



To All Lamborghini Dealers and Licensed Service Point  
From After Sales Department  
Subject Engine and Gearbox Software Upgrade.  
Group 10.02.00  
Date 25<sup>th</sup>/10/2013  
Pages 46

### **Subject**

Engine and gearbox software upgrade.

### **Model**

Lamborghini Aventador Coupè and Roadster MY 2012, 2013 and 2014 versions  
LP700-4, from VIN CLA00091 to ELA02066

**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 result of continuous product monitoring, Automobili Lamborghini Spa has found that sporadically, while under acceleration in automatic mode, the rev limiter may engage prematurely instead of upshifting.

### **Field solution**

Upgrade the engine and related gearbox software.

---

*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.*



## Warranty Claim data

In order to obtain the campaign reimbursement, access to Lamborghini Web Portal, Warranty section and fill in the Warranty Claim. It is possible to find the claim procedure on the W.Claim Manual you can even download from the Portal.

The documents to be mandatory attached to the claim are:

- Job order done
- Diagnosis Protocol saved

Failure to follow the procedures may lead to the rejection of the request.

**Campaign Code:** L83X-A.03.13  
**Campaign Description:** Engine And Gearbox SW Upgrade  
**Cost Code:** 50  
**Component Code:** CCA00313  
**Trouble Code:** 220  
**Labour Code:** CCA0313100  
**Labour Time:** 1 h

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

Automobili Lamborghini S.p.A.			
Campagne service assistenza e campagne di richiamo / Service-und Rückrufaktion / Service and Recall Campaign			
Service et campagne de rappel / Campaña de Servicio y Llamada a Taller			
Service/Service Servizio/Servicio	<input type="checkbox"/>	Richiamo/Rückruf Recall/Rappel Llamada a Taller	<input type="checkbox"/>
Numero/Number Número/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 Effectué par le concessionnaire / Efectuado por el Concesionario			
Firma / Unterschrift / Signature / Signature / Firma			
Service/Service Servizio/Servicio	<input type="checkbox"/>	Richiamo/Rückruf Recall/Rappel Llamada a Taller	<input type="checkbox"/>
Numero/Number Número/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 Effectué par le concessionnaire / Efectuado por el Concesionario			
Firma / Unterschrift / Signature / Signature / Firma			

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



The instructions contained in this bulletin are based on ODIS Service diagnosis software (see information bulletin BI.05.13)

### Preliminary operations:

1

Assicuratevi di esservi sincronizzati recentemente con il Mirrorserver controllando la data di ultima sincronizzazione su:

<http://mirrorserver/welcome>

oppure su

[http://IP\\_address/welcome](http://IP_address/welcome)

se non avete in precedenza definito l'alias per l'IP address del mirrorserver

## IMPORTANT

Assicuratevi che l'ultima sincronizzazione sia stata fatta in una data successiva al 07 ottobre

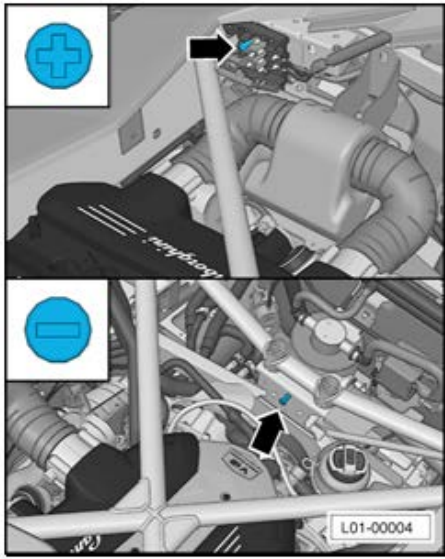
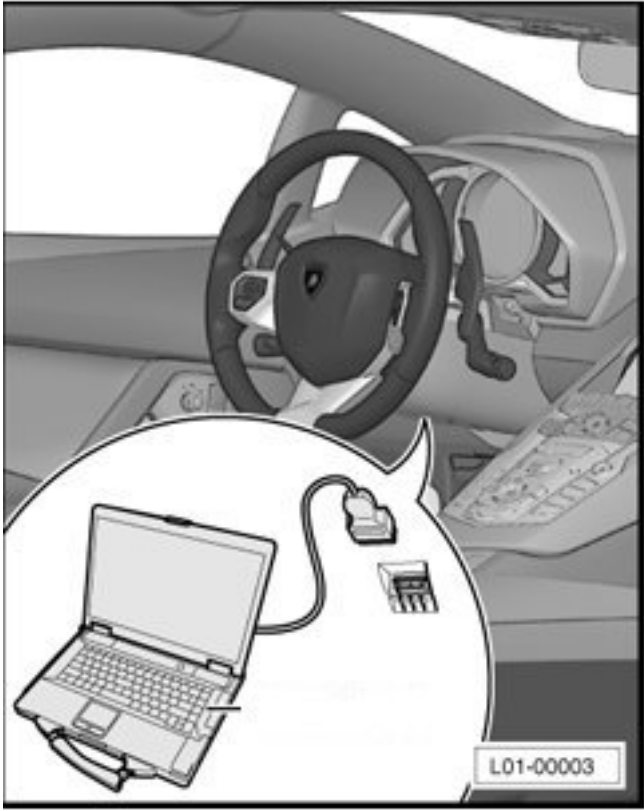
You have successfully installed your MirrorServer/2 NOS-Box.

Testing the connection to the configured Provider Server. Please wait a moment, this takes some time ...

Configuration	
Base path	/var/www/desert
Provider URL	https://altair.mirrorserver2.net/deployment
Repository URL	https://altair.mirrorserver2.net/storage
Feedback URL	https://altair.mirrorserver2.net/health
Proxy	http://svc_blackbox? @10.197.179.43:8080
Key file	/var/www/desert/certs/userkey.pem
Certificate	/var/www/desert/certs/usercert.pem
Tests	
Provider WebDAV access	OK (/deployment/)
Repository WebDAV access	OK (/storage/)
Feedback WebDAV access	OK (/health/)
Successful package downloads	5
Failed package downloads	0
Last Sync	07-10-13 at 22-10-17



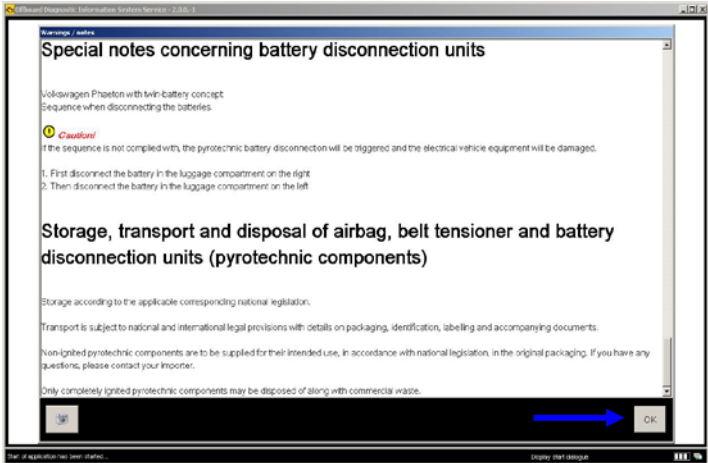
*The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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>	


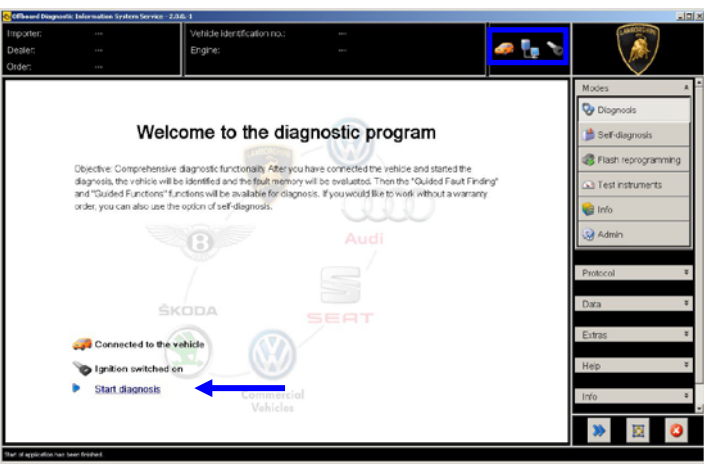
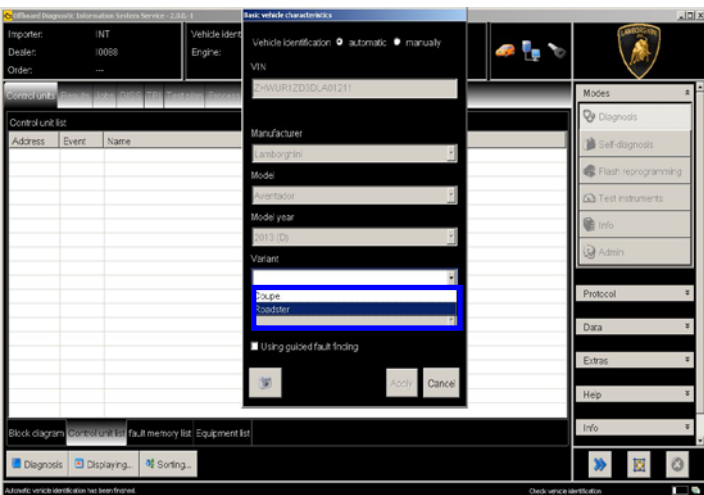
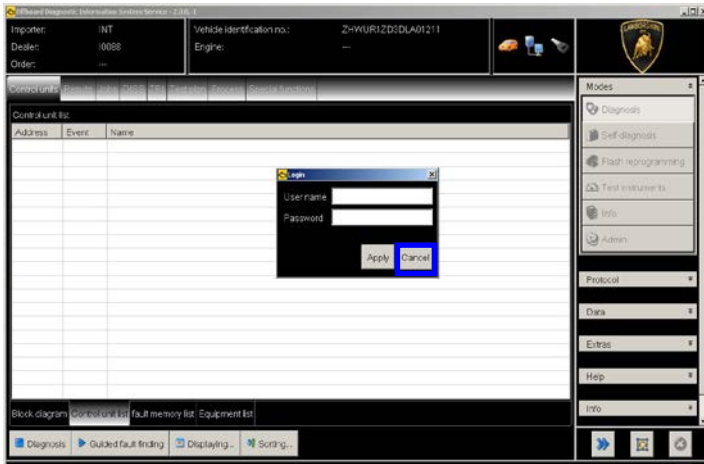
*The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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.*



3	Start the ODIS Service double clicking on the related icon on the desktop of the diagnosis laptop.	
4	Select Offboard Diagnostic Information System Service clicking on it.	
5	<p>Scroll down the right side vertical bar.</p> <p>Click on “OK” to hide the general information 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.*

