



To All Lamborghini Dealers and Licensed Service Point
From Customer Service Department
Subject Instrument Cluster Software Upgrade
Group 10.17.00
Date 10/02/2012
Pages 35

Subject

Instrument cluster software upgrade.

Model

Aventador LP700 MY 2012 From VIN CLA00091 to VIN CLA000557

Warning: some vehicles included in this VIN range may not be affected, so check carefully on the Lamborghini WEB Portal (at the section named VIN Info) if the cars in your workshop or in your eventual stock are effectively affected before performing any other operation.

Information to the field

As a continuous product monitoring, Automobili Lamborghini Spa has found that sporadically on some vehicles the coolant level warning light might not promptly activate.

Field solution

Upgrade the software that manages the instrument cluster.

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Warranty Claim data

The warranty reimbursement request for this rework action will be managed by the following standard Warranty Claim procedures.

Campaign Code: L834-A.02.12
Campaign Description: Instrument cluster software upgrade
Cost Code: 50
Component Code: CCA0212
Trouble Code: 220
Labour Code: CCA0612100
Labour Time: 1 h

Remember to fill all data in the section “Service and Recall Campaign” in the Warranty booklet of the vehicle as shown below.

Automobili Lamborghini S.p.A.
Campagne service assistenza e campagne di richiamo / Service- und Rückrufaktion / Service and Recall Campaign
Service et campagne de rappel / Campaña de Servicio y Llamada a Taller

<p>Service/Service Service/Service Servicio <input type="checkbox"/> Richiamo/Rückruf Recall/Rappel Llamada a Taller <input type="checkbox"/></p> <p>Numero/Nummer Number/Numéro Número <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/></p> <p>Data/Datum/Date/Date/Fecha <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/> <input style="width: 20px; height: 15px; border: 1px solid black;" type="text"/></p> <p>Data riparazione/Reparaturdatum Repair Data/Date de réparation Fecha reparación <input style="width: 20px; 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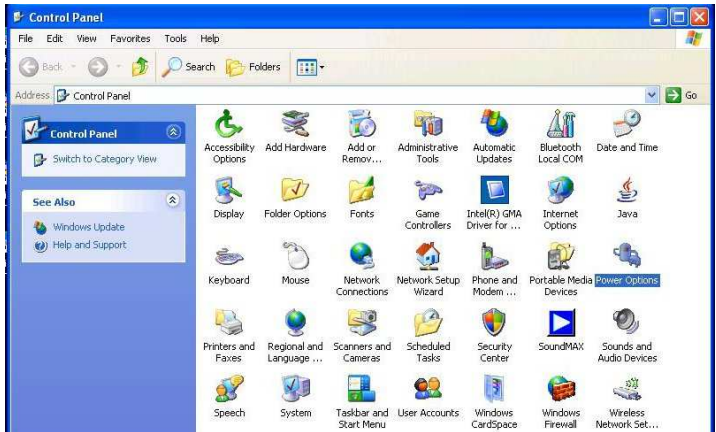
Workshop instructions

Preliminary operations

WARNING!

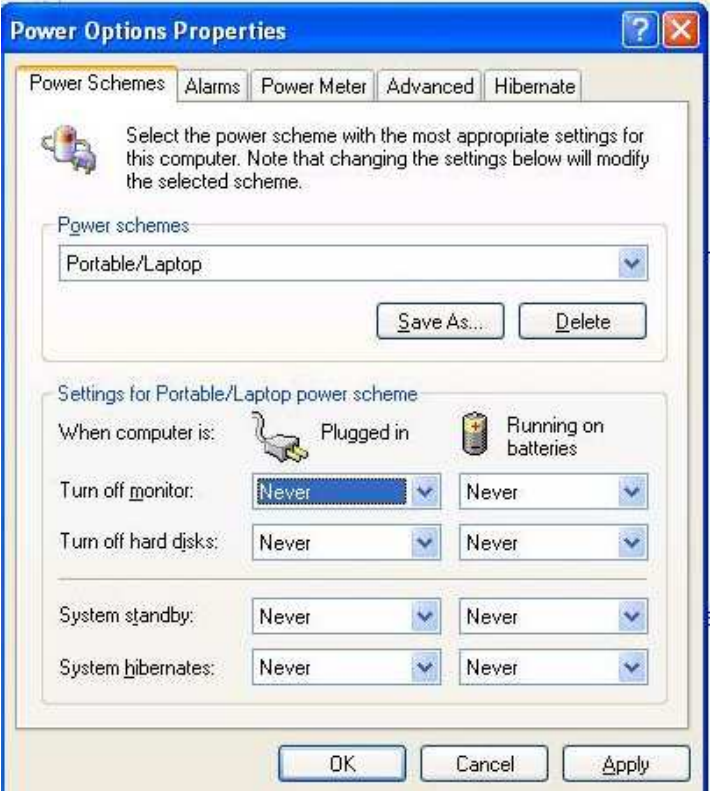
The Instrument cluster update lasts more than 30 minutes, hence it is necessary to plug the diagnostic laptop into an electrical socket and to deactivate screen savers and all the energy saving options in order to avoid any interruption of the procedure.

Deactivation of energy saving options

1	Select "Control Panel" from the menu "Start".	 A screenshot of the Windows Start menu. The 'Control Panel' icon is highlighted in blue. The Start menu is open, showing various applications and folders. The taskbar at the bottom shows the 'start' button, 'Log Off', and 'Turn Off Computer' buttons.
2	Select "Power Options".	 A screenshot of the Windows Control Panel window. The 'Power Options' icon is highlighted in blue. The Control Panel window shows a grid of various system settings icons, including Accessibility Options, Add Hardware, Add or Remove Programs, Administrative Tools, Automatic Updates, Bluetooth Local COM, Date and Time, Display, Folder Options, Fonts, Game Controllers, Intel(R) GMA Driver for..., Internet Options, Java, Keyboard, Mouse, Network Connections, Network Setup Wizard, Phone and Modem..., Portable Media Devices, Power Options, Printers and Faxes, Regional and Language..., Scanners and Cameras, Scheduled Tasks, Security Center, SoundMAX, Sounds and Audio Devices, Speech, System, Taskbar and Start Menu, User Accounts, Windows CardSpace, Windows Firewall, and Wireless Network Set...

