
SAIC MAXUS Diagnostic Equipment

Quick Start

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1. Product Overview

This set of automotive aftersales diagnostic meters is a specialized set of after-sales diagnostic equipment designed specifically for each model of SAIC Chase. It can detect vehicle faults in real time and is a necessary tool in the after-sales vehicle repair process. The aftermarket diagnostic tool consists of two parts: Diagnostic software (SAIC GRADE-X) and diagnostic hardware (VCI Generation I/Generation II/Generation III)

2. PC environment configuration

This product works in Windows 10 (recommended) operating system environments. Computer Configuration:

Processor	64-bit, 2.4GHz or above (Intel processor i5 and above)
Memory	8GB or above, DDR3 or above
Hard drive	100G or above, HDD or SSD (recommended)
Video card	Direct X 9 WDDM 1.0 or higher
Display	1280*800 or above (1920*1080 recommended)

resolution	
Environment required	Adobe AIR and Adobe Reader software environments

Before proceeding with the SAIC GRADE-X installation, you must ensure that the installation of the VCI driver is complete. If not, connect your PC to the Internet and follow the steps below to download the relevant software.

A. If you only need to use SAIC GRADE-X, you do not need to use CVDS (SAIC Chase First Generation Diagnostic Software). The VCI drive installation procedure is as follows:

1. Open a browser(Firefox/Edge/Google) and enter <https://gradex.saicmaxus.com/> ; Select the VCI I+II+III driver (VCI-II-III_Setup.exe) (see figure below); Click the program you downloaded to install it.



B. If you have both SAIC GRADE-X needs and CVDS (SAIC Chase First Generation Diagnostic Software) needs. The VCI drive installation procedure is as follows:

1. Install Adobe Air software first [must be installed or CVDS cannot be used!!!] (Since Adobe’s official website stops updating, the download address of the software was canceled on the official website, and users need to find their own resources to download the installation);
2. Contact Maxus administrator to obtain CVDS&VCI driver (CVDS&VCI_Setup_V1.8.0.50060.exe) and install it.

Note: The CVDS software can only use (VCI Gen I / Gen II) devices and cannot use (VDI Gen III) devices! !

3. Diagnostic hardware inventory

The hardware name	VCI 6520 (VCI Generation 1)	VDI II (VCI Gen 2)	VDI III (VCI III)
1. USB cable			

Vehicle Communication Interface Module (VCI)			
3. OBD interface cable			

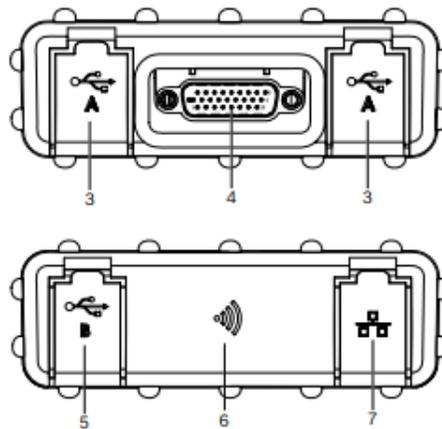
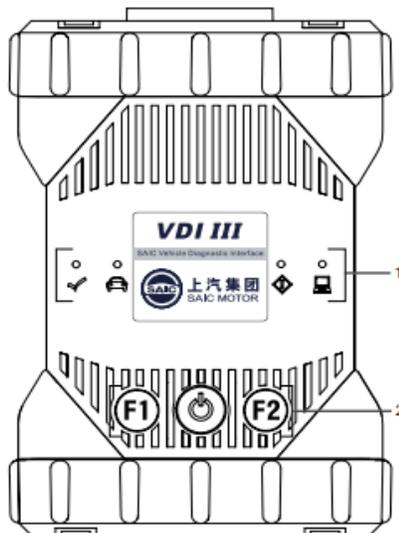
3.1 Definition of VCI indicators and interfaces

The 6520, VDI II, and VDI III indicators are shown in the following figure

VCI 6520 (VCI Generation 1)	VDI II (VCI Gen 2)								
	<table border="1"> <tr> <td>1</td> <td>Vehicle communication indicator</td> </tr> <tr> <td>2</td> <td>Host communication indicator</td> </tr> <tr> <td>3</td> <td>Fault LED</td> </tr> <tr> <td>4</td> <td>Host power indicator</td> </tr> </table>	1	Vehicle communication indicator	2	Host communication indicator	3	Fault LED	4	Host power indicator
1	Vehicle communication indicator								
2	Host communication indicator								
3	Fault LED								
4	Host power indicator								

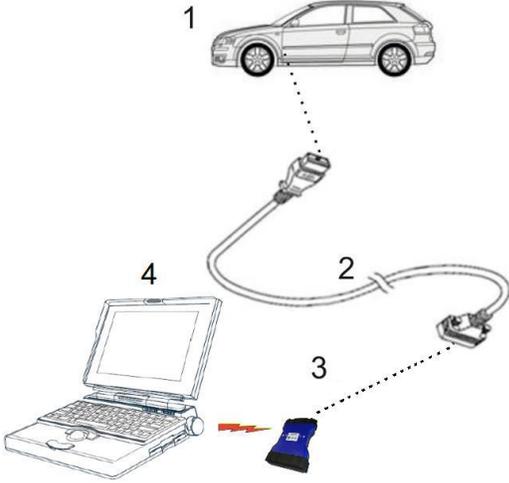
4.3 VDI III ports and control elements

VDI III has various buttons and standardized ports for operating the device and connecting it to the vehicle electrical system and workshop network. These ports and buttons are shown in the following illustrations.



Item	Description
1	LED status lights
2	Control buttons
3	2x USB-A port
4	Port for diagnostic connection cable
5	USB-B port
6	WLAN adapter
7	Ethernet port

3.2 VCI Device Connection Diagram

Device name	Connection diagram	Connection method
VCI 6520 (Both wired and wireless) (Note: Wireless connection to this VCI device is not supported on WIN 10 systems)		The OBD cable connects the computer to the VCI device and the USB cable connects the computer to the VCI device
VCI VDI II/III (Wired, wireless)		<ol style="list-style-type: none"> 1. Insert the USB wireless communication module into a usable USB on your computer Interface (you must wait for the first time you insert it until the USB driver installation is complete). 2.SAIC VDI via vehicle (OBD lead) or external power supply II Power. 3. Click the VCI Manager button on the computer desktop to launch the VCI Manager software program. 4.Select the with the green bar in the VCI Browser tab VCI and click the Connect button. Once the connection is established, the green bar changes to a green check mark.

4. Diagnostic software SAIC GRADE-X installation

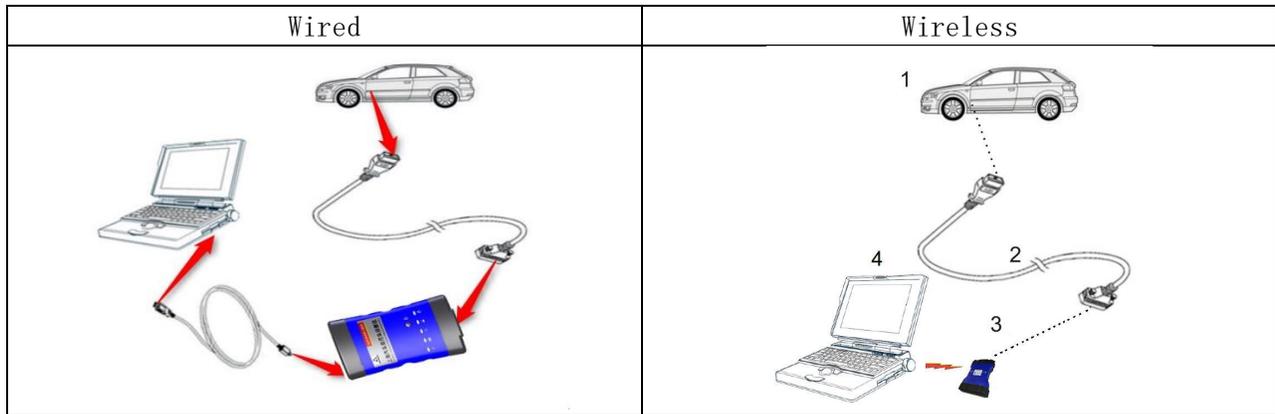
Before installing the diagnostic software (SAIC GRADE-X), we need to use the VCI Manager software to check that the VCI hardware is functioning properly. Therefore, please make sure the

computer has this software VCI Manager [SAIC] installed (this software is automatically installed when you install the VCI driver):