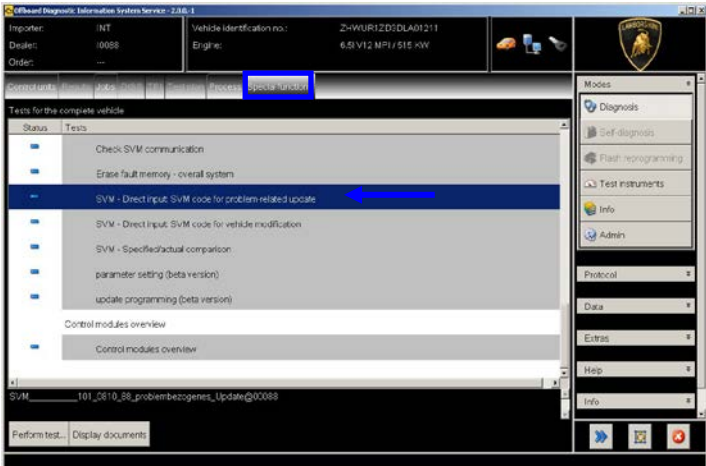
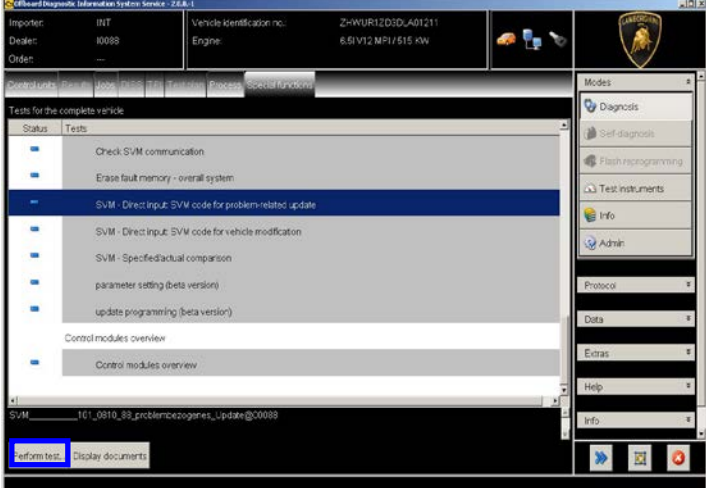
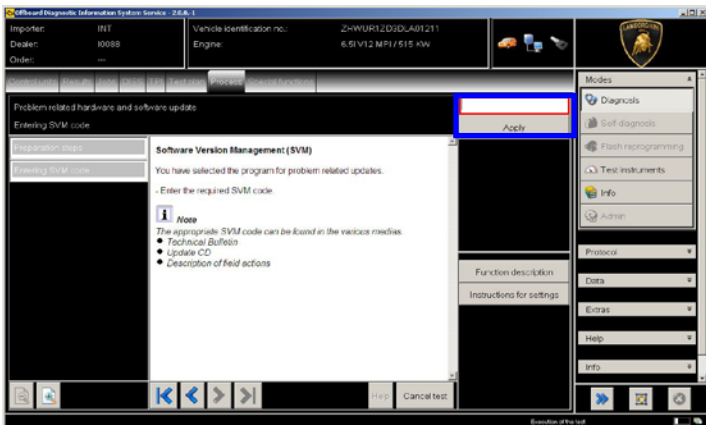


<p>6</p>	<p>Select “Start diagnosis”.</p> <p></p> <p>Make sure that ODIS can detect the vehicle connection status and the key ON.</p>	
<p>7</p>	<p>Check the vehicle identification on the window “Basic vehicle characteristics”.</p> <p>Select the Variant in the related menu</p> <p>Deselect the checkbox “Using guided fault finding”</p> <p>Click “Apply”</p>	
<p>8</p>	<p>Skip the Login window by clicking “Cancel”</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.

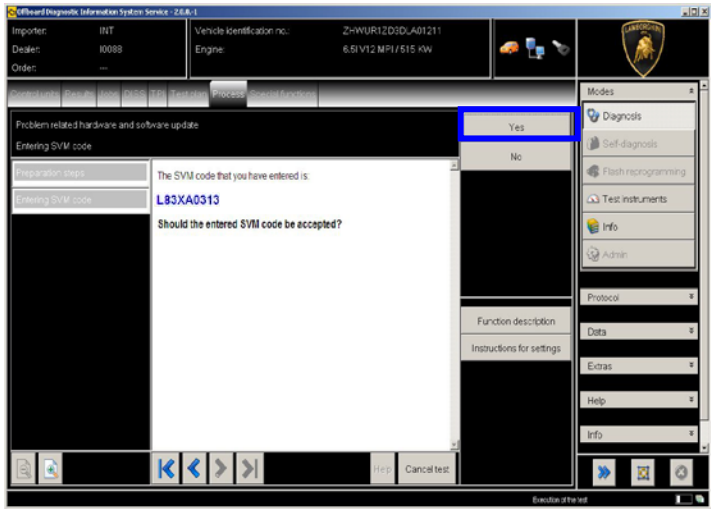
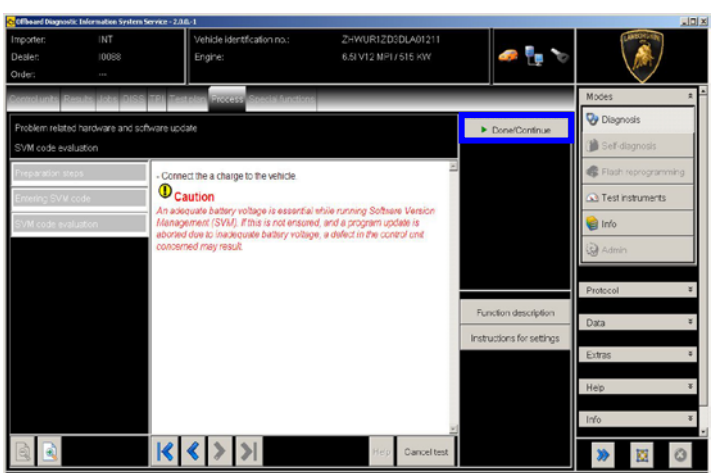
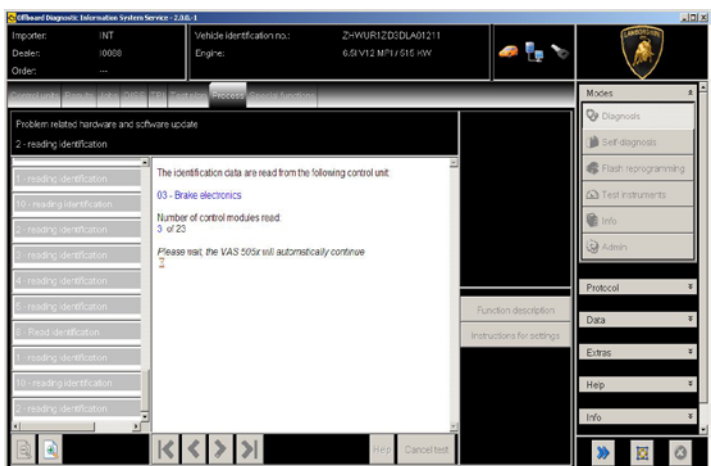




9	<p>At the end of start-up procedure (see status in the progress bar bottom right), move on the ODIS tab “Special functions” now available.</p> <p>Select “<b>SVM – Direct input: SVM code for problem related update</b>” by clicking the related row with the mouse.</p>	
10	<p>Click “Perform test...” to execute the SVM function</p>	
11	<p>Insert in the upper box with the cursor the code <b>L83XA0313</b></p> <p>Click “Apply”</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.*

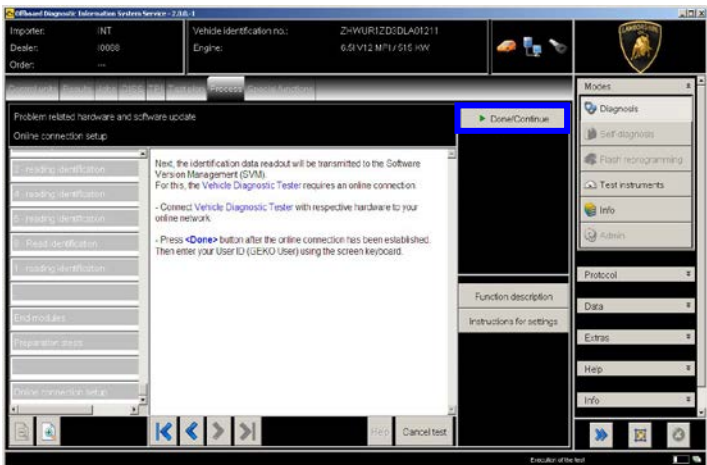



12	Confirm that the inserted code is correct clicking on “Yes”.	
13	Click on “Done/Continue” to start the data acquisition from all the vehicle’s ECUs.	
14	Wait until the data acquisition from all control modules is completed.	

*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>15</p>	<p>For the online authentication a valid GeKo account is necessary.</p> <p><u>Be sure that your internet connection is working properly.</u></p> <p>Click on “Done/Continue” to access the Login window.</p>	
<p>16</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.</p> <p>Then confirm clicking on “Apply”.</p>	

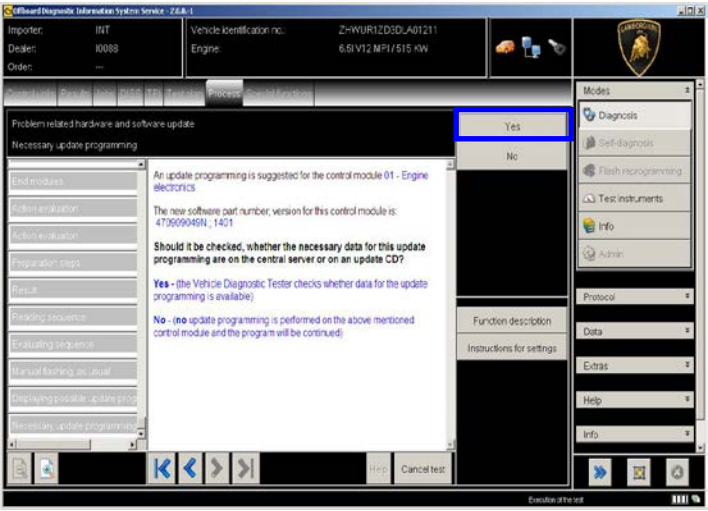
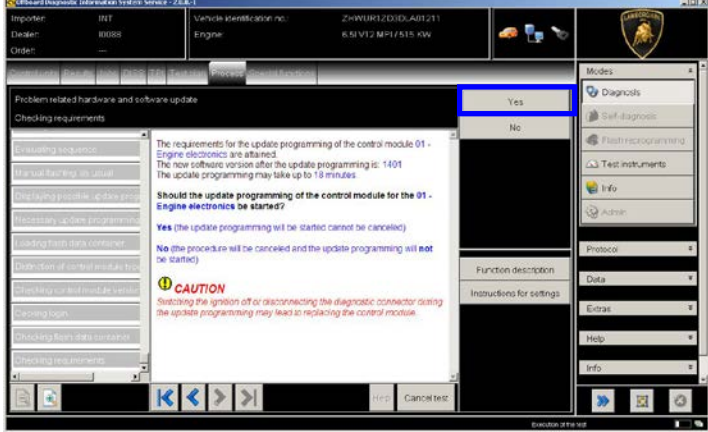
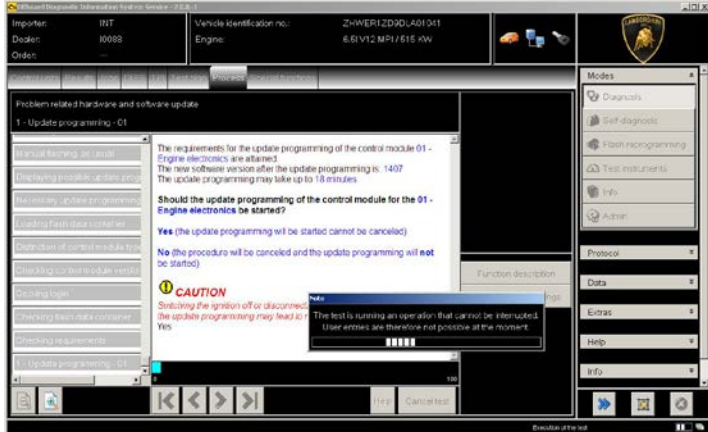
*The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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>17</p>	<p>The communication is then established with the central server. At the end of communication you can receive 2 possible feed-backs:</p> <ul style="list-style-type: none"> <li>- update programming must be performed on one control module (1)</li> <li>or</li> <li>- update programming must be performed on 2 control modules (2)</li> <li>or</li> <li>- no software update required (3)</li> </ul> <p>If the message (1) is shown, continue the procedure with the following instruction,</p> <p>while</p> <p>if the message (2) is shown, go to step <b>51</b> in order to continue the procedure.</p> <p>If the result (3) is displayed, the ECUs are already updated. In this case click “Done/Continue” to end.</p> <p>Click on “Done/Continue”</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><b>18</b></p>	<p>Displayed new engine software part number and version that will be different depending on the market and according to car's equipment.</p> <p>Click on "Yes" to continue.</p>	
<p><b>19</b></p>	<p>Click on "Yes" in order to start the update programming of Engine ECU.</p>	
<p><b>20</b></p>	<p>Wait until the update programming of the engine 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>21</p>	<p>Once the update programming has been completed successfully a feedback as in the picture beside is displayed. Click “Done/Continue”.</p> <p>If the update programming has not been completed or has been unsuccessful:</p> <ul style="list-style-type: none"> <li>- turn the ignition OFF</li> <li>- wait 1 minute before turning the ignition ON again</li> <li>- if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step 9</li> </ul>	
<p>22</p>	<p>In the following an ignition OFF – ON cycle is necessary to re-start both the ECU.</p> <p>Press “Done/Continue” to continue.</p>	
<p>23</p>	<p>Switch the ignition OFF.</p> <p>Press “Done/Continue”</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.