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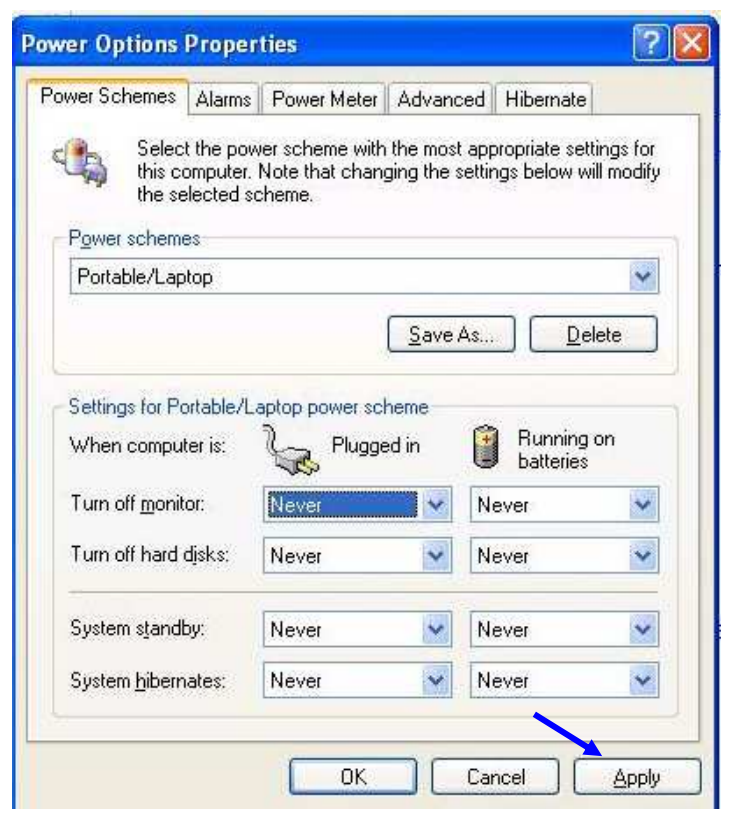


<p>3</p>	<p>Choose “Never” for all the power options.</p>	
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4 Confirm clicking on “Apply”.



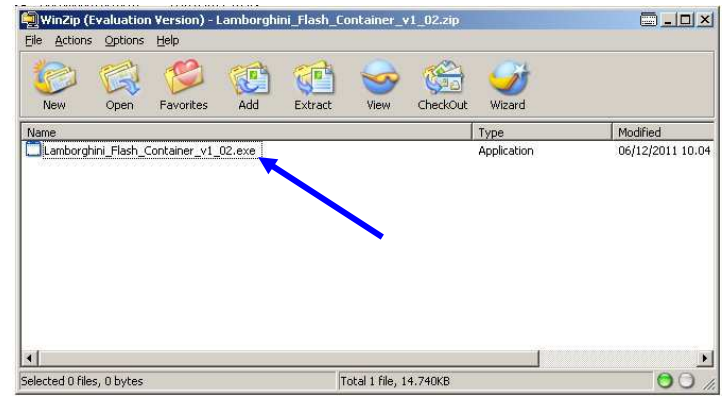
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Lamborghini Flash Container version 1.02 download and installation procedure



NOTE: the installation of the flash container is necessary to perform the instrument cluster ECU software update.

This software only extracts the flash files in the right folder (C:\SIDIS\home\datflash)

1	Connect your Lamborghini Diagnosis Tester to internet and log on the Lamborghini web portal.
2	Open the section Customer Service/Downloads/Diagnosis SW 2012
3	Download the file “Lamborghini_flash_container_v1_02.zip”
4	<p>Double click on the just downloaded zip file and then open the file Lamborghini_Flash_Container_v1_02.exe, as shown in the picture beside.</p> 

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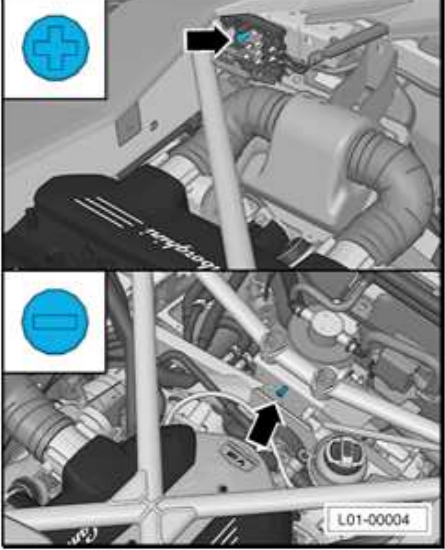

<p>5</p>	<p>Click on “Install” and wait that the installation is completed.</p>	
<p>6</p>	<p>Click on “Finish” to exit.</p>	

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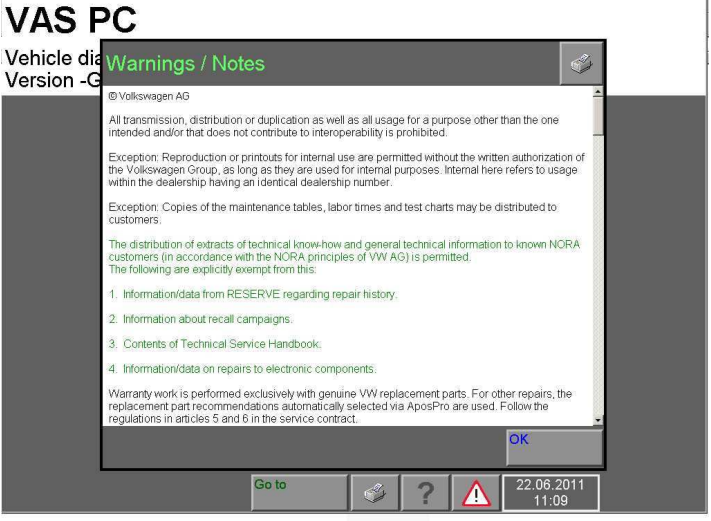
Update procedure:

NOTE: this procedure is valid for both the VAS-PC Lamborghini version: v18.41 and v19.50

<p>1</p>	<p>Please connect a battery charger to the recharge points available in the engine bonnet, as shown in the picture beside.</p>	
<p>2</p>	<p>Please connect the VAS5054 interface to the vehicle's OBD plug and to USB port on the diagnostic laptop.</p> <p>Turn the ignition ON</p>	


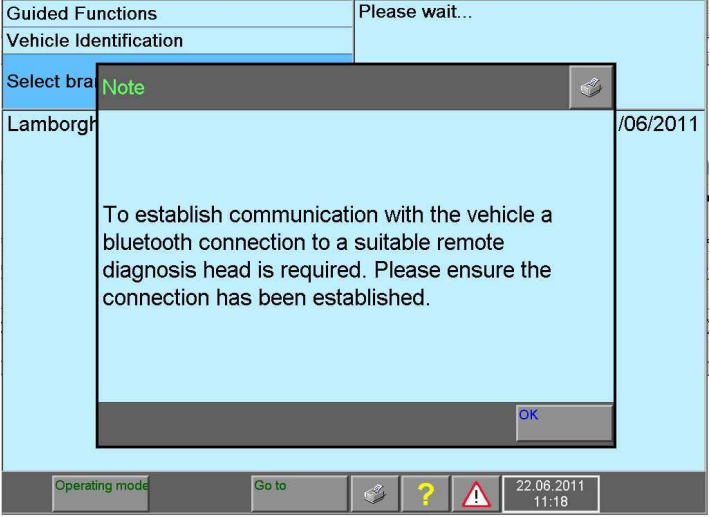
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<p>3</p>	<p>Start the VAS-PC double clicking on the related icon on the desktop</p>	
<p>4</p>	<p>Ignore the message about the base-CD update. Click on “OK”.</p>	
<p>5</p>	<p>Click on “OK” to hide the general information window</p>	


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6	Select "Guided Functions"	<p>VAS PC Vehicle diagnostic, measuring and information system Version -GB- / V18.01.01 12/08/2010</p> 
7	Click on "OK"	


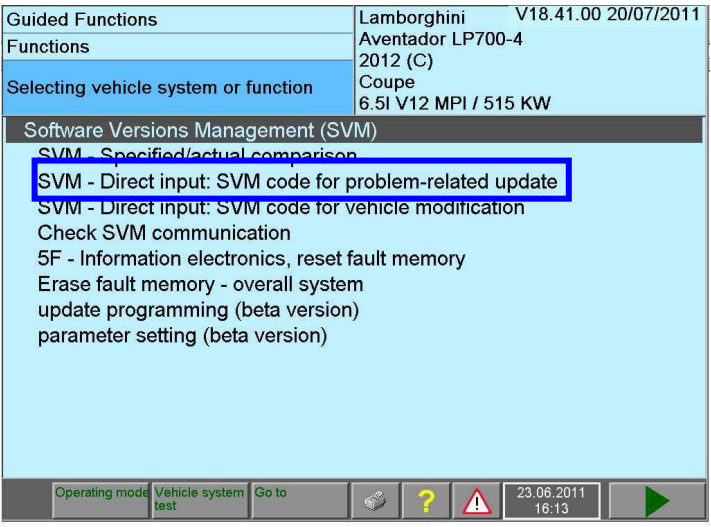

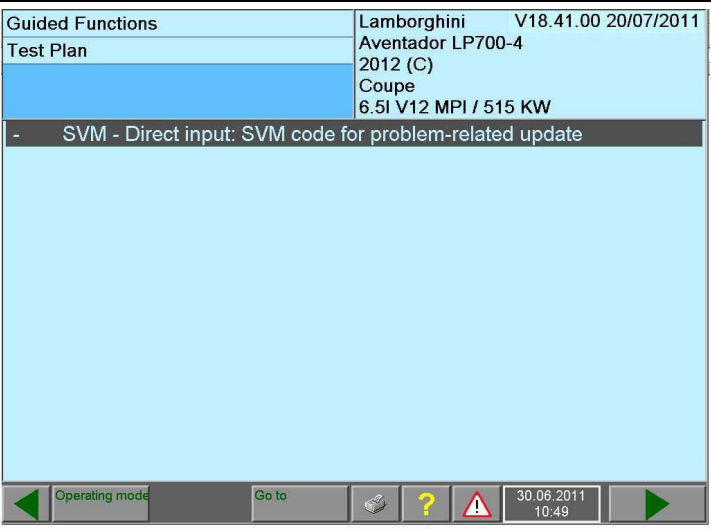
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<p>8 Click on “Lamborghini”</p>		
<p>9 Confirm the vehicle identification data shown on the upper right clicking on </p>		<p>Press "▶" button to confirm that the vehicle identification was performed correctly</p> <p>Press "◀" button to go back step by step.</p> <p>The "Go to" button and the "Cancel" selection lead to the "Select brand" screen.</p> <p>The "Go to" button and the "End" selection lead to the Start screen.</p>
<p>10 Scroll down the ECU list and select “Software Version Management”.</p>		


