



To All Lamborghini Dealers and Licensed Service Point .
From Customer Service Department.
Subject Engine And Gearbox Software Upgrade.
Group 10.02.00
Date 28/09/12
Pages 65

Subject

Engine and gearbox software upgrade.

Model

Lamborghini Aventador LP-700 My 2012 from Vin CLA00091 to CLA01160

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 during the ~~cold~~ engine start-up the cam phase variators might sound noisy.

Field solution

Upgrade the engine and related gearbox software.

Warranty Claim data

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

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Campaign Code: L834-A.07.12
Campaign Description: Engine And Gearbox SW Upgrade
Cost Code: 50
Component Code: CCA0712
Trouble Code: 220
Labour Code: CCA0712100
Labour Time: 1 h

Fill out the Service and Recall Campaign section in the warranty booklet, which is shown in the figure 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

Service/Service Service/Service Servicio	<input type="checkbox"/>	Richiamo/Rückruf Recall/Rappel Llamada a Taller	<input type="checkbox"/>
Numero/Nummer Number/Numéro Número	<input type="text"/>		
Data/Datum/Date/Date/Fecha	<input type="text"/>		
Data riparazione/Reparaturdatum Repair Data/Date de réparation Fecha reparación	<input type="text"/>		
Eseguito dal Concessionario / Ausgeführt von der Vertragswerkstatt / Done by the Dealer Efectuado por el concesionario / Efectuado por el Concesionario			
Firma / Unterschrift / Signature / Signature / Firma			

Service/Service Service/Service Servicio	<input type="checkbox"/>	Richiamo/Rückruf Recall/Rappel Llamada a Taller	<input type="checkbox"/>
Numero/Nummer Number/Numéro Número	<input type="text"/>		
Data/Datum/Date/Date/Fecha	<input type="text"/>		
Data riparazione/Reparaturdatum Repair Data/Date de réparation Fecha reparación	<input type="text"/>		
Eseguito dal Concessionario / Ausgeführt von der Vertragswerkstatt / Done by the Dealer Efectuado por el concesionario / Efectuado por el Concesionario			
Firma / Unterschrift / Signature / Signature / Firma			

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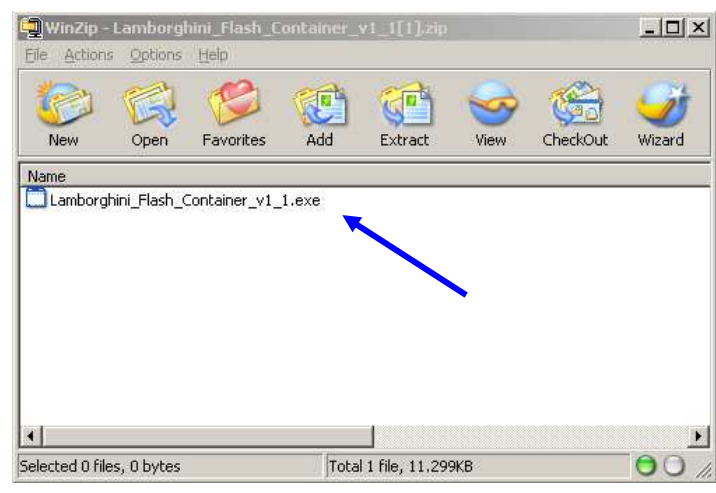


Workshop instructions

NOTE: the instructions contained in this bulletin are based on version 19.52 of VAS-PC Lamborghini MY12 (see information bulletin BI.05.12).

Preliminary operations:

Lamborghini Flash Container version 1.1 download and installation procedure

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_1.zip”
4	<p>Double click on the just downloaded zip file and then open the file Lamborghini_Flash_Container_v1_1.exe, as shown in the picture beside.</p> 

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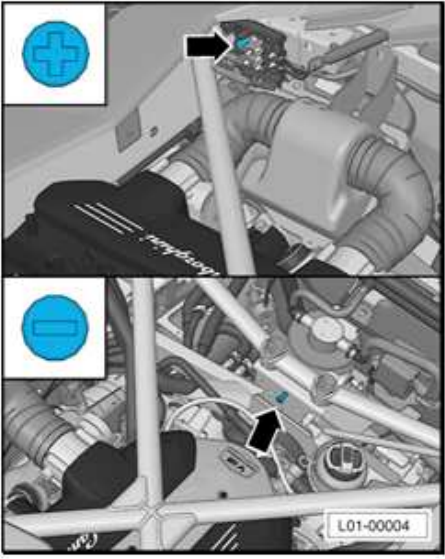



<p>5</p>	<p>Click on “Install” and wait that the installation is completed.</p>	
<p>6</p>	<p>Click on “Finish” to exit.</p>	

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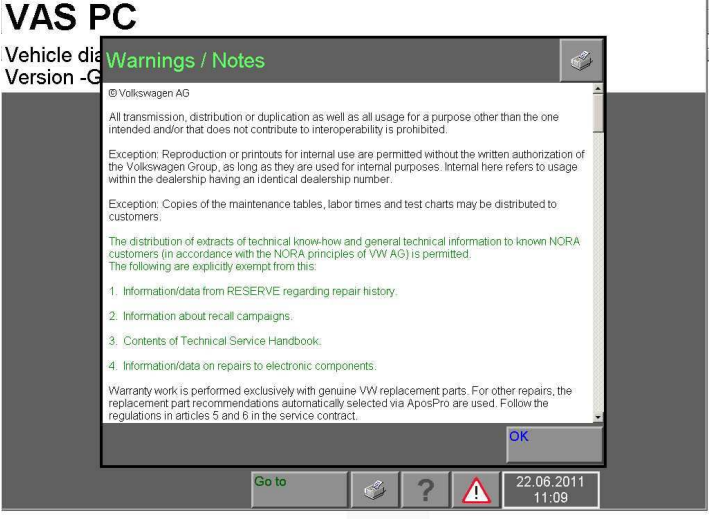


Update procedure:

<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 the diagnostic laptop.</p> <p>Turn the ignition ON</p>	


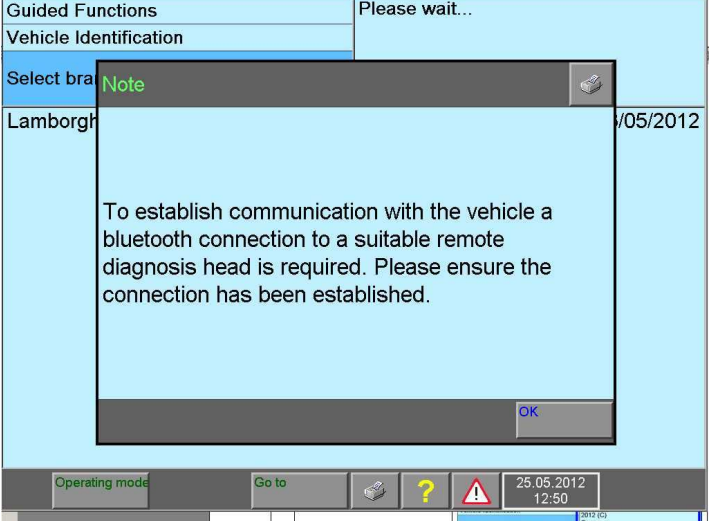
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<p>3</p>	<p>Start the VAS-PC double clicking on the related icon on the desktop</p>	
<p>4</p>	<p>Ignore the update message and click on OK.</p>	
<p>5</p>	<p>Click on “OK” to hide the general information window</p>	


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6	Select "Guided Functions"	<p>VAS PC Vehicle diagnostic, measuring and information system Version -GB- / V19.01.00 14/09/2011</p> 
7	Click on "OK"	

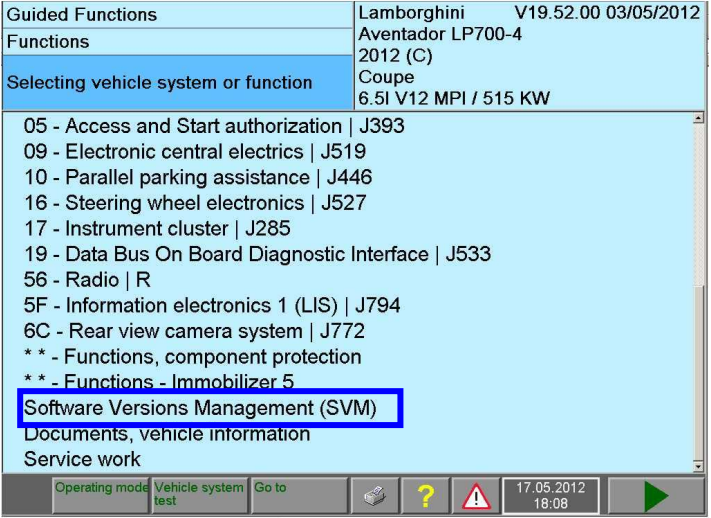

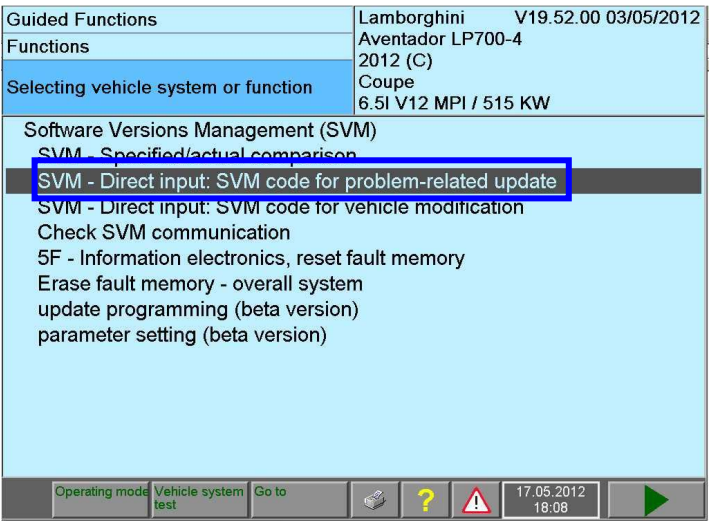
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<p>8 Click on “Lamborghini”</p>	
<p>9 Confirm the vehicle identification data shown on the upper right clicking on </p>	<p>Press "▶" button to confirm that the vehicle identification was performed correctly</p> <p>Press "◀" button to go back step by 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>


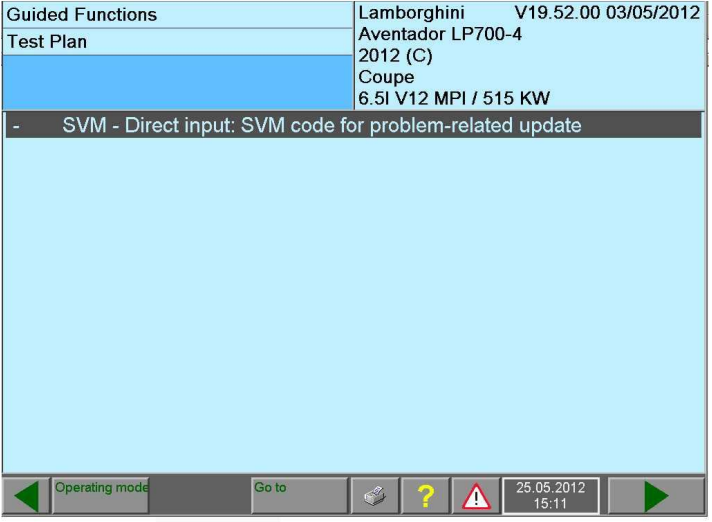
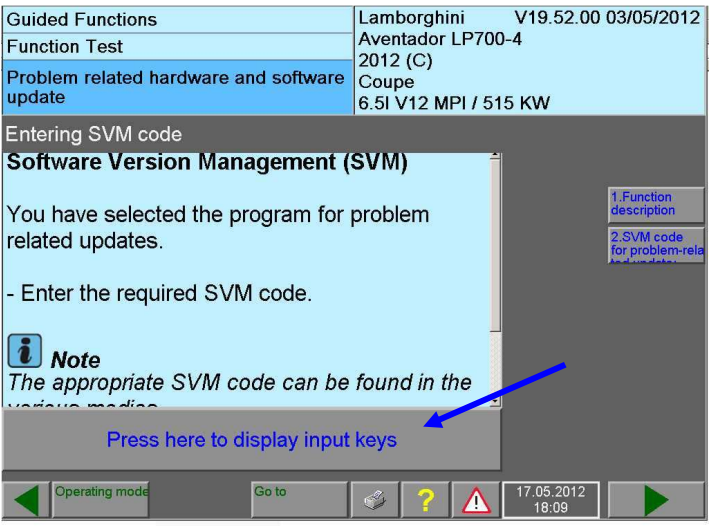
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<p>10</p>	<p>Scroll down the ECU list and select “Software Version Management”</p>	
<p>11</p>	<p>Select “SVM – Direct input: SVM code for problem related update” and click on  to add the program into the test plan.</p>	