24	<p><b><u>Wait 1 minute before switching the ignition back ON again.</u></b></p> <p>Then press “Done/Continue” to continue.</p>	
25	<p>Press “Done/Continue”</p>	
26	<p>Press “Done/Continue” to start the data report.</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.*



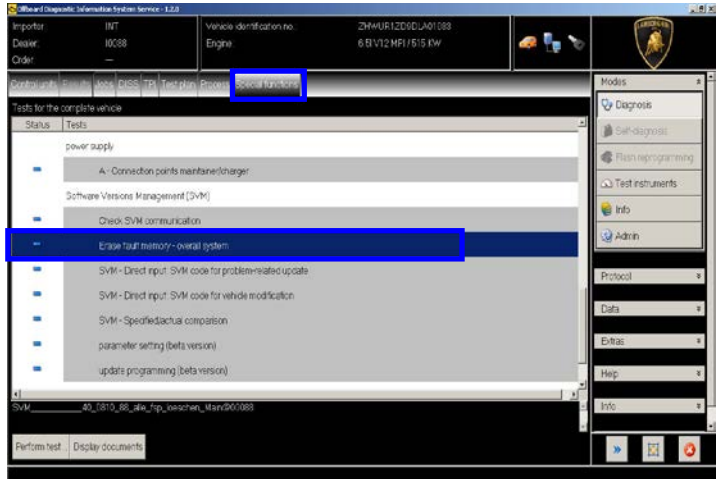
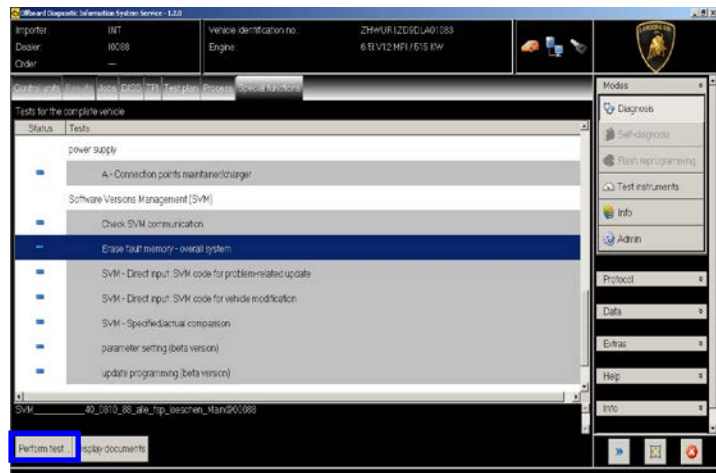
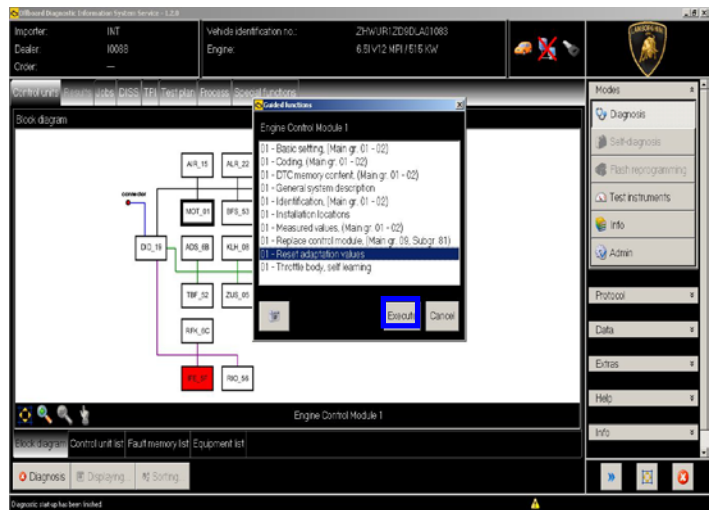


27	Wait until the data acquisition from all the control modules is completed.	
28	Once the data report has been sent to the servers a feedback as in the picture beside is displayed. The software update of engine ECU has been completed successfully and all the information have been stored in the system.  Press “Done/Continue”.	
29	Press “Done/Continue” to exit the program.	

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.

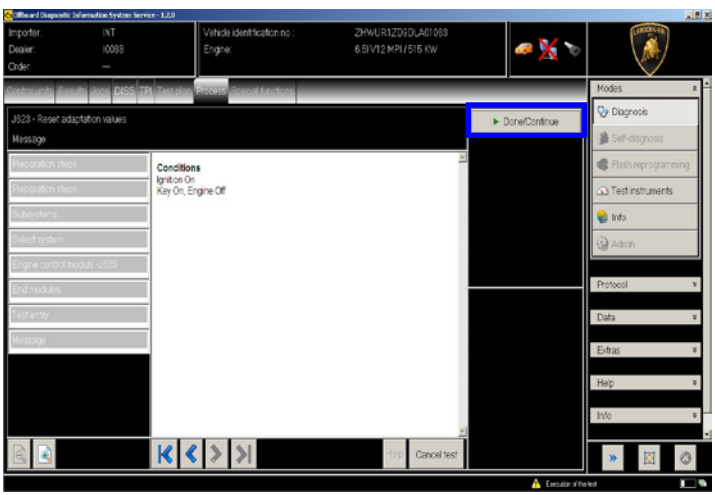
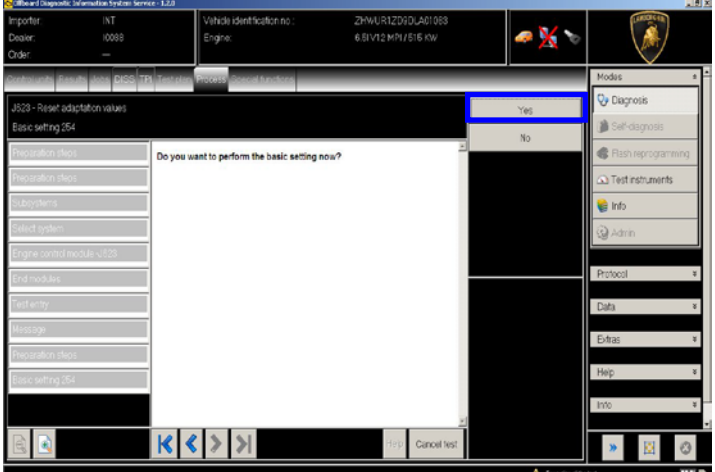
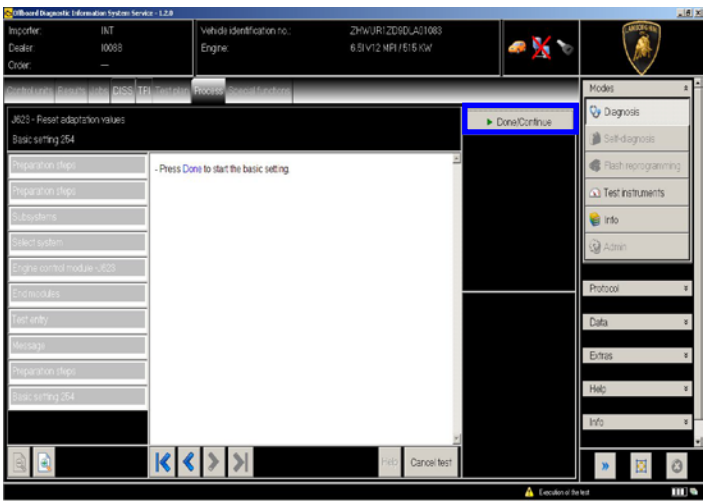




30	<p>Go back to the tab “Special functions” and select “Erase fault memory – overall system” to clear all the faults stored because of the recent software update.</p>	
31	<p>Execute the program “Erase fault memory – overall system” clicking on “Perform test...”</p>	
32	<p>Go back to the Control Unit tab (block diagram or list view), to select the Engine ECU MOT_01 and the Guided Function</p> <p>01 – Reset adaptation values</p> <p>Click “Execute” to start the procedure for resetting the adaptation values (Basic Setting 254)</p>	

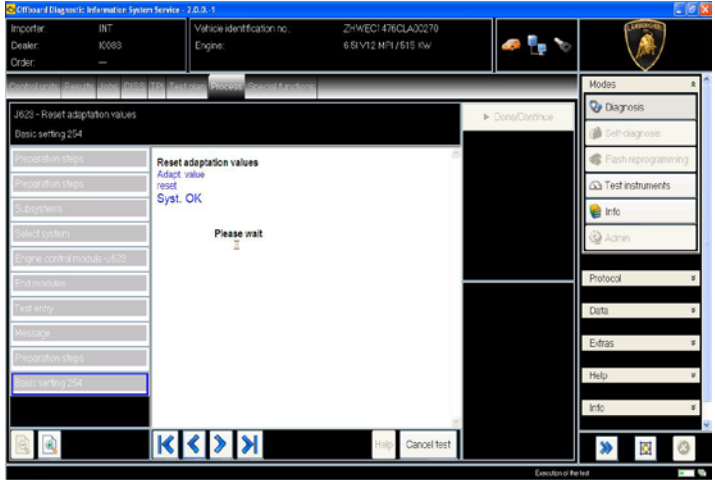
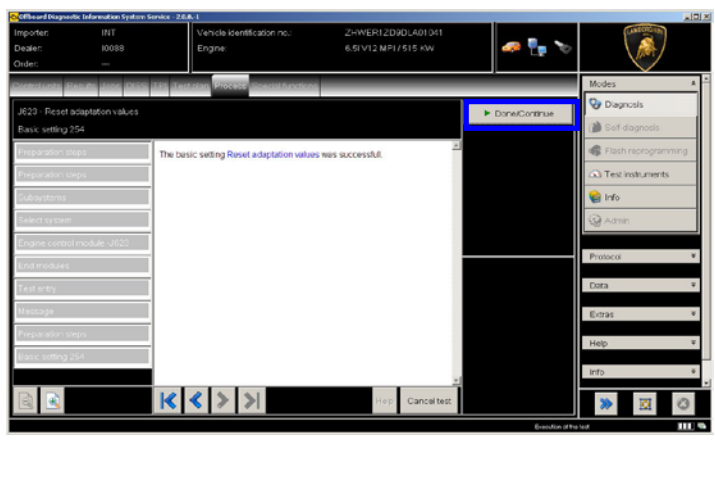
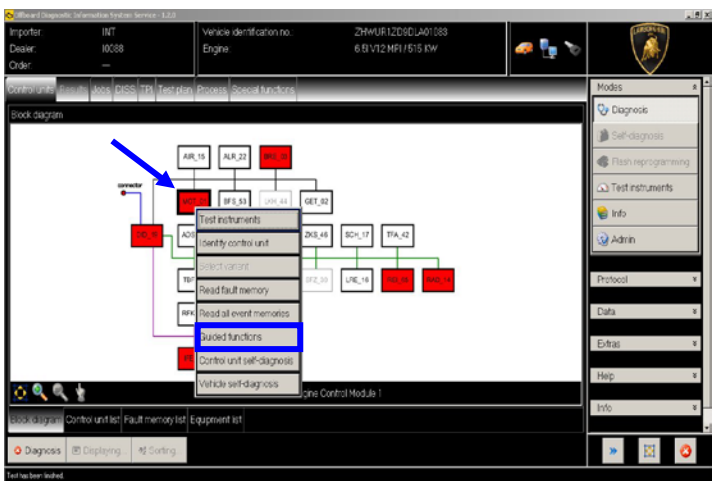
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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><b>33</b></p>	<p>Be sure the activation conditions are respected:</p> <ul style="list-style-type: none"> <li>- Key ON</li> <li>- Engine OFF</li> <li>- No faults stored in the Engine ECU's memory</li> </ul> <p>Press "Done/Continue"</p>	
<p><b>34</b></p>	<p>Click "Yes" to continue</p>	
<p><b>35</b></p>	<p>Click "Done/Continue" to perform the basic setting</p>	

