



To All Lamborghini Dealers and Licensed Service Point .
From Customer Service Department.
Subject Engine And Gearbox Software Upgrade.
Group 10.02.00
Date 01/06/12
Pages 45

Subject

Engine and gearbox software upgrade.

Model

Lamborghini Aventador LP-700 My 2012 from Vin CLA00091 to CLA00932

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.

Campaign Code: L834-A.03.12
Campaign Description: Engine And Gearbox SW Upgrade
Cost Code: 50
Component Code: CCA0312
Trouble Code: 220
Labour Code: CCA0312100
Labour Time: 1 h

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



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

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

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.

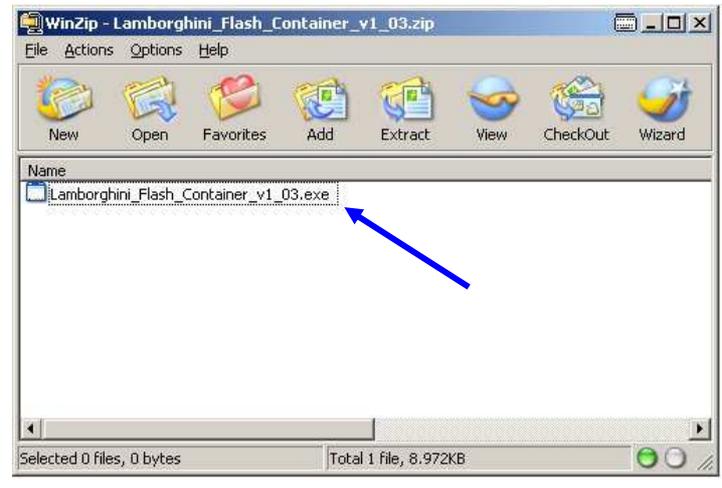


Workshop instructions

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 1.03 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_03.zip”
4	<p>Double click on the just downloaded zip file and then open the file Lamborghini_Flash_Container_v1_03.exe, as shown in the picture beside.</p> 

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.

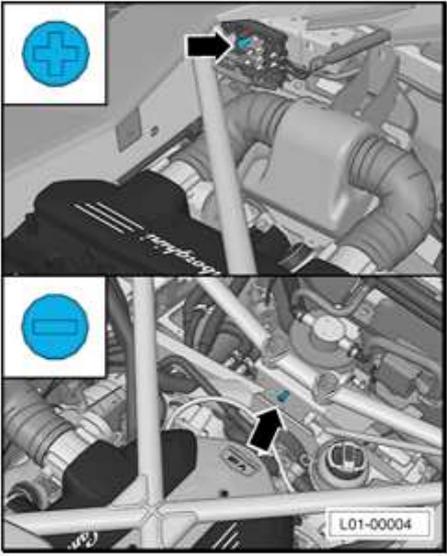
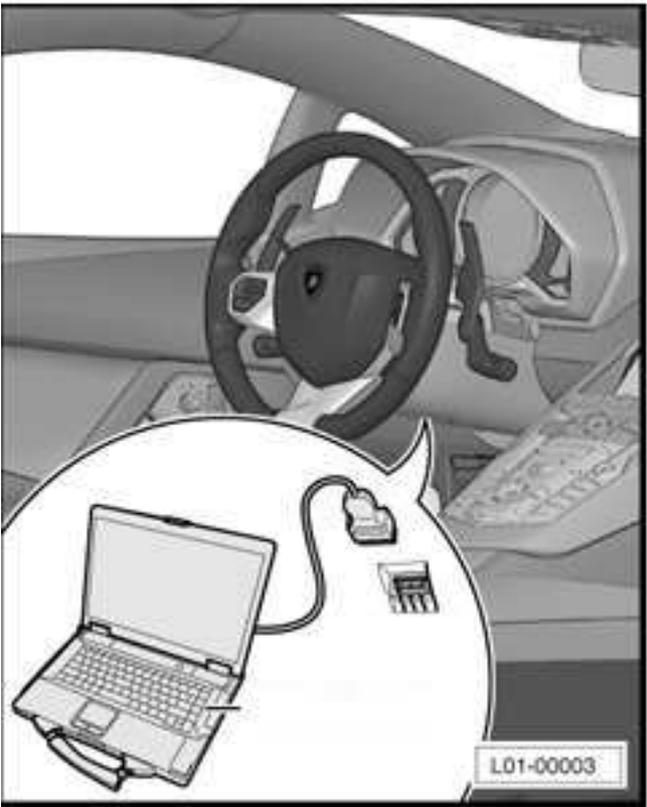


<p>5</p>	<p>Click on “Install” and wait that the installation is completed.</p>	
<p>6</p>	<p>Click on “Finish” to exit.</p>	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.

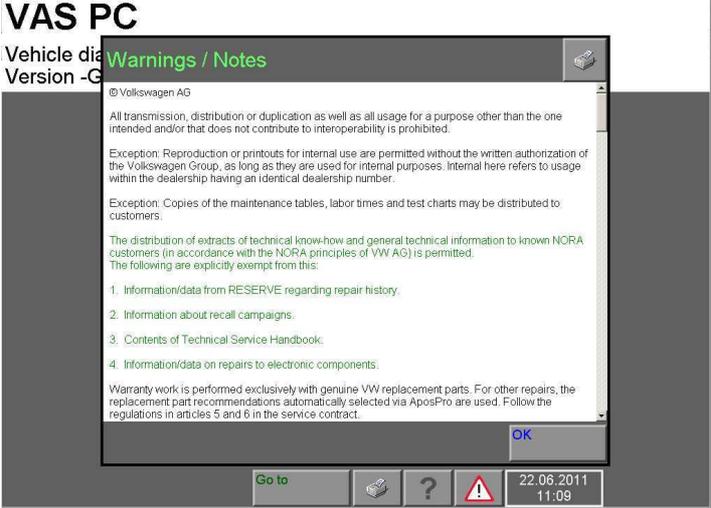
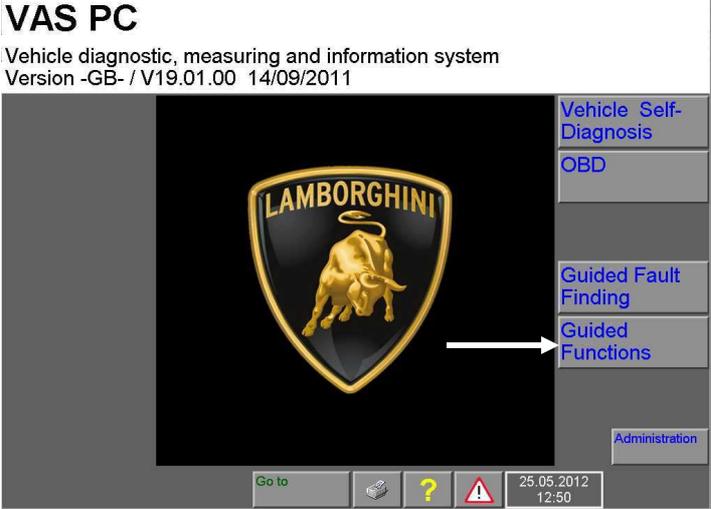


Update procedure:

<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>	

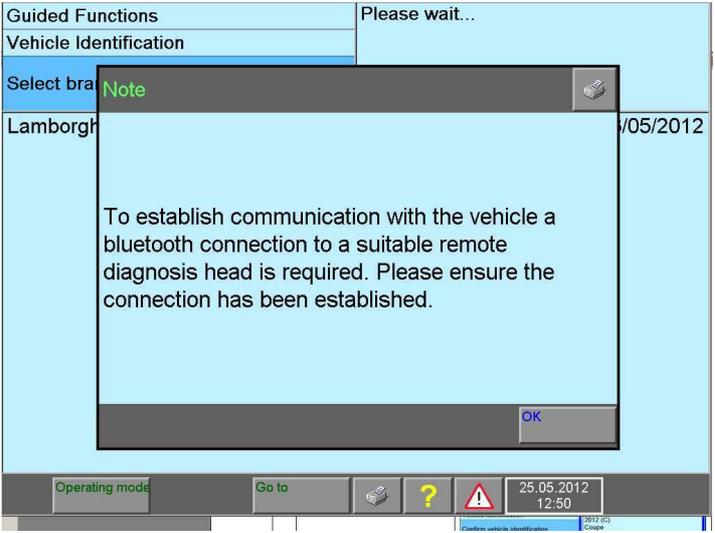
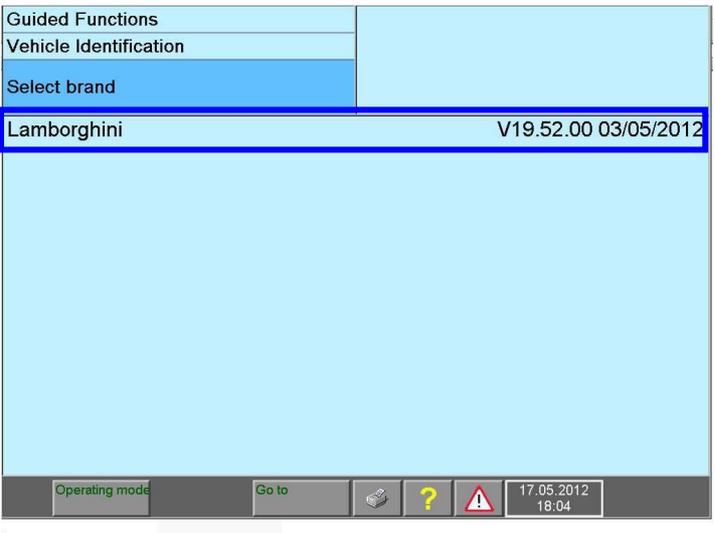
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>3</p>	<p>Start the VAS-PC double clicking on the related icon on the desktop</p>	
<p>4</p>	<p>Click on “OK” to hide the general information window</p>	
<p>5</p>	<p>Select “Guided Functions”</p>	

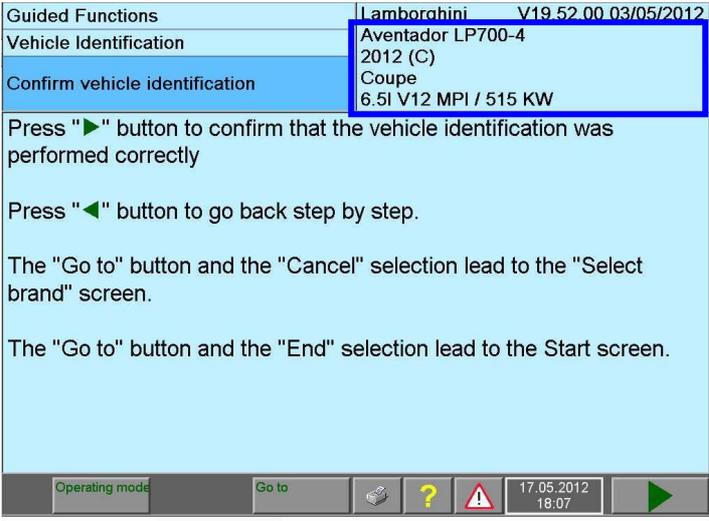
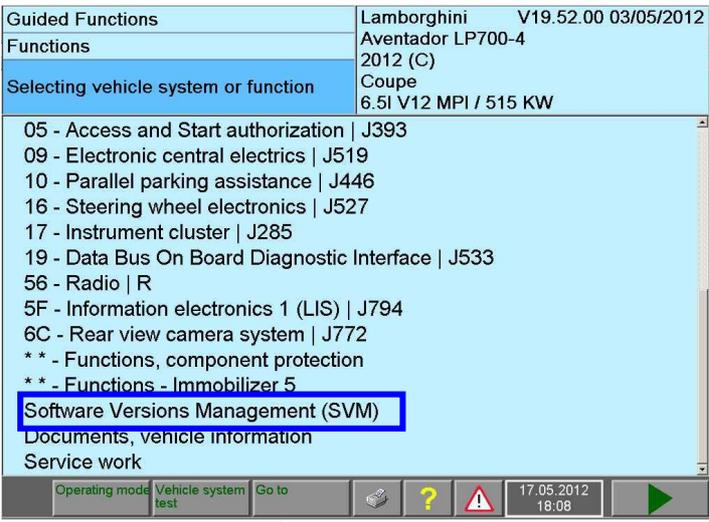
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



6	Click on "OK"	 <p>The screenshot shows a software interface with a menu on the left containing 'Guided Functions', 'Vehicle Identification', and 'Select brand'. The 'Select brand' option is selected, and the text 'Lamborgh' is visible. A modal dialog box titled 'Note' is centered on the screen, containing the text: 'To establish communication with the vehicle a bluetooth connection to a suitable remote diagnosis head is required. Please ensure the connection has been established.' An 'OK' button is at the bottom right of the dialog. The bottom status bar shows 'Operating mode', 'Go to', a printer icon, a question mark icon, a warning icon, and the date/time '25.05.2012 12:50'.</p>
7	Click on "Lamborghini"	 <p>The screenshot shows the same software interface as above, but the 'Select brand' menu is now expanded. The option 'Lamborghini' is highlighted with a blue border, and the text 'V19.52.00 03/05/2012' is visible to its right. The bottom status bar shows the date/time '17.05.2012 18:04'.</p>

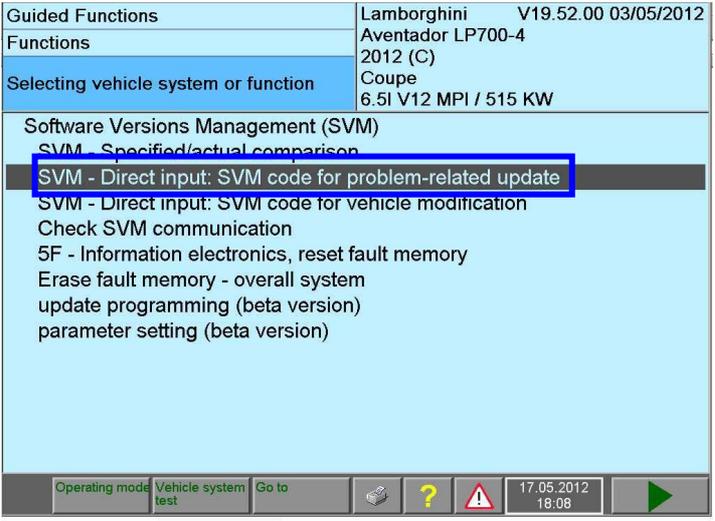
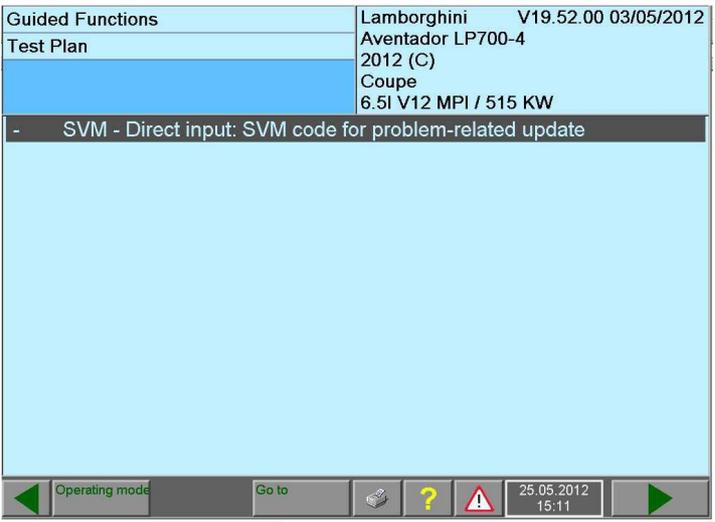
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>8</p>	<p>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>9</p>	<p>Scroll down the ECU list and select "Software Version Management"</p>	 <p>05 - Access and Start authorization J393 09 - Electronic central electrics J519 10 - Parallel parking assistance J446 16 - Steering wheel electronics J527 17 - Instrument cluster J285 19 - Data Bus On Board Diagnostic Interface J533 56 - Radio R 5F - Information electronics 1 (LIS) J794 6C - Rear view camera system J772 ** - Functions, component protection ** - Functions - Immobilizer 5 Software Versions Management (SVM) Documents, vehicle information Service work</p>

