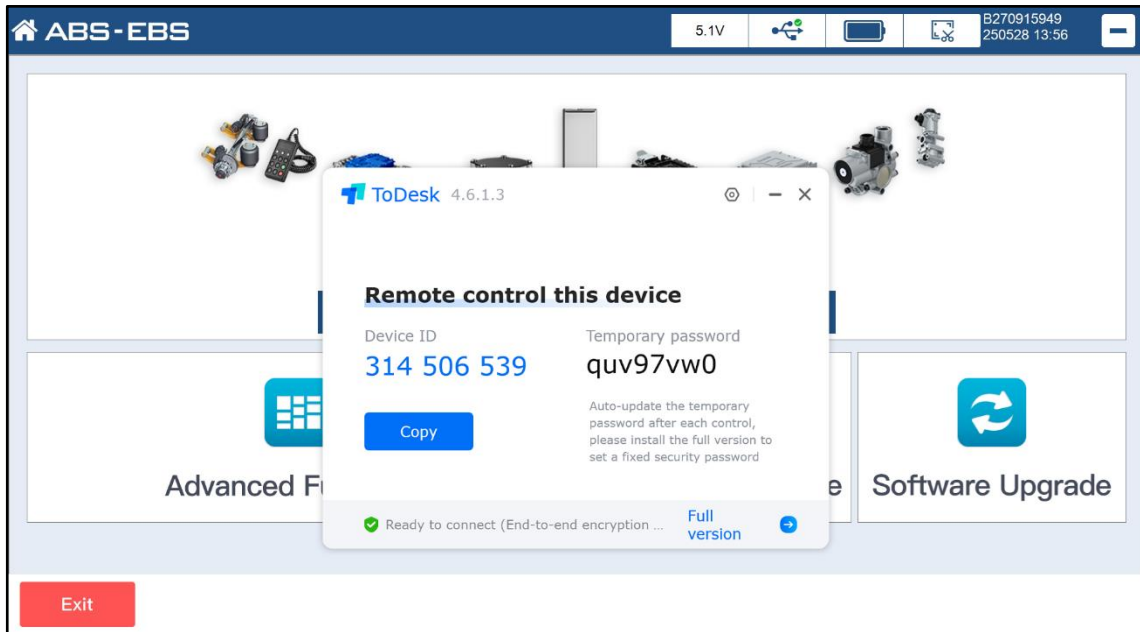


Figure 6-3 Remote Assistance

6.4 Software Upgrade

Through Software Update, you can view the VCI information and status of your diagnostic main unit. From the Upgrade interface, you can view the current diagnostic software version information. If there is a newer version of the software, you can directly use the "One-Click Upgrade" function to perform a one-click upgrade of the product software. Product registration and activation can be performed from the Activation page.