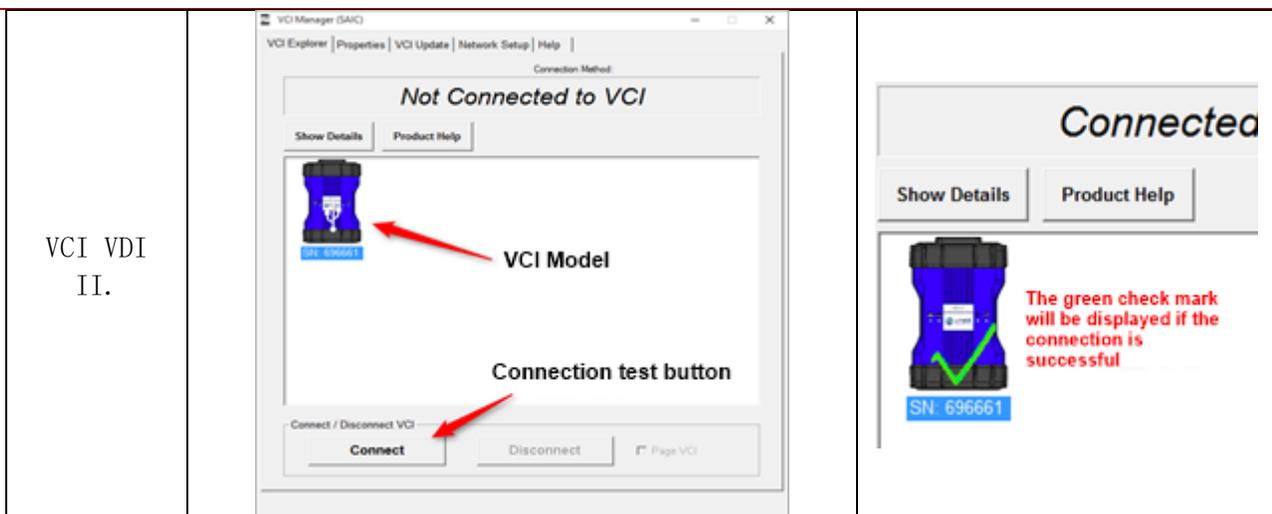
4.1 Test the VCI hardware for correct operation

- (1) Connect the VCI hardware, vehicle and computer correctly as shown



- (2) Open the VCI Manager software
Click [Connect]

Device name	Connection method	Connection status
VCI 6520		



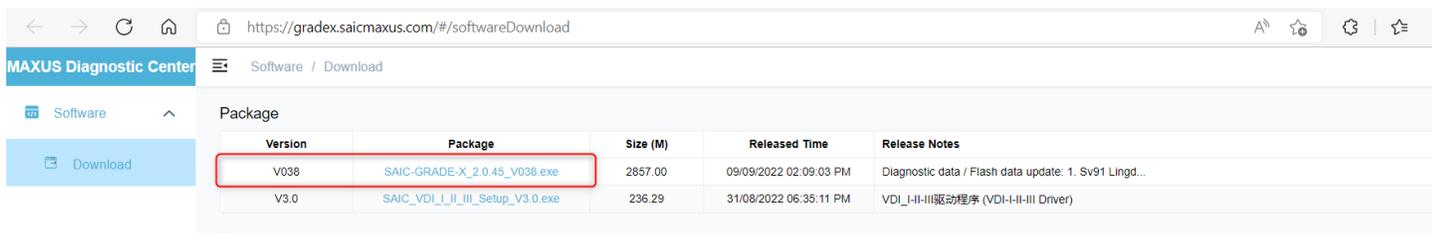
Click [Disconnect] or close the software directly

Note: Always turn the VCI Manager software off after the test displays correctly, as this will affect the normal use of the diagnostic software!!!

4.2 Download and install the latest version of SAIC GRADE-X.

The first time you install the diagnostic software (SAIC GRADE-X) on your computer, you need to download the latest installation package on the web site.

The download address is <https://gradex.saicmaxus.com/>



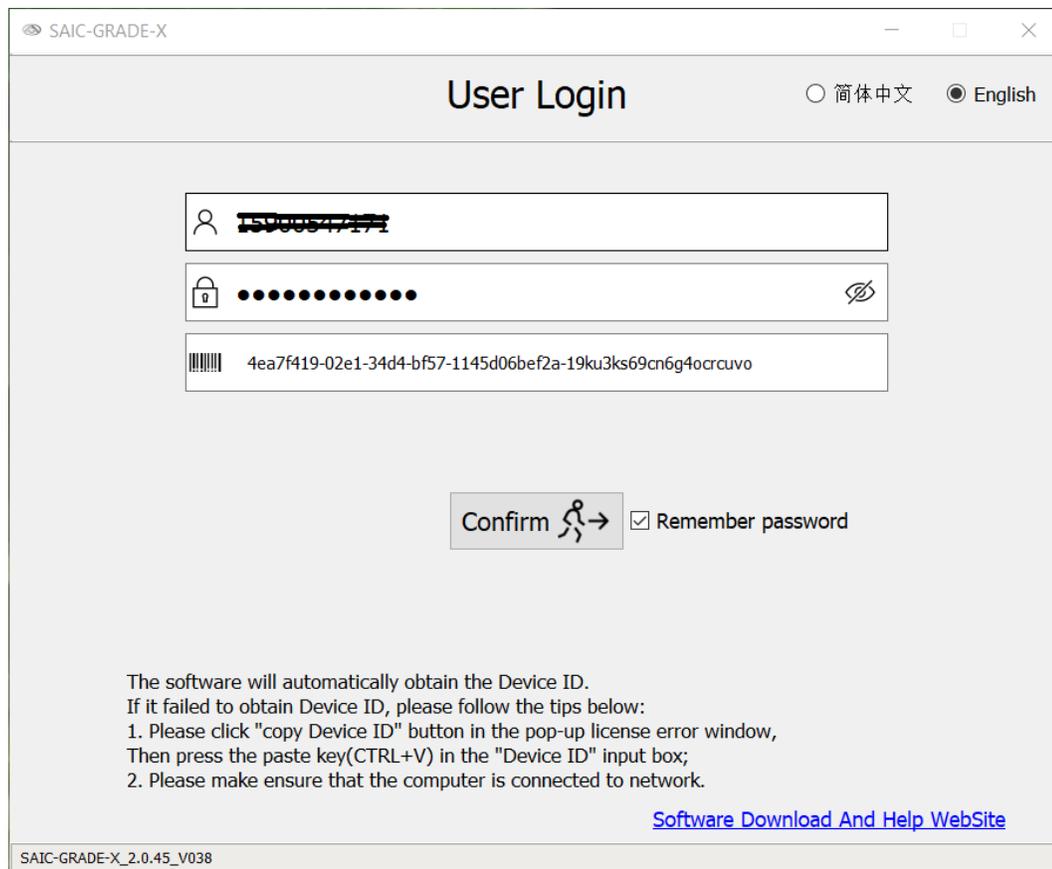
5. Diagnostic software SAIC GRADE-X activation process

The SAIC GRADE-X software registration procedure is as follows:

5.1 Ensure the correct connection between the computer and the Internet network (i.e. network usage)



Running the SAIC GRADE-X software, the user login interface will be popped up, as shown in the following figure;



SAIC-GRADE-X

User Login

简体中文 English



 Remember password

The software will automatically obtain the Device ID.
If it failed to obtain Device ID, please follow the tips below:
1. Please click "copy Device ID" button in the pop-up license error window,
Then press the paste key(CTRL+V) in the "Device ID" input box;
2. Please make ensure that the computer is connected to network.

[Software Download And Help WebSite](#)

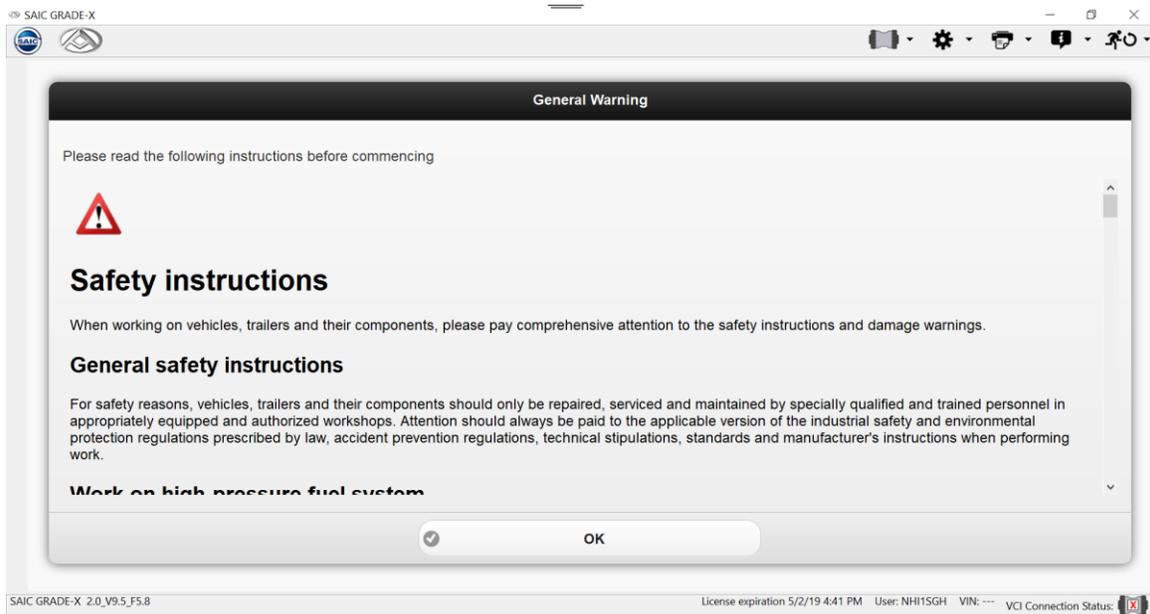
SAIC-GRADE-X_2.0.45_V038

5.2 User Login information Input

After input the correct account and password on the user login interface(the account and password input here are same with account & password information that used in backend server website), click the confirm button. Then the Grade-X software will be started and activated automatically when first login.