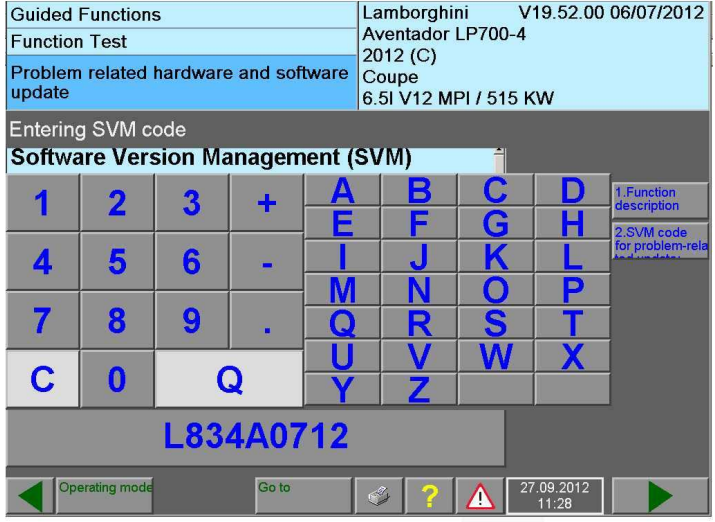
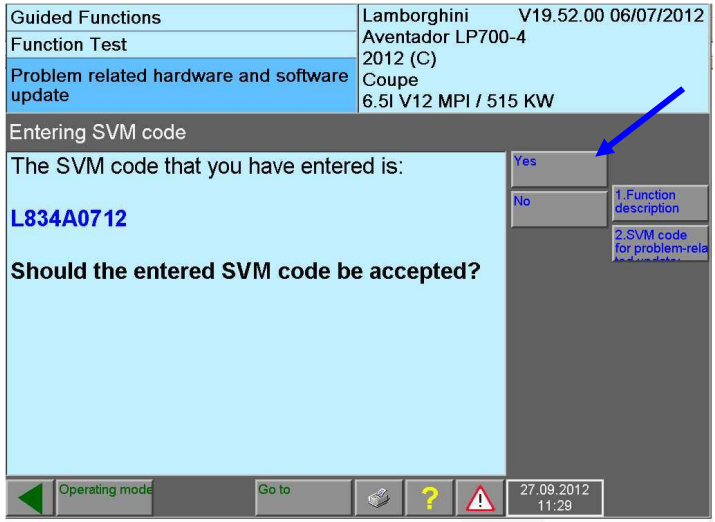
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<p>12</p>	<p>Run the program clicking on </p>	 <p>The screenshot shows a diagnostic tool interface with a light blue background. At the top, there is a header with 'Guided Functions' and 'Test Plan'. Below this, there is a table with the following information: 'Lamborghini V19.52.00 03/05/2012', 'Aventador LP700-4', '2012 (C)', 'Coupe', and '6.5l V12 MPI / 515 KW'. A grey bar at the bottom of the main content area contains the text '- SVM - Direct input: SVM code for problem-related update'. At the bottom of the screen, there is a navigation bar with buttons for 'Operating mode', 'Go to', a printer icon, a help icon, a warning icon, the date and time '25.05.2012 15:11', and a right arrow.</p>
<p>13</p>	<p>Click on the grey bar to enter the SVM code</p>	 <p>The screenshot shows the same diagnostic tool interface as in step 12, but with a different menu item selected: 'Problem related hardware and software update'. Below this, there is a section titled 'Entering SVM code' and 'Software Version Management (SVM)'. The text reads: 'You have selected the program for problem related updates. - Enter the required SVM code.' Below this is a note with an information icon: 'Note The appropriate SVM code can be found in the various media'. At the bottom of this section, there is a link that says 'Press here to display input keys' with a blue arrow pointing to it. At the bottom of the screen, the navigation bar shows the date and time '17.05.2012 18:09'.</p>

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<p>14</p>	<p>Enter the code L834A0712 then click on  to confirm</p>	
<p>15</p>	<p>Confirm that the inserted code is correct clicking on “Yes”</p>	

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<p>16</p>	<p>Click on “Done” to start the data acquisition from all the vehicle’s ECUs</p>	
<p>17</p>	<p>Wait until the data acquisition from all control modules is completed.</p>	

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<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 a diagnostic tool interface with the following sections:</p> <ul style="list-style-type: none"> Guided Functions: Lamborghini V19.52.00 03/05/2012 Function Test: Aventador LP700-4 2012 (C) Evaluation of received data: Coupe 6.5l V12 MPI / 515 KW Online connection setup: A text box explains that identification data will be transmitted to the Software Version Management (SVM) and that an online connection is required. It lists instructions: <ul style="list-style-type: none"> - Connect Vehicle Diagnostic Tester with respective hardware to your online network. - Press <Done> button after the online connection has been established. Then enter your User ID (GEKO User) using the screen Buttons: A 'Done' button is visible in the top right of the text box. Below the text box are buttons for '1. Function description' and '2. SVM code for problem-related data'. Bottom Bar: Includes 'Operating mode', 'Go to', a printer icon, a help icon (?), a warning icon (!), and a timestamp '17.05.2012 18:15'.
<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>The screenshot shows a login screen with the following elements:</p> <ul style="list-style-type: none"> Title: Login Fields: 'Enter Login' and 'Password' fields, both containing masked input. Keypad: A numeric keypad (0-9) and an alphanumeric keypad (A-Z, C, U, V, W, X, Y, Z, _, ., Q). Buttons: 'Cancel' and 'OK' buttons at the bottom. Bottom Bar: Includes 'Operating mode', 'Go to', a printer icon, a help icon (?), a warning icon (!), and a timestamp '23.06.2011 16:20'.

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The communication is then established with the central server.
At the end of communication you can receive 2 possible feedback:

- update programming must be performed on one control module (1)

20 or

- update programming must be performed on 2 control modules (2)

If the message (1) is shown, continue the procedure with the following instruction,

while

if the message (2) is shown, go to step 59 in order to continue the procedure.

Click on “Done”

Guided Functions	Lamborghini	V19.52.00 06/07/2012
Function Test	Aventador LP700-4	
Update programming	2012 (C)	
	Coupe	
	6.5l V12 MPI / 515 KW	

Result

Result: Done

Software to be updated has been detected.

- It is possible that update programming must be performed on one control module.

- Press the <Done> button to display the control module that requires a change or a test.

1

1. Function description
2. SVM code for problem-related updates

Operating mode Go to ? ! 27.09.2012 11:34

Guided Functions	Lamborghini	V19.52.00 03/05/2012
Function Test	Aventador LP700-4	
Update programming	2012 (C)	
	Coupe	
	6.5l V12 MPI / 515 KW	

Result

Result: Done

Software to be updated has been detected.

- It is possible that update programming must be performed on 2 control modules.

- Press the <Done> button to display the control modules that require a change or test.

2

1. Function description
2. SVM code for problem-related updates

Operating mode Go to ? ! 17.05.2012 18:15

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

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<p>23</p>	<p>Depending on the market and according to car's equipment, new engine software part number and version will be 470909049A; U121 or 470909049; V121 or 470909049B; Z121 or 470909049M; Y121 or 470909049J; W121</p> <p>Click on "Yes"</p>	
<p>24</p>	<p>Click on "Yes" in order to start the update programming of Engine ECU.</p>	

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<p>25</p>	<p>Wait until the update programming of the engine ECU is completed</p>	<p>The screenshot shows the VAS-PC interface with a menu on the left containing 'Guided Functions', 'Function Test', and 'Update programming'. The right pane displays vehicle information: 'Lamborghini V19.52.00 03/05/2012', 'Aventador LP700-4 2012 (C)', 'Coupe', and '6.5l V12 MPI / 515 KW'. A large light blue box in the center contains the text 'Job will be performed...'. At the bottom, a progress bar shows 16% completion, with a timestamp of '03.10.2011 17:04'.</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 start the update programming of the gearbox ECU.</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 11 	<p>The screenshot shows the VAS-PC interface with the same menu and vehicle information as the previous step. The main display area shows a message: '1 - Update programming - 01' followed by 'The update programming on control module 01 - Engine electronics was successful.' A 'Done' button is visible. Below the message, it says '- Press <Done> to continue the program.' On the right side, there are two buttons: '1. Function description' and '2. SVM code for problem-rela'. At the bottom, the status bar shows 'Operating mode', 'Go to', and a timestamp of '17.05.2012 18:27'.</p>


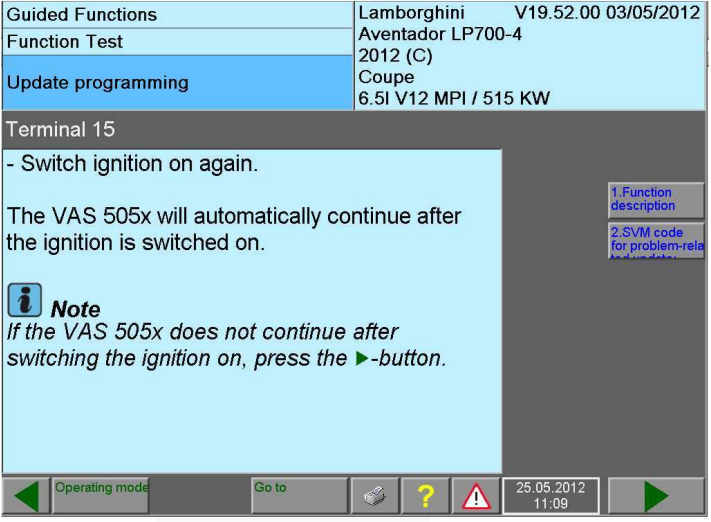
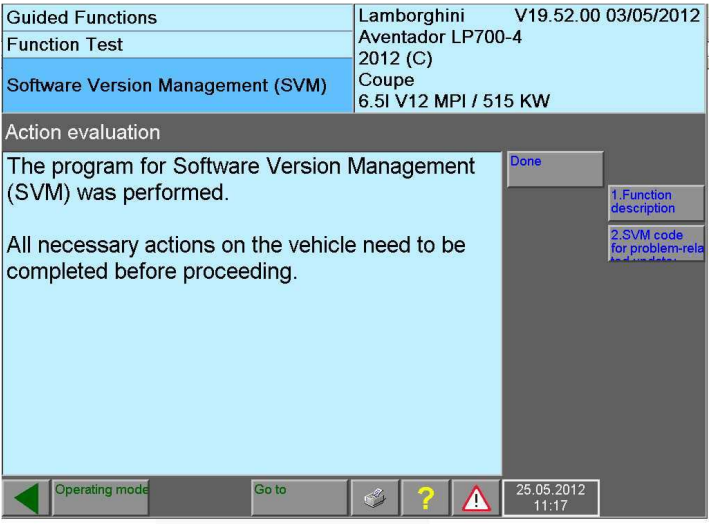
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<p>27</p>	<p>In the following an ignition OFF – ON cycle is necessary to restart both the ECU. Press “Done” to continue.</p>	
<p>28</p>	<p>Switch the ignition OFF.</p>	

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<p>29</p>	<p><u>Wait 1 minute before switching the ignition back ON again.</u></p> <p>Then press on </p>	 <p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Update programming 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Terminal 15 - 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 25.05.2012 11:09</p>
<p>30</p>	<p>Press “Done”</p>	 <p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Software Version Management (SVM) 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Action evaluation The program for Software Version Management (SVM) was performed.</p> <p>All necessary actions on the vehicle need to be completed before proceeding.</p> <p>Operating mode Go to 25.05.2012 11:17</p>

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<p>31</p>	<p>Press “Done” to start the data report</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Software Version Management (SVM) 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Documenting actual status</p> <p>The following feedback is sent to the Software Version Management (SVM) to document changes in the vehicle.</p> <p>Note <i>If one of the changes listed below is made after the automatic feedback report, the relevant program for Software Version Management (SVM) must be restarted, with the associated SVM code, to report back the new hardware and software versions as well as codes and parameter settings to Software Version</i></p> <p>Operating mode Go to 25.05.2012 11:22</p>
<p>32</p>	<p>Wait until the data acquisition from all the control modules is completed</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Reading control module data 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>1 - reading identification</p> <p>The identification data are read from the following control unit:</p> <p>15 - Airbag</p> <p>Number of control modules read: 10 of 23</p> <p>Please wait, the VAS 505x will automatically continue</p> <p>0 VT. 11 23 VT.</p> <p>Operating mode Go to 25.05.2012 11:23</p>