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<p>11</p>	<p>Select “SVM – Direct input: SVM code for problem related update” and click on  to add the program into the test plan.</p>	 <p>Guided Functions Lamborghini V18.41.00 20/07/2011 Functions Aventador LP700-4 Selecting vehicle system or function 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Software Versions Management (SVM) SVM - Specified/actual comparison SVM - Direct input: SVM code for problem-related update SVM - Direct input: SVM code for vehicle modification Check SVM communication 5F - Information electronics, reset fault memory Erase fault memory - overall system update programming (beta version) parameter setting (beta version)</p> <p>Operating mode Vehicle system Go to ? 23.06.2011 16:13</p>
<p>12</p>	<p>Run the program clicking on .</p>	 <p>Guided Functions Lamborghini V18.41.00 20/07/2011 Test Plan Aventador LP700-4 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>- SVM - Direct input: SVM code for problem-related update</p> <p>Operating mode Go to ? 30.06.2011 10:49</p>

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<p>13 Click on the grey bar to enter the SVM code</p>	
<p>14 Enter the code L834A0212 then click on  to confirm.</p>	

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<p>15</p> <p>Confirm that the inserted code is correct clicking on “Yes”</p>	
<p>16</p> <p>Click on “Done” to start the data acquisition from all the vehicle’s ECUs.</p>	

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<p>17</p>	<p>Wait until the data acquisition from all control modules is completed.</p>	<p>The screenshot shows the 'Reading control module data' step. The main window displays: '1 - reading identification', 'The identification data are read from the following control unit:', '10 - Parallel parking 2', 'Number of control modules read: 8 of 23', and 'Please wait, the VAS 505x will automatically continue'. A progress bar at the bottom shows '0 VT.' to '23 VT.' with a blue bar indicating progress. The top right corner shows 'Lamborghini V18.41.00 20/07/2011', 'Aventador LP700-4 2012 (C)', and 'Coupe 6.5l V12 MPI / 515 KW'. The bottom status bar shows '23.06.2011 16:16'.</p>
<p>18</p>	<p>For the online authentication a valid GeKo account is necessary. <u>Be sure that your internet connection is working properly.</u> Click on “Done” to access the Login window.</p>	<p>The screenshot shows the 'Evaluation of received data' step. The main window displays: 'Online connection setup', 'Next, the identification data readout will be transmitted to the Software Version Management (SVM). For this, the Vehicle Diagnostic Tester requires an online connection.', '- Connect Vehicle Diagnostic Tester with respective hardware to your online network.', and '- Press <Done> button after the online connection has been established. Then enter your User ID (GEKO User) using the screen'. A 'Done' button is visible in the top right of the main window. The top right corner shows 'Lamborghini V18.41.00 20/07/2011', 'Aventador LP700-4 2012 (C)', and 'Coupe 6.5l V12 MPI / 515 KW'. The bottom status bar shows '23.06.2011 16:18'.</p>


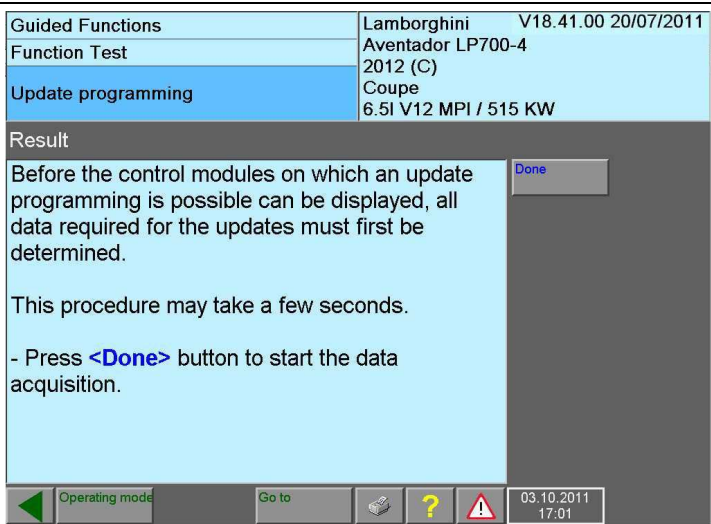
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<p>19</p>	<p>Insert your GeKo user name in the field “Login” and the pin 1324 + current 6 digit code displayed on your GeKo token in the field Password. Then confirm clicking on OK</p>	
<p>20</p>	<p>The communication is then established with the central server. At the end of communication you will receive the feedback as in the picture beside. Click on “Done”.</p>	

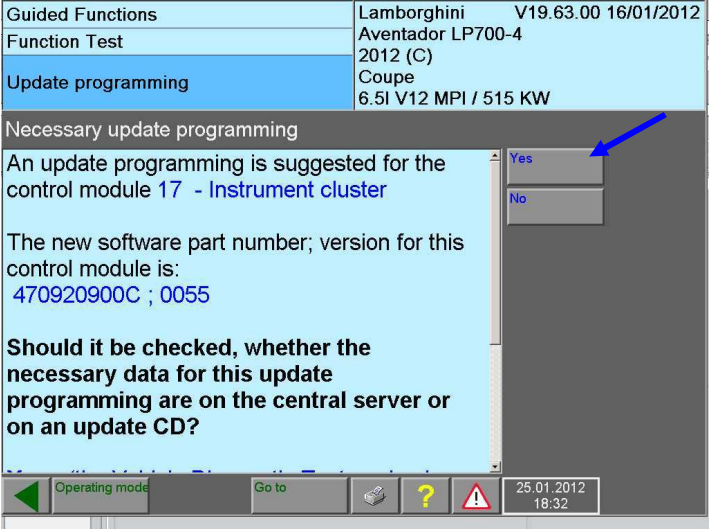
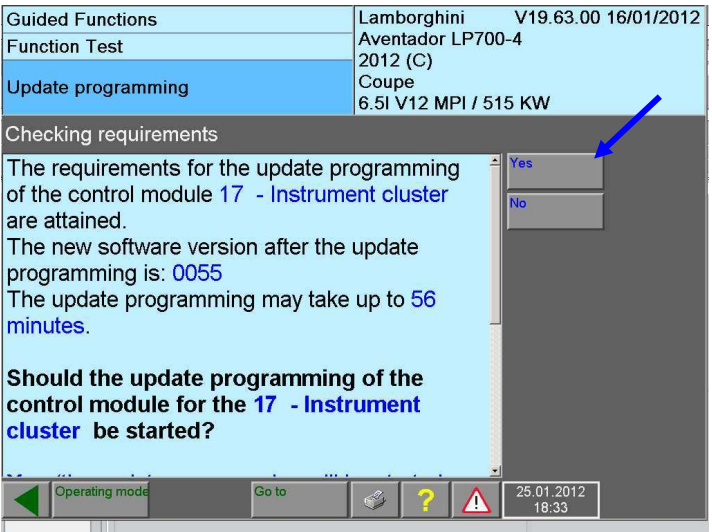
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21	The flash data containers are already saved on the diagnostic laptop. Press “Done”.	
22	Press “Done” to download the necessary data about the flash containers.	

