



DiCE INSTALLATION INSTRUCTION



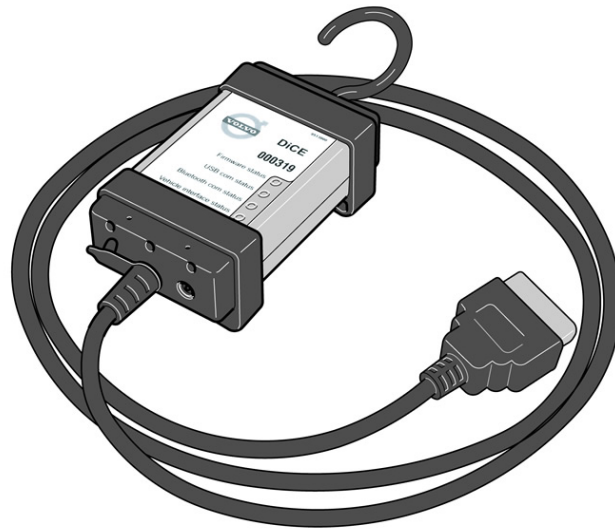
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1.0 Introduction

DiCE – Diagnostic Communication Equipment is a tool that is used together with VIDA All-in-One to communicate with the vehicle. Communication makes diagnosing and troubleshooting the vehicle possible, as well as the downloading of software.

DiCE uses Bluetooth to transfer information wirelessly between the vehicle and VIDA All-in-One. This gives the technicians more flexibility. A USB cable can be used as an alternative to Bluetooth.



1.1 Support

For general support and questions concerning DiCE, submit a Help Request via www.volvotechinfo.com.

Getting started

1.2 Uninstalling built-in Bluetooth

If you have built-in Bluetooth on your client or Panasonic Toughbook CF30 (purchased prior to February 2008) it has to be uninstalled for DiCE to work properly.

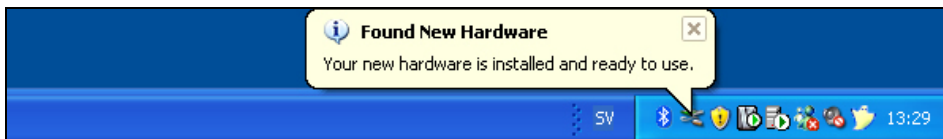
1.3 Install the latest Vida edition

Install the latest version of VIDA and all applicable eUpdates, prior to beginning this installation process. The most current information concerning VIDA is available on [Volvotechinfo](#).

1.4 Plug in of the supported Bluetooth USB adapter

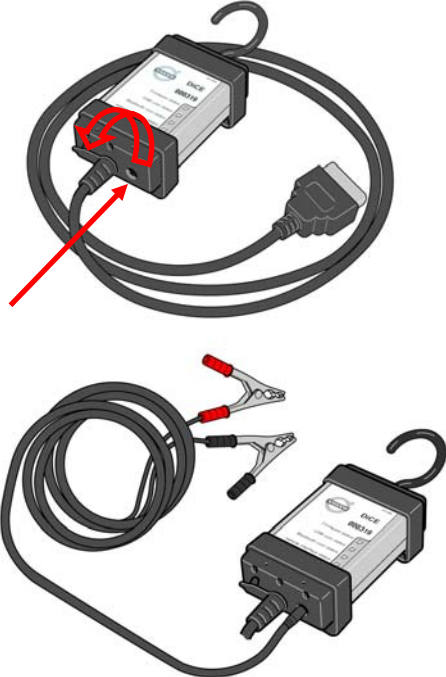
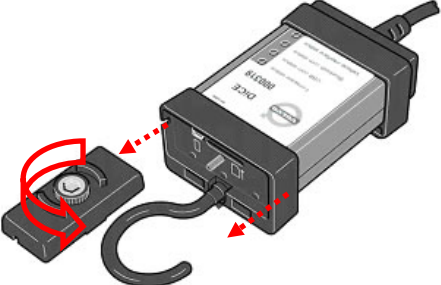
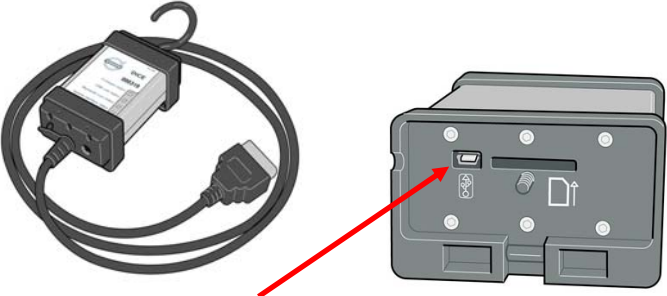
Insert the Bluetooth adapter (9513005) along with the USB cable (9513007). Several installation images will appear, with the below image finally appearing:


Note! The only supporting Bluetooth adapter is the Volvo supplied adapter, part number 9513005.