Note: If one error reported "No license to assign (61004)", please confirm if the number of used diagnostic computer has exceed the VDI number. If not, please contact your distributor or MAXUS technical manager.

5.4 Activation is successful and goes to the SAIC GRADE-X software main page



5.5 Effective Period Description (must be used every 7 days in a networked state)

Each subsequent opening of the SAIC GRADE-X by the activated PC will take you directly to the user login interface (Remember password function is supported), the main diagnostic software page will be appeared after confirm button clicked; the user must use SAIC Grade-X once every 7 days in the computing networking state; If the user is not connected to the network for 7 days using SAIC GRADE-X, the system forces the user to network before using the diagnostic software.

No matter whether the diagnostic computer is online or not, the user account and password must be entered every three days before the diagnostic software is used.

Note: The user replaces the computer/original computer reloads the operating system/original computer hardware replacement, all 3 of which can cause the computer serial number to change and cause the diagnostic software to fail to enter. If you encounter such a situation, paste the new computer hardware information that the software displays into the activation registry re-mail it to Maxus the administrator requests activation.

6. Diagnostic Software SAIC GRADE-X Online Upgrade

Note: The software update prompt can only be received after the diagnostic software has been activated.

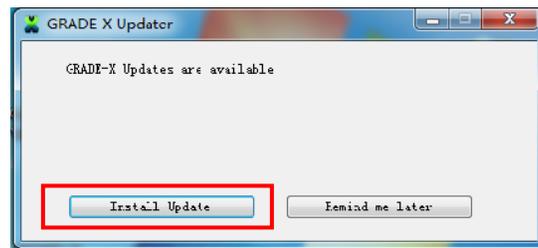
6.1 When connected to the network, you receive a new version update notification

When your computer is connected to a network, if your computer does not have the latest version of the software installed, you automatically receive a prompt for a software update, as shown in the following figure:



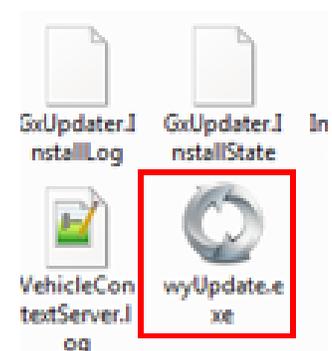
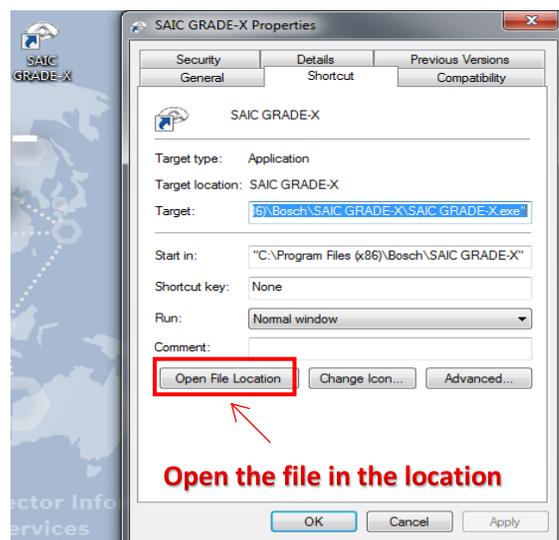
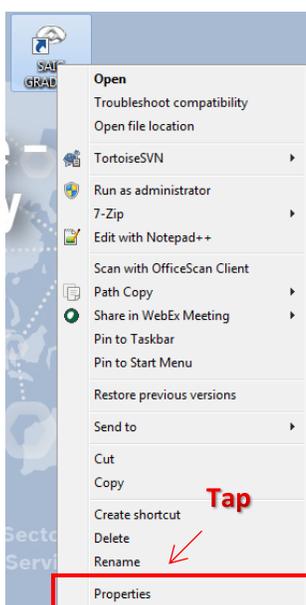
6.2 Install updates automatically

Click the icon screen to bring up the upgrade prompt, click [Install Update] to update the software



6.3 Manually click on the update

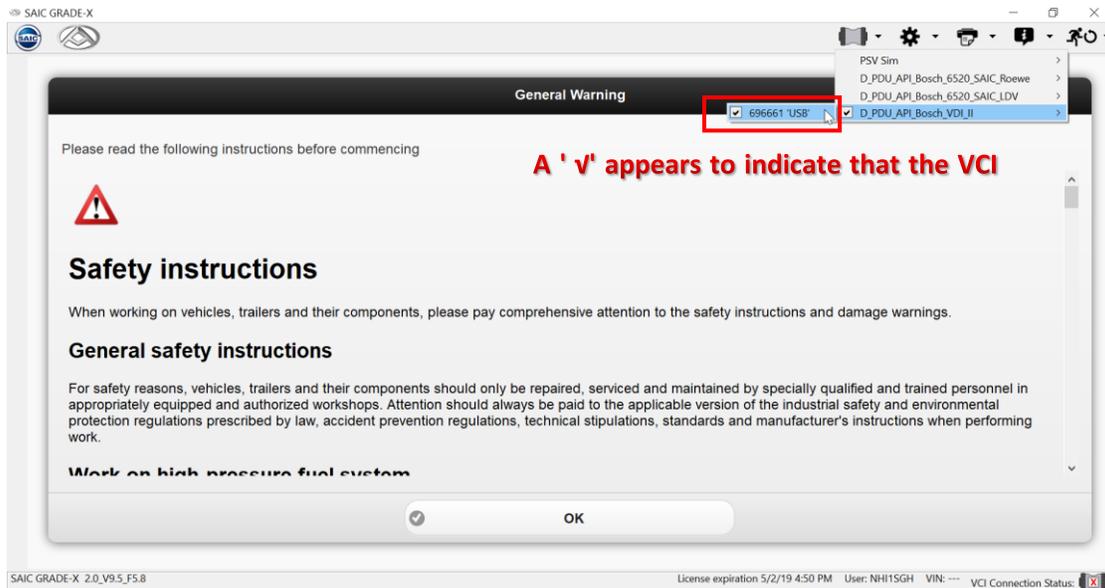
Select the software icon Right-click, locate Properties, select Open File Path, locate wyUpdate.exe in the folder, and click Update



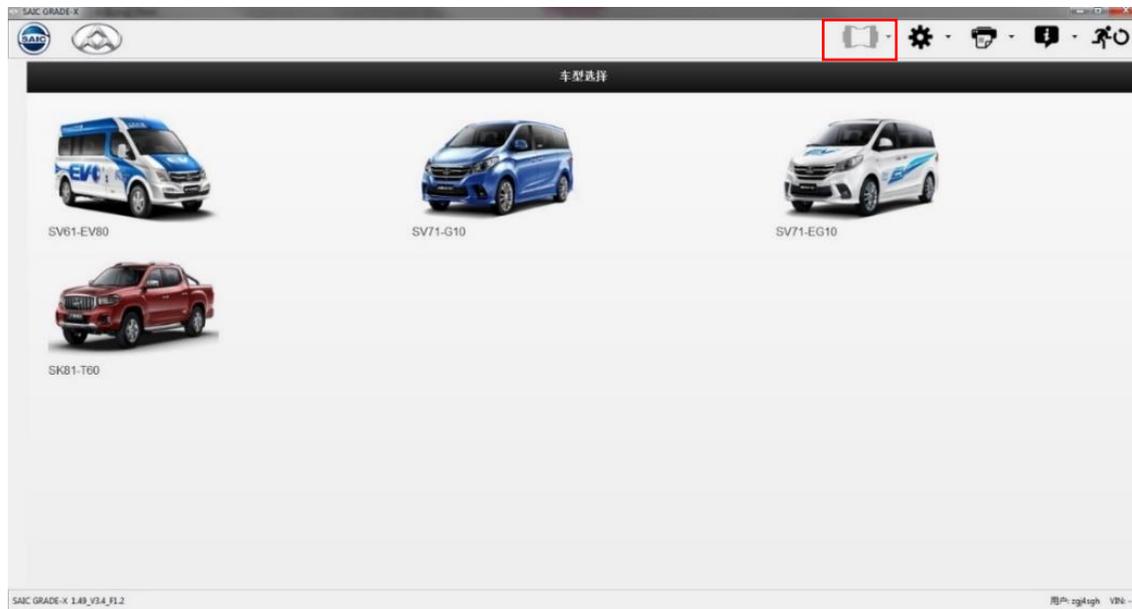
7. Diagnostic software SAIC GRADE-X operator interface description

7.1 [] VCI Settings

Depending on the actual VCI hardware device, the user checks the appropriate USB drive connection as shown in the following figure:

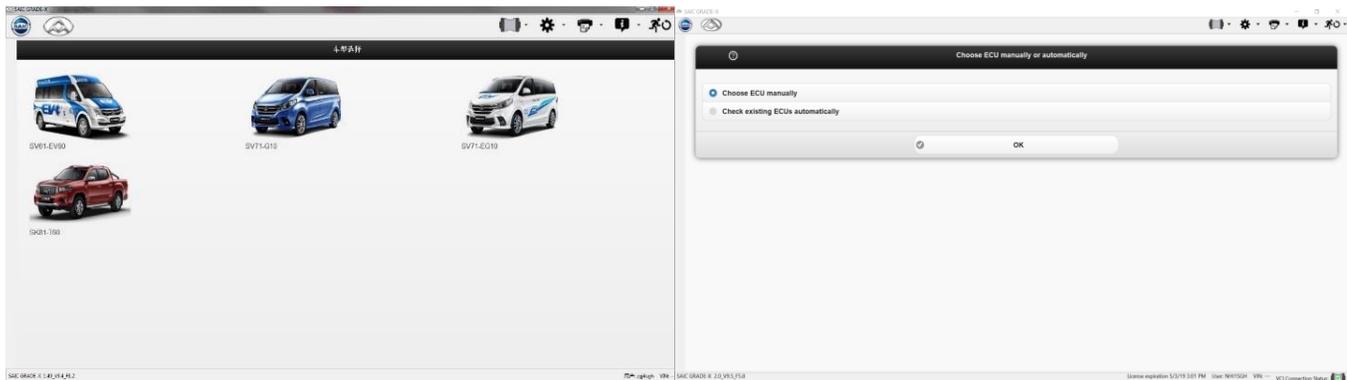


If the VCI drive selection icon is gray (see image below), the VCI drive is not installed, install the VCI driver software (see page 3):

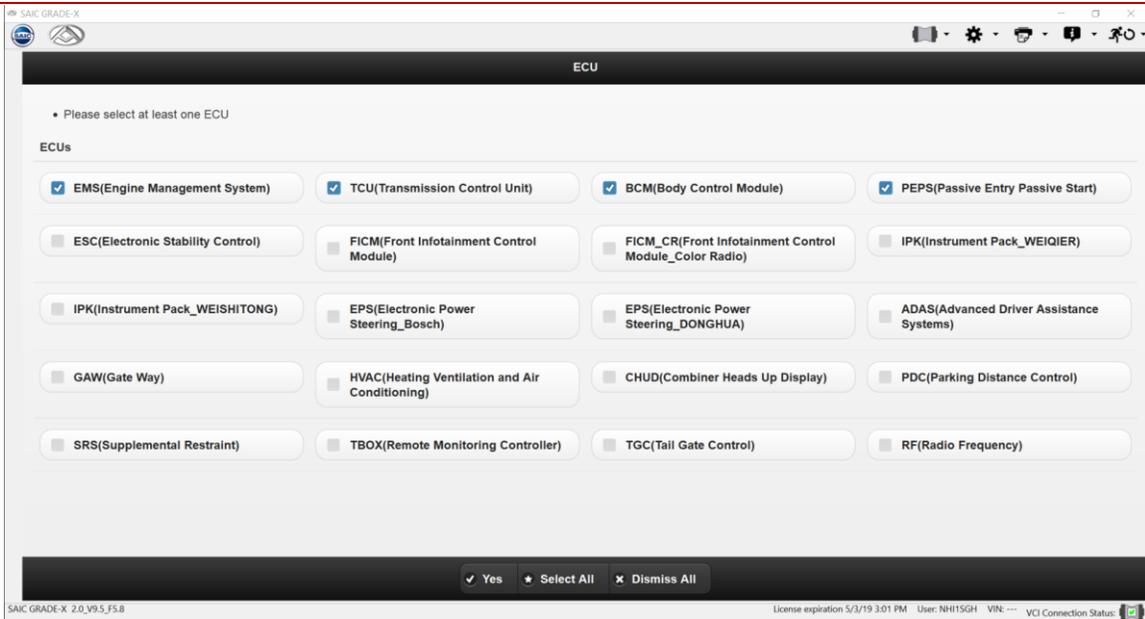


7.2 Select the model and ECU

Select the model, Please choose **[Choose ECU manually]** or **[Check existing ECUs automatically]**, as shown below:

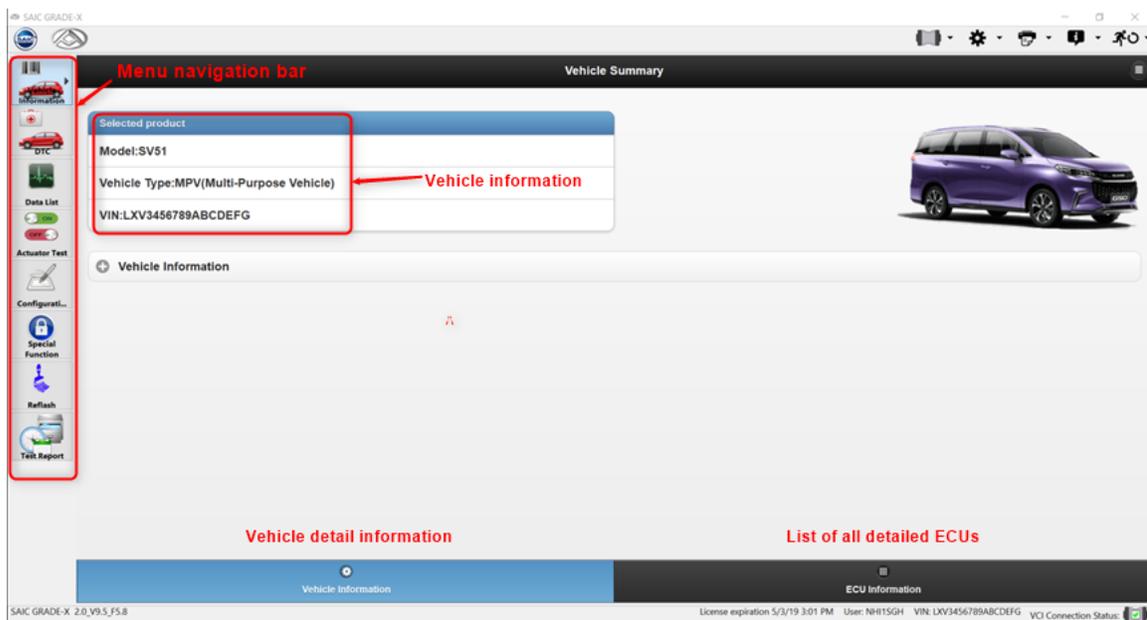


Select the controllers or select all, click OK to enter the diagnostic screen as shown in the following figure:



7.3 Feature Introduction

The main page is divided into the navigation bar and the vehicle information display bar

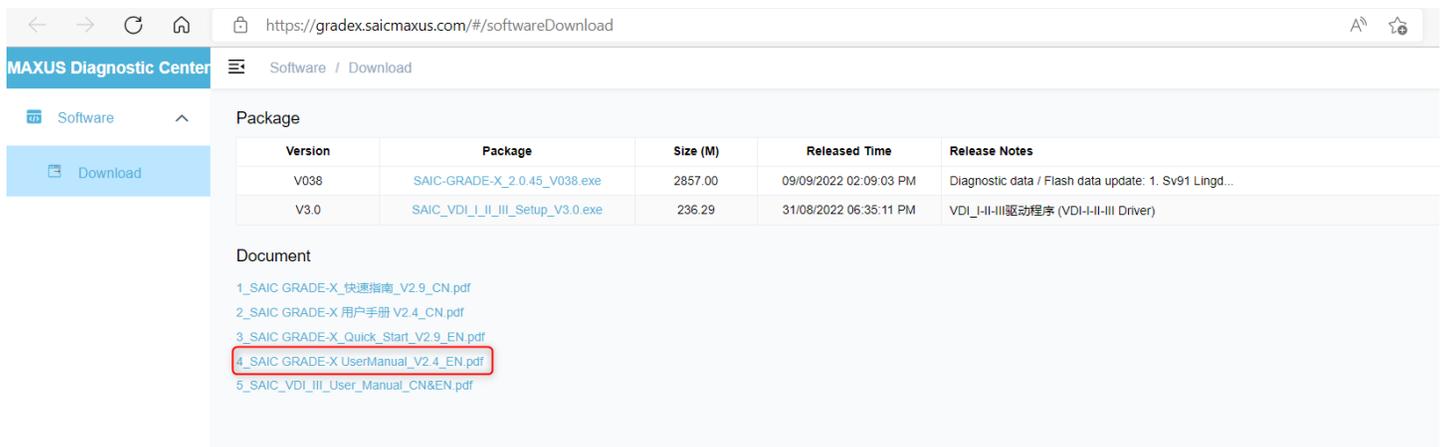


Menu navigation bar introduction (see SAIC GRADE-X user manual for detailed function operation)

Menu	Explanation of the menu	Detailed feature introduction
<p>DTC</p>	Check ECU codes	Check the vehicle ECU for service codes (icon status, text status) Freeze and view frame data Re-read and clear all ECUs or individual ECU codes

 Data List	<p>ECU data flow monitoring</p>	<p>View data flow for all ECUs (all or part or custom grouping) Freeze ECU data flow data Record and playback ECU data flow</p>
 Actuator Test	<p>ECU functional test</p>	<p>Test all the functions of the ECU one by one Feedback test results</p>
 Configurat...	<p>ECU function configuration</p>	<p>Configuration of all functions of the ECU and configuration of system information Note: Incorrect operation can have unpredictable consequences for the vehicle. Follow safety instructions or have qualified personnel do so</p>
 Special Function	<p>ECU special function configuration</p>	<p>Configuration of ECU special functions For example: Add key and security match Configure feedback</p>
 Reflash	<p>ECU system flash</p>	<p>1.Refresh and rewrite the ECU internal system Note: Please read the caution before flashing to ensure that the vehicle meets the conditions for flashing.</p>
 Test Report	<p>Vehicle Diagnostic Test Report</p>	<p>1.Summarize all actions to give detailed vehicle diagnostic test results Print a test report</p>

For a full description of the diagnostic software functionality, please download the SAIC GRADE-X User Manual to learn



The screenshot shows the 'MAXUS Diagnostic Center' software download page. The browser address bar shows 'https://gradex.saicmaxus.com/#/softwareDownload'. The page content includes a 'Package' table and a 'Document' list.