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<p>23</p>	<p>The new instrument cluster ECU software part number and version will be 470920900C; 0055</p> <p>Click on “Yes” to continue.</p>	
<p>24</p>	<p>Click on “Yes” to start the instrument cluster update programming.</p>	

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<p>25</p>	<p>Wait until the update programming of the instrument cluster ECU is completed (estimated time: 35 minutes).</p>	
<p>26</p>	<p>Once the update programming has been completed successfully a feedback as in the picture beside is displayed. Press “Done” to continue.</p> <p>If the update programming has not been completed or has been unsuccessful:</p> <ul style="list-style-type: none"> - turn the ignition OFF - wait 1 minute before turning the ignition ON again - if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step 12 	


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<p>27</p>	<p>In the following an ignition OFF – ON cycle is necessary to re-start the ECU. Press “Done” to continue.</p>	
<p>28</p>	<p>Switch the ignition OFF.</p>	

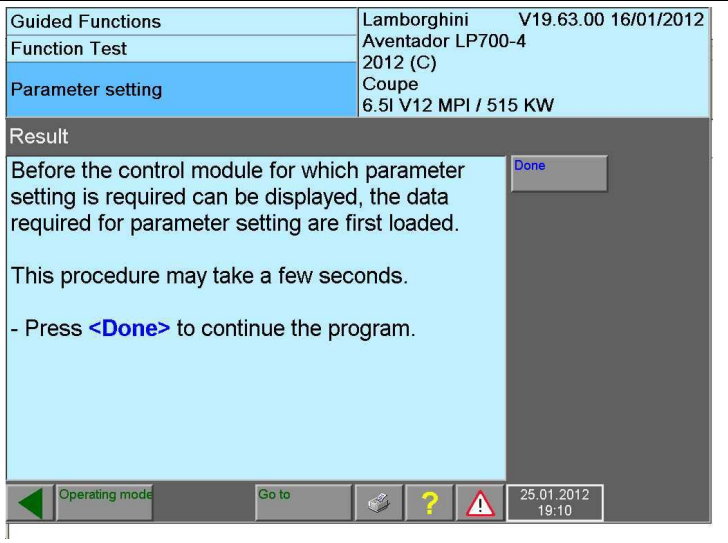
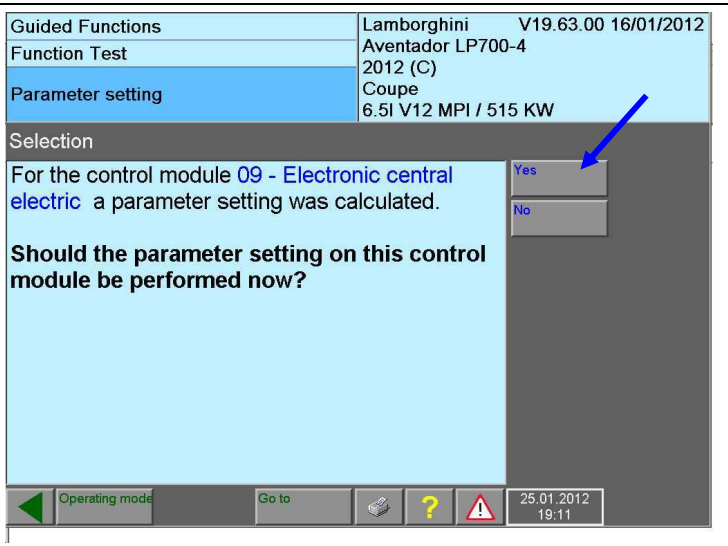
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<p>29</p>	<p><u>Wait 1 minute before switching the ignition ON again.</u></p> <p>Then press on .</p>	<table border="1"> <tr> <td>Guided Functions</td> <td>Lamborghini</td> <td>V18.41.00 20/07/2011</td> </tr> <tr> <td>Function Test</td> <td>Aventador LP700-4</td> <td></td> </tr> <tr> <td>Update programming</td> <td>2012 (C) Coupe</td> <td>6.5l V12 MPI / 515 KW</td> </tr> </table> <p>Terminal 15</p> <p>- Switch ignition on again.</p> <p>The VAS 505x will automatically continue after the ignition is switched on.</p> <p>Note If the VAS 505x does not continue after switching the ignition on, press the ►-button.</p> <p>Operating mode Go to ? ⚠ 03.10.2011 17:14</p>	Guided Functions	Lamborghini	V18.41.00 20/07/2011	Function Test	Aventador LP700-4		Update programming	2012 (C) Coupe	6.5l V12 MPI / 515 KW
Guided Functions	Lamborghini	V18.41.00 20/07/2011									
Function Test	Aventador LP700-4										
Update programming	2012 (C) Coupe	6.5l V12 MPI / 515 KW									
<p>30</p>	<p>An electronic configuration in two steps (parameter setting and calibration) on the central electronics/electronic ECU (BCM1) is also necessary.</p> <p>Click on “Done” to start the parameter setting update.</p>	<table border="1"> <tr> <td>Guided Functions</td> <td>Lamborghini</td> <td>V19.63.00 16/01/2012</td> </tr> <tr> <td>Function Test</td> <td>Aventador LP700-4</td> <td></td> </tr> <tr> <td>Parameter setting</td> <td>2012 (C) Coupe</td> <td>6.5l V12 MPI / 515 KW</td> </tr> </table> <p>Result</p> <p>Result:</p> <p>A parameter setting requiring changing was detected.</p> <p>- You may have to perform a parameter setting on one control module.</p> <p>- Press the Done button to display the control module that requires a parameter setting.</p> <p>Operating mode Go to ? ⚠ 25.01.2012 19:09</p>	Guided Functions	Lamborghini	V19.63.00 16/01/2012	Function Test	Aventador LP700-4		Parameter setting	2012 (C) Coupe	6.5l V12 MPI / 515 KW
Guided Functions	Lamborghini	V19.63.00 16/01/2012									
Function Test	Aventador LP700-4										
Parameter setting	2012 (C) Coupe	6.5l V12 MPI / 515 KW									