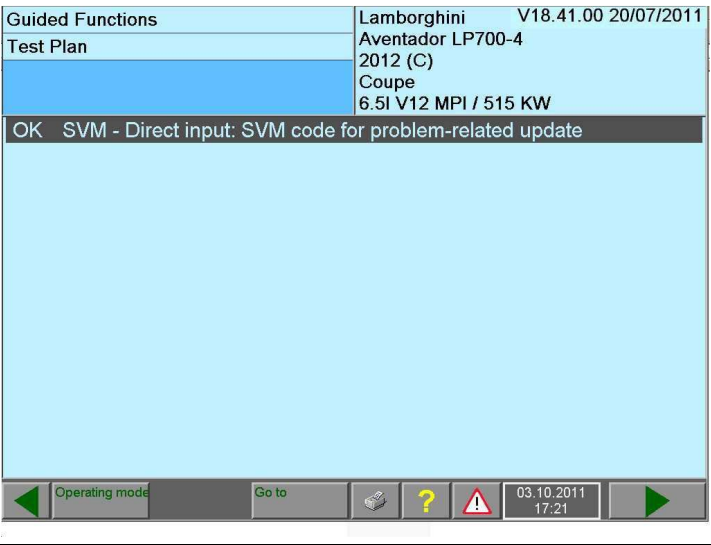
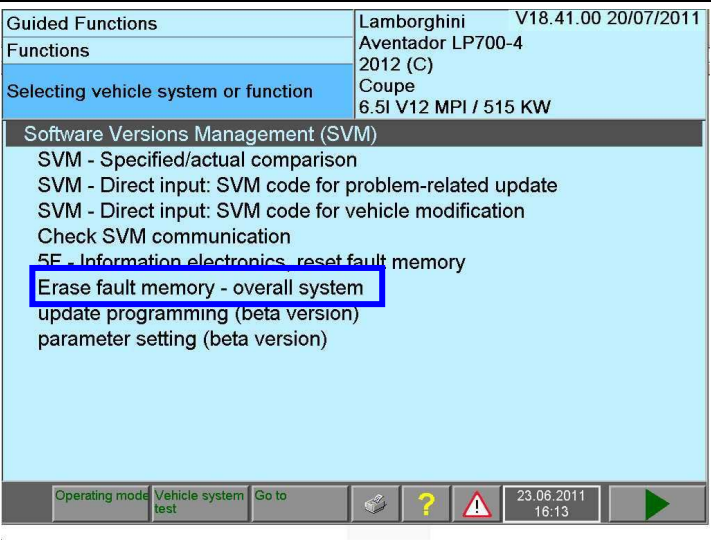
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<p>33</p>	<p>Once the data report has been sent to the servers a feedback as in the picture beside is displayed. The software update of engine and gearbox ECU has been completed successfully and all the information have been stored in the system. Press on “Done”</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Evaluation of received data 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Notification code evaluation</p> <p>Vehicle conversion/update has been successfully performed. The changes have been stored in the system.</p> <p>Thank you.</p> <p>Operating mode Go to 25.05.2012 11:25</p>
<p>34</p>	<p>Press on “Done” to exit the program</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Software Version Management (SVM) 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Action evaluation</p> <p>The program for Software Version Management (SVM) was performed.</p> <p>All necessary actions on the vehicle need to be completed before proceeding.</p> <p>Operating mode Go to 25.05.2012 11:17</p>

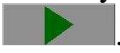
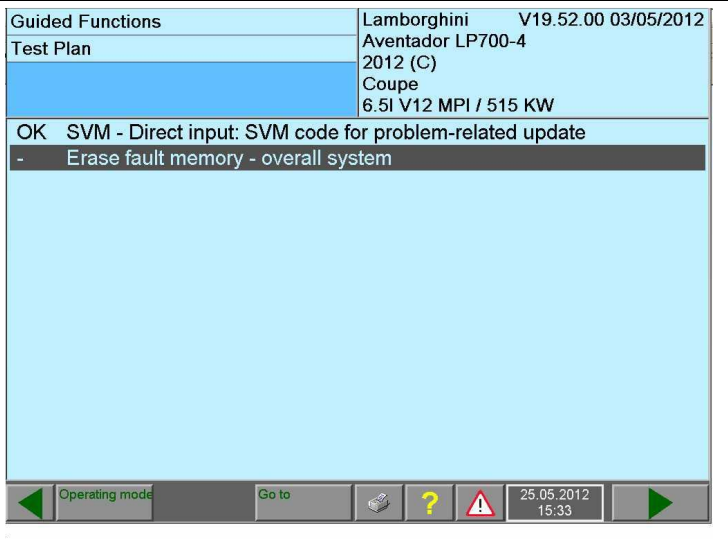
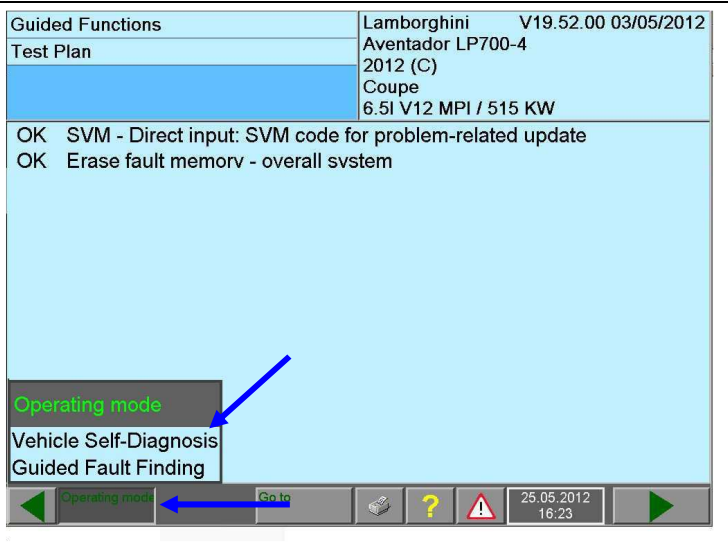
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<p>35</p>	<p>Go back to the Software Version Management menu clicking on </p>	 <p>Guided Functions Lamborghini V18.41.00 20/07/2011 Test Plan Aventador LP700-4 2012 (C) Coupe 6.5l V12 MPI / 515 KW OK SVM - Direct input: SVM code for problem-related update</p> <p>Operating mode Go to ? ! 03.10.2011 17:21</p>
<p>36</p>	<p>Select and run the program “Erase fault memory – overall systems” to clear all the faults stored because of the software update.</p>	 <p>Guided Functions Lamborghini V18.41.00 20/07/2011 Functions Aventador LP700-4 2012 (C) Selecting vehicle system or function Coupe 6.5l V12 MPI / 515 KW 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 5E - Information electronics - reset fault memory Erase fault memory - overall system update programming (beta version) parameter setting (beta version)</p> <p>Operating mode Vehicle system test Go to ? ! 23.06.2011 16:13</p>

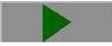
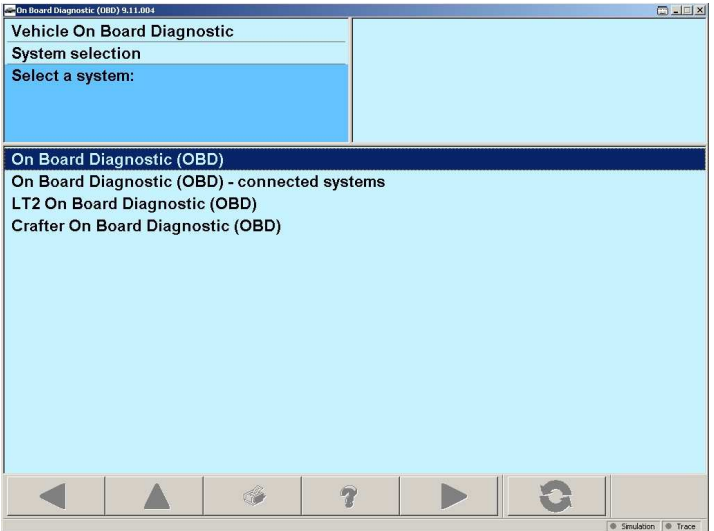

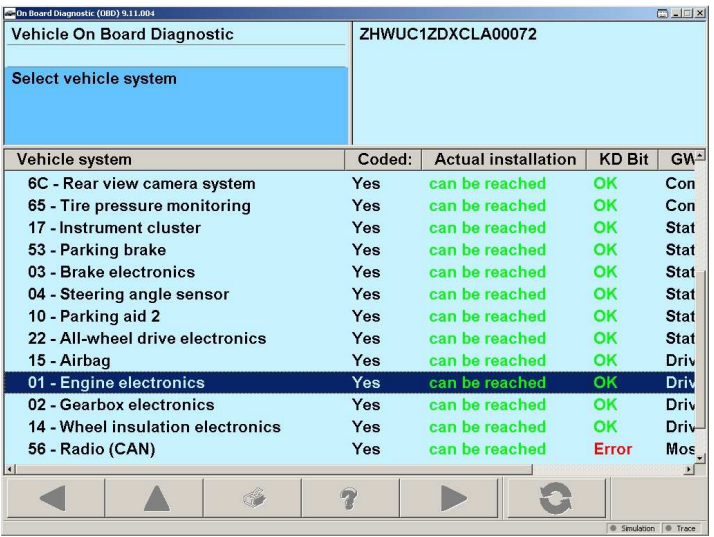
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<p>37</p> <p>Execute the program “Erase fault memory – overall system” clicking on .</p>	 <p>The screenshot shows a diagnostic software interface. At the top, it displays 'Guided Functions' and 'Test Plan' for a Lamborghini Aventador LP700-4. The main area shows a list of functions, with 'Erase fault memory - overall system' highlighted in a dark grey bar. The bottom status bar shows 'Operating mode', 'Go to', and a date/time of 25.05.2012 15:33.</p>
<p>38</p> <p>Select “Operating Mode” and then click on “Vehicle Self-Diagnosis”</p>	 <p>The screenshot shows the same diagnostic software interface. A menu is open over the 'Operating mode' option, with 'Vehicle Self-Diagnosis' selected. A blue arrow points to the 'Vehicle Self-Diagnosis' option. The bottom status bar shows the date/time as 25.05.2012 16:23.</p>