Version	Package	Size (M)	Released Time	Release Notes
V038	SAIC-GRADE-X_2.0.45_V038.exe	2857.00	09/09/2022 02:09:03 PM	Diagnostic data / Flash data update: 1. Sv91 Lingd...
V3.0	SAIC_VDI_I_II_III_Setup_V3.0.exe	236.29	31/08/2022 06:35:11 PM	VDI_I-II-III驱动程序 (VDI-I-II-III Driver)

Document

- 1_SAIC GRADE-X_快速指南_V2.9_CN.pdf
- 2_SAIC GRADE-X_用户手册_V2.4_CN.pdf
- 3_SAIC GRADE-X_Quick_Start_V2.9_EN.pdf
- 4_SAIC GRADE-X UserManual_V2.4_EN.pdf**
- 5_SAIC_VDI_III_User_Manual_CN&EN.pdf

8. Frequently asked questions

1. Diagnostic software SAIC GRADE-X cannot be installed?

1.1 If this is the first time you have installed the diagnostic software on a new computer, make sure that the installation package you have downloaded is complete and the latest version of the diagnostic software is available at: <https://gradex.saicmaxus.com/>

Full installation package size on website:

Version	Package	Size (M)	Released Time	Release Notes
V038	SAIC-GRADE-X_2.0.45_V038.exe	2857.00	09/09/2022 02:09:03 PM	Diagnostic data / Flash data update: 1. Sv91 Ling...
V3.0	SAIC_VDI_II_III_Setup_V3.0.exe	236.29	31/08/2022 06:35:11 PM	VDI_II-III驱动程序 (VDI-II-III Driver)

Full installation package

Size of the installation package downloaded to the local PC:

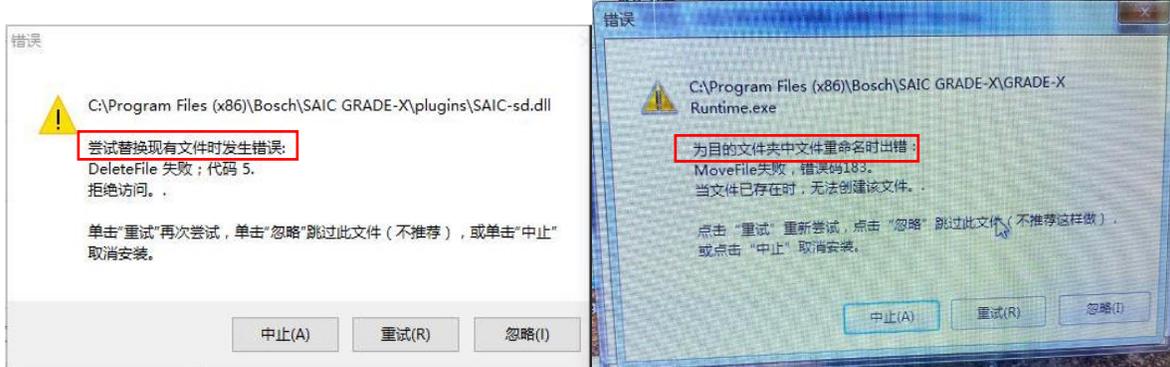
Right-click on the installer package

Compare the full package size on the web site above, and it is consistent

1.2 If you have previously installed an older version of the diagnostic software, uninstall the older version of the diagnostic software before reinstalling the latest version, otherwise you

may cause the installation to fail, and the following error is commonly reported during the installation:

Keywords: "Error replacing existing folder", "... error renaming file"



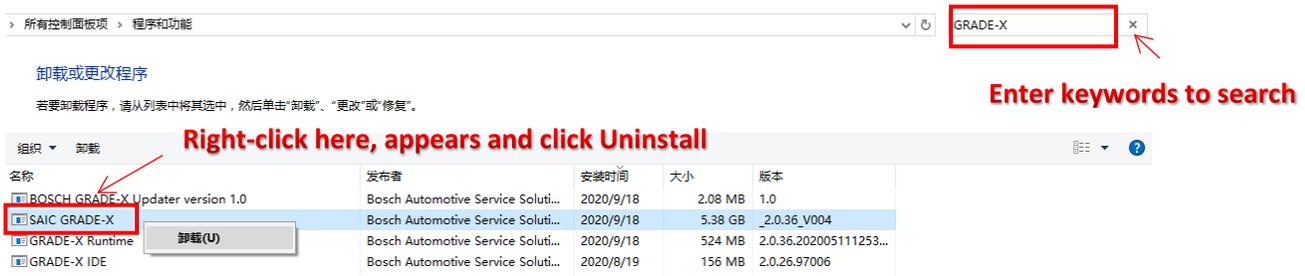
2. How do I uninstall the software?

2.1 Software uninstall method: Click the (WIN7 left mouse click) / (win10 right mouse click) button.

Select Control Panel, then Programs, and then uninstall the old version of the software as needed:



2.1.1 Uninstall the diagnostic software: Locate SAIC GRADE-X, right-click, Uninstall



所有控制面板项 > 程序和功能

卸载或更改程序

若要卸载程序，请从列表中选择其选中，然后单击“卸载”、“更改”或“修复”。

组织 ▾ 卸载

Right-click here, appears and click Uninstall

Enter keywords to search

名称	发布者	安装时间	大小	版本
BOSCH GRADE-X Updater version 1.0	Bosch Automotive Service Soluti...	2020/9/18	2.08 MB	1.0
SAIC GRADE-X	Bosch Automotive Service Soluti...	2020/9/18	5.38 GB	_2.0.36_V004
GRADE-X Runtime	Bosch Automotive Service Soluti...	2020/9/18	524 MB	2.0.36.202005111253...
GRADE-X IDE	Bosch Automotive Service Soluti...	2020/8/19	156 MB	2.0.26.97006

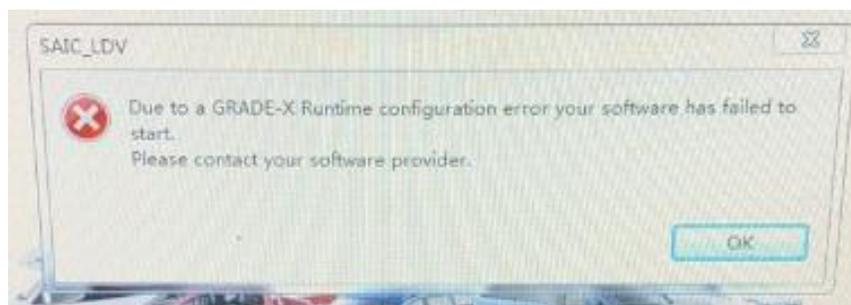
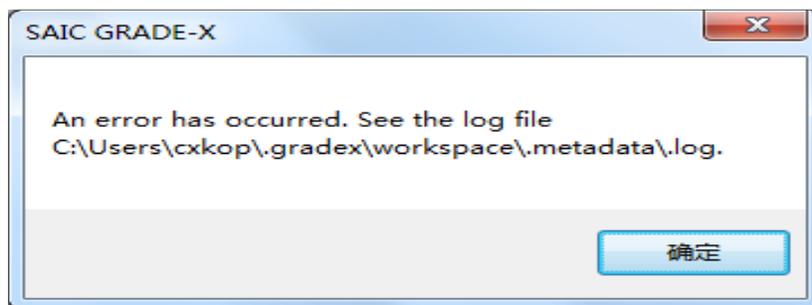
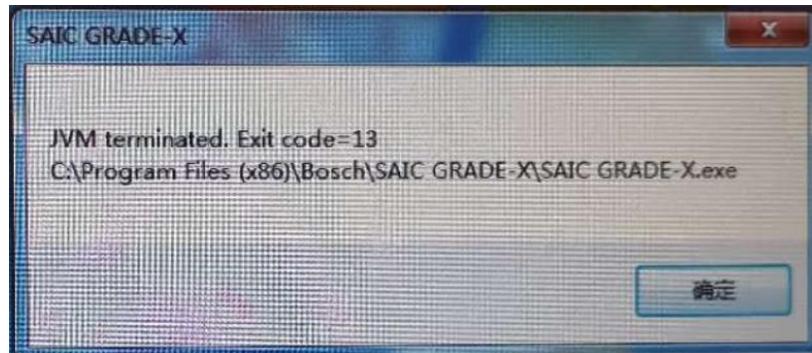
2.1.2 Uninstall the VCI Manager & CVDS software (as above): Locate "Bosch VCI Software (SAIC)" and "SAIC CVDS" Software, right-click, Uninstall

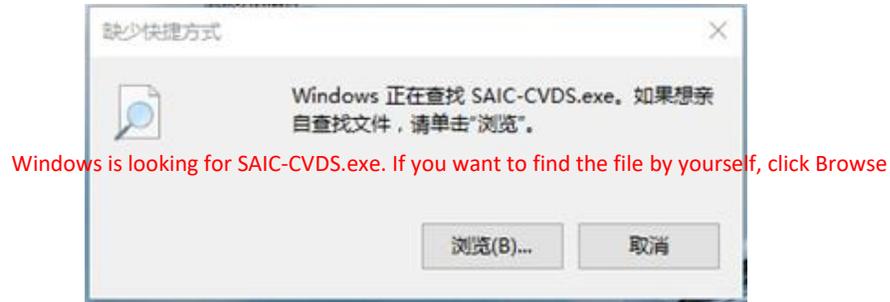
Bosch VCI Software (SAIC) - 2.4.33.5	Bosch	2020/9/18	132 MB	2.4.33.5
SAIC CVDS Software - 1.8.0.50060	公司名称	2020/9/18	33.7 MB	1.8.0.50060

3. Diagnostic software SAIC GRADE-X does not open?

3.1 When the diagnostic software opens, an error is reported below, indicating that the diagnostic software system files are missing.