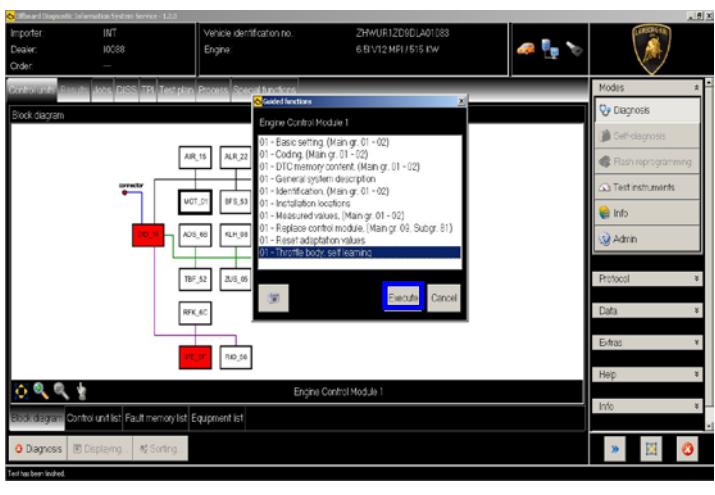
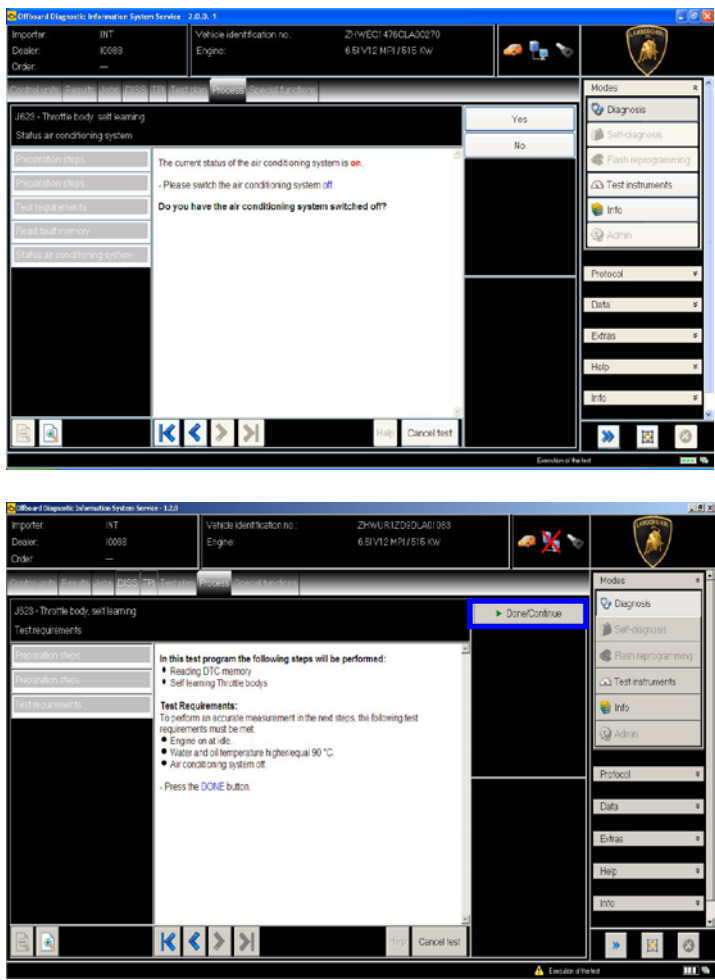
*The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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>36</p>	<p>Wait until the feedback message is shown.</p> <p>If the procedure has been performed successfully the message “<b>Syst.OK</b>” will appear, as shown in the picture beside.</p>	
<p>37</p>	<p>If the procedure has not been performed successfully:</p> <ul style="list-style-type: none"> <li>• turn the ignition OFF</li> <li>• wait at least 1 minute before turn the ignition ON again</li> <li>• repeat the program from step 32</li> </ul> <p>Click “Done/Continue” to exit the basic setting</p>	
<p>38</p>	<p>Go back to the Control Unit tab (block diagram or list view), to select the Engine ECU MOT_01 and the Guided Function.</p>	

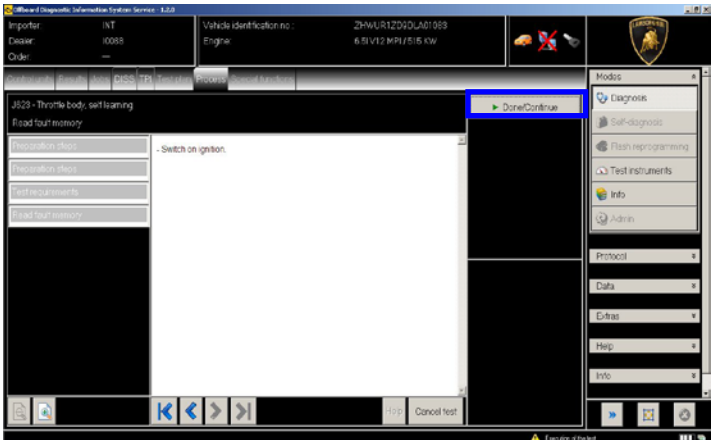
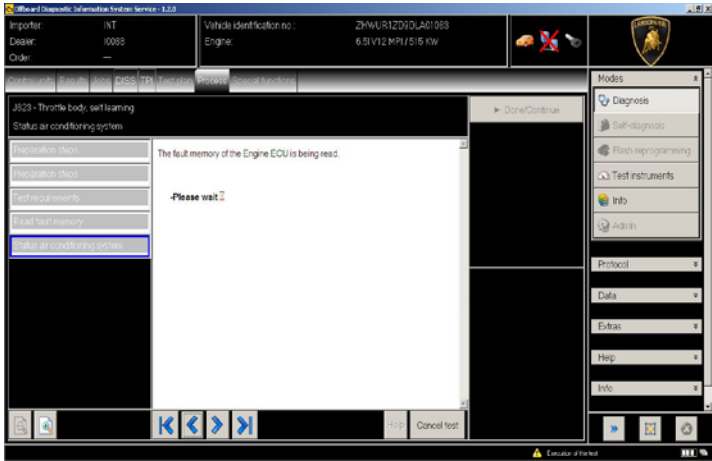
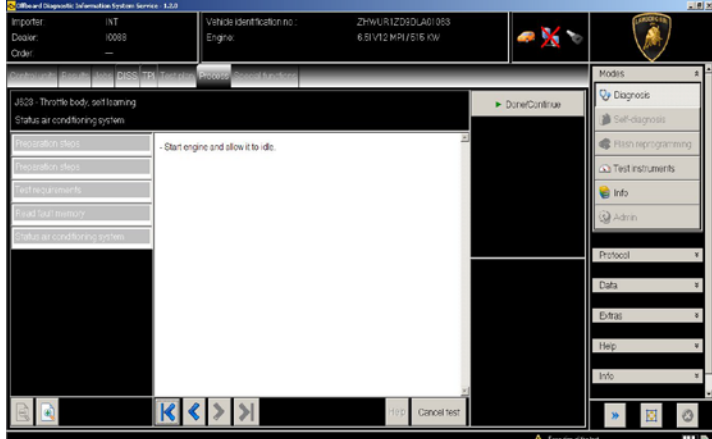
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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>39</p>	<p>Select the program</p> <p>“01 – Throttle bodies, self learning”</p> <p>And execute clicking on “Execute”.</p>	
<p>40</p>	<p><b>Be sure that Air Conditioning is OFF</b></p> <p>The prerequisites for the test are summarized</p> <p>Press “Done/Continue”</p>	

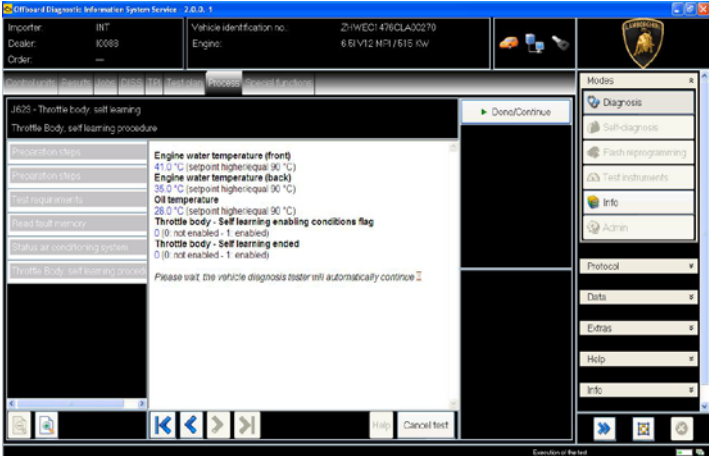
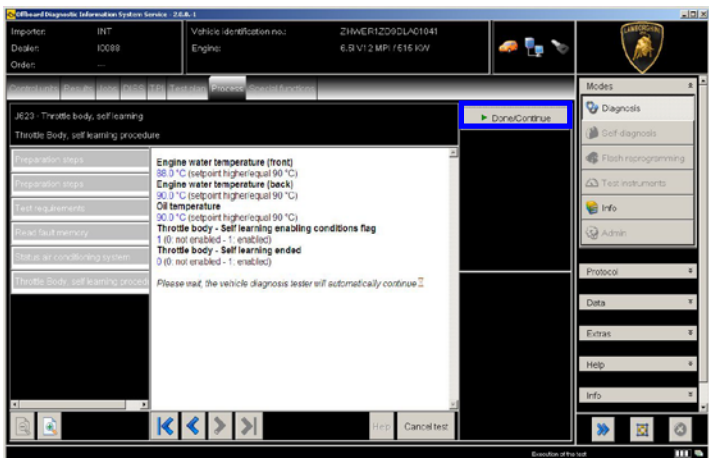
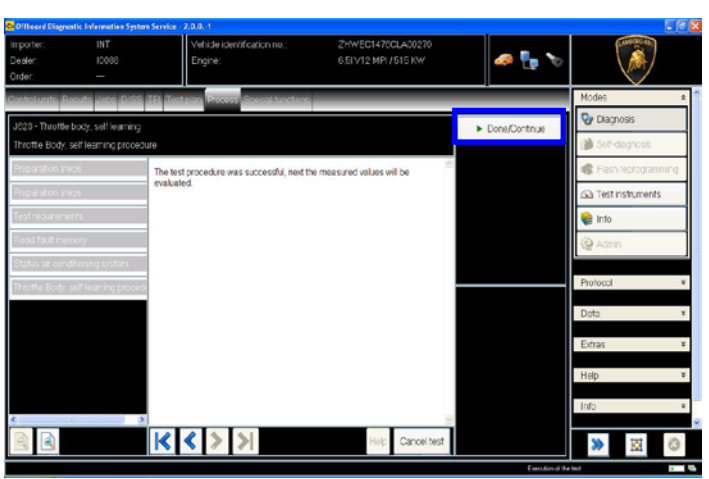
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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>41</p>	<p>Switch the ignition ON. Click “Done/Continue”</p>	 
<p>42</p>	<p>Start the engine at idle. Click “Done/Continue”</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.