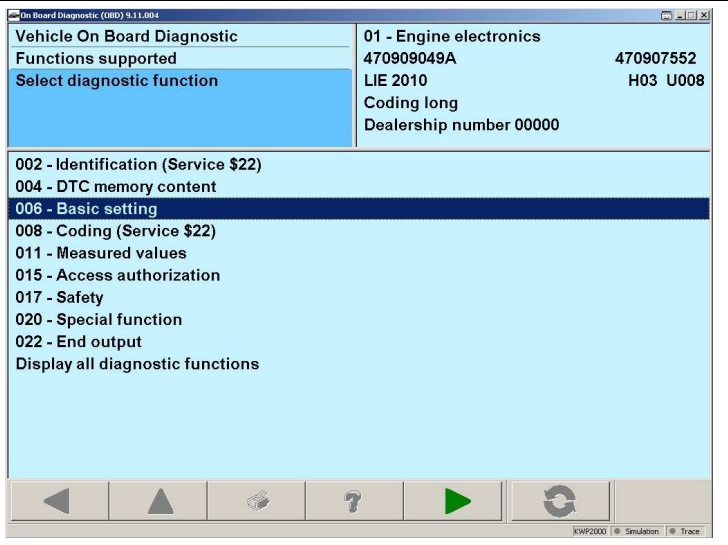
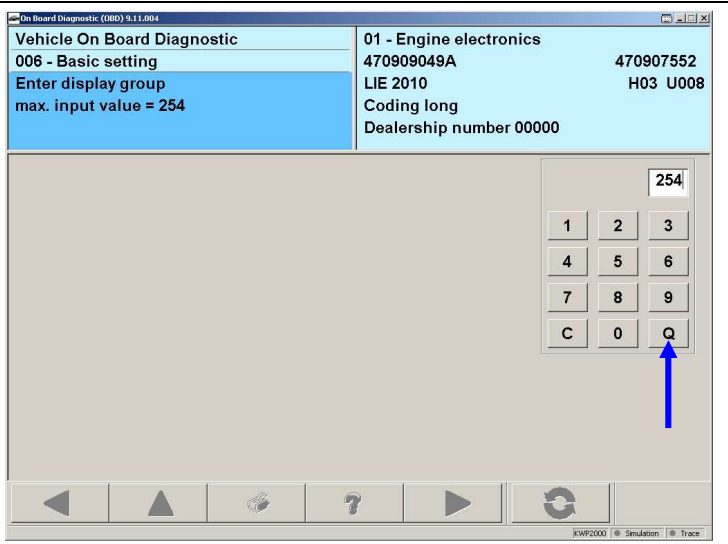
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<p>39</p>	<p>Select “On Board Diagnostic (OBD)” and then click on </p>																																																																							
<p>40</p>	<p>Scroll down the ECU list, select “01 – Engine electronics” and then confirm clicking on </p>	 <table border="1"> <thead> <tr> <th>Vehicle system</th> <th>Coded:</th> <th>Actual installation</th> <th>KD Bit</th> <th>GW²</th> </tr> </thead> <tbody> <tr> <td>6C - Rear view camera system</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Con</td> </tr> <tr> <td>65 - Tire pressure monitoring</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Con</td> </tr> <tr> <td>17 - Instrument cluster</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>53 - Parking brake</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>03 - Brake electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>04 - Steering angle sensor</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>10 - Parking aid 2</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>22 - All-wheel drive electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>15 - Airbag</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Driv</td> </tr> <tr> <td>01 - Engine electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Driv</td> </tr> <tr> <td>02 - Gearbox electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Driv</td> </tr> <tr> <td>14 - Wheel insulation electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Driv</td> </tr> <tr> <td>56 - Radio (CAN)</td> <td>Yes</td> <td>can be reached</td> <td>Error</td> <td>Mos</td> </tr> </tbody> </table>	Vehicle system	Coded:	Actual installation	KD Bit	GW ²	6C - Rear view camera system	Yes	can be reached	OK	Con	65 - Tire pressure monitoring	Yes	can be reached	OK	Con	17 - Instrument cluster	Yes	can be reached	OK	Stat	53 - Parking brake	Yes	can be reached	OK	Stat	03 - Brake electronics	Yes	can be reached	OK	Stat	04 - Steering angle sensor	Yes	can be reached	OK	Stat	10 - Parking aid 2	Yes	can be reached	OK	Stat	22 - All-wheel drive electronics	Yes	can be reached	OK	Stat	15 - Airbag	Yes	can be reached	OK	Driv	01 - Engine electronics	Yes	can be reached	OK	Driv	02 - Gearbox electronics	Yes	can be reached	OK	Driv	14 - Wheel insulation electronics	Yes	can be reached	OK	Driv	56 - Radio (CAN)	Yes	can be reached	Error	Mos
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41	Select “Basic Settings” and then confirm clicking on 	
42	Insert the value 254 and then confirm clicking on “Q”	


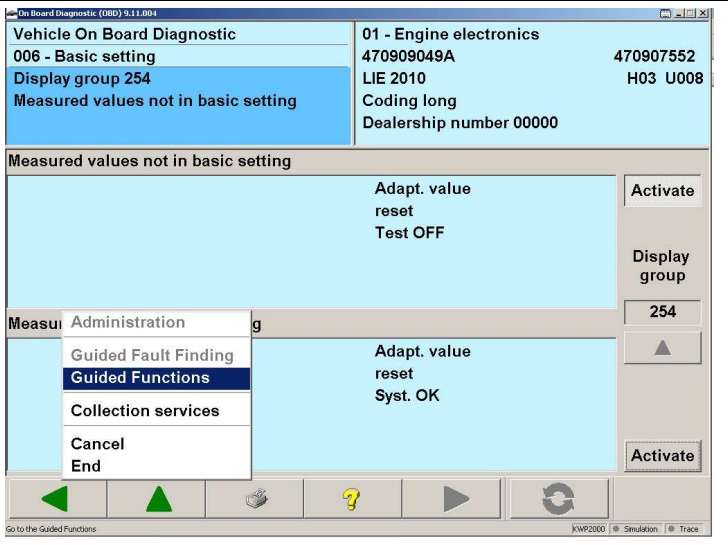
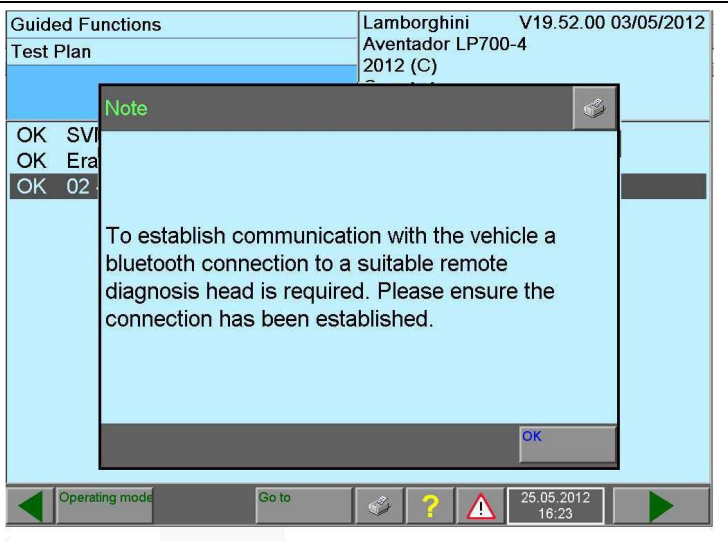
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<p>43</p>	<p>Click on “Activate” on bottom right in order to start the reset for auto adaptation values.</p>	
<p>44</p>	<p>Wait until the feedback message is shown. If the procedure has been performed successfully the message Syst.OK will appear, as shown in the picture beside. If the procedure has not been performed successfully:</p> <ul style="list-style-type: none">• turn the ignition OFF• wait at least 1 minute before turn the ignition ON again• repeat the program from step 41	


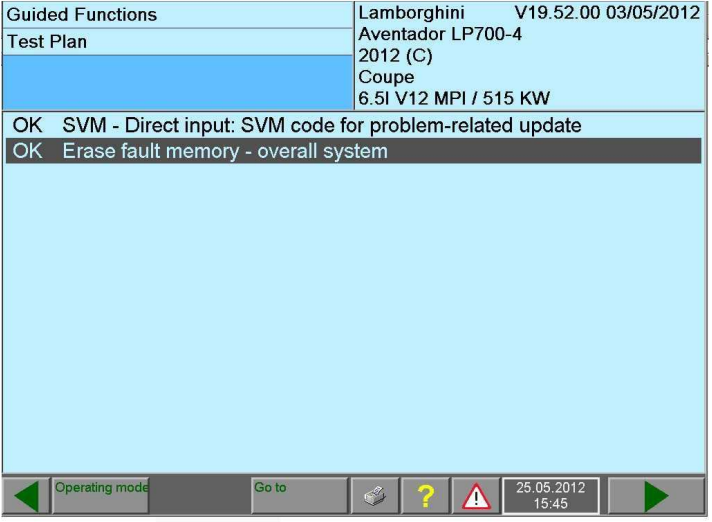
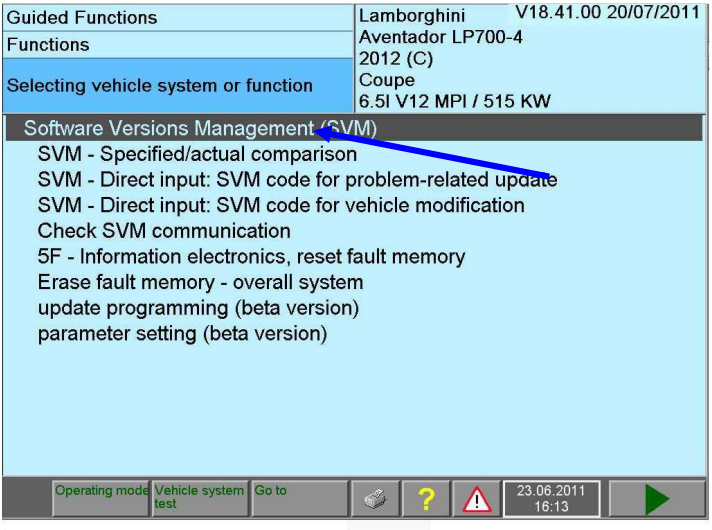
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<p>45</p>	<p>Go back to the test plan clicking on the button  and then selecting “Guided Functions”</p>	
<p>46</p>	<p>Click on “OK”</p>	

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<p>47</p>	<p>Go back to functions menu clicking on </p>	
<p>48</p>	<p>Go back to the ECUs list clicking on “Software Version Management (SVM)”</p>	


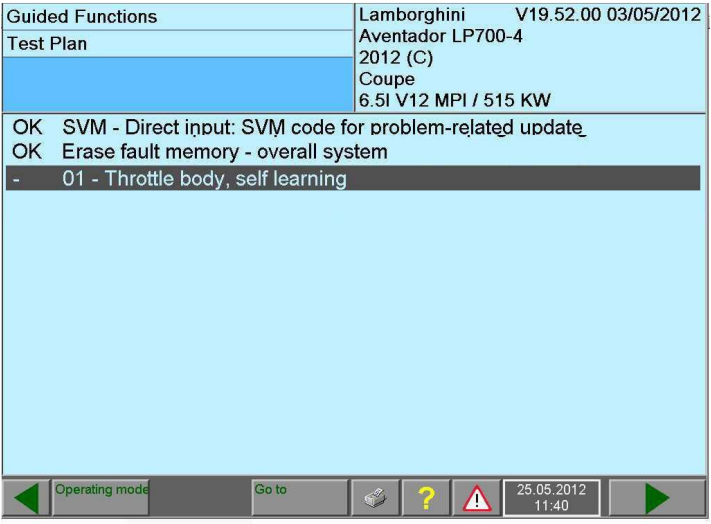
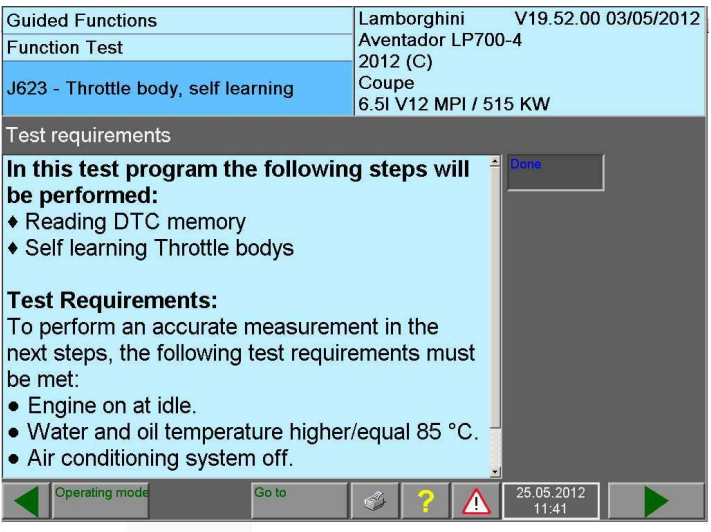
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<p>49 Select “01 – Engine electronics”</p>		
<p>50 Select the program “01 – Throttle bodies, self learning”</p>		

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<p>51</p>	<p>Execute the program clicking on </p>	
<p>52</p>	<p>Be sure that Air Conditioning is OFF</p> <p>Cliccare su “Done”</p>	

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<p>53</p>	<p>Switch the ignition ON. Click on “Done”</p>	
<p>54</p>	<p>Start the engine at idle. Click on “Done”</p>	