1.5 Installation of USB driver for DiCE

For each new or additional DiCE unit that is going to be used in VIDA, the USB driver must be installed separately. This is done automatically in Windows when the DiCE unit is inserted into a USB port. Carry out the instructions below.

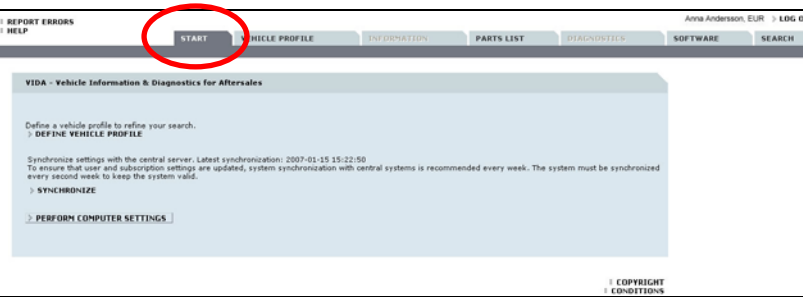
Step	Description	Illustration
1	<p>Power up and connect DiCE to a PC via USB</p> <p>1. Power up the DiCE unit by connecting 12 V DC to the AD input on the DiCE unit, see picture to the right. Use the cable with part number 9513004 connected to the vehicle battery.</p>	
	<p>2. Remove the cover of the DiCE unit by turning the screw on the cover.</p>	
	<p>3. Connect the short USB cable to the DiCE unit. (9513003)</p>	
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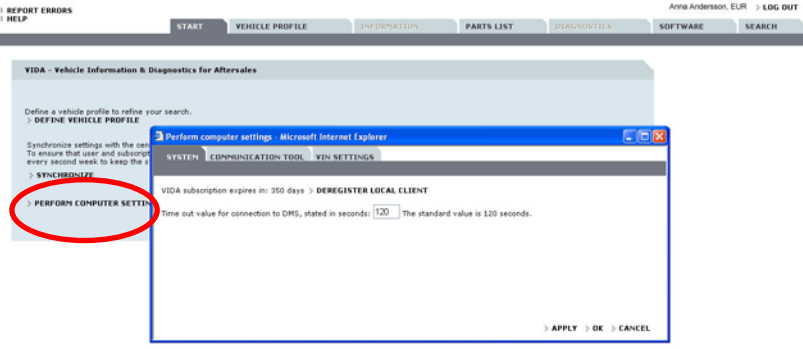
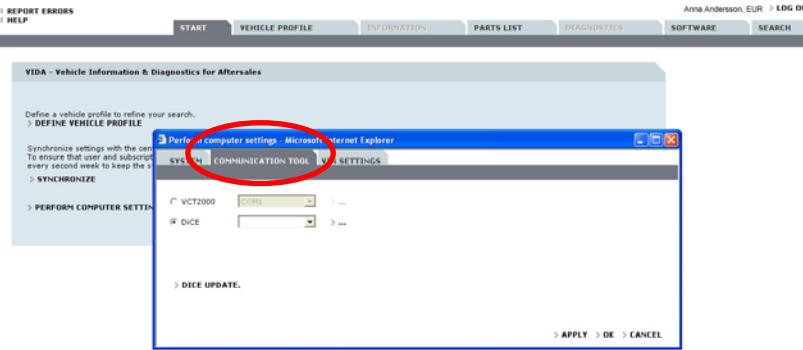
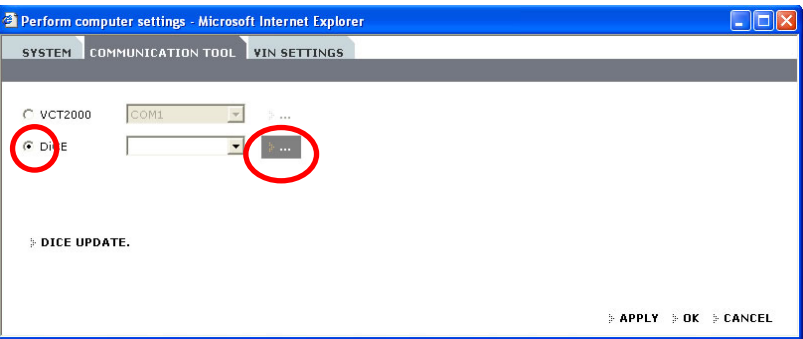
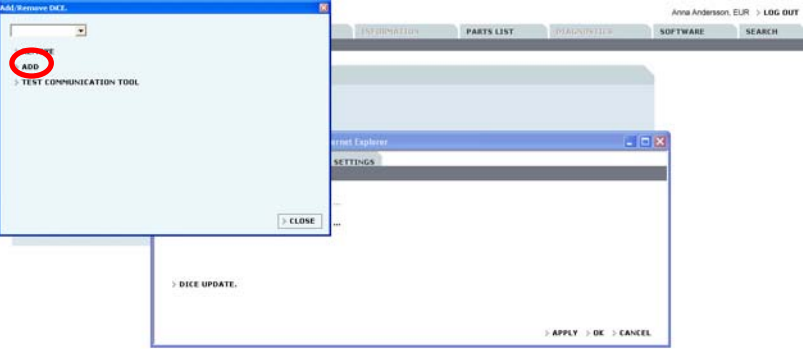
	<p>4. Connect the USB cable to a free USB port in the computer.</p> <p>NOTE! Pull out the Bluetooth adapter cable temporarily if there is only one USB port in the computer.</p>	
	<p>5. The window shown in the picture opens automatically in Windows the very first time you install DiCE.</p> <p>NOTE! This might take several minutes.</p> <p>6. Choose “Yes, now and every time I connect a device”.</p> <p>7. Click on NEXT.</p>	 <p>8. The window shown in the picture opens automatically in Windows.</p> <p>NOTE! This might take several minutes to appear.</p> <p>9. Choose “Install the software automatically”.</p> <p>10. Click on NEXT.</p>