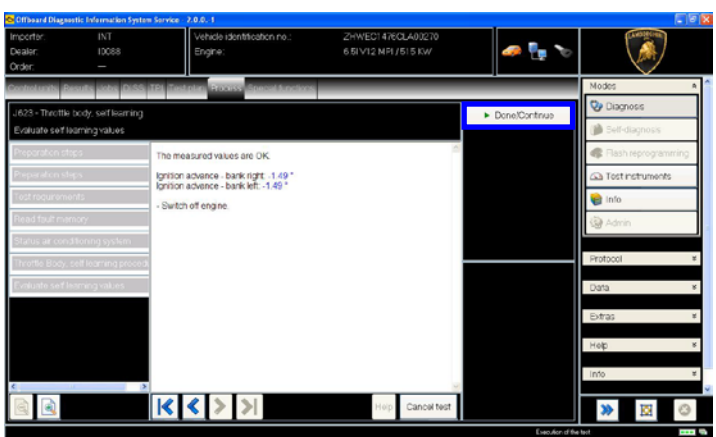
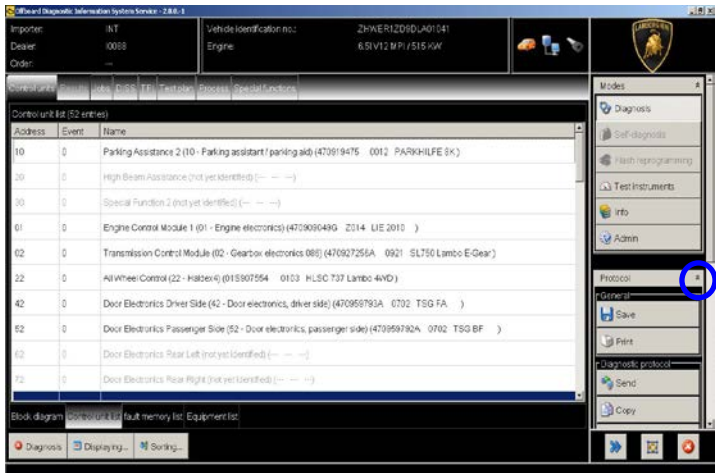
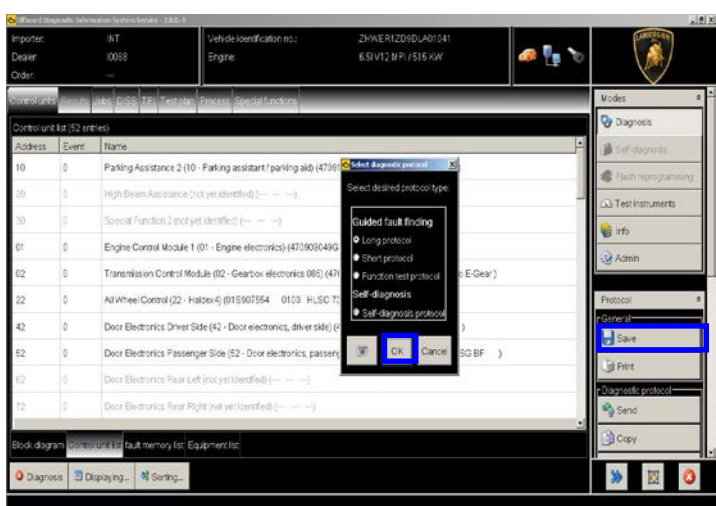


<p><b>43</b></p>	<p>Self learning is an automatic procedure and it is activated when engine water and oil temperature exceed 90 °C</p> <p>Check the parameters from ODIS and wait until water and oil temperatures reach the target</p> <p>Don't perform any action on the car (e.g. pushing the accelerator pedal) if not necessary.</p>	
<p><b>44</b></p>	<p>Once reached the activation conditions (water and oil temperatures major than 90°C) the “Throttle body – Self learning enabling conditions flag” changes from 0 to 1 indicating the start of the self learning procedure.</p>	
<p><b>45</b></p>	<p>If the self learning is completed successfully a screen as in the picture beside is shown. Click “Done/Continue” to display the ignition advance values.</p> <p>If in 10 minutes from the activation the procedure has not been completed, interrupt and:</p> <ul style="list-style-type: none"> <li>• Switch the ignition OFF</li> <li>• Wait 1 minute before redo the ignition ON</li> <li>• Restart the procedure from step 38</li> </ul>	

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.


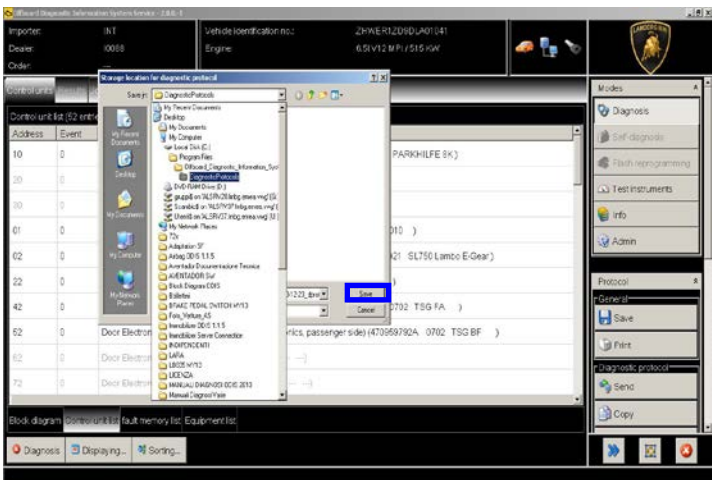




<p>46</p>	<p>Have a look to the ignition advance values, that must be inside the range <math>[-2^{\circ} \ 3^{\circ}]</math></p> <p>In the case those values were outside the range, restart the procedure from step 38 after an ignition switch OFF for at least 1 minute.</p> <p>Switch the engine OFF and press “Done/Continue” to exit the program.</p>	
<p>47</p>	<p>At the end of previous steps, expand the menu “Protocol” on the right side (menu bar)</p>	
<p>48</p>	<p>Click “Save” in the subgroup of buttons “General”</p> <p>In the diagnosis protocol window under GFF select</p> <ul style="list-style-type: none"> <li>• Long protocol</li> </ul> <p>by clicking on it</p> <p>Then click “OK”</p>	

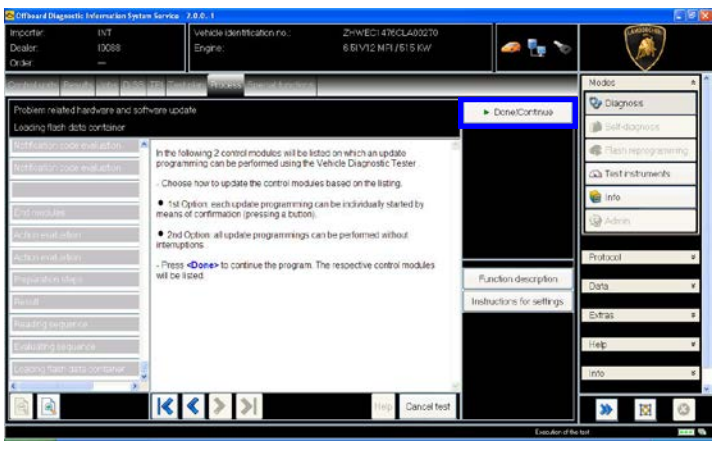
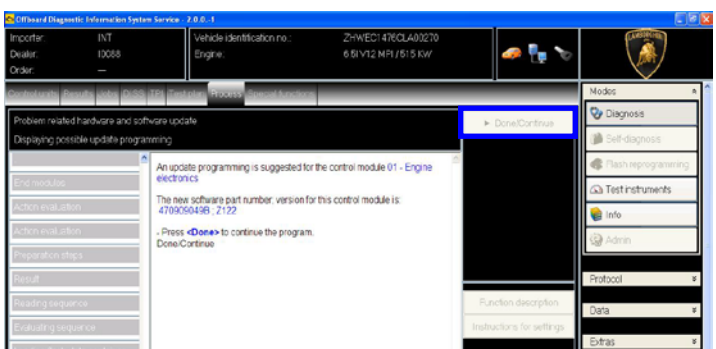
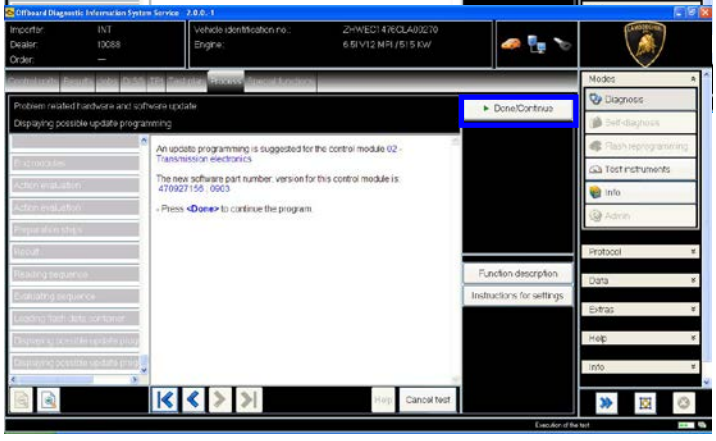
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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>49</p>	<p>Select the position where you want to save the diagnosis protocol on your diagnosis laptop</p> <p>(default path can be changed under Admin and is set under ODIS Service installation folder)</p> <p>Diagnosis protocol format is internet (.htm)</p> <p>Click “<b>Save</b>” to save the protocol.</p> <p></p> <p>Click “<b>Print</b>” in the subgroup of buttons “<i>General</i>” to print the protocol directly on a pdf file (if available Adobe pdf) or in paper format by sending to an installed network printer.</p>	
<p>50</p>	<p>The diagnosis protocol has to be attached to the related Warranty Claim</p> <p>(in order to insert the claim on the Web Portal, please refer to W.Claim Manual you can find under the Portal, Warranty section)</p>	

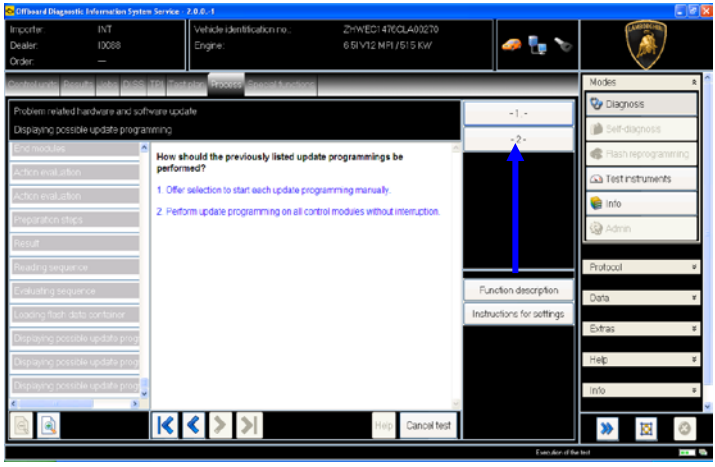
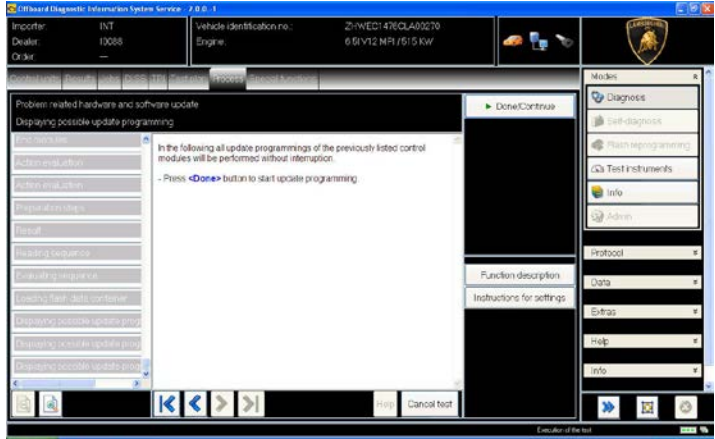
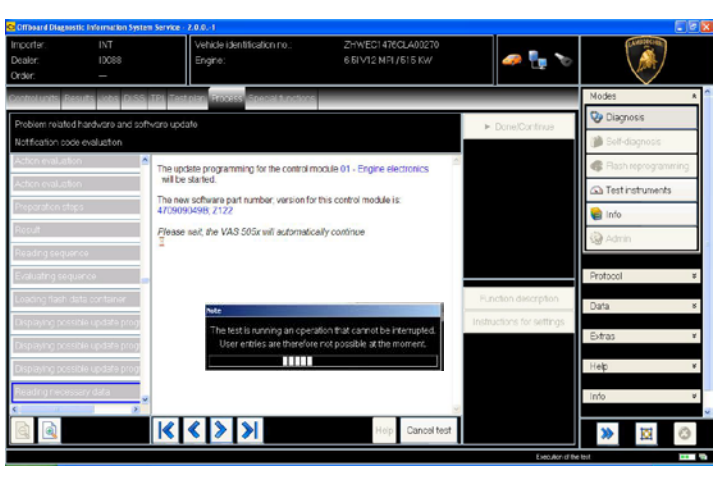
*The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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><b>51</b></p>	<p><b><u>Continue from step 17</u></b></p> <p>All the necessary files are available on the Mirrorserver; it is listed the software update of 2 ECUs</p> <p>Click “Done/Continue”.</p>	
<p><b>52</b></p>	<p>Displayed new engine software part number and version that will be different depending on the market and according to car's equipment.</p> <p>Click “Done/Continue” to continue</p>	
<p><b>53</b></p>	<p>The new gearbox software part number and version will be</p> <p><b>470927156; 0903</b></p> <p>Click “Done/Continue” to continue.</p>	