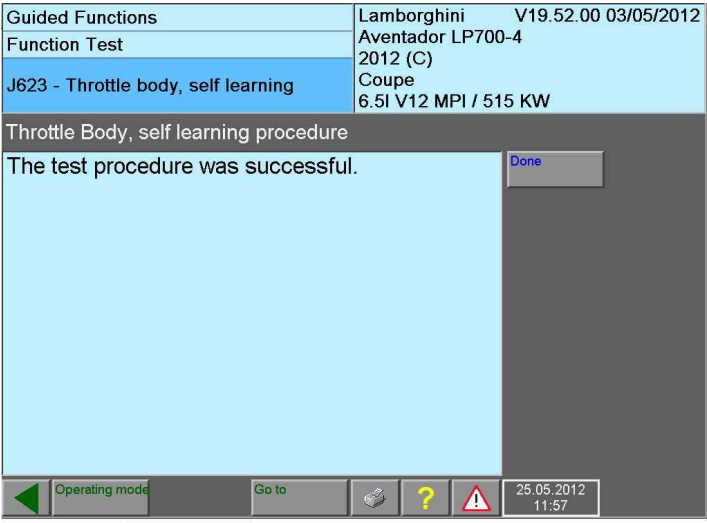
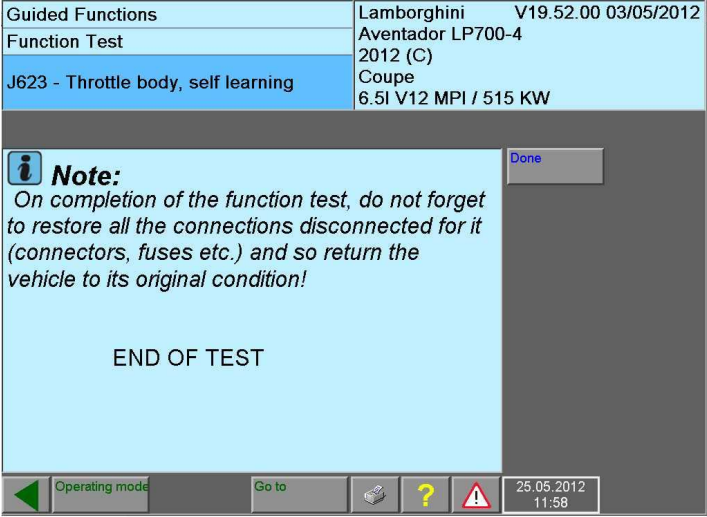
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<p>55</p> <p>Self learning is an automatic procedure and it is activated when engine water and oil temperature exceed 85 °C.</p> <p>Check the parameters from VAS-PC and wait until temperatures reach the target</p> <p>Don't perform any action on the car (e.g. pushing the accelerator pedal) if not necessary.</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 J623 - Throttle body, self learning 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Throttle Body, self learning procedure</p> <p>Engine water temperature (front) 34 °C (setpoint higher/equal 85 °C) Engine water temperature (back) 31 °C (setpoint higher/equal 85 °C) Oil temperature 23 °C (setpoint higher/equal 85 °C) Throttle body - Self learning enabling conditions flag 0 (0: not enabled - 1: enabled) Throttle body - Self learning ended 0 (0: not enabled - 1: enabled)</p> <p>Operating mode Go to 25.05.2012 11:43</p>
<p>56</p> <p>Once temperatures reach the activation conditions the “Throttle body – Self learning condition flag” changes from 0 to 1 indicating the start of the self learning procedure.</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 J623 - Throttle body, self learning 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Throttle Body, self learning procedure</p> <p>Engine water temperature (front) 91 °C (setpoint higher/equal 85 °C) Engine water temperature (back) 91 °C (setpoint higher/equal 85 °C) Oil temperature 85 °C (setpoint higher/equal 85 °C) Throttle body - Self learning enabling conditions flag 1 (0: not enabled - 1: enabled) Throttle body - Self learning ended 0 (0: not enabled - 1: enabled)</p> <p>Operating mode Go to 25.05.2012 11:56</p>

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<p>57</p> <p>If the self learning is completed successfully a screen as in the picture beside is shown. Click on “Done”.</p> <p>If in 10 minutes from the activation the procedure has not been completed, interrupt and check if:</p> <ul style="list-style-type: none"> • air conditioning is OFF • DTC memory of Engine ECU is empty <p>Switch the ignition OFF for at least 1 minute and repeat the program.</p>	
<p>58</p> <p>Click on “Done” in order to end the program.</p>	

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<p>59</p>	<p><u>Continue from step 20</u></p> <p>Press “Done” to download the necessary data about the flash containers.</p>	
<p>60</p>	<p>Press “Done” to download the necessary data about the flash containers.</p>	

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<p>61</p>	<p>Click on “Done”</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Update programming 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Loading flash data container</p> <p>In the following 2 control modules will be listed on which an update programming can be performed using the Vehicle Diagnostic Tester .</p> <p>- Choose how to update the control modules based on the listing.</p> <ul style="list-style-type: none"> • 1st Option: each update programming can be individually started by means of confirmation (pressing a button). • 2nd Option: all update programmings can be performed without interruptions. <p>Operating mode Go to ? 17.05.2012 18:17</p>
<p>62</p>	<p>Depending on the market and according to car’s equipment, new engine software part number and version will be 470909049A; U121 or 470909049; V121 or 470909049B; Z121 or 470909049M; Y121 or 470909049J; W121</p> <p>Click on “Yes”</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Update programming 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Displaying possible update programming</p> <p>An update programming is suggested for the control module 01 - Engine electronics</p> <p>The new software part number; version for this control module is: 470909049A ; U121</p> <p>- Press <Done> to continue the program.</p> <p>Operating mode Go to ? 25.05.2012 10:54</p>

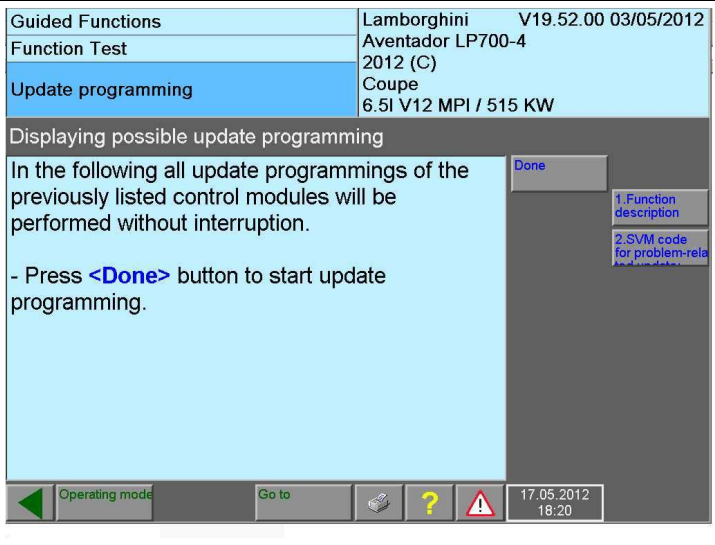
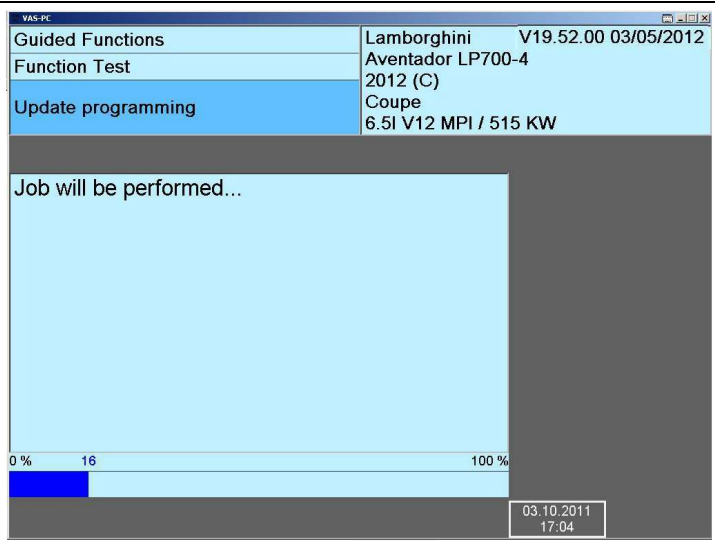
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<p>63</p> <p>The new gearbox software part number and version will be 470927156; 0903</p> <p>Press “Done” to continue.</p>	
<p>64</p> <p>Select the option no.2 “Perform update programming on all control modules without interruption”</p>	

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<p>65 Click on “Done” to start the flash update for both ECUs</p>	
<p>66 Wait until the update programming of the engine ECU is completed</p>	

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<p>67</p> <p>Once the update programming has been completed successfully a feedback as in the picture beside is displayed. Press “Done” to start the update programming of the gearbox ECU.</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 11 		<p>The screenshot shows a diagnostic tool interface with a light blue background. At the top, there is a header with 'Guided Functions', 'Function Test', and 'Update programming'. To the right, it displays 'Lamborghini V19.52.00 03/05/2012', 'Aventador LP700-4 2012 (C)', 'Coupe', and '6.5l V12 MPI / 515 KW'. Below this, a message box says '1 - Update programming - 01' and 'The update programming on control module 01 - Engine electronics was successful.' A 'Done' button is visible. Below the message, it says '- Press <Done> to continue the program.' At the bottom, there is a navigation bar with 'Operating mode', 'Go to', and a date/time display '17.05.2012 18:27'.</p>
<p>68</p> <p>Wait until the update programming of the gearbox ECU is completed.</p>		<p>The screenshot shows the same diagnostic tool interface as above. The main area is dark grey with the text 'Job will be performed...'. Below this, there is a progress bar showing '0%' on the left and '100%' on the right, with a blue bar indicating the current progress. At the bottom right, there is a date/time display '03.10.2011 17:04'.</p>

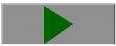
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<p>69</p>	<p>Once the update programming has been completed successfully a feedback as in the picture beside is displayed. Press “Done” to continue.</p> <p>If the update programming has not been completed or has been unsuccessful:</p> <ul style="list-style-type: 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 11 	<p>The screenshot shows a diagnostic tool interface with the following content:</p> <ul style="list-style-type: none"> Header: Guided Functions, Function Test, Update programming Vehicle Info: Lamborghini V19.52.00 03/05/2012, Aventador LP700-4 2012 (C), Coupe, 6.5l V12 MPI / 515 KW Step: 1 - Update programming - 02 Message: The update programming on control module 02 - Transmission electronics was successful. Instruction: - Press <Done> to continue the program. Buttons: Done, 1. Function description, 2. SVM code for problem-related data Footer: Operating mode, Go to, 25.05.2012 11:07
<p>70</p>	<p>In the following an ignition OFF – ON cycle is necessary to restart both the ECU. Press “Done” to continue.</p>	<p>The screenshot shows a diagnostic tool interface with the following content:</p> <ul style="list-style-type: none"> Header: Guided Functions, Function Test, Update programming Vehicle Info: Lamborghini V19.52.00 03/05/2012, Aventador LP700-4 2012 (C), Coupe, 6.5l V12 MPI / 515 KW Step: Terminal 15 selection Message: In the following it is necessary to switch the ignition off and on. Instruction: - Press the Done button and follow the instructions. Buttons: Done, 1. Function description, 2. SVM code for problem-related data Footer: Operating mode, Go to, 25.05.2012 11:08

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<p>71 Switch the ignition OFF.</p>		
<p>72 <u>Wait 1 minute before switching the ignition back ON again.</u></p> <p>Then press on </p>		

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<p>73 Press "Done"</p>	
<p>74 Press "Done" to start the data report</p>	


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<p>75</p> <p>Wait until the data acquisition from all the control modules is completed</p>	
<p>76</p> <p>Once the data report has been sent to the servers a feedback as in the picture beside is displayed. The software update of engine and gearbox ECU has been completed successfully and all the information have been stored in the system. Press on “Done”</p>	


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<p>77 Press on “Done” to exit the program</p>	
<p>78 Go back to the Software Version Management menu clicking on </p>	


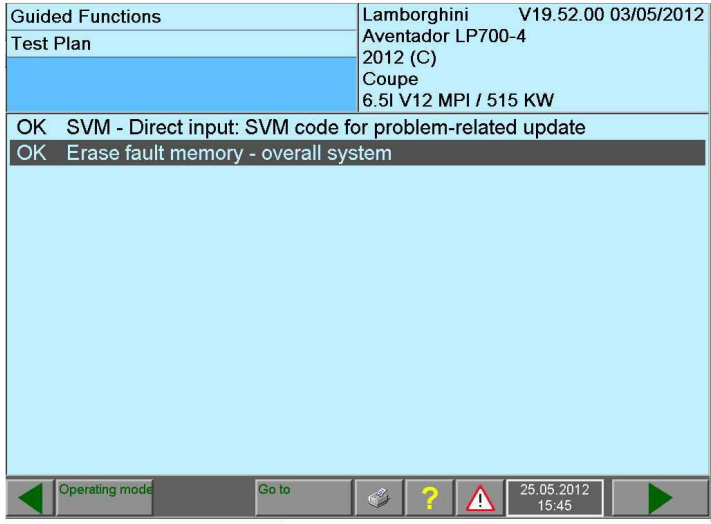
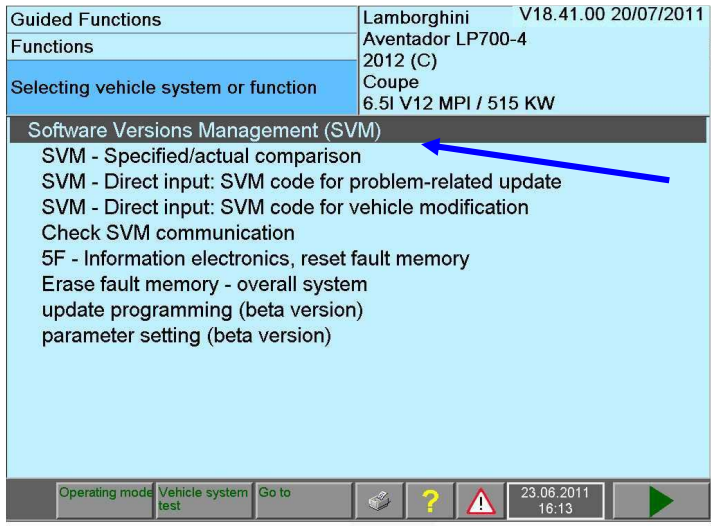
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<p>79</p> <p>Select and run the program “Erase fault memory – overall systems” to clear all the faults stored because of the software update.</p>		
<p>80</p> <p>Execute the program “Erase fault memory – overall system” clicking on .</p>		