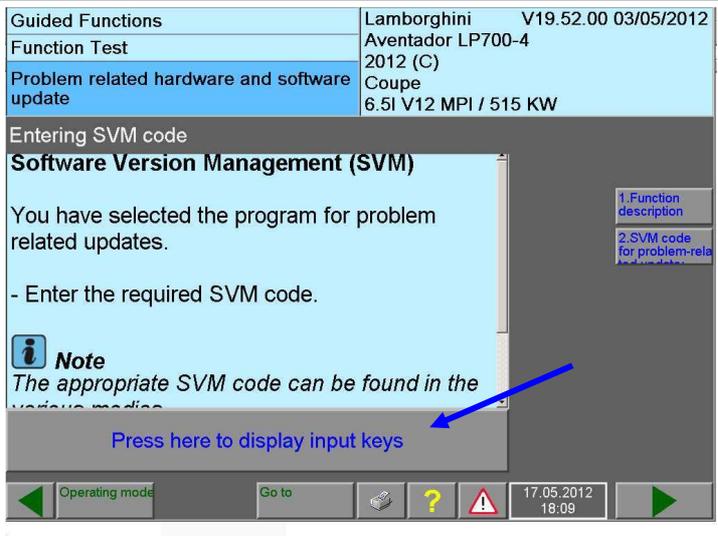
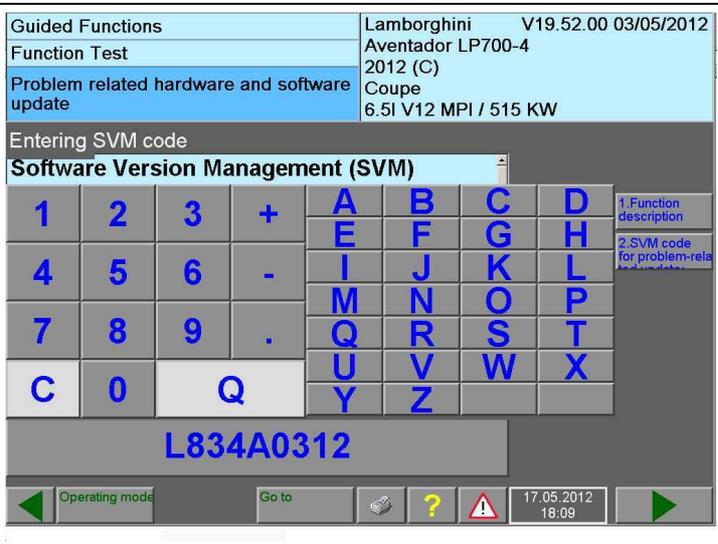
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>10</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 V19.52.00 03/05/2012 Aventador LP700-4 Functions 2012 (C) Coupe Selecting vehicle system or function 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 ? 17.05.2012 test 18:08</p>
<p>11</p>	<p>Run the program clicking on </p>	 <p>Guided Functions Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 Test Plan 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 ? 25.05.2012 15:11</p>

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>12 Click on the grey bar to enter the SVM code</p>	
<p>13 Enter the code L834A0312 then click on  to confirm</p>	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>14</p> <p>Confirm that the inserted code is correct clicking on “Yes”</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Problem related hardware and software update 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>Entering SVM code</p> <p>The SVM code that you have entered is: L834A0312</p> <p>Should the entered SVM code be accepted?</p> <p>Yes [] No []</p> <p>1. Function description 2. SVM code for problem-related data</p> <p>Operating mode Go to 17.05.2012 18:10</p>
<p>15</p> <p>Click on “Done” to start the data acquisition from all the vehicle’s ECUs</p>	<p>Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Problem related hardware and software update 2012 (C) Coupe 6.5l V12 MPI / 515 KW</p> <p>SVM code evaluation</p> <p>- Connect the a charge to the vehicle.</p> <p>⚠ Caution An adequate battery voltage is essential while running Software Version Management (SVM). If this is not ensured, and a program update is aborted due to inadequate battery voltage, a defect in the control unit concerned may result.</p> <p>Done []</p> <p>1. Function description 2. SVM code for problem-related data</p> <p>Operating mode Go to 17.05.2012 18:11</p>

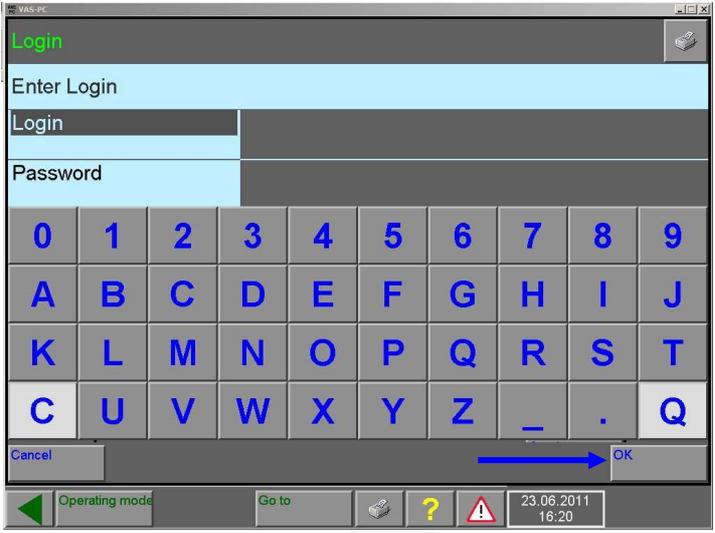
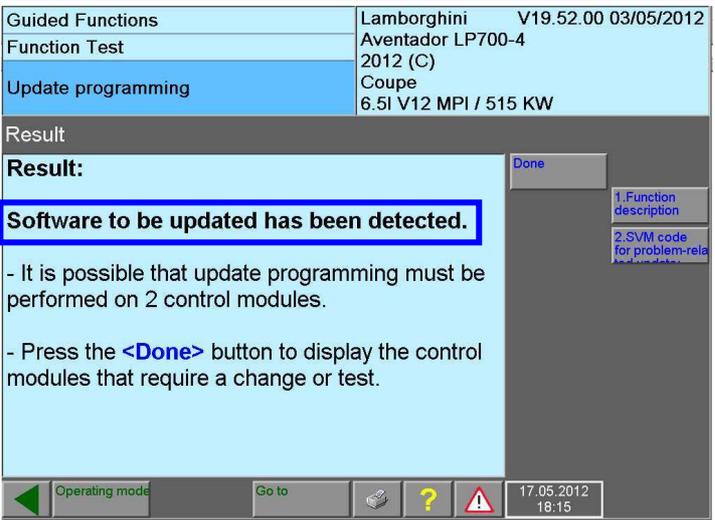
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>16</p>	<p>Wait until the data acquisition from all control modules is completed.</p>	
<p>17</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>	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>18</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>19</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>	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>20</p>	<p>The flash data containers are already saved on the diagnostic laptop. Press “Done”</p>	
<p>21</p>	<p>Press “Done” to download the necessary data about the flash containers.</p>	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>22</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>23</p>	<p>Depending on the market and according to car’s equipment, new engine software part number and version will be 470909049A; U008 or 470909049; V008 or 470909049B; Z008</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>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 ; U008</p> <p>- Press <Done> to continue the program.</p> <p>Operating mode Go to 25.05.2012 10:54</p>