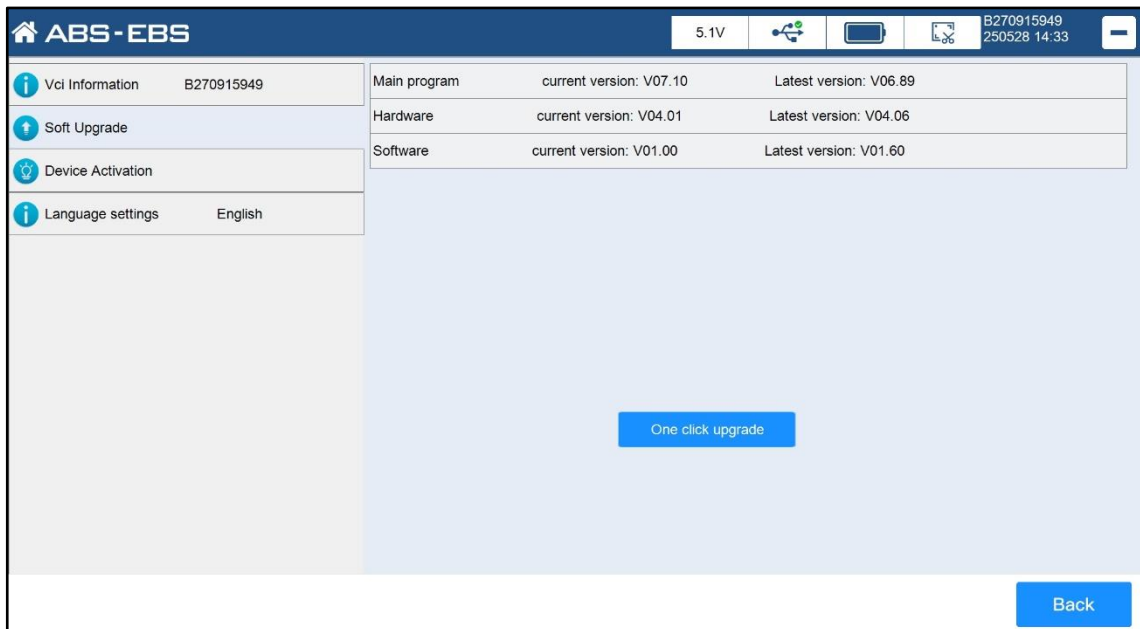


Figure 6-4 Software Upgrade

7 Software Upgrade

This intelligent diagnostic tool product uses a one-click upgrade method. When the laptop or tablet is connected to the 网络 (network), if there is a latest version of software and data, the user can choose one-click upgrade to upgrade the diagnostic tool's software and database. The operation is simple and convenient.

For the operation method, refer to section 5.4 Software Upgrade.

8 Technical Parameters

Processor	STMicroelectronics ST
Communication Ports	OBD, USB, Bluetooth
Input Voltage	7-32V
Power Consumption	<10W
Operating Temperature	-10~45°C
Storage Temperature	-15~50°C
Operating Method	Used with laptop or Windows tablet computer

9 Maintenance, Care, and Warranty

9.1 Cleaning and Maintenance

- If the product main unit will not be used for vehicle testing for an extended period, power it on periodically to prevent moisture damage.
- Do not use corrosive cleaners or any rough cloth to clean the product main unit. Use only a soft cloth and neutral detergent.
- Do not place it near stoves or where it may be exposed to smoke, water, or oil splashes.
- When not in use, store it in a flat, dry, temperature-controlled, low-dust environment.
- Do not disassemble the main unit privately.
- Do not place the product near electrical equipment that generates electromagnetic waves to avoid affecting oscilloscope performance.

9.2 Equipment warranty

This warranty clause applies only to users and distributors who have purchased ABS-EBS Special Diagnostic products through normal procedures.

Product Inspection

1. Upon receiving the product, be sure to open the packaging and inspect it.

2. Carefully check the quantity and inspect the items against the packing list. In case of shortages, errors, damage, or other unforeseen abnormal circumstances, retain all product documents and notify us immediately. Otherwise, the right to claim compensation is considered waived.

Product Warranty Terms

ABS-EBS Special Diagnostic provides a free warranty service for the product main unit and accessories for two years from the date of purchase. The warranty service covers only faults caused by material or manufacturing process defects under normal use conditions. Faults resulting from improper use due to human factors, operation improper operation, repair, modification, or disassembly by non-company technicians or unauthorized personnel, cleaning, transportation accidents, drops, vibration, natural disasters, improper storage environment, improper maintenance, etc., are not covered by the warranty. Products requiring warranty service must be evaluated by ABS-EBS Special Diagnostic to determine if they are within the warranty scope.

Product Warranty Procedure

When a product requires repair, please send the product to the local distributor or mail it to ABS-EBS Special Diagnostic, along with the repair equipment form which can be downloaded from the company website, proof of purchase, and warranty card, filling in the following information: company name, contact person name, phone number, problem description, and purchase invoice. Valid proof of purchase is an important document for warranty service. To protect your legal rights, be sure to obtain a formal invoice from the distributor at the time of purchase. The invoice should clearly state the product name, model, serial number, purchase date, and bear the distributor's official stamp. Keeping the invoice together with the warranty certificate will facilitate repairs and inquiries.

Regulations for Repair of Products Out of Warranty

If products out of warranty require repair by our company, we will charge a reasonable repair fee, and shipping costs will be borne by the user.

For products out of warranty, our technical support personnel will fax a repair cost quotation to the user. The user must confirm whether to proceed with the repair. After confirmation, the customer should remit the repair fee to our designated account. Repair work will commence only after the fee is received.

ABS-EBS Special Diagnostic reserves the right to modify product appearance, models, and discontinue outdated models without prior notice to customers. If you have any questions, please feel free to contact us.



Shenzhen EngineDance Technology Co.,Ltd

Address: No.182 Bulan Road, Shanglilang Community, Nanwan Street,Longgang District, Shenzhen, Design Park Baotai Building 910

Zip code: 518116

Service hotline: 400-840-8518

Website: www.edx5.com

WeChat official: EngineDance