[Solution] (You can try restarting the computer first to see if it resolves the problem) Uninstall the installed diagnostic software and reinstall the latest version:

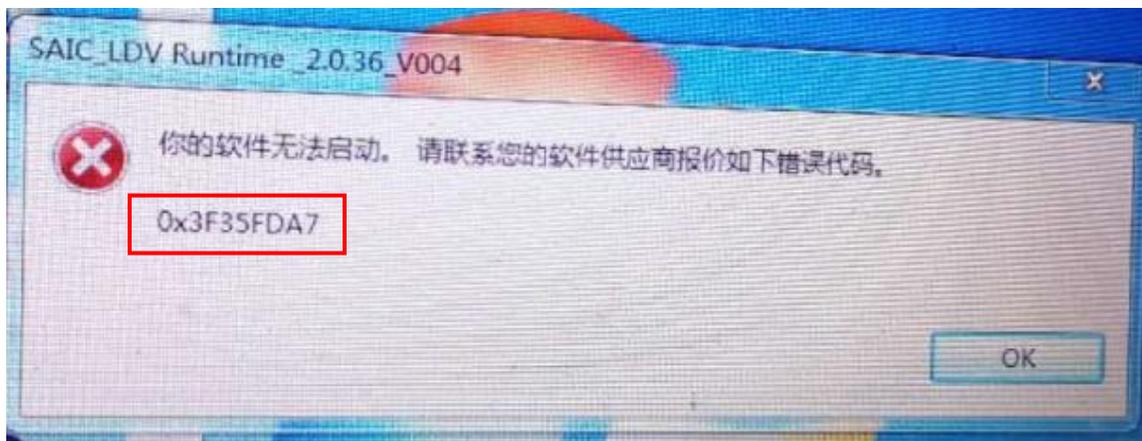




Note: Before reinstalling the diagnostic software, close the 360, antivirus, firewall, and other security software on your current computer.

3.2 When the diagnostic software opens, it encounters an error "0x3F35FDA7" below, which indicates that the local time and date of the computer are abnormal.

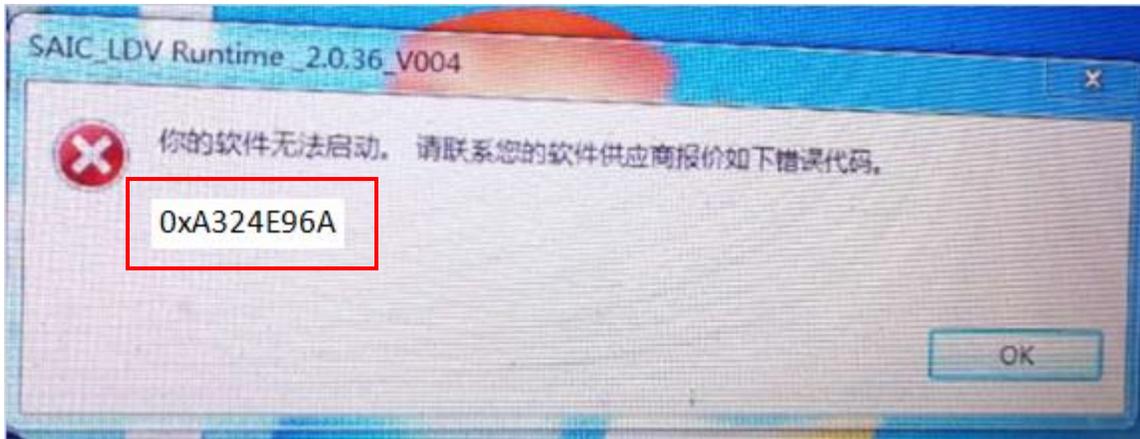
[Solution] Adjust back to normal computer date and time



3.3 When the diagnostic software opens and encounters the error "0xA324E96A" below, the diagnostic software description identifies the hardware number error.

[Solution]

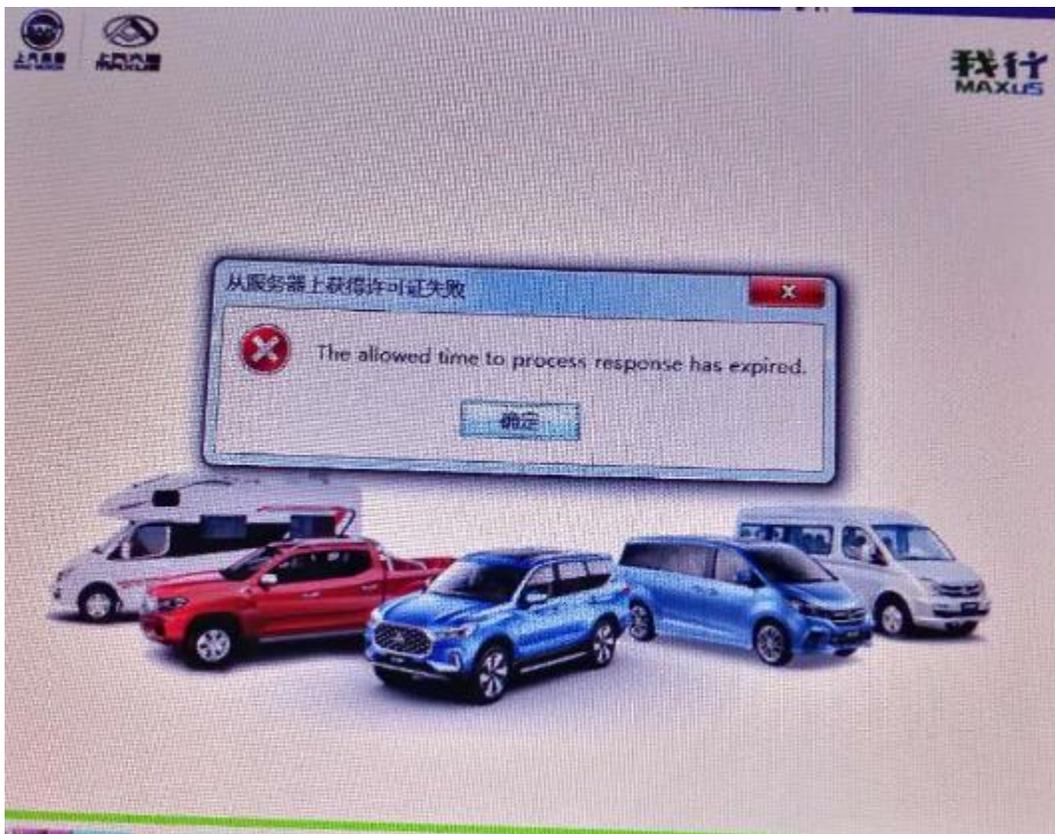
1. Restart the computer; (if not, proceed to 2 or 3 steps)
2. Turn off 360, anti-virus, firewall, and other security software on your current computer;
3. Uninstall the installed diagnostic software and reinstall the latest version.



3.4 When the diagnostic software opens, it encounters the following error "Failed to obtain a license from the server", which indicates that the diagnostic software cannot connect to the server for license identification.

[Solution]

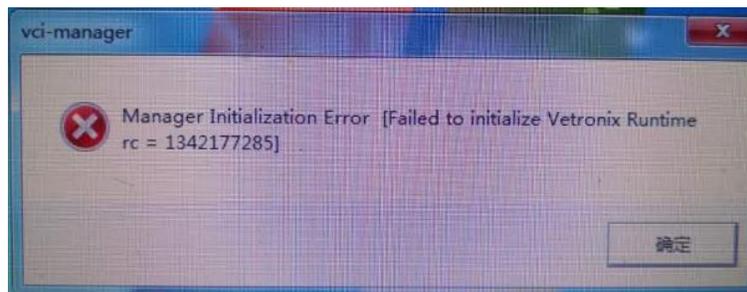
1. Check if the current network is working properly, i.e. if the web page is able to browse properly; (if not, proceed with 2 steps)
2. Uninstall the installed diagnostic software and reinstall the latest version

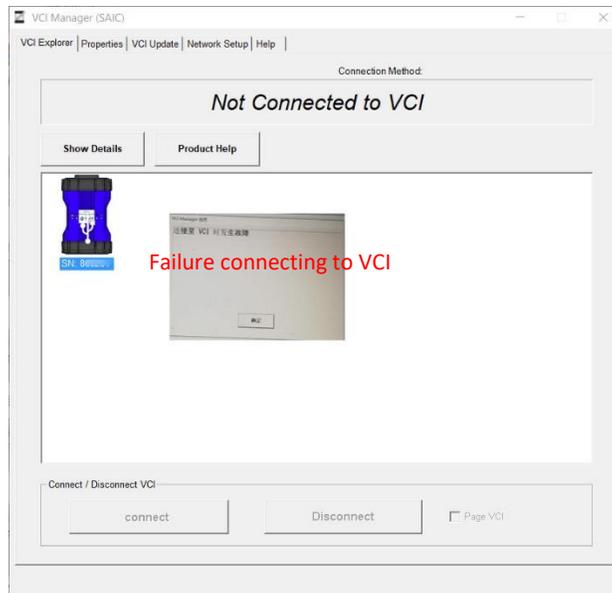


4. VCI Manager Software Will Not Open?

4.1 When the VCI Manager software is opened, an error is reported below, indicating that the VCI system files are corrupted.