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>24</p>	<p>The new gearbox software part number and version will be 470927156; 0903</p> <p>Press “Done” to continue.</p>	
<p>25</p>	<p>Select the option no.2 “Perform update programming on all control modules without interruption”</p>	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>26</p> <p>Click on “Done” to start the flash update for both ECUs</p>		<p>The screenshot shows the VAS-PC software interface. At the top, it displays 'Guided Functions' with a list: 'Lamborghini V19.52.00 03/05/2012', 'Aventador LP700-4 2012 (C)', and 'Coupe 6.5l V12 MPI / 515 KW'. Below this, there are three buttons: 'Function Test', 'Update programming', and 'Done'. The 'Update programming' button is highlighted. The main area contains the text: 'Displaying possible update programming', 'In the following all update programmings of the previously listed control modules will be performed without interruption.', and '- Press <Done> button to start update programming.' On the right side, there are two links: '1. Function description' and '2. SVM code for problem-related updates'. At the bottom, there is a navigation bar with 'Operating mode', 'Go to', a printer icon, a help icon, a warning icon, and a date/time display '17.05.2012 18:20'.</p>
<p>27</p> <p>Wait until the update programming of the engine ECU is completed</p>		<p>The screenshot shows the VAS-PC software interface during the update process. The top part is identical to the previous screenshot. The main area now displays 'Job will be performed...' above a progress bar. The progress bar shows '0%' on the left and '100%' on the right, with a blue bar indicating the current progress. At the bottom right, the date and time are '03.10.2011 17:04'.</p>

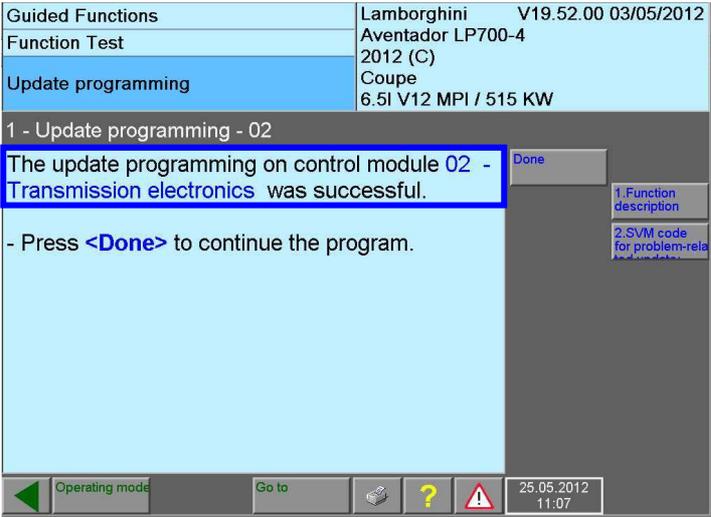
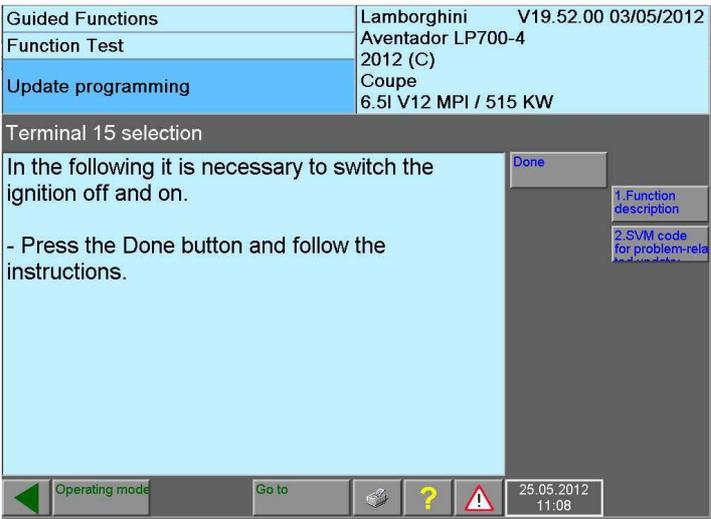
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>28</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>29</p> <p>Wait until the update programming of the gearbox ECU is completed.</p>		

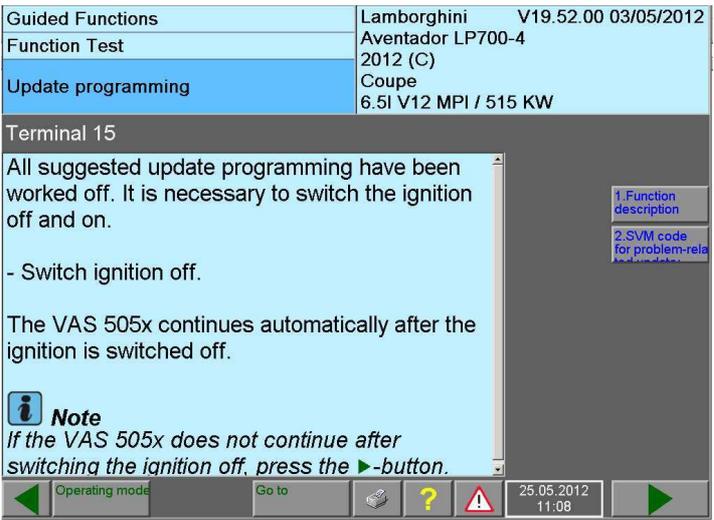
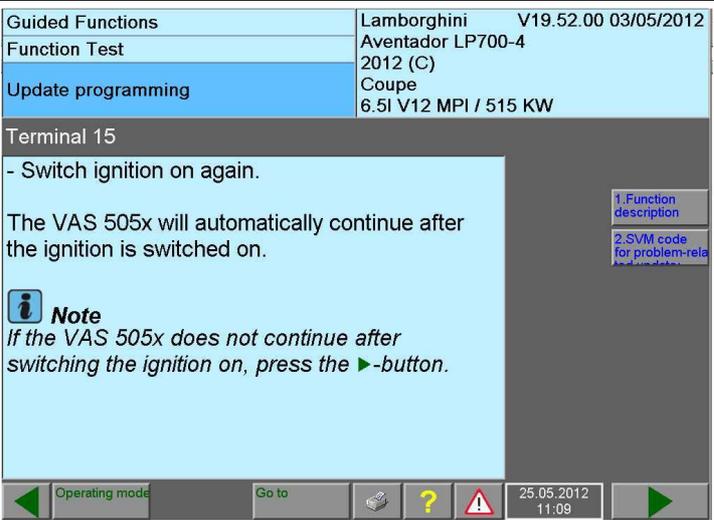
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>30</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 	 <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 dark grey bar indicates '1 - Update programming - 02'. The main area contains a message: 'The update programming on control module 02 - Transmission electronics was successful.' with a 'Done' button to its right. Below the message, it says '- Press <Done> to continue the program.' At the bottom, there is a navigation bar with 'Operating mode', 'Go to', a printer icon, a question mark icon, a warning icon, and the date/time '25.05.2012 11:07'. On the right side, there are two menu items: '1. Function description' and '2. SVM code for problem-rela'.</p>
<p>31</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 the same diagnostic tool interface as above. The header and vehicle information are identical. Below the header, a dark grey bar indicates 'Terminal 15 selection'. The main area contains the text: 'In the following it is necessary to switch the ignition off and on.' with a 'Done' button to its right. Below this, it says '- Press the Done button and follow the instructions.' At the bottom, the navigation bar is identical to the previous screenshot, but the date/time is '25.05.2012 11:08'.</p>