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<p>81</p>	<p>Go back to the “Software Version Management” menu clicking on </p>	 <p>Guided Functions Lamborghini V19.52.00 03/05/2012 Test Plan Aventador LP700-4 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>OK SVM - Direct input: SVM code for problem-related update OK Erase fault memory - overall system</p> <p>Operating mode Go to 25.05.2012 15:45</p>
<p>82</p>	<p>Click on “Software Version Management” in order to go back to the ECUs list.</p>	 <p>Guided Functions Lamborghini V18.41.00 20/07/2011 Functions Aventador LP700-4 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Selecting vehicle system or function</p> <p>Software Versions Management (SVM)</p> <ul style="list-style-type: none">SVM - Specified/actual comparisonSVM - Direct input: SVM code for problem-related updateSVM - Direct input: SVM code for vehicle modificationCheck SVM communication5F - Information electronics, reset fault memoryErase fault memory - overall systemupdate programming (beta version)parameter setting (beta version) <p>Operating mode Vehicle system test Go to 23.06.2011 16:13</p>


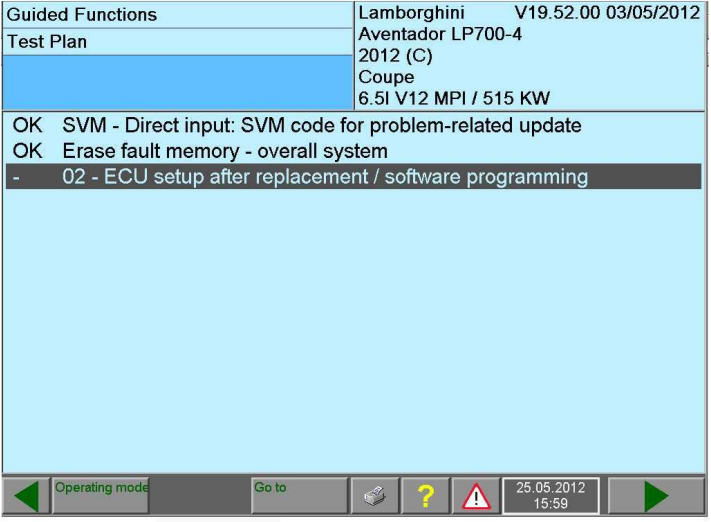
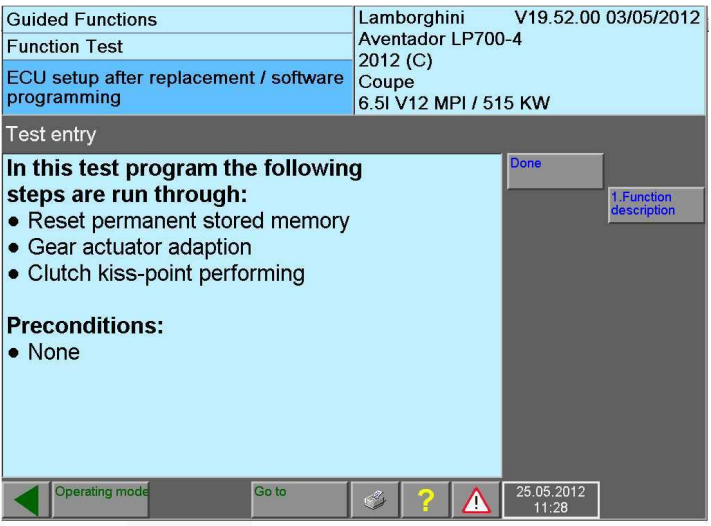
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<p>83 Select “02 – Gearbox electronics”</p>		
<p>84 Select the function “02 – ECU setup after replacement / software programming” in order to initialize the gearbox ECU.</p>		

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<p>85</p>	<p>Execute the program clicking on </p>	
<p>86</p>	<p>Click on "Done"</p>	

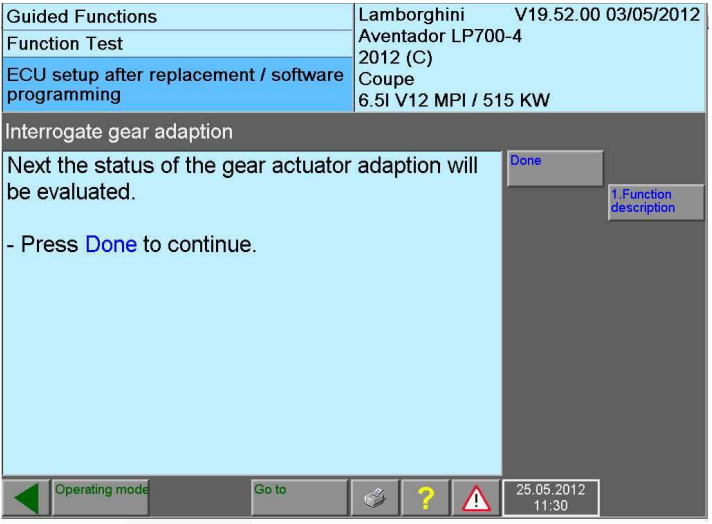
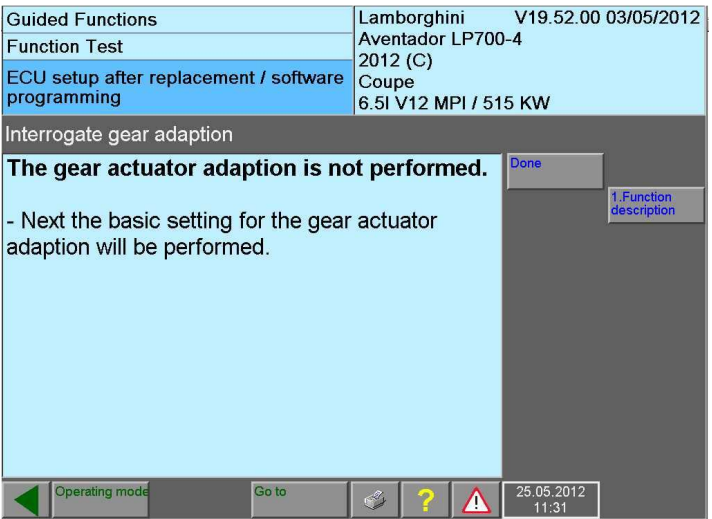
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<p>87 Click on “Done”</p>	
<p>88 Select “NO”</p>	

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89	Click on "Done"	
90	Click on "Done"	

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<p>91 Click on “Done” in order to execute the gear adaption.</p>		<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 ECU setup after replacement / software programming 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Reset gear adaptations</p> <p>Conditions:</p> <ul style="list-style-type: none">◆ Transmission in Neutral◆ Engine speed = 0◆ Vehicle speed = 0◆ Fully pressurised hydraulic system <p>Done</p> <p>1.Function description</p> <p>Operating mode Go to ? 25.05.2012 11:31</p>
<p>92 Confirm clicking on “Yes”</p>		<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 ECU setup after replacement / software programming 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Reset gear adaptations</p> <p>Each gear will be shift 5 times (5x) responsively with Neutral position in following order:</p> <ol style="list-style-type: none">1. Gear 1 - Neutral2. Reverse - Neutral3. Gear 2 - Neutral4. Gear 4 - Neutral5. Gear 3 - Neutral6. Gear 5 - Neutral7. Gear 6 - Neutral8. Gear 7 - Neutral <p>Do you want to perform the basic setting now?</p> <p>Yes</p> <p>No</p> <p>1.Function description</p> <p>Operating mode Go to ? 25.05.2012 11:32</p>

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<p>93</p> <p>Wait until the gear adaption procedure is completed. Gear engagements can be checked directly from the instrument cluster.</p>	<p>The screenshot shows the 'Reset gear adaptations' screen. At the top, it lists vehicle information: Lamborghini V19.52.00 03/05/2012, Aventador LP700-4 2012 (C), Coupe, 6.5l V12 MPI / 515 KW. Below this, there is a 'Note' stating: 'The activity is displayed in the Instrument cluster of the car.' The main area contains the text 'Please wait' with a circular arrow icon and a progress bar showing 0 sec, 6 sec, and 110 sec. At the bottom, there is a navigation bar with 'Operating mode', 'Go to', a printer icon, a help icon, a warning icon, and the date/time '25.05.2012 11:32'.</p>
<p>94</p> <p>Click on "Done" to continue.</p>	<p>The screenshot shows the 'Evaluate gear adaption' screen. It contains the text: 'Next the status of the gear actuator adaption will be evaluated.' and '- Press Done to continue.' A 'Done' button is visible in the top right corner. The vehicle information at the top is the same as in the previous screenshot. The bottom navigation bar is also the same, showing '25.05.2012 11:34'.</p>

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<p>95</p>	<p>Click on “Done” in order to perform the Kiss Point adaption.</p>	
<p>96</p>	<p><u>Start the engine at idle and keep pressed the brake pedal for at least 1 minute.</u></p> <p>If the engine doesn't start:</p> <ul style="list-style-type: none"> • turn the ignition OFF • disconnect the diagnostic interface • wait at least 1 minute before turn the ignition ON again • reconnect the diagnostic interface and repeat the program from step 85 	

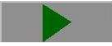
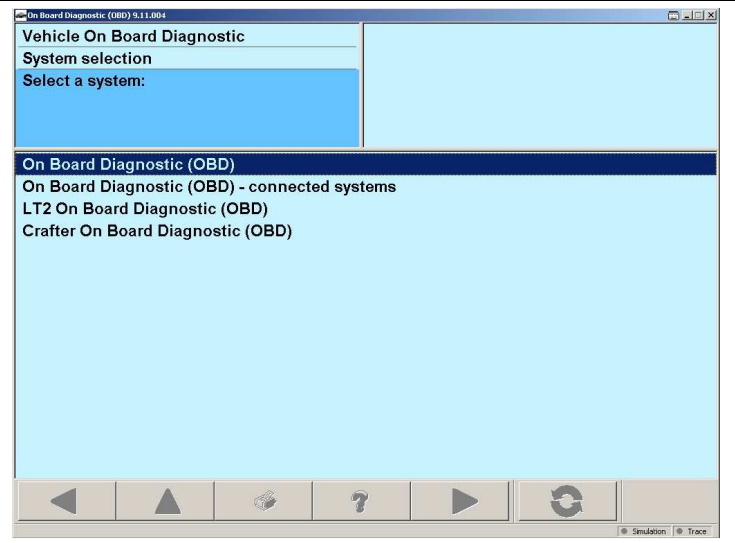