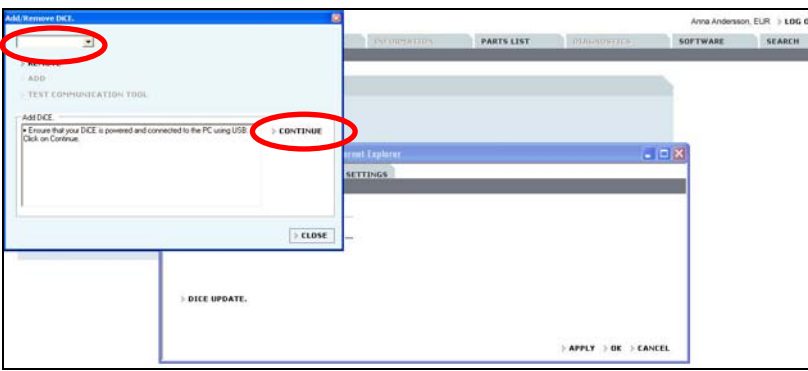
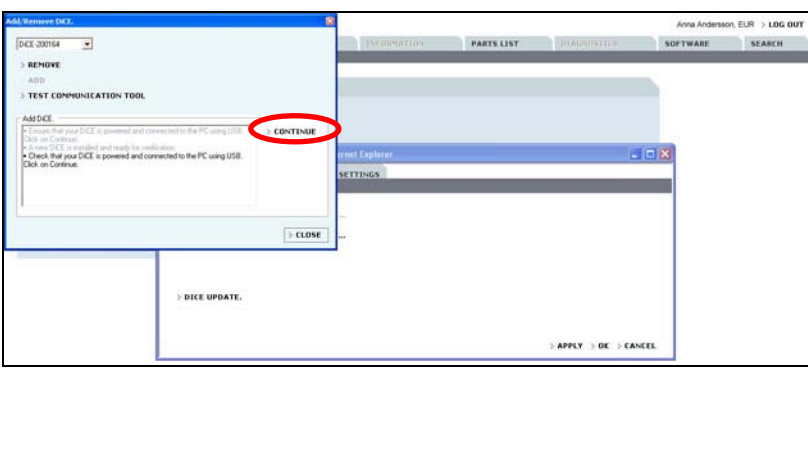
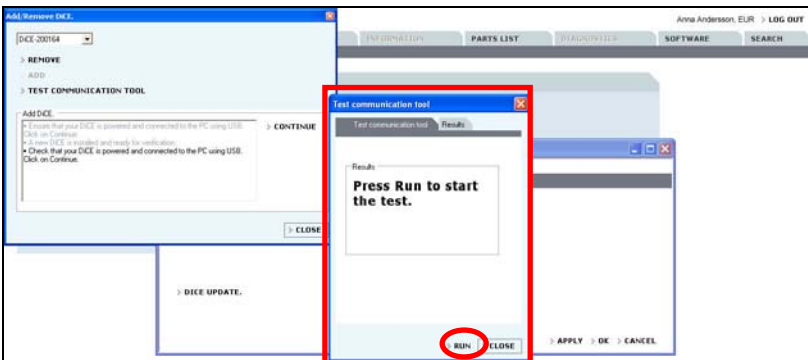
Step	Description	Illustration
2	<p>Finish the DiCE installation of USB driver.</p> <p>Click on FINISH. The installation of the USB driver for this DiCE unit is completed.</p>	