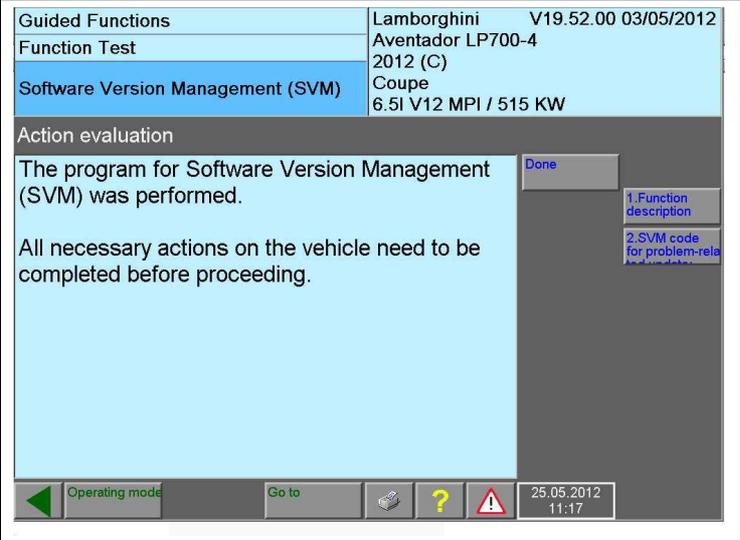
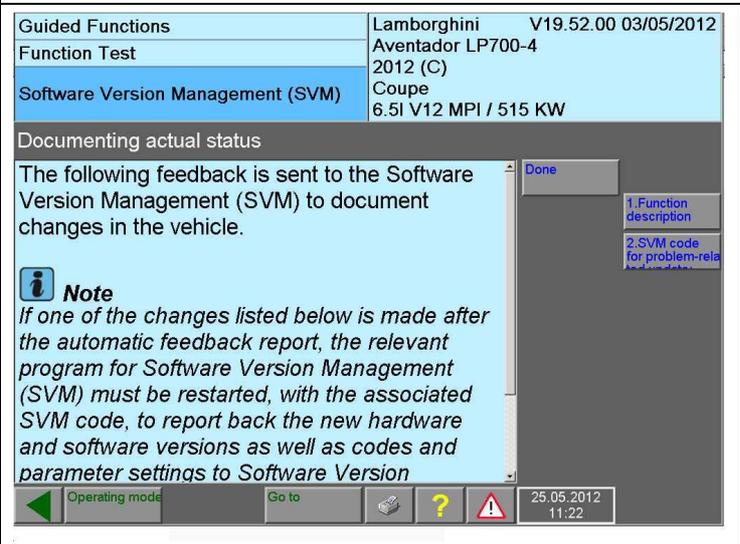
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



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

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



34	Press "Done"	
35	Press "Done" to start the data report	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>36</p>	<p>Wait until the data acquisition from all the control modules is completed</p>	
<p>37</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>	

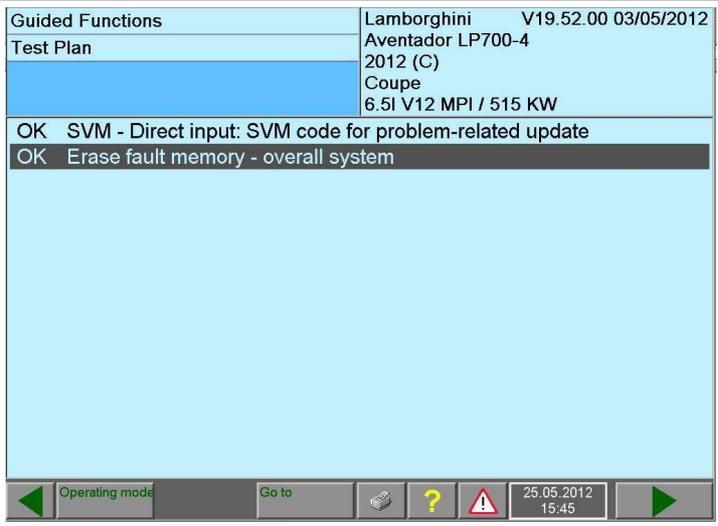
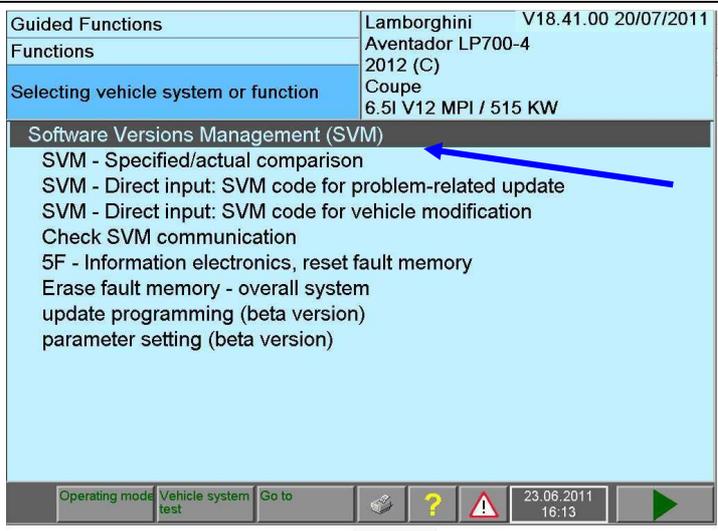
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>38 Press on “Done” to exit the program</p>	
<p>39 Go back to the Software Version Management menu clicking on </p>	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>42</p>	<p>Go back to the “Software Version Management” menu clicking on </p>	
<p>43</p>	<p>Click on “Software Version Management” in order to go back to the ECUs list.</p>	

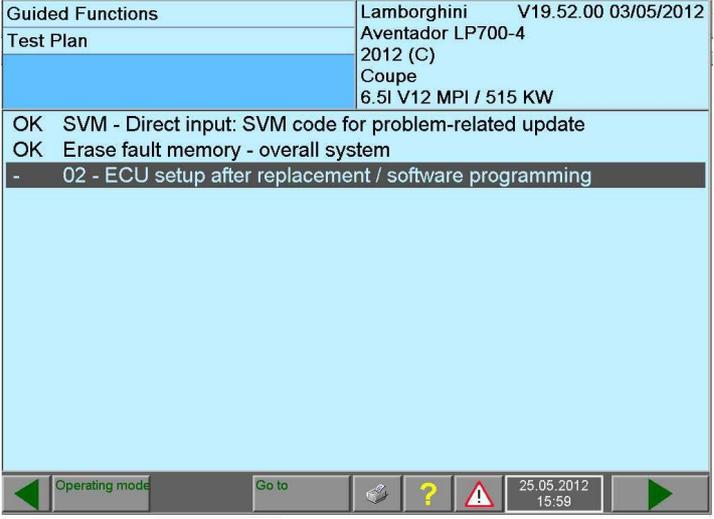
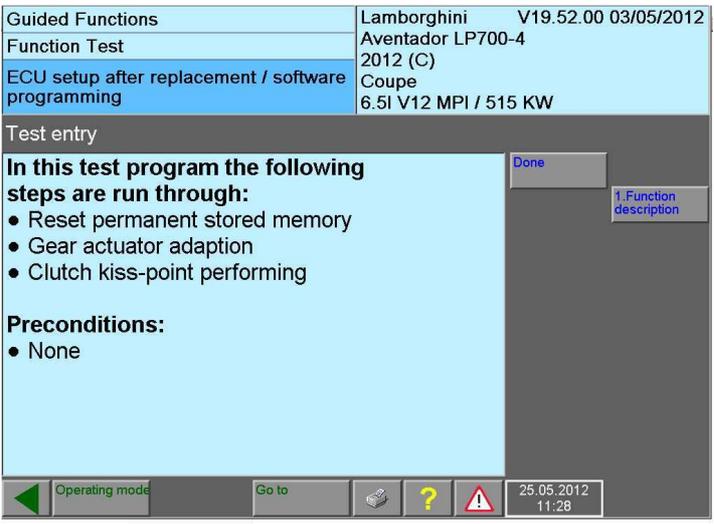
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>44 Select “02 – Gearbox electronics”</p>		
<p>45 Select the function “02 – ECU setup after replacement / software programming” in order to initialize the gearbox ECU.</p>		