[Workaround] Uninstall the VCI driver installed and reinstall `VCI-II-III_Setup.exe` (See page 18 for uninstall and page 3 for installation):



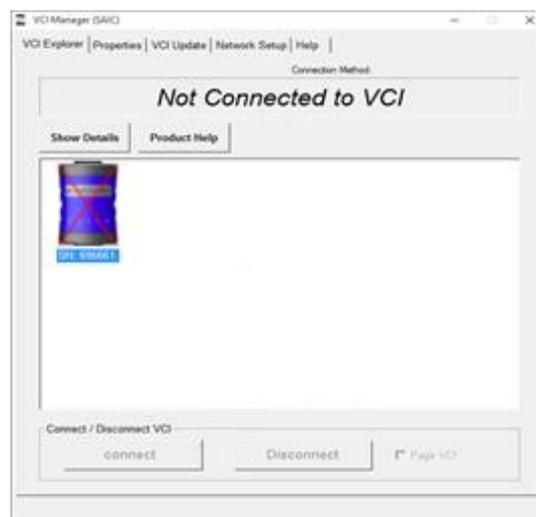


5. VCI Manager Software does not detect any VCI?

5.1 When the VCI Manager software is opened, the following display indicates that the VCI hardware is not detected on the computer.

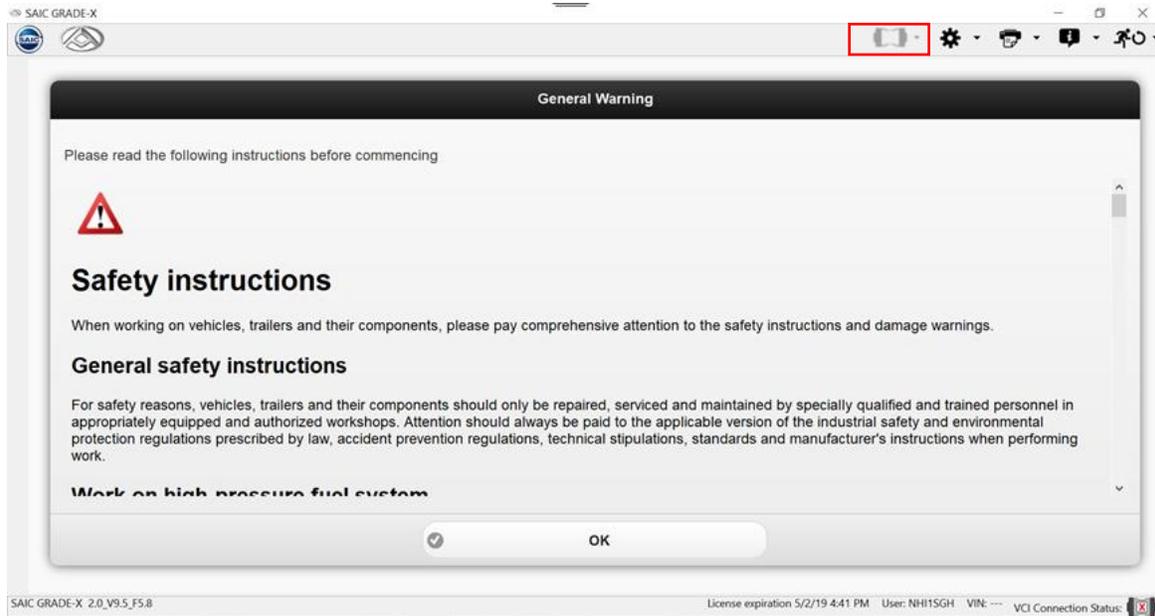
[Solution] First, make sure that the diagnostic software is not currently on (if it is already on, close it first).

Connect to the computer via VCI wired, try more of the other USB ports on the computer (one of the USB ports on the computer may be bad) / Replace the VCI cable (the VCI cable may be bad) / Replace the VCI (worst result --) VCI may be bad, Diagnostic Hardware VCI Bosch Service Phone: 0755-2688652)

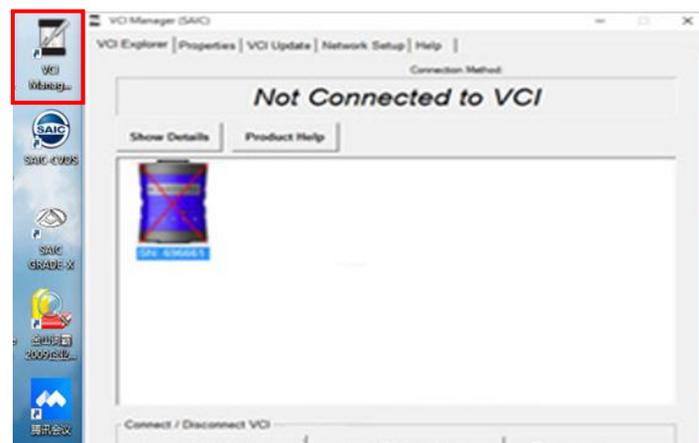


6. Cannot diagnose the system, what can I do?

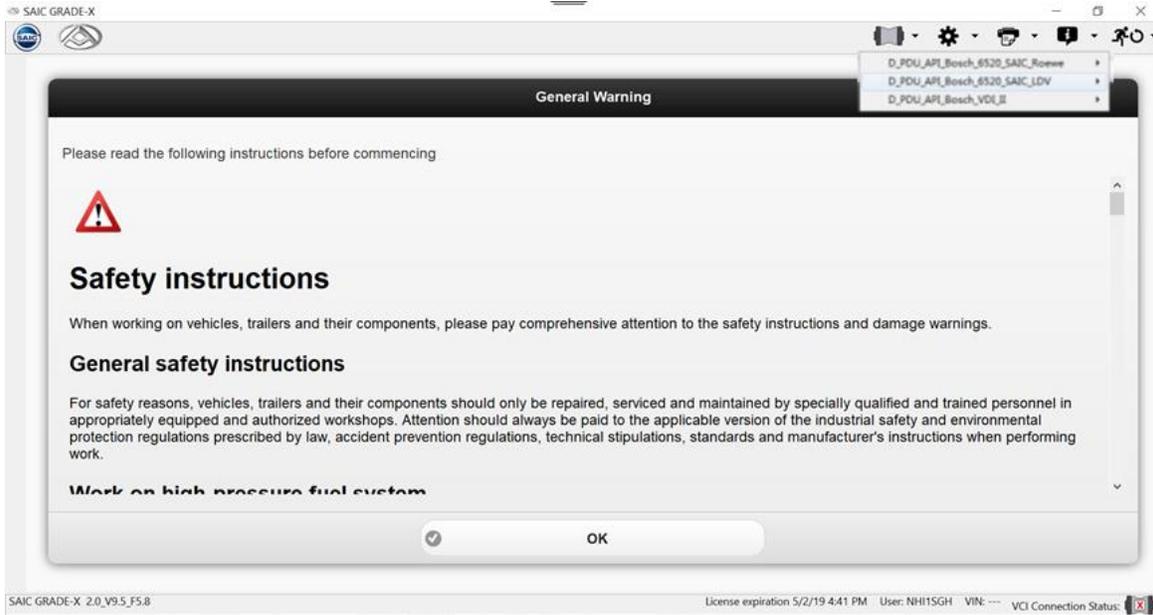
6.1 When the diagnostic software is opened and the button in the red box is grayed out, the VCI driver is not installed, please install the VCI Management Tool first, otherwise the diagnostic software will not work properly. (See page 3)



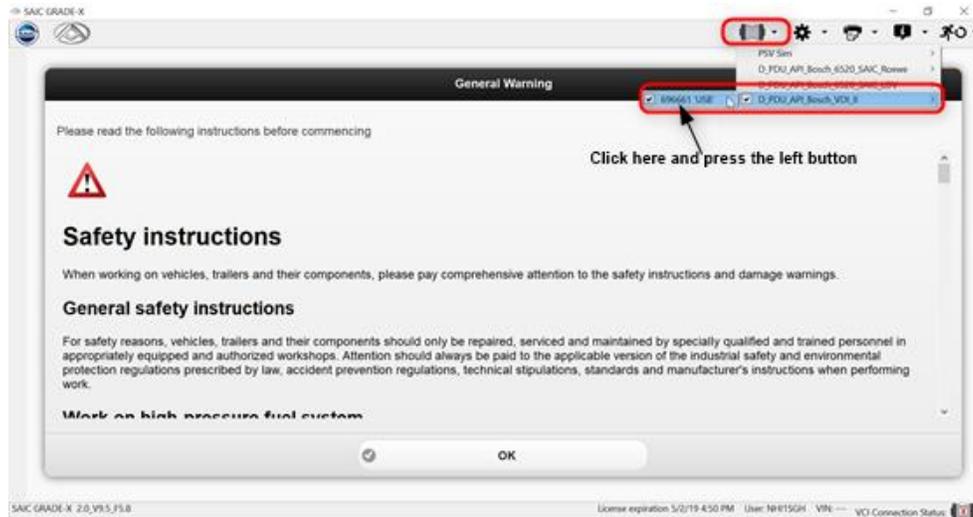
6.2 After the VCI software is properly installed, the desktop generates an icon, as shown in the following figure:



6.3 Re-open the GRADE-X software and show that the VCI Management Software is installed but not connected properly:



6.4 The image below indicates that the VCI is connected properly and that the diagnostic software is ready to be used, with a “√” highlighted on both front and rear points.