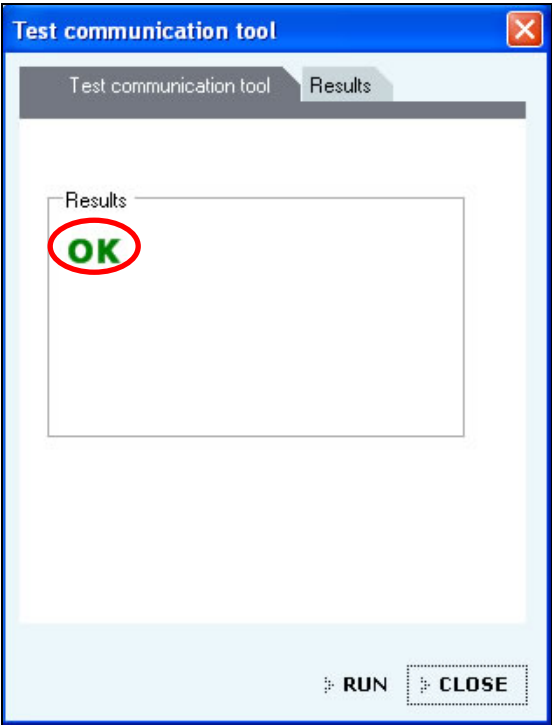
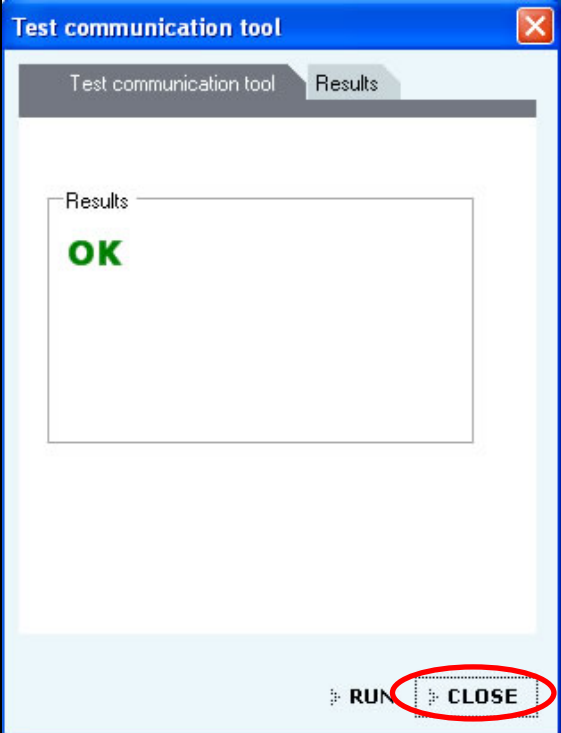
1.6 Adding the DiCE Unit into VIDA

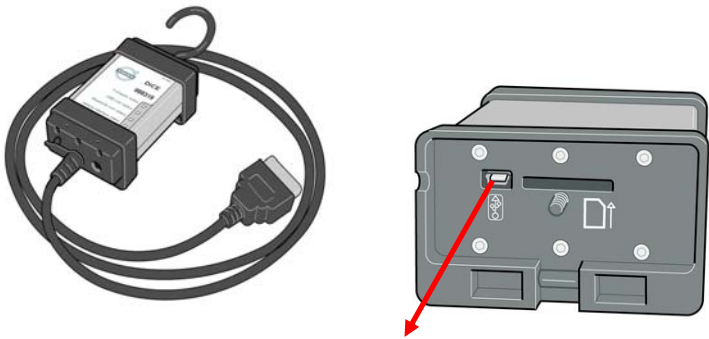
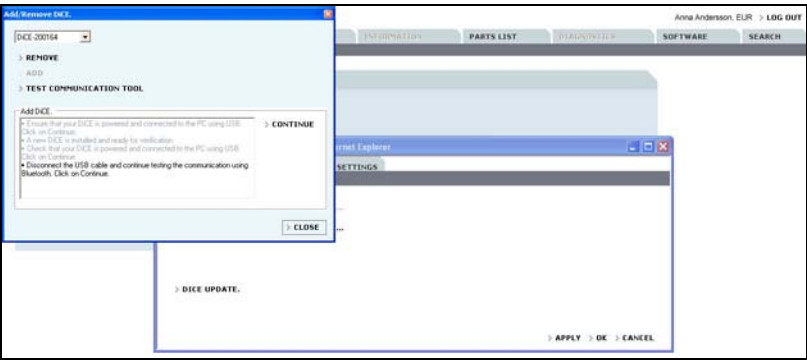
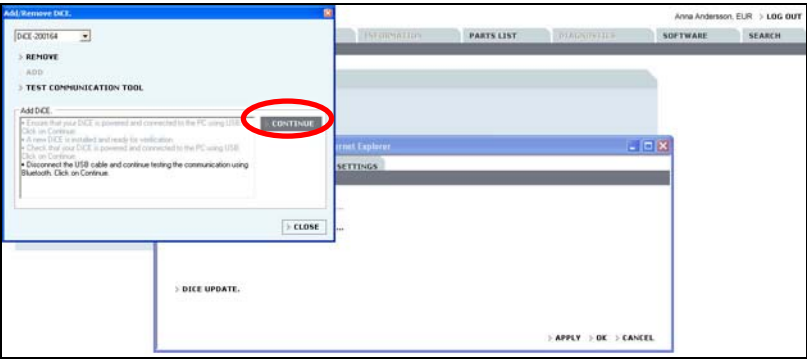
To add a DiCE, carry out the following:

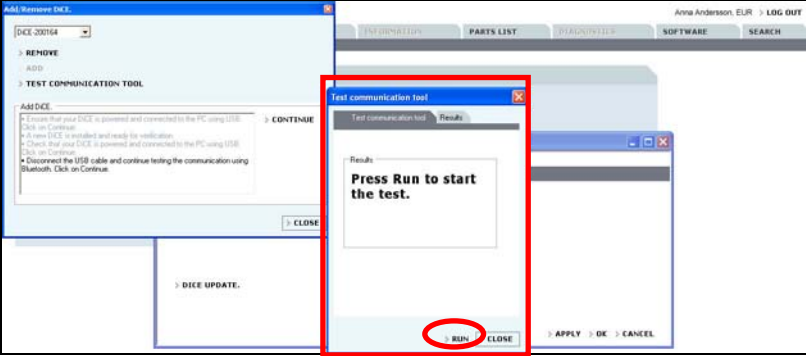
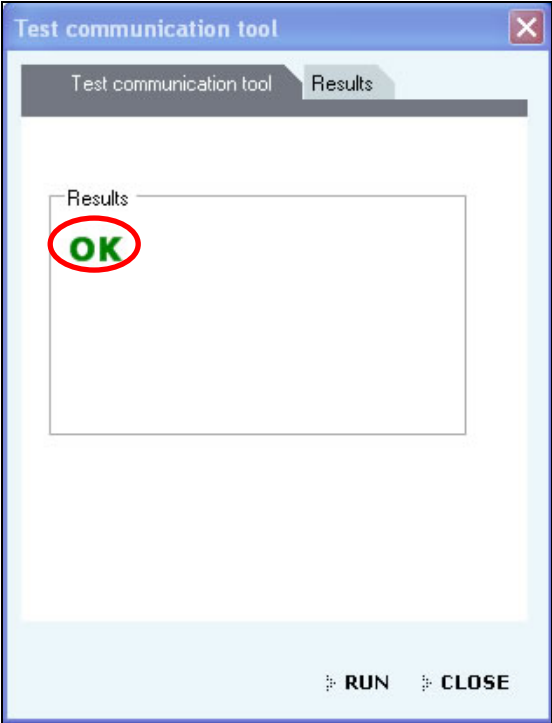
Step	Description	Illustration
1	<p>Start VIDA All-in-one. Choose the START tab.</p>	
		Continued in next page

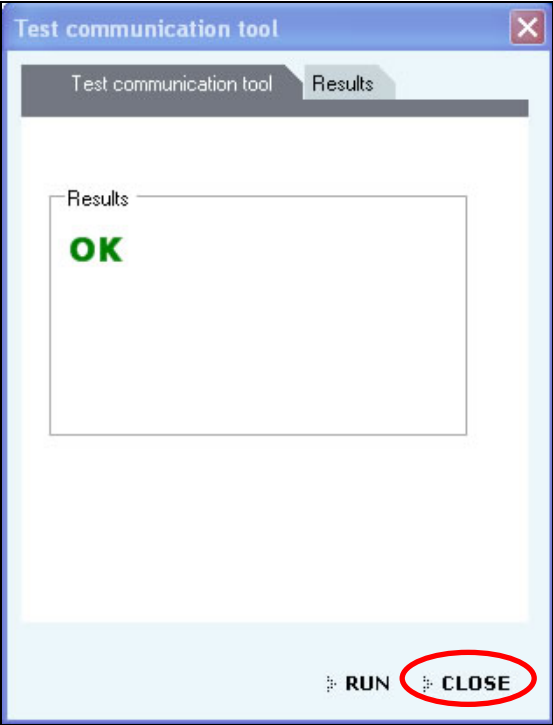
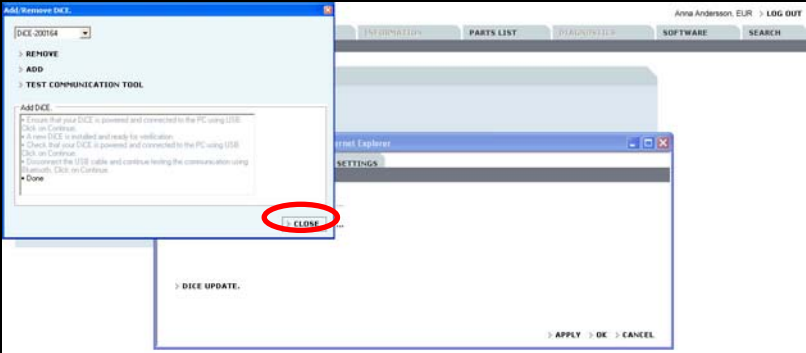
<p>2</p> <p>Click on PERFORM COMPUTER SETTINGS</p>	<p>and then the COMMUNICATION TOOL tab.</p>	 
<p>3</p> <p>Click on the DiCE radio button.</p>	<p>To add a DiCE, click on the button with three dots (...) to the right of the DiCE drop-down list.</p>	
<p>4</p> <p>Click on ADD. If a DiCE is already installed, the window looks different.</p> <p>NOTE! If one or more DiCE units are already configured, this will be shown.</p>		
<p>Continued in next page</p>		