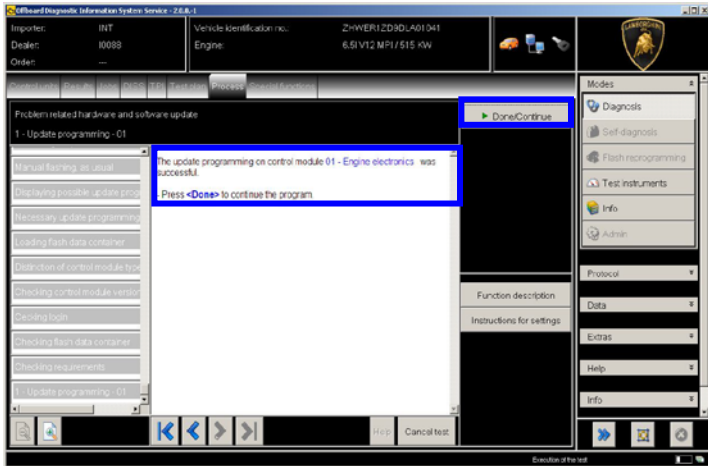
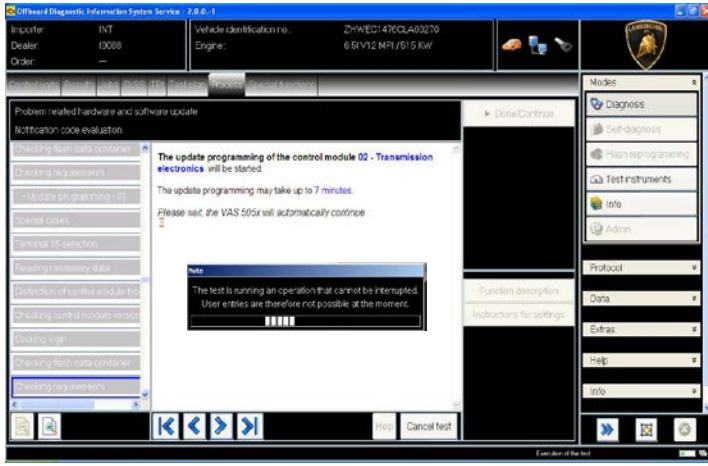
*The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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.*



54	<p>Select the option no.2 “Perform update programming on all control modules without interruption”</p>	
55	<p>Click on “Done/Continue” to start the flash update for both ECUs</p>	
56	<p>Wait until the update programming of the engine 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.

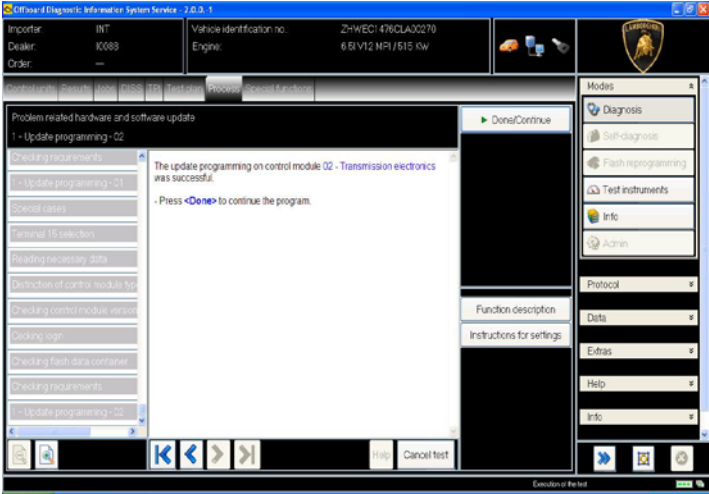
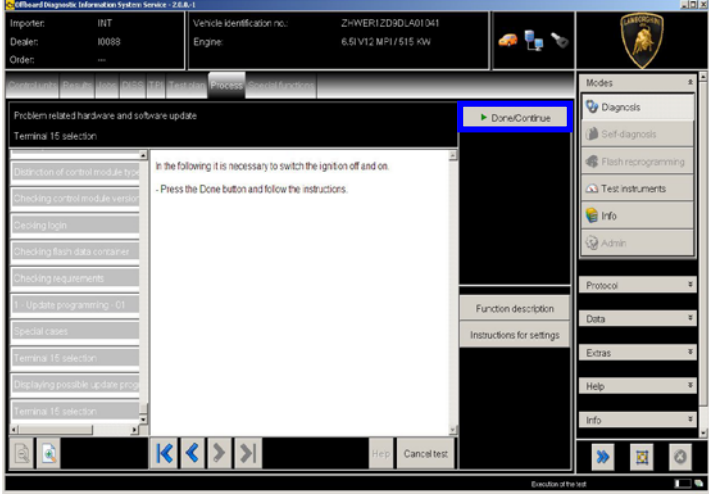


<p>57</p>	<p>Once the update programming has been completed successfully a feedback as in the picture beside is displayed.</p> <p>Press “Done/Continue” to start the update programming of the gearbox ECU.</p> <p>If the update programming has not been completed or has been unsuccessful:</p> <ul style="list-style-type: none"> <li>- Turn the ignition OFF</li> <li>- wait 1 minute before turning the ignition ON again</li> <li>- if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step 9</li> </ul>	
<p>58</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><b>59</b></p>	<p>Once the update programming has been completed successfully a feedback as in the picture beside is displayed.</p> <p>Press “Done/Continue” to continue.</p> <p>If the update programming has not been completed or has been unsuccessful:</p> <ul style="list-style-type: none"> <li>- turn the ignition OFF</li> <li>- wait 1 minute before turning the ignition ON again</li> <li>- if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step 9</li> </ul>	
<p><b>60</b></p>	<p>In the following an ignition OFF – ON cycle is necessary to restart both the ECUs.</p> <p>Press “Done/Continue” to continue.</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.*





61	Switch the ignition OFF.	
62	<p><b><u>Wait 1 minute before switching the ignition back ON again.</u></b></p> <p>Then press “Done/Continue”</p>	

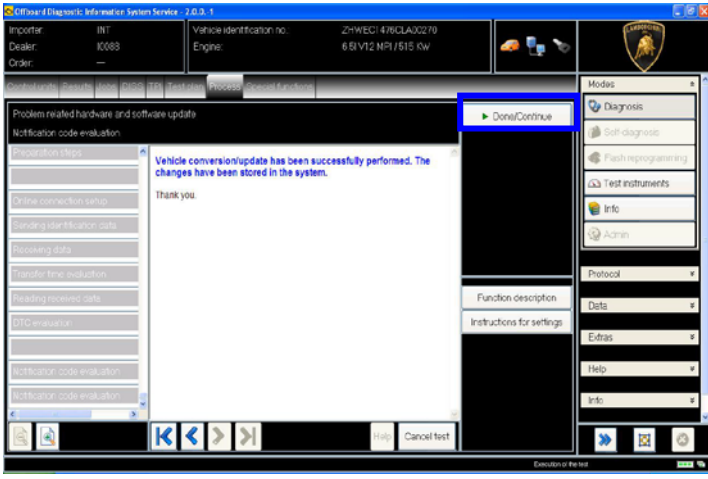
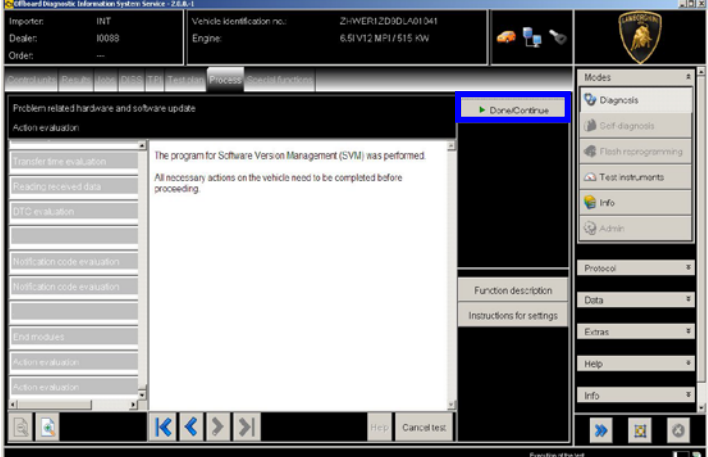
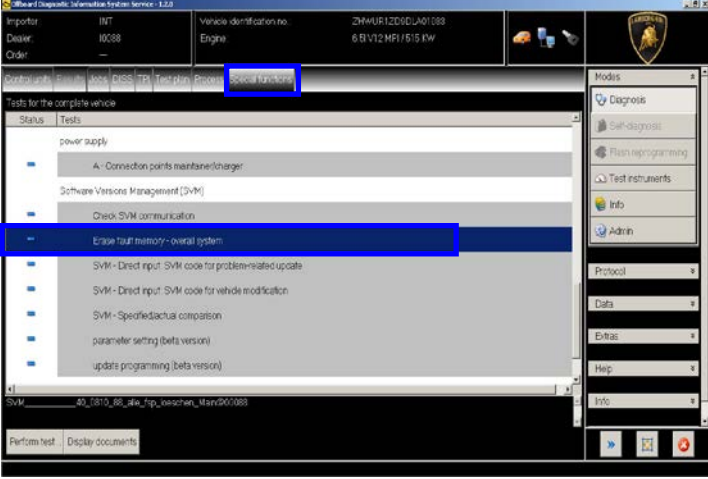
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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.



63	Press “Done/Continue”	
64	Press “Done/Continue” to start the data report	
65	Wait until the data acquisition from all the control modules is completed	

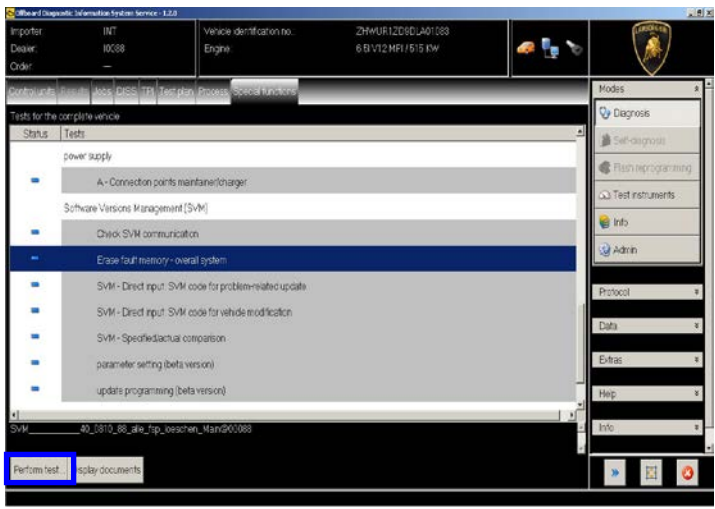
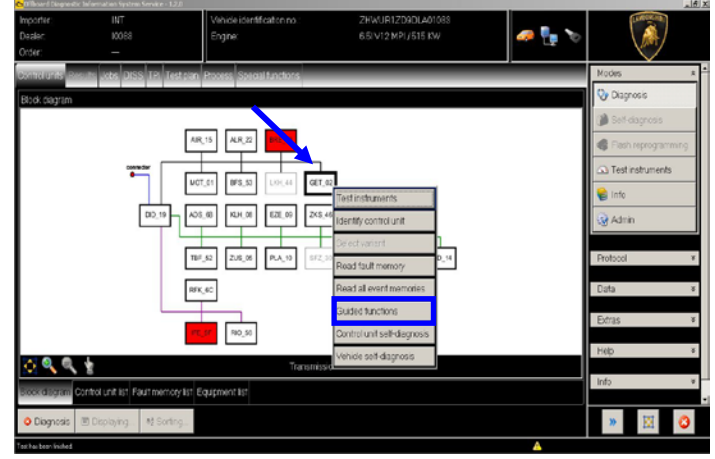
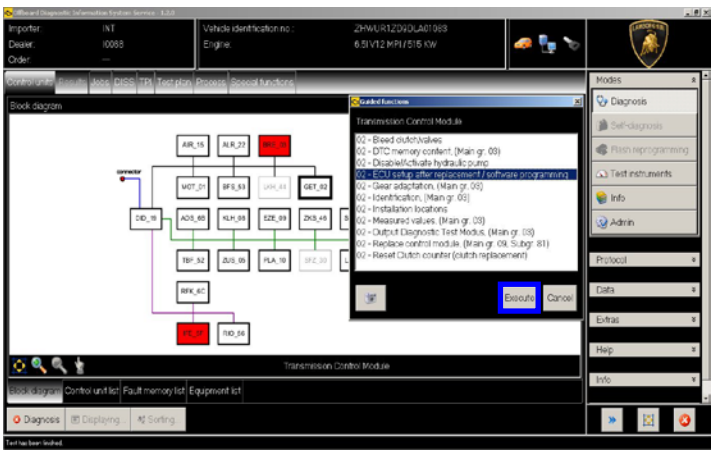
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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.