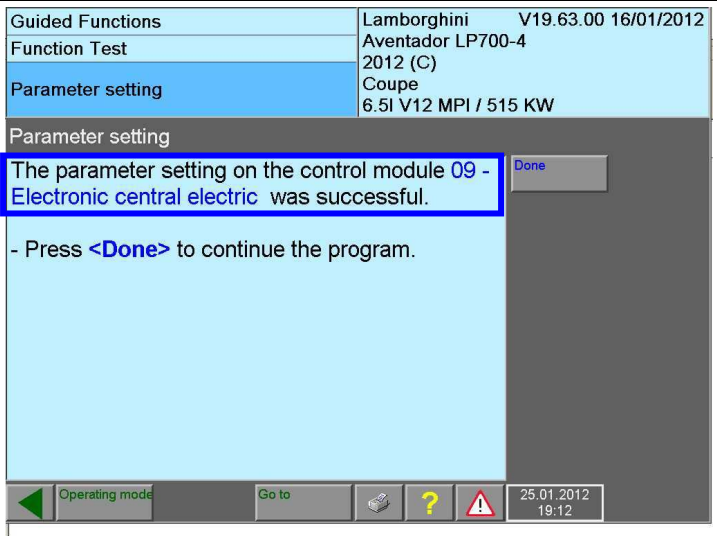
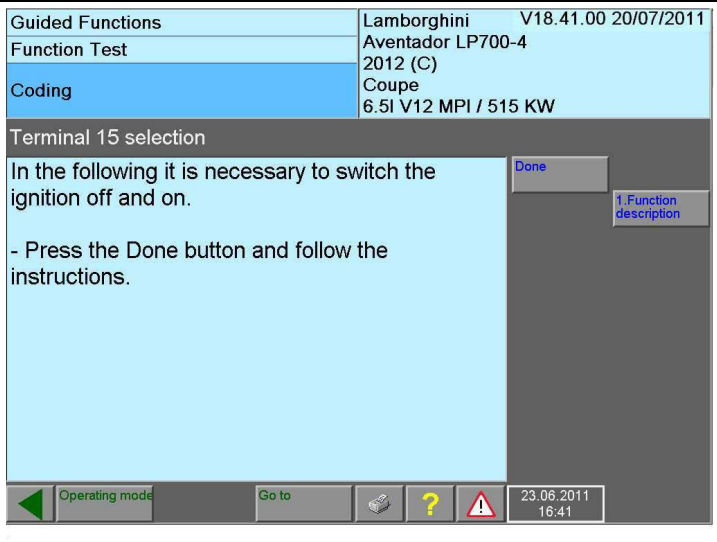
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<p>31 Click on “Done” to download all the necessary data.</p>	
<p>32 Click on “Yes” to start the parameter setting.</p>	


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<p>33</p> <p>Once the parameter setting has been completed successfully a feedback as in the picture beside is displayed. Press “Done” to continue.</p> <p>If the parameter setting has not been completed or has been unsuccessful:</p> <ul style="list-style-type: none"> - turn the ignition OFF - wait 1 minute before turning the ignition ON again - if offered by the program: select “Repeat” to retry the parameter setting, otherwise repeat the procedure from step 12 	 <p>The screenshot shows a diagnostic tool interface with a menu on the left containing 'Guided Functions', 'Function Test', and 'Parameter setting'. The main display area shows a confirmation message: 'The parameter setting on the control module 09 - Electronic central electric was successful.' with a 'Done' button. Below the message, it says '- Press <Done> to continue the program.' The bottom status bar shows 'Operating mode', 'Go to', a printer icon, a question mark icon, a warning icon, and the date/time '25.01.2012 19:12'.</p>
<p>34</p> <p>In the following an ignition OFF – ON cycle is necessary to restart the ECU. Press “Done” to continue.</p>	 <p>The screenshot shows the same diagnostic tool interface. The menu on the left now includes 'Coding'. The main display area shows instructions: 'In the following it is necessary to switch the ignition off and on.' with a 'Done' button. Below, it says '- Press the Done button and follow the instructions.' The bottom status bar shows the date/time '23.06.2011 16:41'.</p>

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<p>35 Switch the ignition OFF</p>		<p>Guided Functions Lamborghini V18.41.00 20/07/2011 Function Test Aventador LP700-4 Update programming 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Terminal 15</p> <p>All suggested update programming have been worked off. It is necessary to switch the ignition off and on.</p> <p>- Switch ignition off.</p> <p>The VAS 505x continues automatically after the ignition is switched off.</p> <p>Note If the VAS 505x does not continue after switching the ignition off, press the ►-button.</p> <p>Operating mode Go to 03.10.2011 17:13</p>
<p>36</p>	<p><u>Wait 1 minute before switching the ignition ON again.</u></p> <p>Then press on </p>	<p>Guided Functions Lamborghini V18.41.00 20/07/2011 Function Test Aventador LP700-4 Update programming 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Terminal 15</p> <p>- Switch ignition on again.</p> <p>The VAS 505x will automatically continue after the ignition is switched on.</p> <p>Note If the VAS 505x does not continue after switching the ignition on, press the ►-button.</p> <p>Operating mode Go to 03.10.2011 17:14</p>