<p>5</p>	<p>Follow the instructions and click on CONTINUE. VIDA will search for a new DiCE. This will take about 10 seconds. The DiCE ID will be shown in the drop down menu.</p>	
<p>6</p>	<p>Click on CONTINUE to start the test of the USB connection.</p> <p>NOTE! Step 7 to and including step 20 are performed to ensure, verify and initiate communication between VIDA and the DiCE unit. Additional testing information can be found in Special Tool Bulletin 161.</p>	
<p>7</p>	<p>The "Test Communication Tool" window is opened. Click on RUN to start the test.</p>	
<p>Continued in next page</p>		

Step	Description	Illustration
8	The test result should show OK with green text as shown in the picture.	 <p>The screenshot shows a window titled "Test communication tool" with a close button (X) in the top right corner. Below the title bar is a tabbed interface with two tabs: "Test communication tool" and "Results". The "Results" tab is active. Inside the Results tab, there is a text area labeled "Results" containing the text "OK" in green, which is circled in red. At the bottom of the window, there are two buttons: "RUN" and "CLOSE".</p>
9	<p>Click on CLOSE in the "Test communication tool" window.</p> <p>Note! Do NOT close the "Add/Remove DICE" window.</p>	 <p>The screenshot shows the same "Test communication tool" window. The "Results" tab is active, and the text "OK" is displayed in green. The "CLOSE" button at the bottom right is circled in red. The "RUN" button is also visible.</p>

Step	Description	Illustration
10	<p>Remove the USB-cable from the DiCE-unit.</p> <p>Replace the cover.</p> <p>NOTE the position of the notch for the USB cable.</p>	 
11	<p>Connect the Bluetooth adapter in a free USB port in the computer, if it is not connected already.</p>	
12	<p>Click on CONTINUE to start the test, of the Bluetooth connection.</p>	
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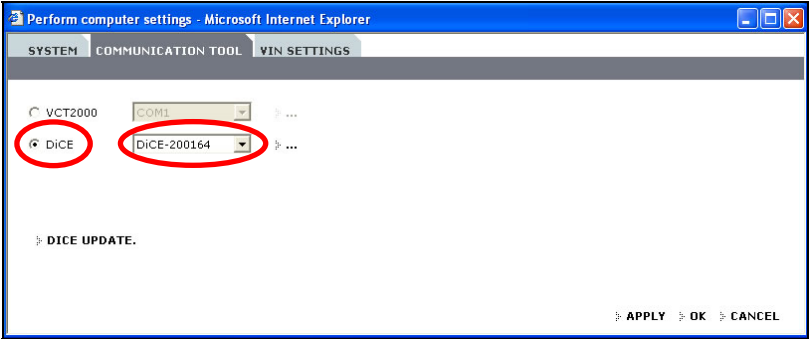
Step	Description	Illustration
13	Click on RUN in the "Test communication tool" window. The Bluetooth connection will be initiated and configured. This will take about one minute.	 <p>The screenshot shows the DICE software interface. A window titled 'Test communication tool' is open, displaying instructions for testing the Bluetooth connection. The 'RUN' button at the bottom of the window is circled in red. The background shows the DICE main interface with a 'DICE 200764' dropdown menu and various navigation options like 'PARTS LIST', 'SOFTWARE', and 'SEARCH'.</p>
14	When the test of the Bluetooth connection is finished, OK is shown with green text as in the picture.	 <p>The screenshot shows the 'Test communication tool' window with the 'Results' tab selected. The word 'OK' is displayed in green text within the results area, indicating a successful test. The 'RUN' and 'CLOSE' buttons are visible at the bottom of the window.</p>
		Continued in next page

<p>15</p>	<p>Click on CLOSE in the “Test communication tool” window.</p>	
<p>16</p>	<p>Close the window “Add/Remove DiCE” by clicking CLOSE.</p> <p>CONGRATULATIONS!</p> <p>You have successfully managed to install and configure the DiCE.</p>	

The DiCE unit is now configured for both USB and Bluetooth connection at the VIDA client. To set DiCE as the default communication tool, see section 1.7

NOTE! If DiCE is connected with a USB cable, the communication will always go through USB.