66	<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.</p> <p>Click “Done/Continue”.</p>	
67	<p>Press “Done/Continue” to exit the program.</p>	
68	<p>Go back to the tab “Special functions” and select “Erase fault memory – overall system” to clear all the faults stored because of the recent software update.</p>	

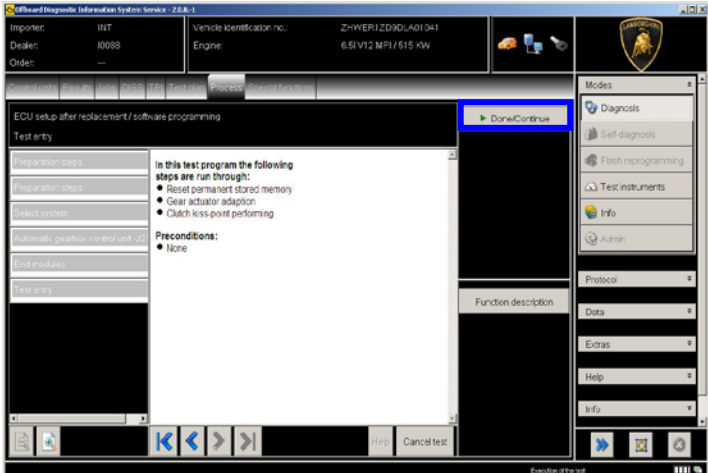
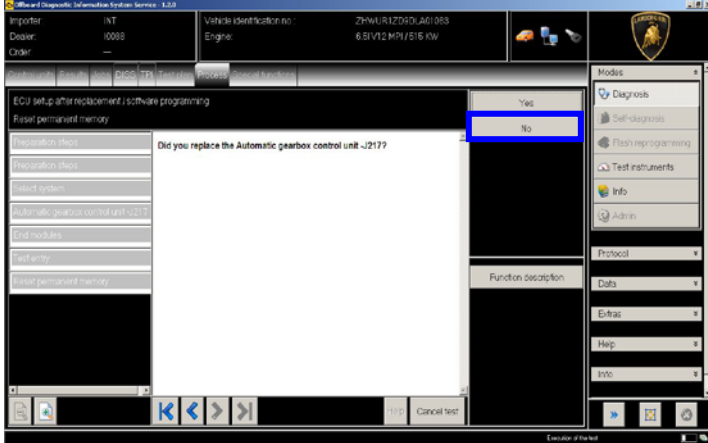
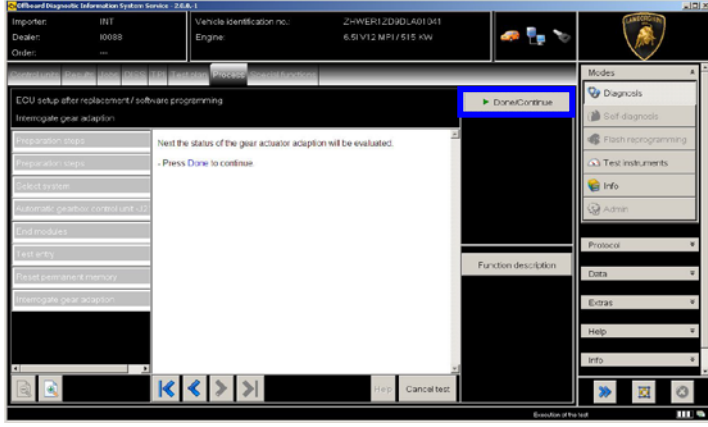
*The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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.*



69	<p>Execute the program “Erase fault memory – overall system” clicking “Perform test...”</p>	
70	<p>Go back to the Control Unit tab (block diagram or list view), to select the Transmission ECU GET_02 and the Guided Functions.</p>	
71	<p>Select the function “02 – ECU setup after replacement / software programming” in order to initialize the gearbox ECU.</p> <p>Click “Execute” to run the test</p>	

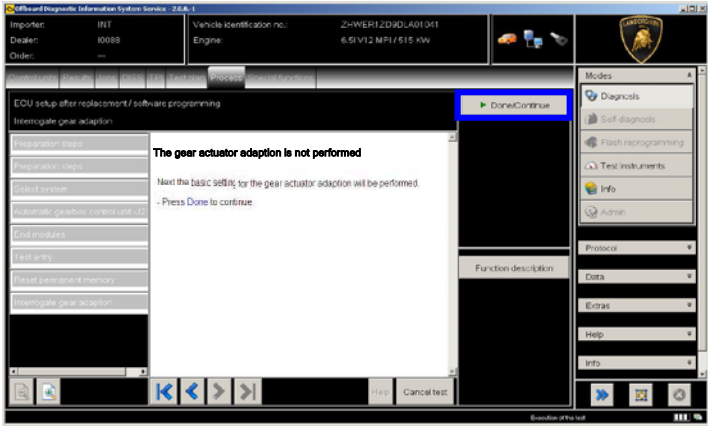
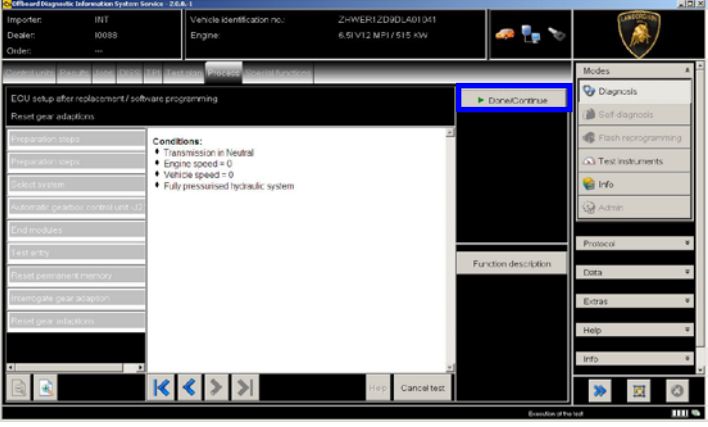
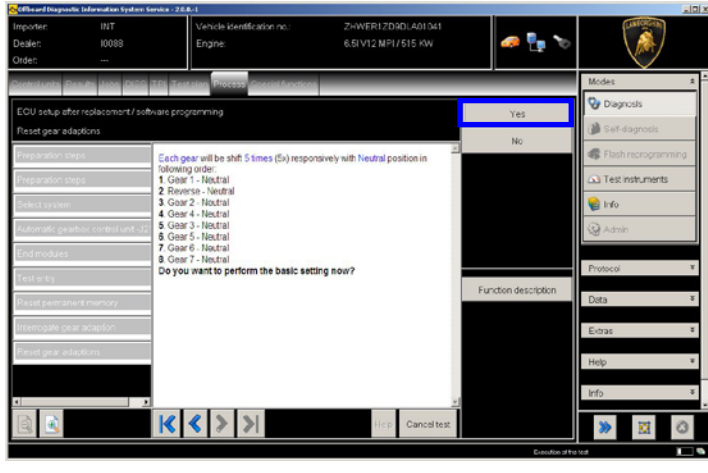
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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.



72	Click “Done/Continue”	
73	Select “NO”	
74	Click “Done/Continue”	

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.

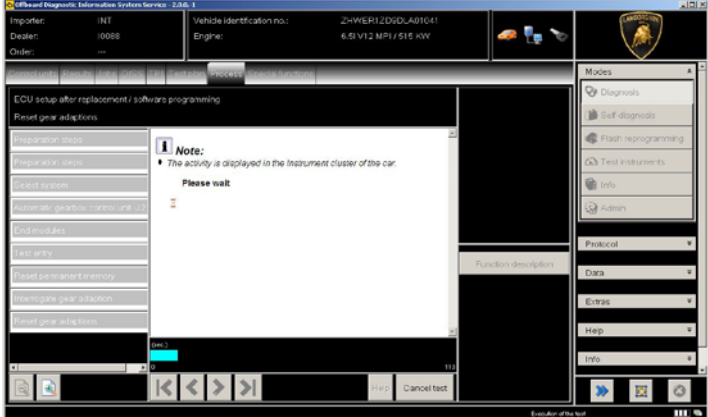
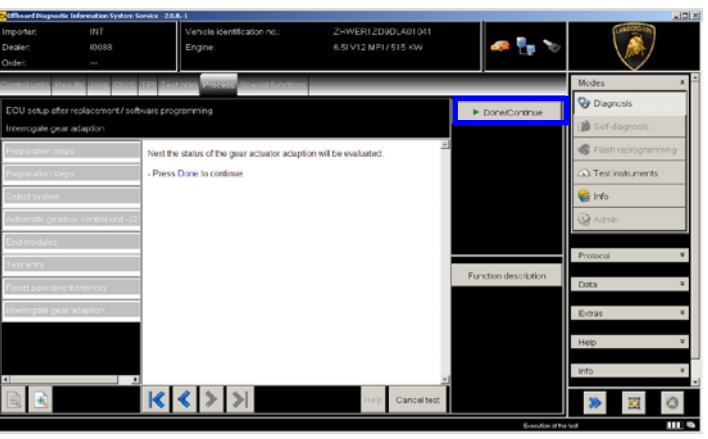
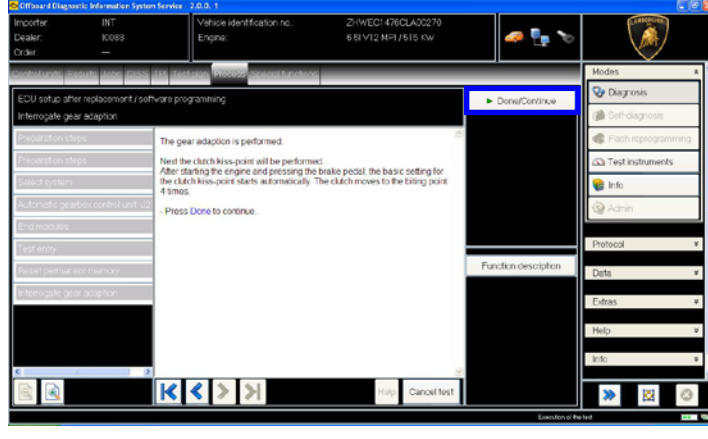


75	Click “Done/Continue”	
76	Click “Done/Continue” in order to execute the gear adaption.	
77	Confirm clicking on “Yes”	

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.

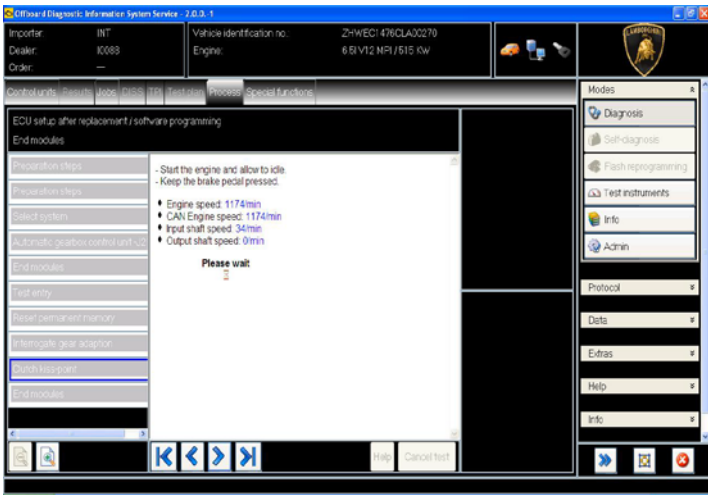
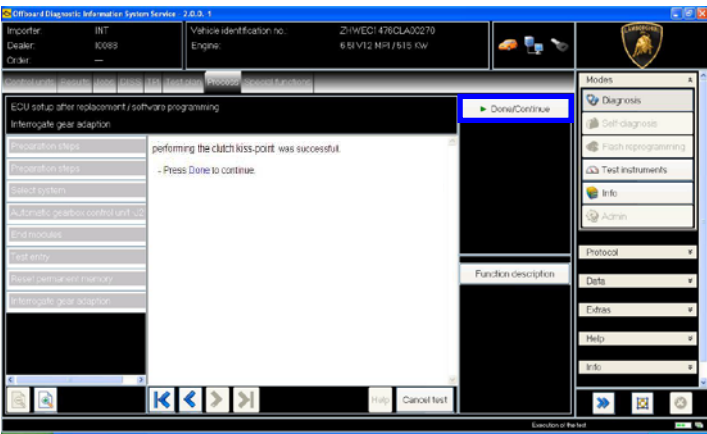