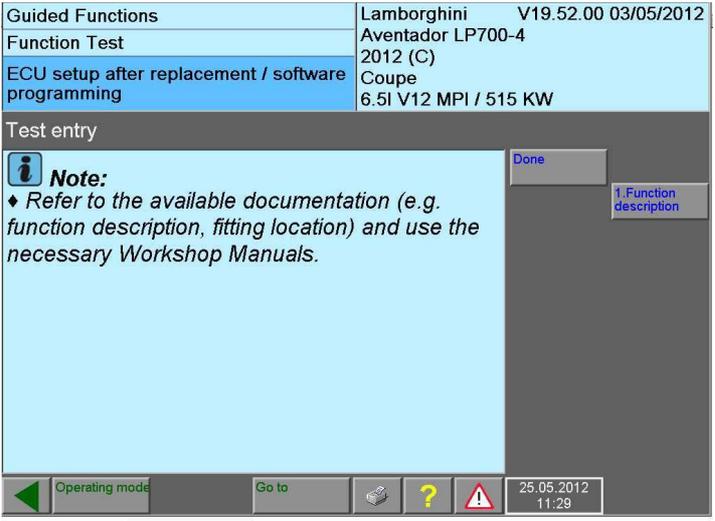
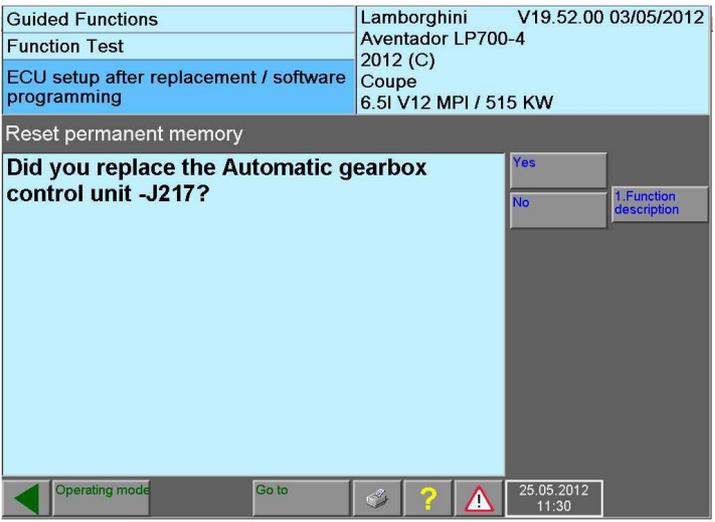
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>46</p>	<p>Execute the program clicking on </p>	
<p>47</p>	<p>Click on “Done”</p>	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



48	Click on "Done"	
49	Select "NO"	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>50 Click on “Done”</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>Interrogate gear adaption</p> <p>Next the status of the gear actuator adaption will be evaluated.</p> <p>- Press Done to continue.</p> <p>Done</p> <p>1.Function description</p> <p>Operating mode Go to ? ! 25.05.2012 11:30</p>
<p>51 Click on “Done”</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>Interrogate gear adaption</p> <p>The gear actuator adaption is not performed.</p> <p>- Next the basic setting for the gear actuator adaption will be performed.</p> <p>Done</p> <p>1.Function description</p> <p>Operating mode Go to ? ! 25.05.2012 11:31</p>

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>52</p> <p>Click on “Done” in order to execute the gear adaption.</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. The main area contains the following conditions:</p> <ul style="list-style-type: none"> ◆ Transmission in Neutral ◆ Engine speed = 0 ◆ Vehicle speed = 0 ◆ Fully pressurised hydraulic system <p>On the right side, there is a 'Done' button and a '1. Function description' button. 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 11:31'.</p>
<p>53</p> <p>Confirm clicking on “Yes”</p>	<p>This screenshot is similar to the previous one but shows a confirmation dialog. The main text reads: 'Each gear will be shift 5 times (5x) responsively with Neutral position in following order:'. Below this is a numbered list:</p> <ol style="list-style-type: none"> 1. Gear 1 - Neutral 2. Reverse - Neutral 3. Gear 2 - Neutral 4. Gear 4 - Neutral 5. Gear 3 - Neutral 6. Gear 5 - Neutral 7. Gear 6 - Neutral 8. Gear 7 - Neutral <p>The dialog asks: 'Do you want to perform the basic setting now?'. On the right, there are 'Yes' and 'No' buttons, along with a '1. Function description' button. The bottom navigation bar is identical to the previous screenshot.</p>

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>54</p>	<p>Wait until the gear adaption procedure is completed. Gear engagements can be checked directly from the instrument cluster.</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>Note: ♦ The activity is displayed in the Instrument cluster of the car.</p> <p>Please wait</p> <p>0 sec 6 sec 110 sec</p> <p>Operating mode Go to ? ! 25.05.2012 11:32</p>
<p>55</p>	<p>Click on “Done” to continue.</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>Evaluate gear adaptation</p> <p>Next the status of the gear actuator adaption will be evaluated.</p> <p>- Press Done to continue.</p> <p>Done</p> <p>Operating mode Go to ? ! 25.05.2012 11:34</p>

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>56</p>	<p>Click on “Done” in order to perform the Kiss Point adaption.</p>	
<p>57</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 46 	

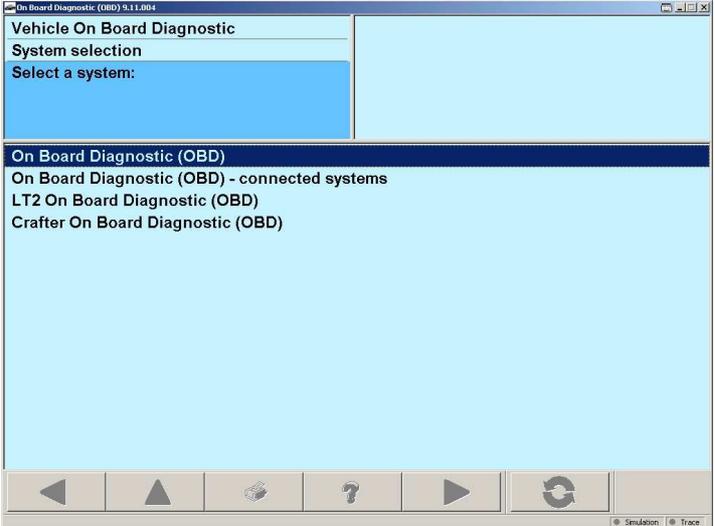
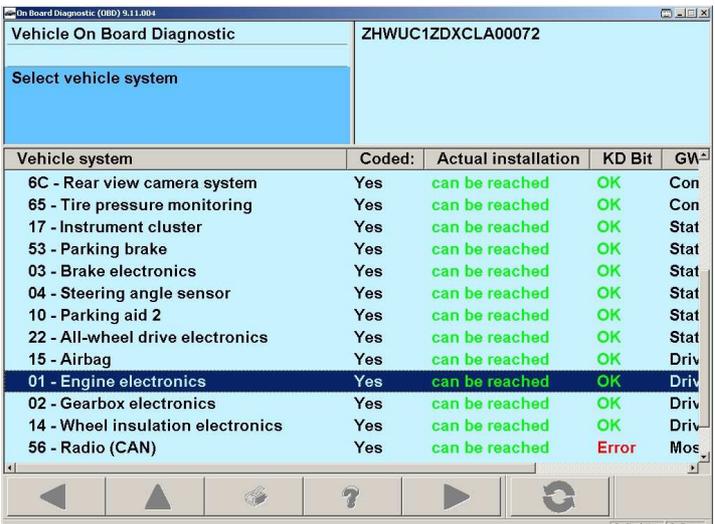
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>58</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 46 	
<p>59</p>	<p>Select “Operating Mode” and then click on “Vehicle Self-Diagnosis”</p>	