1.7 Choose default communication tool in VIDA

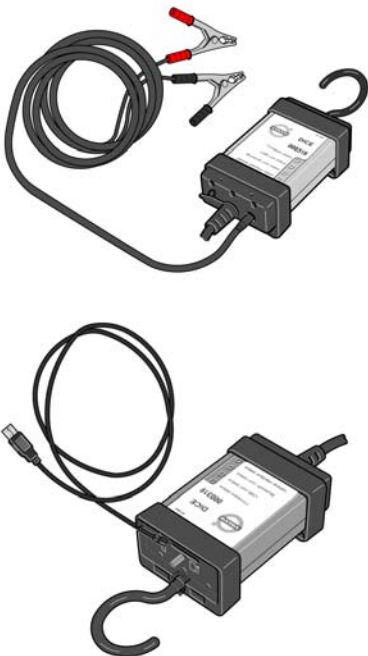
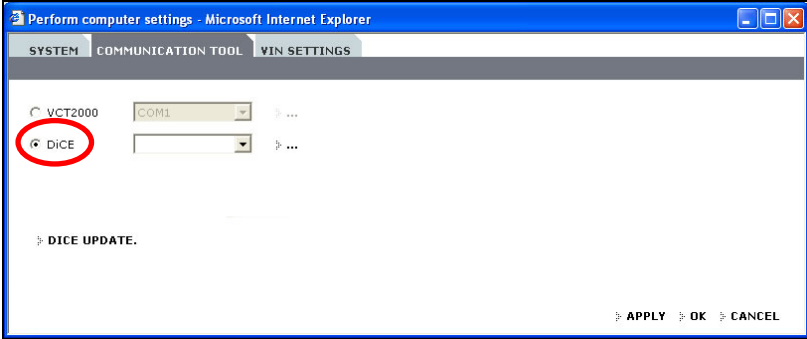
Step	Description	Illustration
1	Start VIDA and select the START tab and the COMMUNICATION TOOL tab, if you are not already there.	
2	Select DiCE radio button. Select the DiCE unit you want to use as the default unit from the drop-down list under the COMMUNICATION TOOL tab.	 <p>The screenshot shows a web browser window titled 'Perform computer settings - Microsoft Internet Explorer'. The 'COMMUNICATION TOOL' tab is active. Under the 'VCT2000' section, there is a 'COM1' dropdown menu. Below it, the 'DiCE' radio button is selected and circled in red. To its right, a dropdown menu shows 'DiCE-200164' selected and is also circled in red. At the bottom of the dialog, there are 'APPLY', 'OK', and 'CANCEL' buttons.</p>
3	Click on APPLY.	
4	Click on OK.	

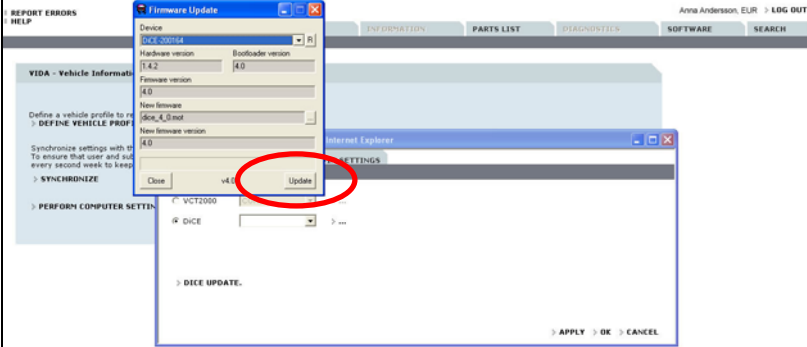
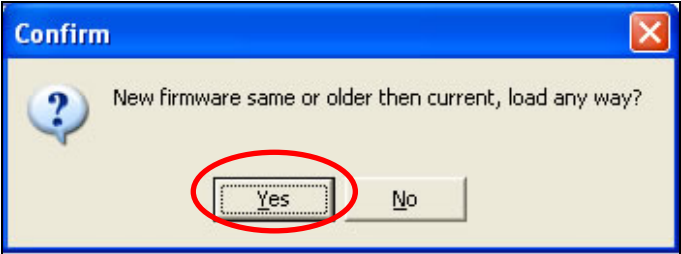
1.8 Check and update of internal software in DiCE unit