6.5 At the same time, more than 2 lights to view the current VCI must be on (normal green light, red light indicates fault light).

7. Change the software language?

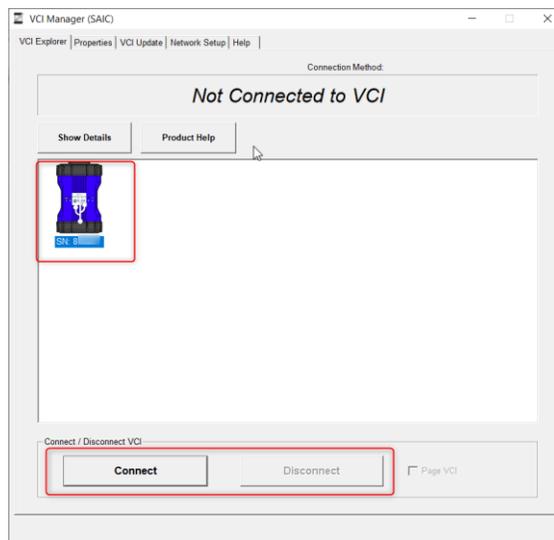
A: In the last menu of the software interface, the following  settings can be set:



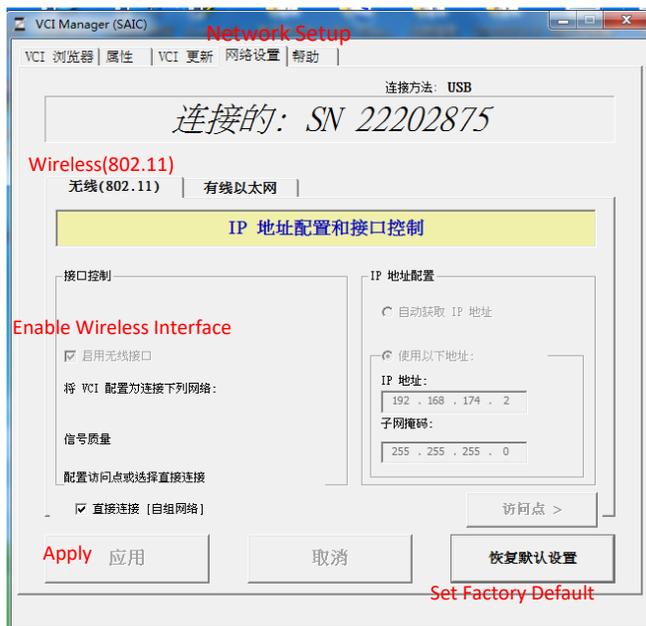
8. How does VCI set up wireless?

A: 1. First you will install the VCI management software and open the VCI, as shown in the following figure:

(VCI VDI II/III and VCI 6520 connect wirelessly in essentially the same way, with the difference being VCI The 6520 is a wireless connection via a PC connected to its local area network, so connecting to the VCI 6520 can cause Internet functionality to become unusable when the PC is using a wireless network; VCI VDI II/III box has a wireless USB connector that needs to be plugged into the computer for wireless connectivity, proceed as follows)



Connect the VCI hardware to the computer via wired USB, select the VCI icon in the software and click [Connect]

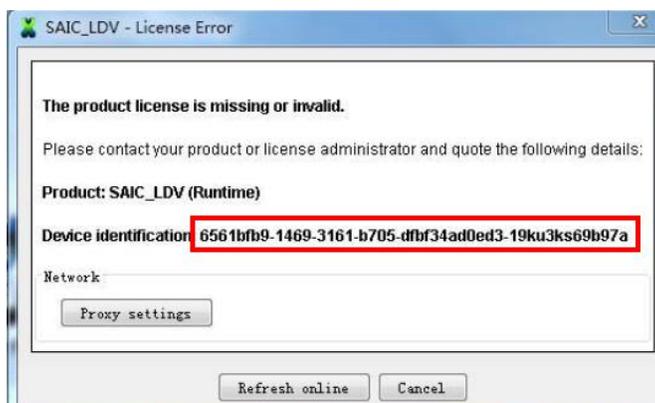


1. Select Network Settings -> Wireless (802.11) Enable Wireless Interface ✓ and click Apply/Restore Default Settings That's OK, and finally disconnect and reset the VCI hardware from both the computer side and the vehicle side, and you can use the wireless connection.

Note: The WIN 10 PC cannot use the wireless connection VCI 6520 (VCI Generation 1) due to operating system limitations.

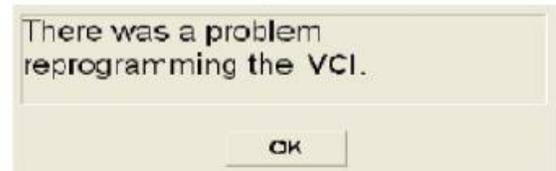
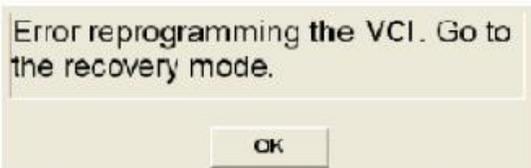
9. How does the software activate and register?

A: When you open the diagnostic software, the following prompt appears stating that the diagnostic software needs to be activated (see section 5)



10. How do I reset the VCI?

A: 1. When the VCI prompts for the following message (1.VCI Reprogramming Error, Entering Recovery Mode; 2.VCI Reprogramming Problem), any of the error prompts require a VCI Reset Required (shown below)

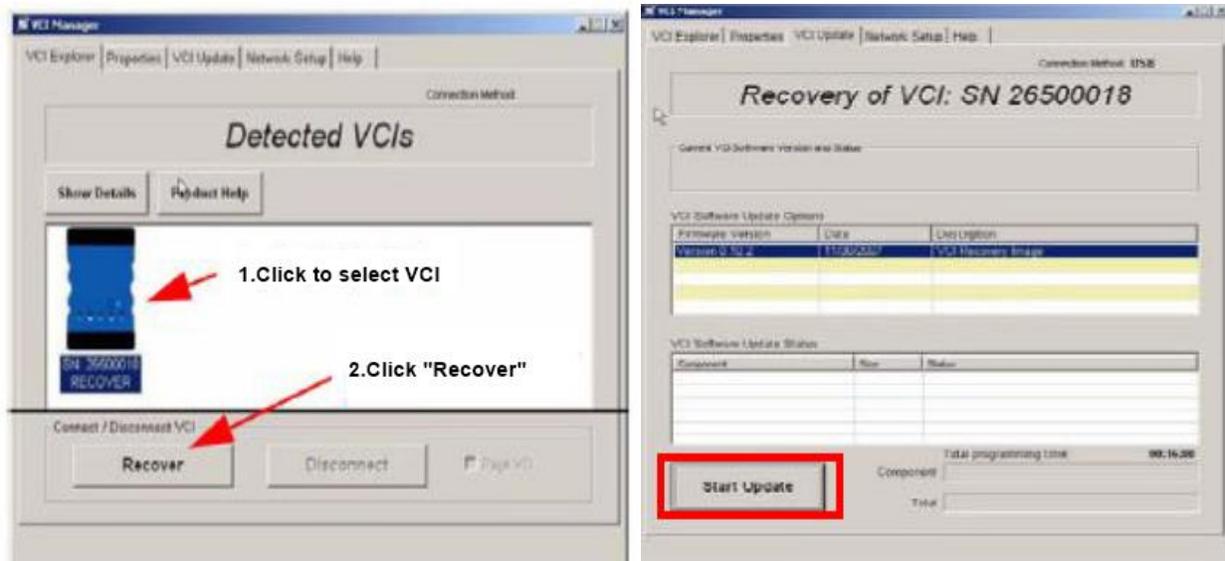


Put the VCI into RECOVER by following the procedure below

2.1 Disconnect the VCI power supply, it may be necessary to disconnect the power cord and press the power button to check that the lamp on the VCI is off, if the power light has not gone off after disconnecting the power cord, remove the battery.

2.2 Power up the VCI while pressing and holding the power button, knowing that all status lights are on, release the power button, wait for the rightmost light to come on, and a 'beep' indicates a successful recovery.

2.3 Point on the VCI management software and the VCI must be connected via USB, otherwise it is not recognized, as shown in the following figure:



2.4 Do not disconnect the USB or power supply during the above recovery process.

2.5 The above prompt indicates a successful VCI restore:



11. Bosch Service Hotline - 4000005109

If you have problems with the post-sales diagnostic software installation and VCI hardware connection, you can call the Bosch service hotline at 4000005109.