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<p>37</p> <p>Click on “Done” to execute the second step (calibration) of the configuration.</p>	
<p>38</p> <p>Click on “Done” to download all the necessary data.</p>	

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<p>39</p> <p>The first calibration channel is written automatically. Press “Done” to continue with the calibration no.2</p> <p>NOTE: if the message “calibration not successful” is received, select the option no.1 to retry.</p>	
<p>40</p> <p>Press “Done” to continue with the calibration no.3</p> <p>NOTE: if the message “calibration not successful” is received, select the option no.1 to retry.</p>	

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<p>41</p> <p>Press “Done” to continue with the calibration no.4</p> <p>NOTE: if the message “calibration not successful” is received, select the option no.1 to retry.</p>	
<p>42</p> <p>Press “Done” to continue with the calibration no.5</p> <p>NOTE: if the message “calibration not successful” is received, select the option no.1 to retry.</p>	

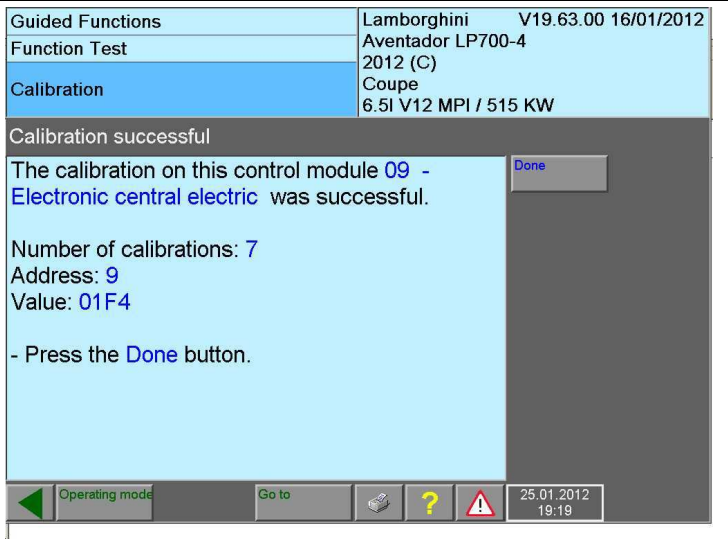
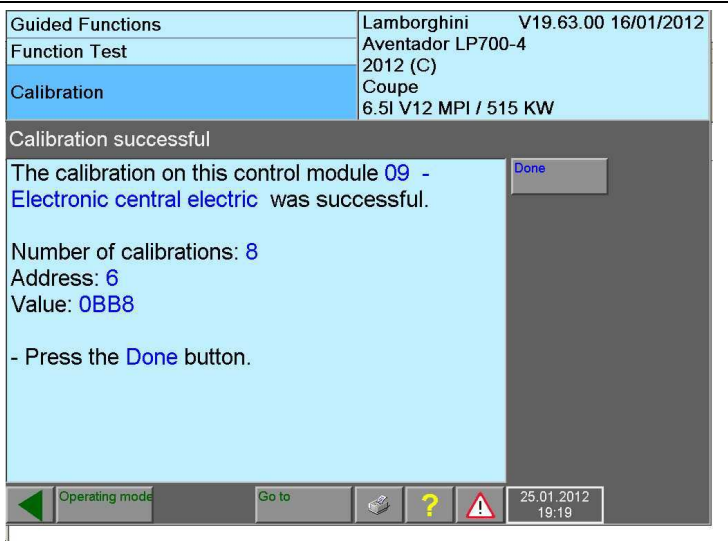
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<p>43</p> <p>Press “Done” to continue with the calibration no.6</p> <p>NOTE: if the message “calibration not successful” is received, select the option no.1 to retry.</p>	
<p>44</p> <p>Press “Done” to continue with the calibration no.7</p> <p>NOTE: if the message “calibration not successful” is received, select the option no.1 to retry.</p>	

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<p>45</p> <p>Press “Done” to continue with the calibration no.8</p> <p>NOTE: if the message “calibration not successful” is received, select the option no.1 to retry.</p>	
<p>46</p> <p>Press “Done” to continue with the calibration no.9</p> <p>NOTE: if the message “calibration not successful” is received, select the option no.1 to retry.</p>	

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<p>47</p>	<p>Press “Done” to continue.</p> <p>NOTE: if the message “calibration not successful” is received, select the option no.1 to retry.</p>	
<p>48</p>	<p>Press “Done”.</p>	

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<p>49 Press “Done” to start the data report.</p>		
<p>50 Wait until the data acquisition from all the control modules is completed.</p>		