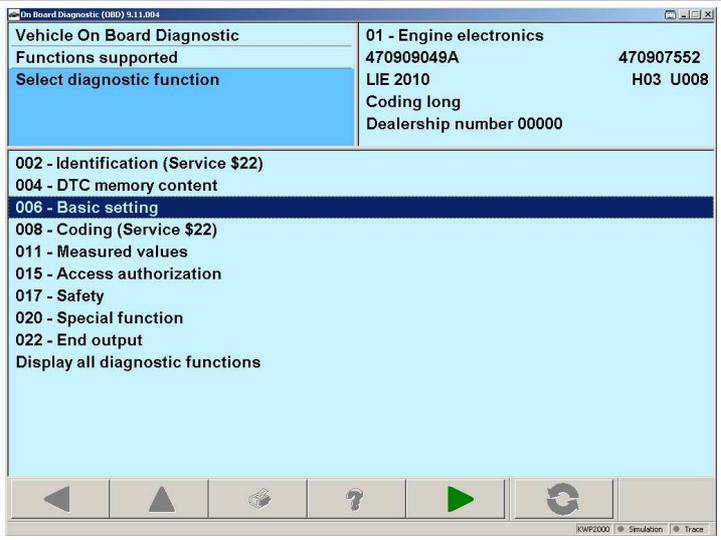
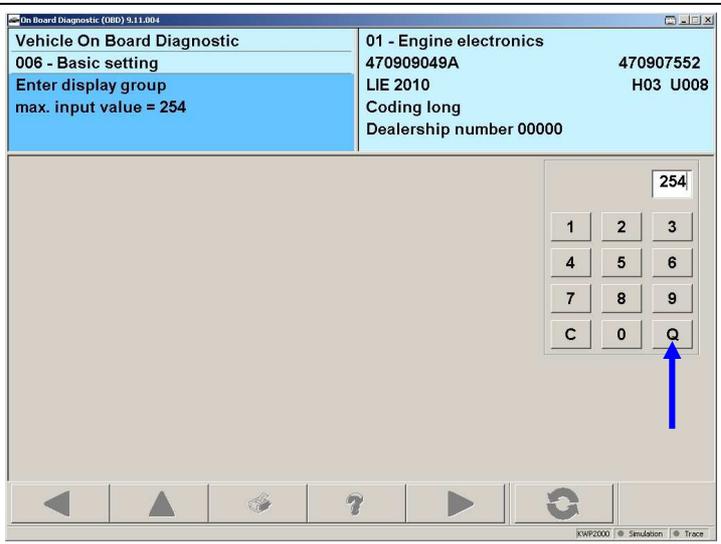
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>60</p>	<p>Select “On Board Diagnostic (OBD)” and then click on </p>																																																																							
<p>61</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
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																																																																				

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>62</p>	<p>Select “Basic Settings” and then confirm clicking on </p>	
<p>63</p>	<p>Insert the value 254 and then confirm clicking on “Q”</p>	

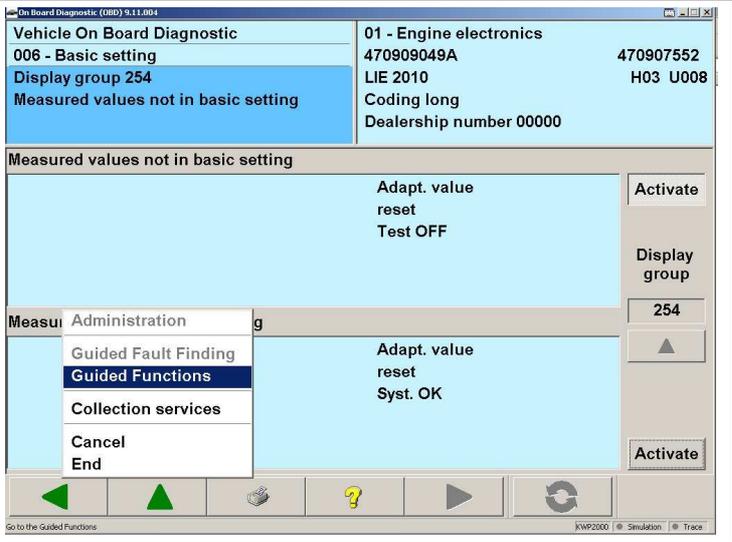
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>64</p>	<p>Click on “Activate” on bottom right in order to start the reset for auto adaptation values.</p>	
<p>65</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 61	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>66</p>	<p>Go back to the test plan clicking on the button  and then selecting “Guided Functions”</p>	
<p>67</p>	<p>Click on “OK”</p>	

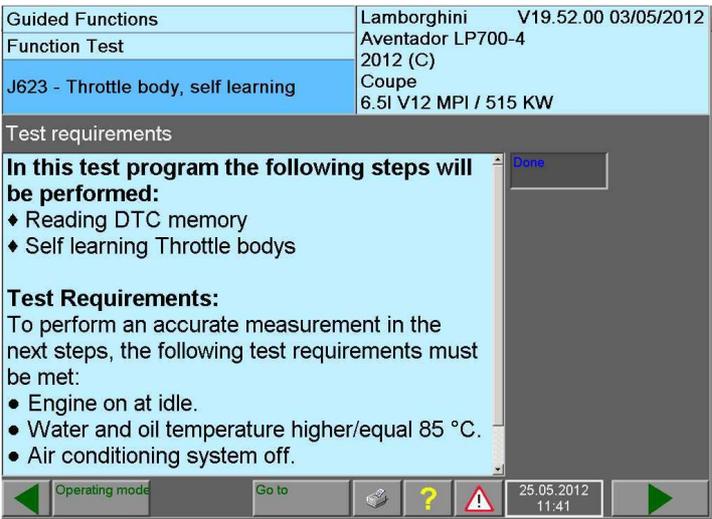
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>70 Select “01 – Engine electronics”</p>		
<p>71 Select the program “01 – Throttle bodies, self learning”</p>		

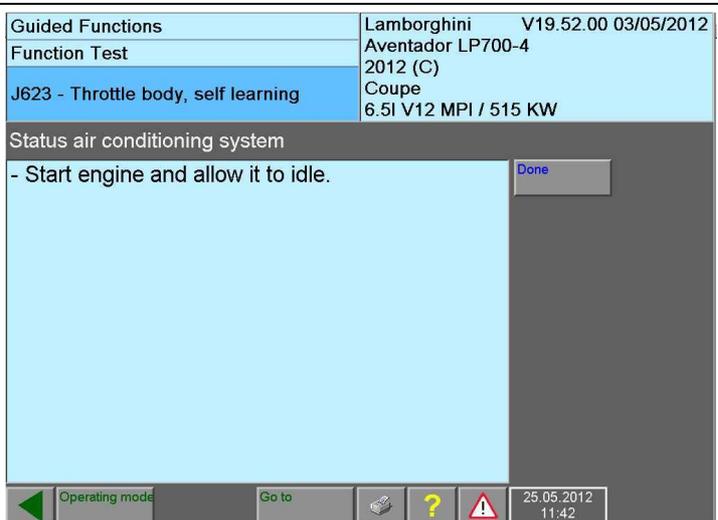
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>72</p> <p>Execute the program clicking on </p>		
<p>73</p> <p>Be sure that Air Conditioning is OFF</p> <p>Cliccare su “Done”</p>		