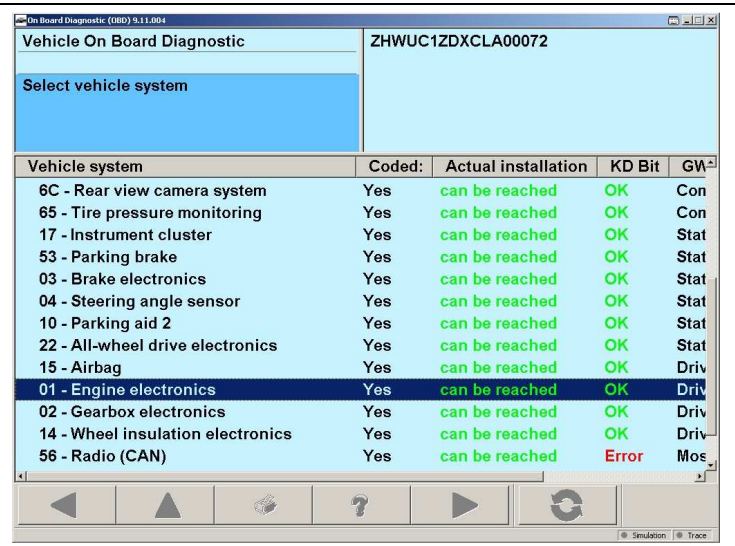
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<p>97</p>	<p>If the Kiss Point adaption is completed successfully the screenshot beside will be displayed.</p> <p>Click on “Done” in order to exit from the program.</p> <p>If the Kiss Point adaption is not completed successfully:</p> <ul style="list-style-type: none"> • turn the ignition OFF • disconnect the diagnostic interface • wait at least 1 minute before turn the ignition ON again • reconnect the diagnostic interface and repeat the program from step 85 	
<p>98</p>	<p>Select “Operating Mode” and then click on “Vehicle Self-Diagnosis”</p>	


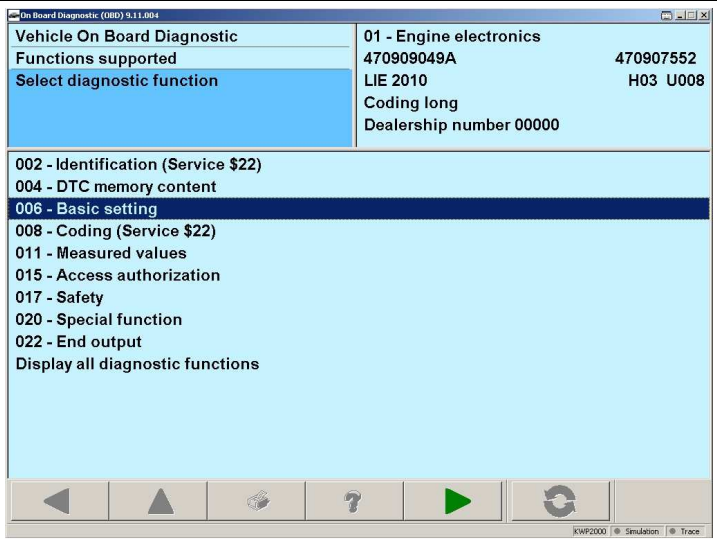
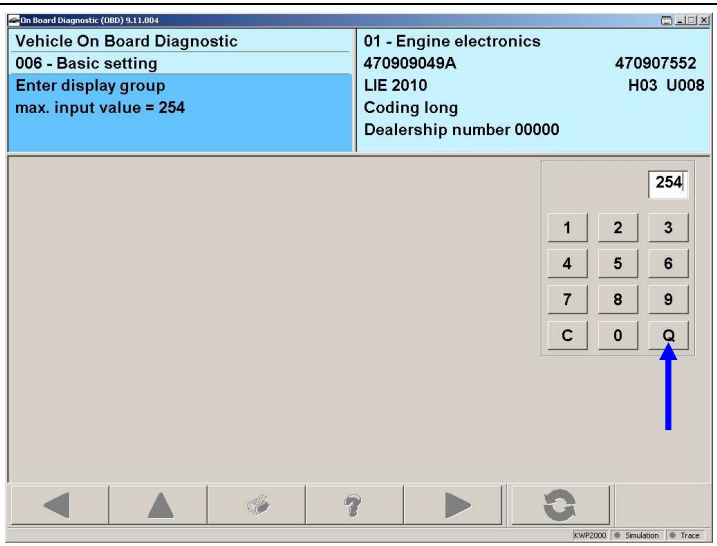
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<p>99</p>	<p>Select “On Board Diagnostic (OBD)” and then click on </p>																																																																							
<p>100</p>	<p>Scroll down the ECU list, select “01 – Engine electronics” and then confirm clicking on </p>	 <table border="1"> <thead> <tr> <th>Vehicle system</th> <th>Coded:</th> <th>Actual installation</th> <th>KD Bit</th> <th>GW</th> </tr> </thead> <tbody> <tr> <td>6C - Rear view camera system</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Con</td> </tr> <tr> <td>65 - Tire pressure monitoring</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Con</td> </tr> <tr> <td>17 - Instrument cluster</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>53 - Parking brake</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>03 - Brake electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>04 - Steering angle sensor</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>10 - Parking aid 2</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>22 - All-wheel drive electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Stat</td> </tr> <tr> <td>15 - Airbag</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Driv</td> </tr> <tr> <td>01 - Engine electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Driv</td> </tr> <tr> <td>02 - Gearbox electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Driv</td> </tr> <tr> <td>14 - Wheel insulation electronics</td> <td>Yes</td> <td>can be reached</td> <td>OK</td> <td>Driv</td> </tr> <tr> <td>56 - Radio (CAN)</td> <td>Yes</td> <td>can be reached</td> <td>Error</td> <td>Mos</td> </tr> </tbody> </table>	Vehicle system	Coded:	Actual installation	KD Bit	GW	6C - Rear view camera system	Yes	can be reached	OK	Con	65 - Tire pressure monitoring	Yes	can be reached	OK	Con	17 - Instrument cluster	Yes	can be reached	OK	Stat	53 - Parking brake	Yes	can be reached	OK	Stat	03 - Brake electronics	Yes	can be reached	OK	Stat	04 - Steering angle sensor	Yes	can be reached	OK	Stat	10 - Parking aid 2	Yes	can be reached	OK	Stat	22 - All-wheel drive electronics	Yes	can be reached	OK	Stat	15 - Airbag	Yes	can be reached	OK	Driv	01 - Engine electronics	Yes	can be reached	OK	Driv	02 - Gearbox electronics	Yes	can be reached	OK	Driv	14 - Wheel insulation electronics	Yes	can be reached	OK	Driv	56 - Radio (CAN)	Yes	can be reached	Error	Mos
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101	Select “Basic Settings” and then confirm clicking on 	
102	Insert the value 254 and then confirm clicking on “Q”	


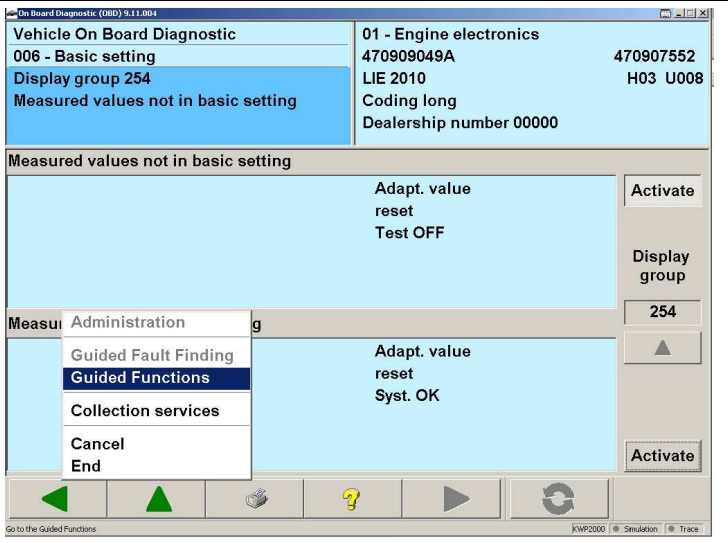
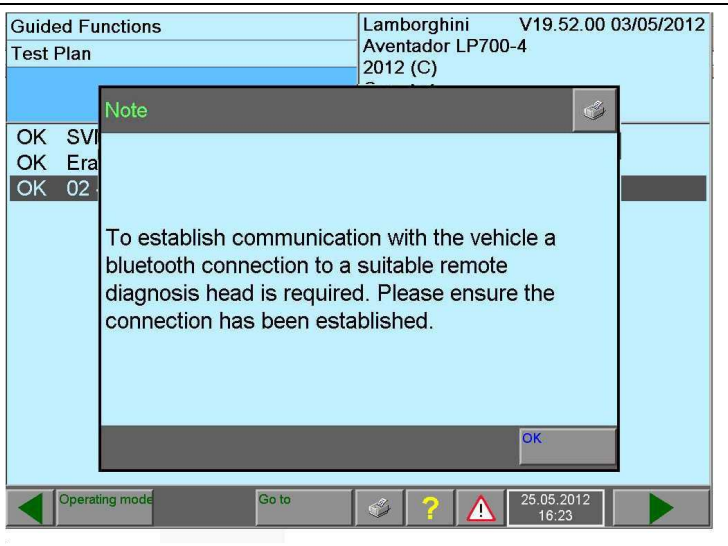
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103	Click on “Activate” on bottom right in order to start the reset for auto adaptation values.	
104	Wait until the feedback message is shown. If the procedure has been performed successfully the message Syst.OK will appear, as shown in the picture beside. If the procedure has not been performed successfully: <ul style="list-style-type: none">• turn the ignition OFF• wait at least 1 minute before turn the ignition ON again• repeat the program from step 100	


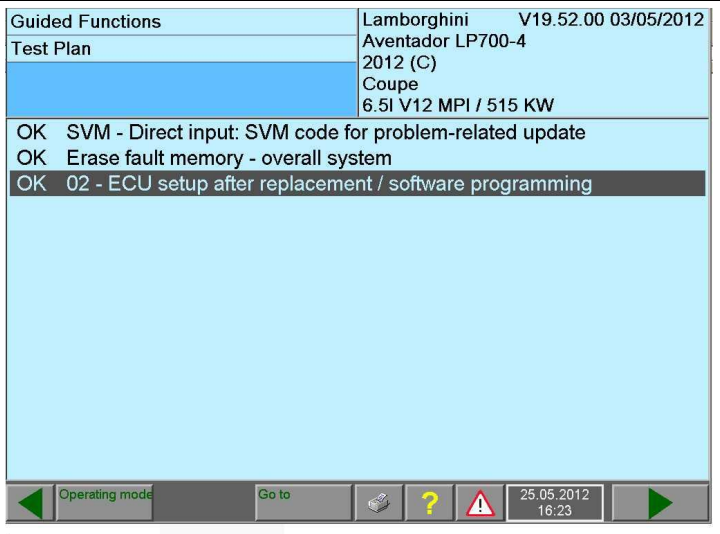
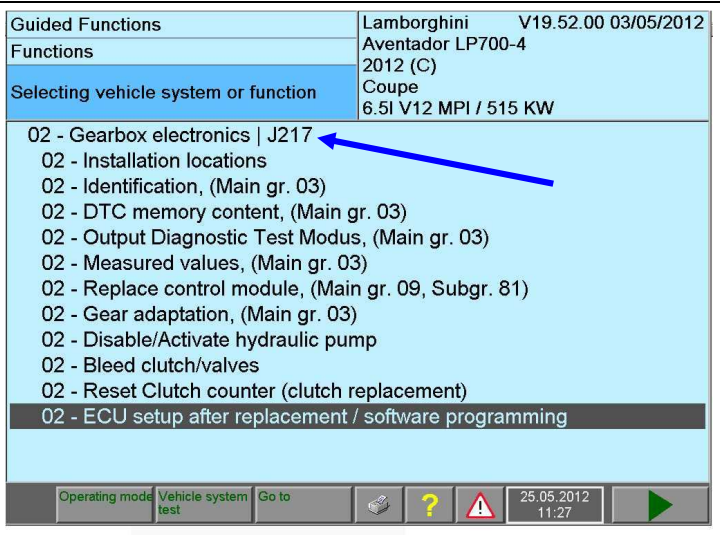
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<p>105</p>	<p>Go back to the test plan clicking on the button  and then selecting “Guided Functions”</p>	
<p>106</p>	<p>Click on “OK”</p>	

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<p>107</p>	<p>Go back to functions menu clicking on </p>	
<p>108</p>	<p>Go back to the ECUs list clicking on “02 – Gearbox electronics”</p>	




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<p>109 Select “01 – Engine electronics”</p>		
<p>110 Select the program “01 – Throttle bodies, self learning”</p>		