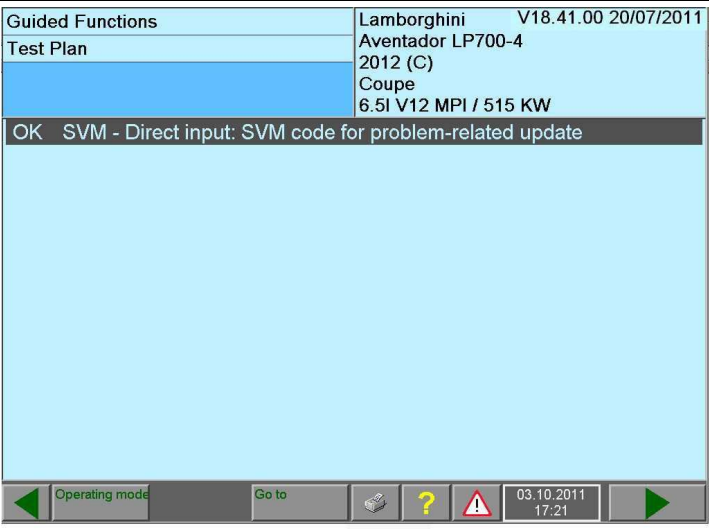
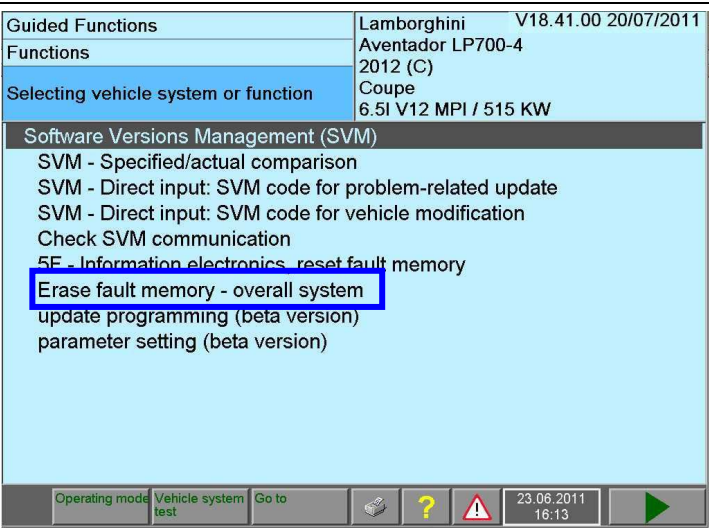
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<p>51</p>	<p>Once the data report has been sent to the servers a feedback as in the picture beside is displayed. The software update has been completed successfully and all the information have been stored in the system. Press on “Done”.</p>	<p>The screenshot shows a diagnostic menu with 'Evaluation of received data' selected. The main display area contains the following text: 'Notification code evaluation', 'Vehicle conversion/update has been successfully performed. The changes have been stored in the system.', and 'Thank you.'. A 'Done' button is visible in the top right corner. The bottom status bar shows 'Operating mode', 'Go to', a printer icon, a help icon, a warning icon, and the date/time '03.10.2011 17:19'.</p>
<p>52</p>	<p>Press on “Done” to exit the program.</p>	<p>The screenshot shows a diagnostic menu with 'Software Version Management (SVM)' selected. The main display area contains the following text: 'Action evaluation', 'The program for Software Version Management (SVM) was performed.', and 'All necessary actions on the vehicle need to be completed before proceeding.'. A 'Done' button is visible in the top right corner. The bottom status bar shows 'Operating mode', 'Go to', a printer icon, a help icon, a warning icon, and the date/time '03.10.2011 17:20'.</p>

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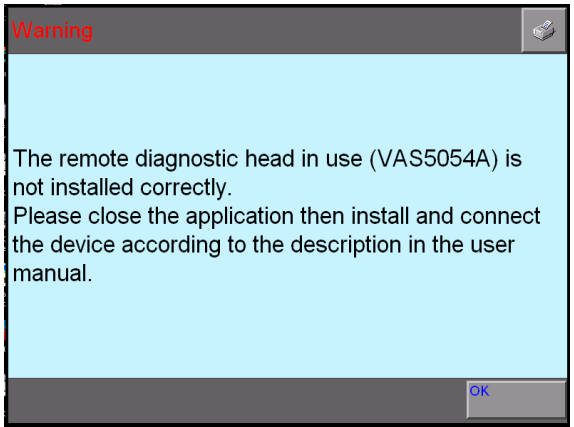
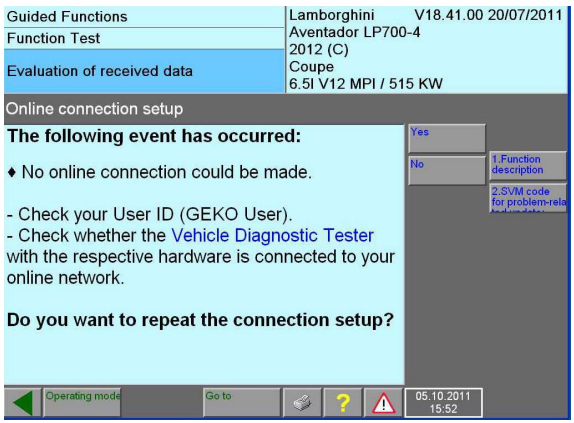
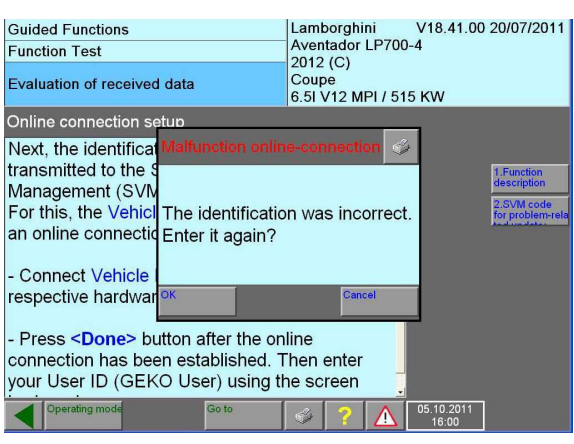


<p>53</p>	<p>Go back to the Software Version Management menu clicking on .</p>	
<p>54</p>	<p>Select and run the program “Erase fault memory – overall systems” to clear all the faults stored because of the software update.</p>	

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Troubleshooting

<p>A.</p>	<p>If the error message regarding the VAS5054 interface is shown as in the picture beside:</p> <ul style="list-style-type: none"> - close the VAS-PC and repeat the VAS5054 installation as described in the chapter 10.92.00 	
<p>B.</p>	<p>If the connection error screen is shown as in the picture beside:</p> <ul style="list-style-type: none"> - it is not possible to establish a connection with the central server. Please check carefully that the diagnosis laptop is properly connected to the internet network. 	
<p>C.</p>	<p>If the incorrect identification message is shown as in the picture beside</p> <ul style="list-style-type: none"> - be sure that your Geko account is valid. - be sure that the label “Geko” is written on the token that you are using for the authentication. - click on Cancel and perform the application test as described in the chapter 10.92.00. 	

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Your Area Manager is at full disposal for further information.

Best regards

Customer Service

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