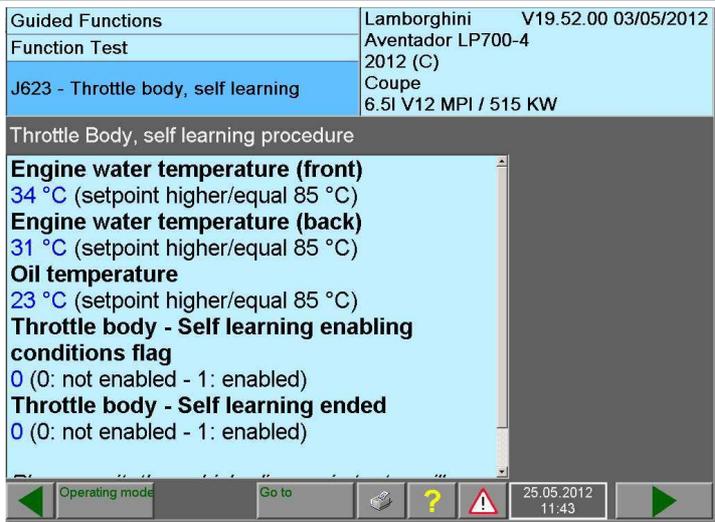
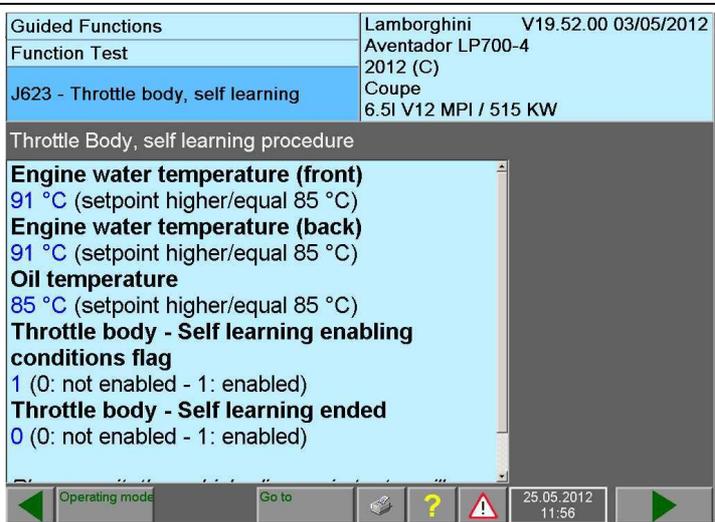
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>74</p> <p>Switch the ignition ON. Click on “Done”</p>	
<p>75</p> <p>Start the engine at idle. Click on “Done”</p>	

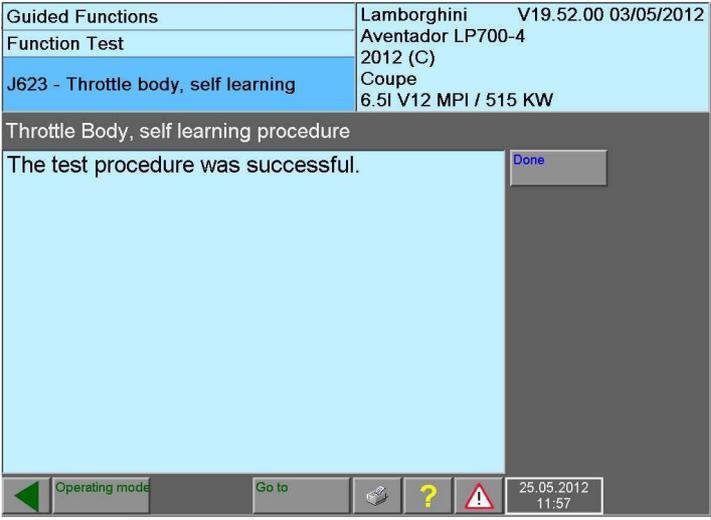
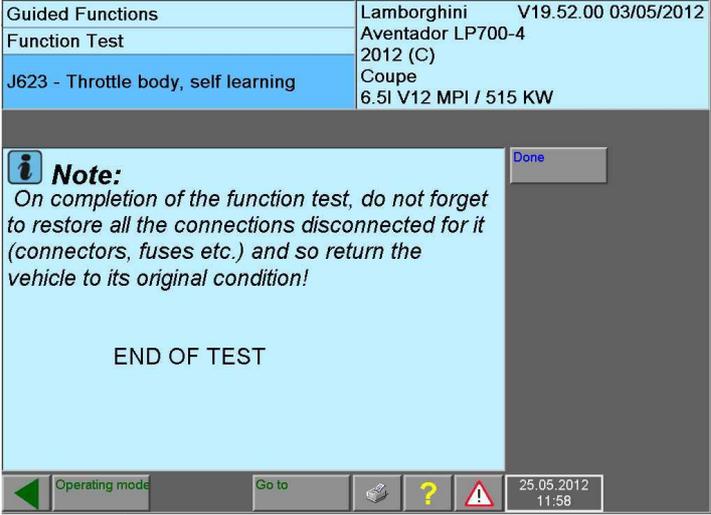
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>76</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 2012 (C) J623 - Throttle body, self learning: 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>77</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 2012 (C) J623 - Throttle body, self learning: 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>

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.

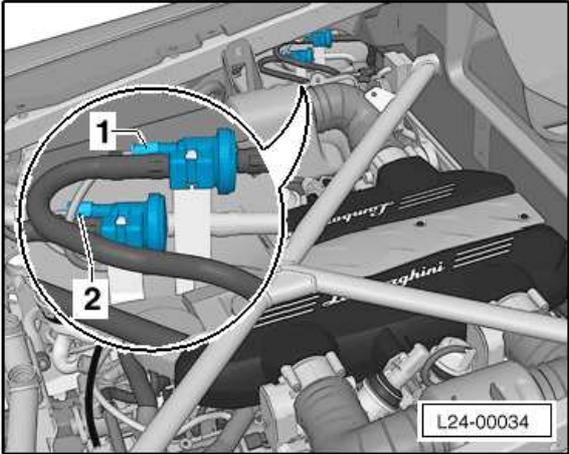
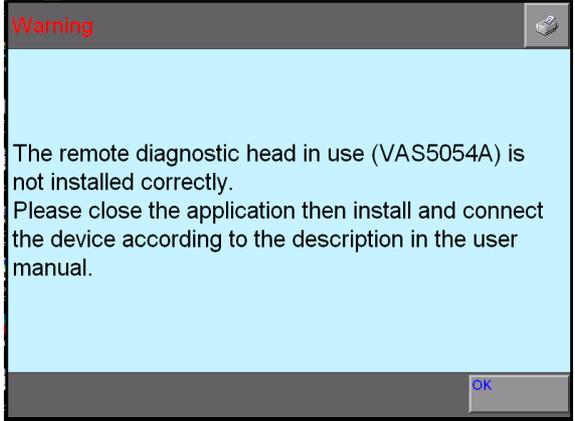


<p>78</p> <p>If the self learning is completed successfully a screen as in the picture beside is shown. Click on “Done”.</p> <p>If in 10 minutes from the activation the procedure has not been completed, interrupt and check if:</p> <ul style="list-style-type: none"> • air conditioning is OFF • DTC memory of Engine ECU is empty <p>Switch the ignition OFF for at least 1 minute and repeat the program.</p>	
<p>79</p> <p>Click on “Done” in order to end the program.</p>	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



Troubleshooting

<p>A.</p>	<p>If, after the software programming, the following fault codes are stored into the DTC memory of the Engine ECU:</p> <p>01089 P0441 000 EVAP Emission Contr.Sys. Incorrect Purge Flow Sporadic</p> <p>05268 P1494 000 EVAP Emission Contr.Sys. 2 Incorrect Purge Flow Sporadic</p> <p>it is possible that purge electrovalve's connectors are swapped. Connect the connector with the white label at the purge electrovalve for bank right (n.1 in the picture beside) and the connector with the yellow label at the purge electrovalve for bank left (n.2 in the picture beside). Erase the DTC memory of the Engine ECU and perform again the Self-learning procedure starting from step 72</p>	
<p>B.</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 	

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



<p>C.</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>D.</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 	

Your Area Manager is at full disposal for further information.

Best regards

Customer Service

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.