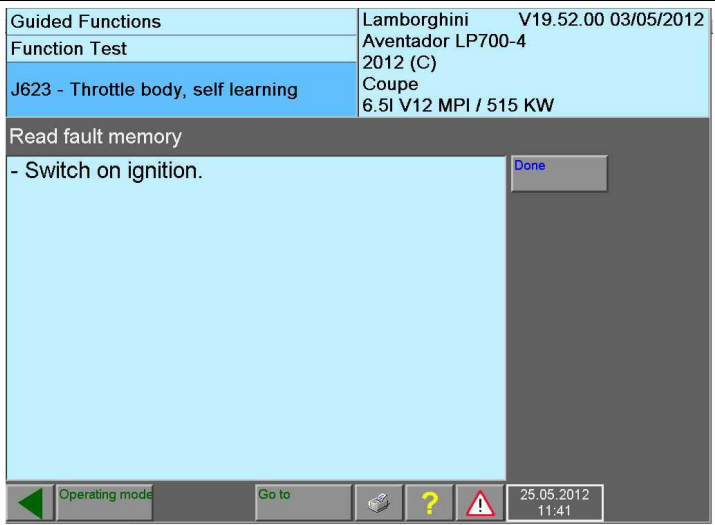
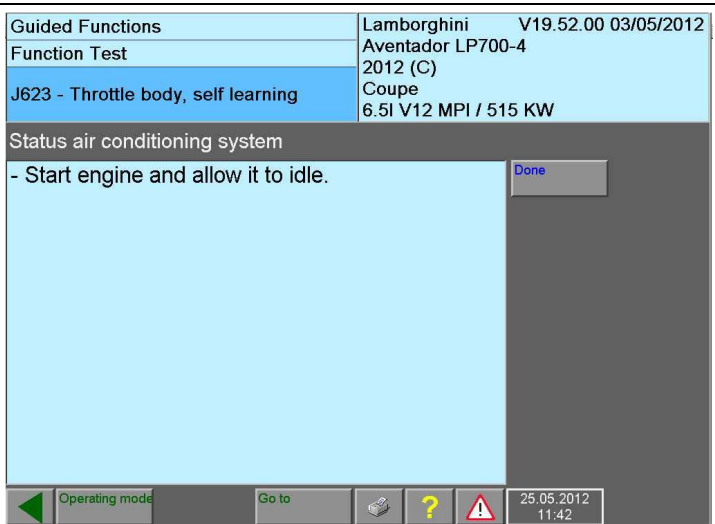
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111	<p>Execute the program clicking on </p>	<table border="1"> <tr> <td>Guided Functions</td> <td>Lamborghini V19.52.00 03/05/2012</td> </tr> <tr> <td>Test Plan</td> <td>Aventador LP700-4 2012 (C) Coupe 6.5l V12 MPI / 515 KW</td> </tr> <tr> <td colspan="2"> OK SVM - Direct input: SVM code for problem-related update OK Erase fault memory - overall system OK 02 - ECU setup after replacement / software programming - 01 - Throttle body, self learning </td> </tr> </table> <p style="text-align: center;"></p>	Guided Functions	Lamborghini V19.52.00 03/05/2012	Test Plan	Aventador LP700-4 2012 (C) Coupe 6.5l V12 MPI / 515 KW	OK SVM - Direct input: SVM code for problem-related update OK Erase fault memory - overall system OK 02 - ECU setup after replacement / software programming - 01 - Throttle body, self learning	
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112	<p>Be sure that Air Conditioning is OFF</p> <p>Cliccare su “Done”</p>	<table border="1"> <tr> <td>Guided Functions</td> <td>Lamborghini V19.52.00 03/05/2012</td> </tr> <tr> <td>Function Test</td> <td>Aventador LP700-4 2012 (C) Coupe 6.5l V12 MPI / 515 KW</td> </tr> <tr> <td>J623 - Throttle body, self learning</td> <td></td> </tr> </table> <p>Test requirements</p> <p>In this test program the following steps will be performed:</p> <ul style="list-style-type: none"> ◆ Reading DTC memory ◆ Self learning Throttle bodies <p>Test Requirements:</p> <p>To perform an accurate measurement in the next steps, the following test requirements must be met:</p> <ul style="list-style-type: none"> ● Engine on at idle. ● Water and oil temperature higher/equal 85 °C. ● Air conditioning system off. <p style="text-align: right;"><input type="button" value="Done"/></p> <p style="text-align: center;"></p>	Guided Functions	Lamborghini V19.52.00 03/05/2012	Function Test	Aventador LP700-4 2012 (C) Coupe 6.5l V12 MPI / 515 KW	J623 - Throttle body, self learning	
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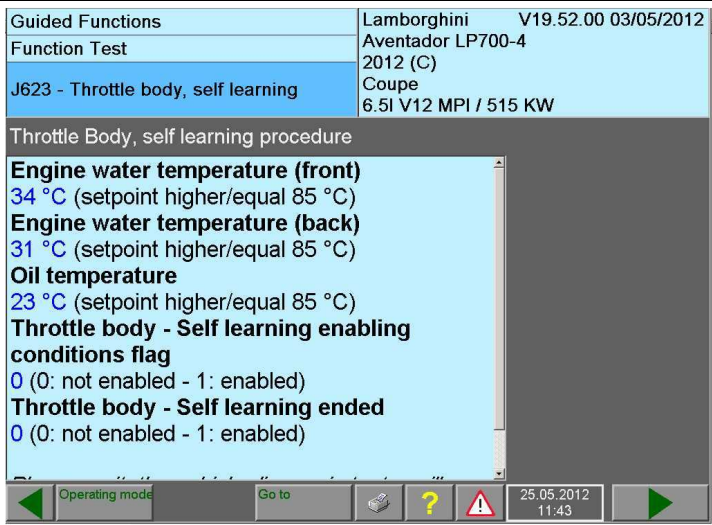
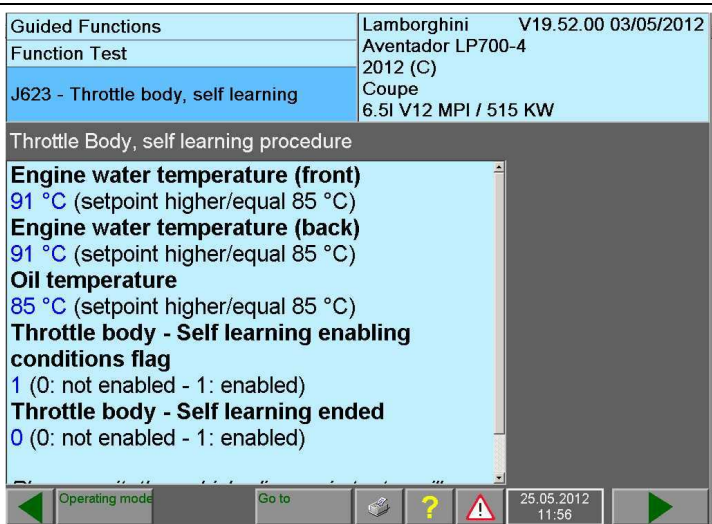
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<p>113 Switch the ignition ON. Click on “Done”</p>	
<p>114 Start the engine at idle. Click on “Done”</p>	

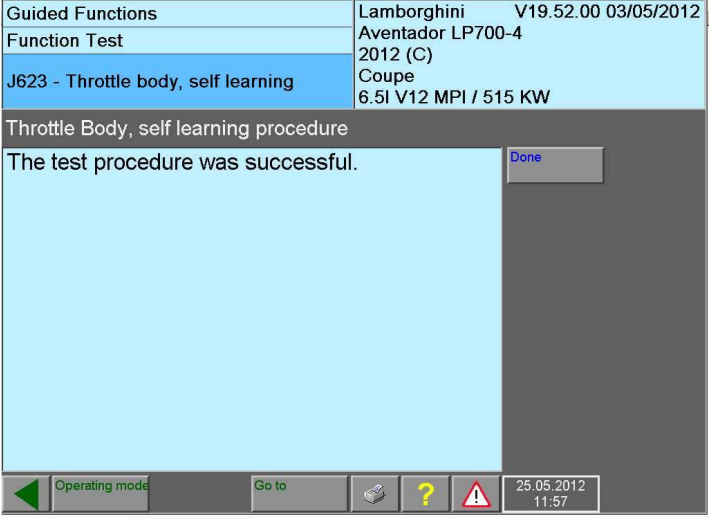
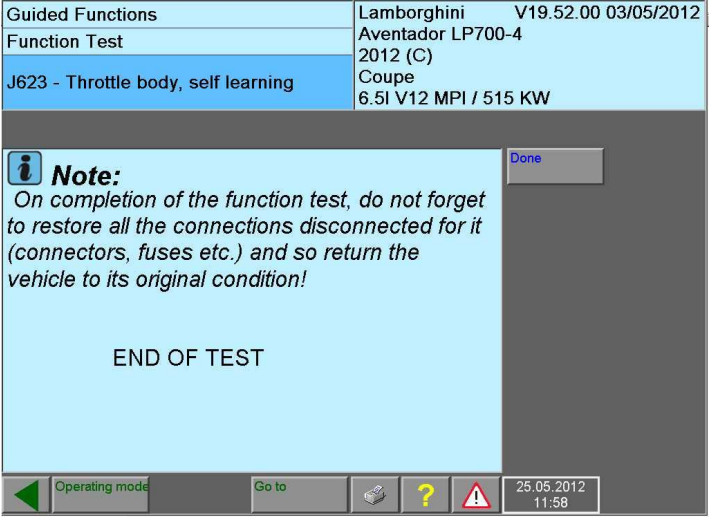
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<p>115</p> <p>Self learning is an automatic procedure and it is activated when engine water and oil temperature exceed 85 °C.</p> <p>Check the parameters from VAS-PC and wait until temperatures reach the target</p> <p>Don't perform any action on the car (e.g. pushing the accelerator pedal) if not necessary.</p>	 <p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 J623 - Throttle body, self learning 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Throttle Body, self learning procedure</p> <p>Engine water temperature (front) 34 °C (setpoint higher/equal 85 °C) Engine water temperature (back) 31 °C (setpoint higher/equal 85 °C) Oil temperature 23 °C (setpoint higher/equal 85 °C) Throttle body - Self learning enabling conditions flag 0 (0: not enabled - 1: enabled) Throttle body - Self learning ended 0 (0: not enabled - 1: enabled)</p> <p>Operating mode Go to 25.05.2012 11:43</p>
<p>116</p> <p>Once temperatures reach the activation conditions the “Throttle body – Self learning condition flag” changes from 0 to 1 indicating the start of the self learning procedure.</p>	 <p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 J623 - Throttle body, self learning 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Throttle Body, self learning procedure</p> <p>Engine water temperature (front) 91 °C (setpoint higher/equal 85 °C) Engine water temperature (back) 91 °C (setpoint higher/equal 85 °C) Oil temperature 85 °C (setpoint higher/equal 85 °C) Throttle body - Self learning enabling conditions flag 1 (0: not enabled - 1: enabled) Throttle body - Self learning ended 0 (0: not enabled - 1: enabled)</p> <p>Operating mode Go to 25.05.2012 11:56</p>

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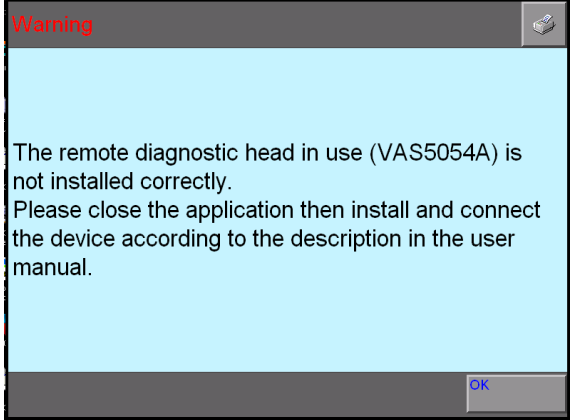

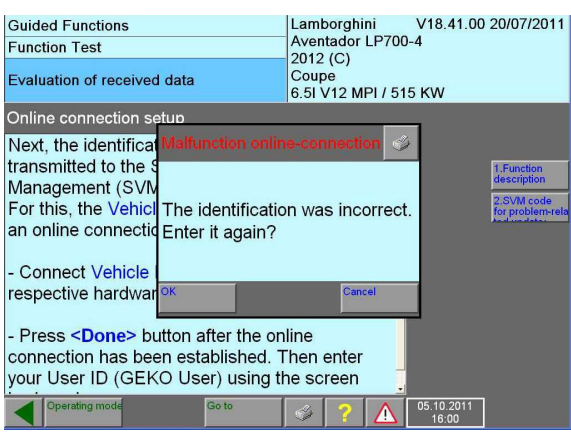


<p>117</p> <p>If the self learning is completed successfully a screen as in the picture beside is shown. Click on “Done”.</p> <p>If in 10 minutes from the activation the procedure has not been completed, interrupt and check if:</p> <ul style="list-style-type: none"> • air conditioning is OFF • DTC memory of Engine ECU is empty <p>Switch the ignition OFF for at least 1 minute and repeat the program.</p>	
<p>118</p> <p>Click on “Done” in order to end the program.</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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