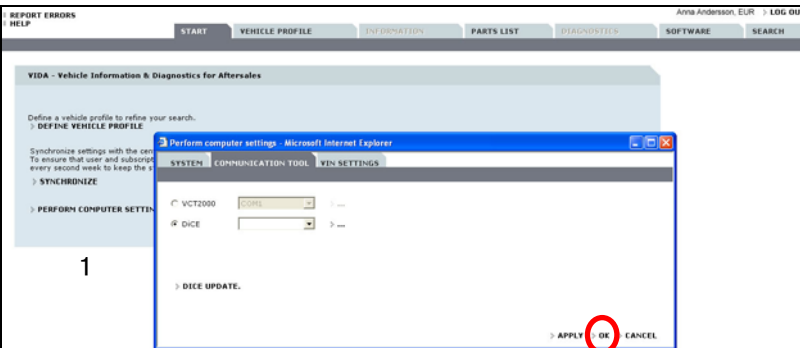
Updating of the internal software (also called Firmware) in a DiCE unit is done via the VIDA All-in-one client. When updating the firmware, the DiCE unit shall be connected with a USB cable and 12 V power supply. Ensure that the Firmware status LED is flashing green.

USB connection is a safer data transmission than Bluetooth. Reliable transmission is important when updating the firmware.

See detailed instructions on next page.

Step	Description	Illustration
1	<p>Connecting DiCE</p> <ol style="list-style-type: none"> 1. Connect 12 V voltage feed via the 12 V DC, p/n 9513004. 2. Connect the DiCE unit via a USB cable (9513003) to the USB port on the client. 	
2	<p>Choose DiCE unit in VIDA</p> <ol style="list-style-type: none"> 1. Click on PERFORM COMPUTER SETTINGS in VIDA and then on the COMMUNICATION TOOL tab. <p>NOTE! Do NOT click on the (3 dot button)</p> <ol style="list-style-type: none"> 2. Click on DiCE UPDATE. The Firmware Update window is opened. 	
		Continued in next page

Step	Description	Illustration
3	<p>Updating the DiCE unit software</p> <ol style="list-style-type: none"> 1. Ensure that the correct DiCE unit and software, "New Firmware file", are chosen in the Firmware Update window. 2. Click on UPDATE. 3. The update takes about one minute. The question to the right might be shown if the DiCE unit already has the latest version of the software. In this case the unit could be updated anyway by answering YES to the question. 4. Close the Firmware Update application tool by clicking on CLOSE. 5. If this fails, power off and power on the DiCE again and retry. 6. When the update is finished, the text "Device update OK" is viewed. 	 
		Continued in next page

Step	Description	Illustration
4	Close the PERFORM COMPUTER SETTINGS window by clicking on OK.	 <p>The screenshot shows the VIDA software interface with the 'Perform computer settings' dialog box open. The dialog box has three tabs: 'SYSTEM', 'COMMUNICATION TOOL', and 'WIN SETTINGS'. The 'COMMUNICATION TOOL' tab is selected, showing a dropdown menu for 'VCT2000' and a field for 'DiCE'. The 'OK' button is circled in red, indicating the step to close the dialog box.</p>

1.9 Connecting DiCE to a vehicle

Connecting DiCE to a vehicle is very easy. Follow the steps below.

1. Ensure that the Bluetooth adapter or USB cable is connected to the VIDA client.
2. Always ensure that the vehicle is connected to a battery charger before connecting DiCE to the vehicle. DiCE is powered by the vehicle, **not via USB**.
3. Connect DiCE to the diagnostic socket or OBD connector in the vehicle. Hang unit where it is visible or place on the roof top through the driver's window. Put the ignition key in position II.
4. Start VIDA All-in-One.
5. Ensure that the correct DiCE unit serial number is chosen in VIDA.
6. Choose the VEHICLE PROFILE tab in VIDA.
7. Click on READ VEHICLE to read the VIN number of the vehicle.
8. All other functions regarding vehicle diagnostics and software downloading remain the same as with VCT2000.

1.10 Removing a DiCE unit

All DiCE units that are installed and added to a VIDA client will become Communication tools that can be selected. To remove a DiCE unit, carry out the following:

1. Start VIDA All-in-one. Select the START tab.
2. Click on PERFORM COMPUTER SETTINGS and then the COMMUNICATION TOOL tab.
3. Click on the dots beside the DiCE option in the drop-down list for COMMUNICATION TOOL.
4. In the DiCE unit drop-down list, select a DiCE unit to be removed and click on REMOVE.