78	<p>Wait until the gear adaption procedure is completed.</p> <p>Gear engagements can be checked directly from the instrument cluster.</p>	
79	<p>Click “Done/Continue” to continue.</p>	
80	<p>Click “Done/Continue” in order to perform the Kiss Point adaption.</p>	

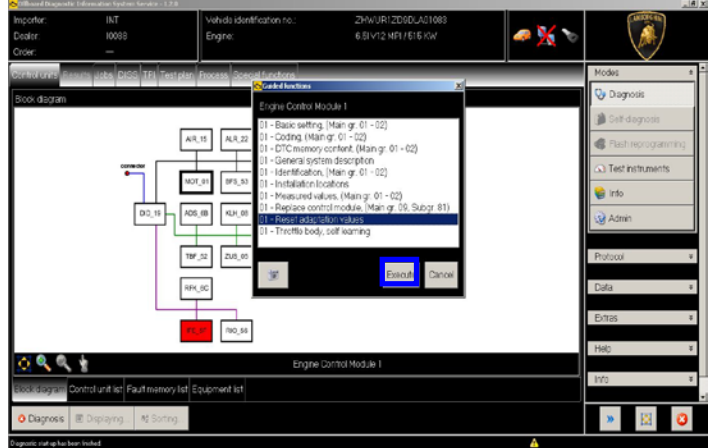
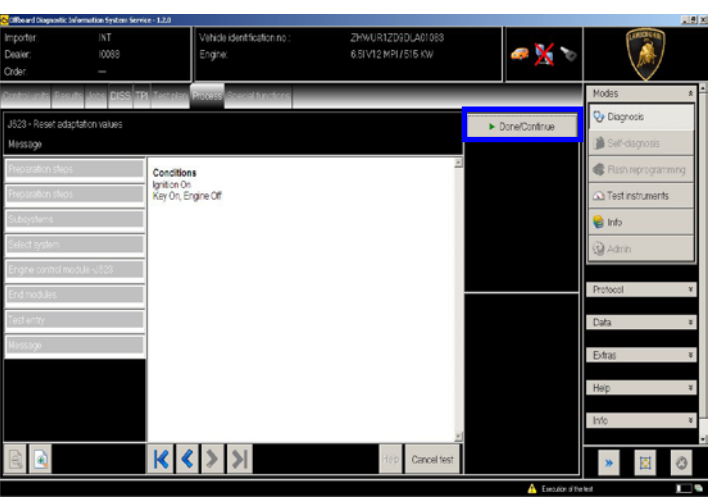
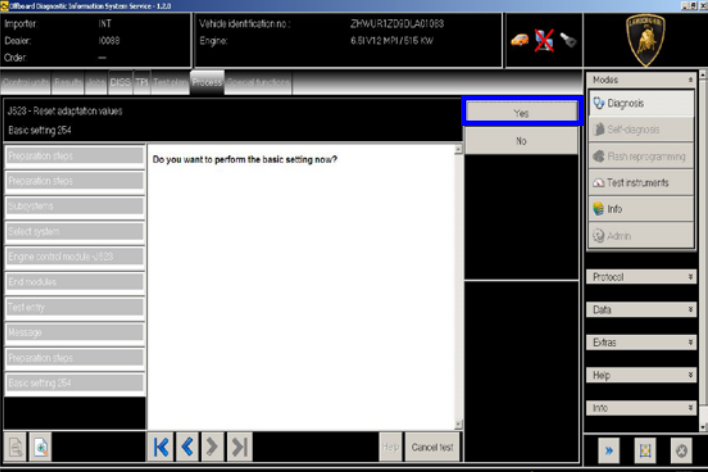
*The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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>81</p>	<p><b><u>Start the engine at idle and keep pressed the brake pedal for at least 1 minute.</u></b></p> <p>If the engine doesn't start:</p> <ul style="list-style-type: none"> <li>• turn the ignition OFF</li> <li>• disconnect the diagnostic interface</li> <li>• wait at least 1 minute before turn the ignition ON again</li> <li>• reconnect the diagnostic interface and repeat the program from step 71</li> </ul>	
<p>82</p>	<p>If the Kiss Point adaption is completed successfully the screenshot beside will be displayed.</p> <p>Click on “Done/Continue” 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"> <li>• turn the ignition OFF</li> <li>• disconnect the diagnostic interface</li> <li>• wait at least 1 minute before turn the ignition ON again</li> <li>• reconnect the diagnostic interface and repeat the program from step 71</li> </ul>	

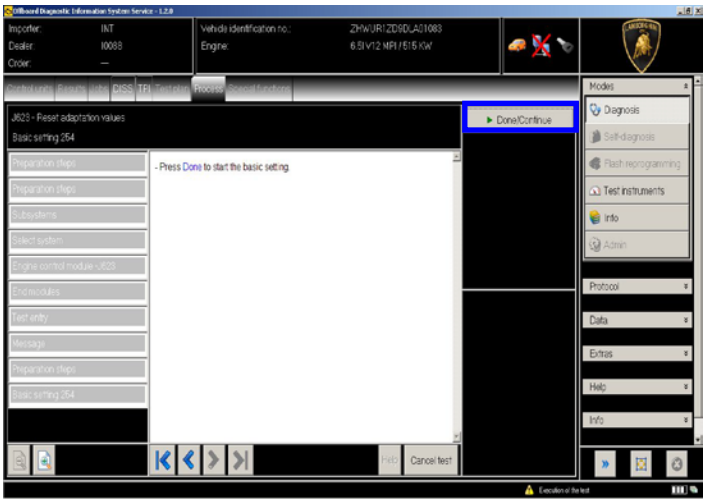
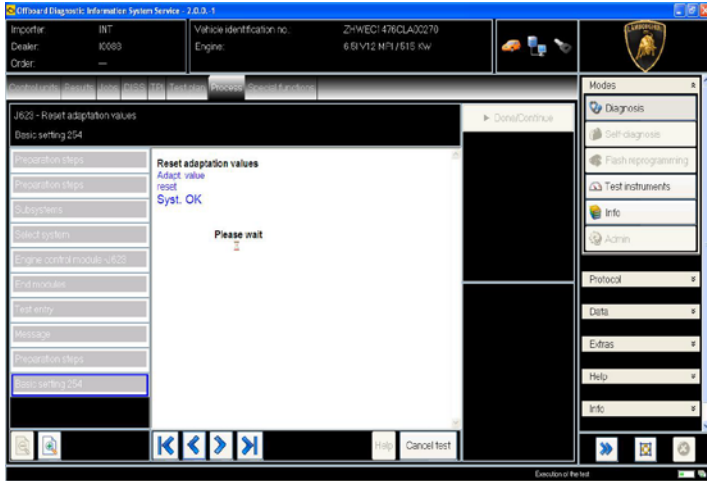
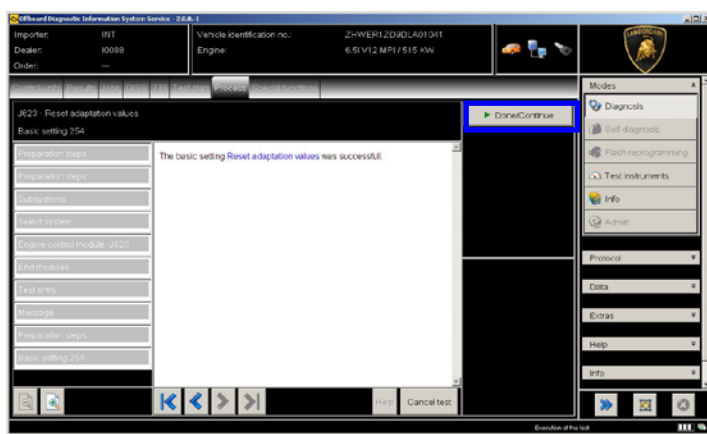
*The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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.*



83	<p>Go back to the Control Unit tab (block diagram or list view), to select the Engine ECU MOT_01 and the Guided Function</p> <p>01 – Reset adaptation values</p> <p>Click “Execute” to start the procedure for resetting the adaptation values (Basic Setting 254)</p>	
84	<p>Be sure the activation conditions are respected:</p> <ul style="list-style-type: none"> <li>- Key ON</li> <li>- Engine OFF</li> <li>- No faults stored in the Engine ECU's memory</li> </ul> <p>Press “Done/Continue”</p>	
85	<p>Click “Yes” to continue</p>	

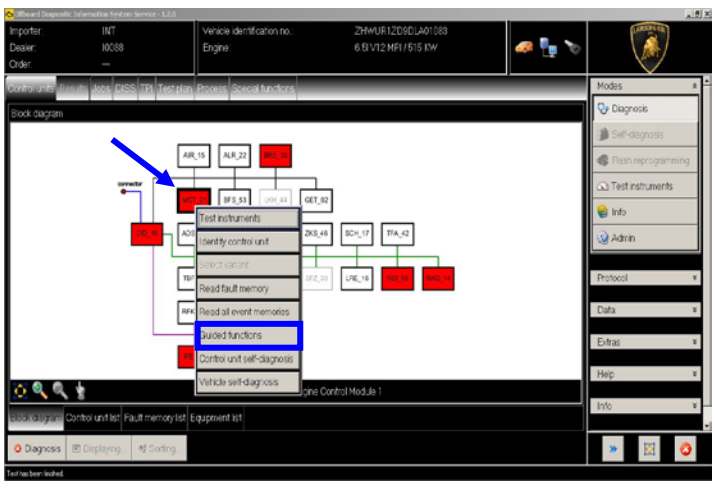
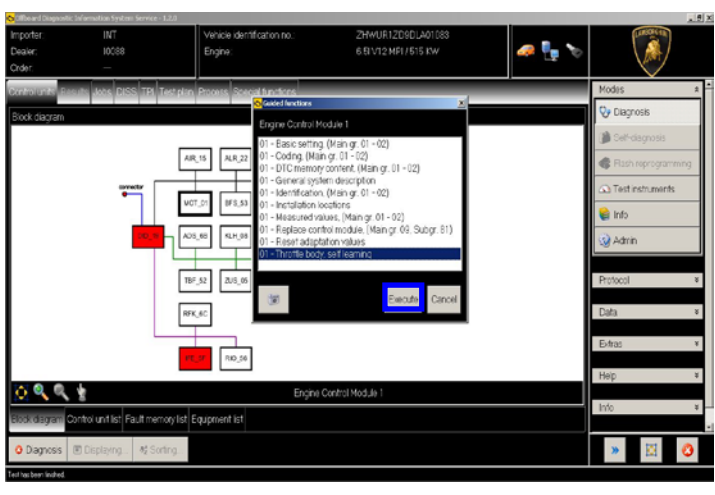
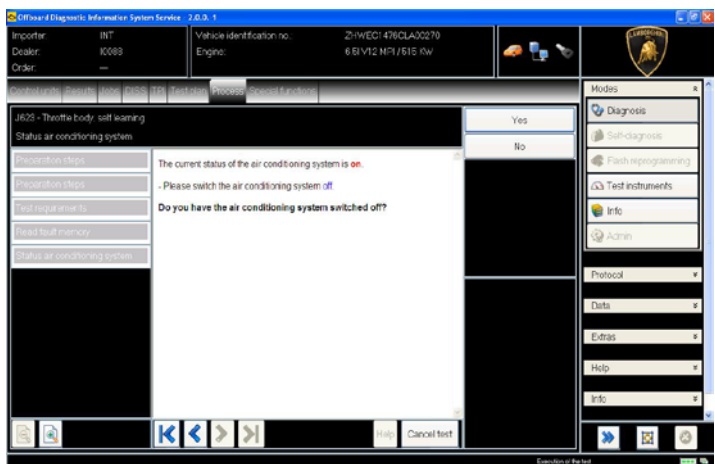
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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.



86	Click “Done/Continue” to perform the basic setting	
87	<p>Wait until the feedback message is shown.</p> <p>If the procedure has been performed successfully the message “Syst.OK” will appear, as shown in the picture beside.</p>	
88	<p>If the procedure has not been performed successfully:</p> <ul style="list-style-type: none"> <li>• turn the ignition OFF</li> <li>• wait at least 1 minute before turn the ignition ON again</li> <li>• repeat the program from step 83</li> </ul> <p>Click “Done/Continue” to exit the basic setting</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.

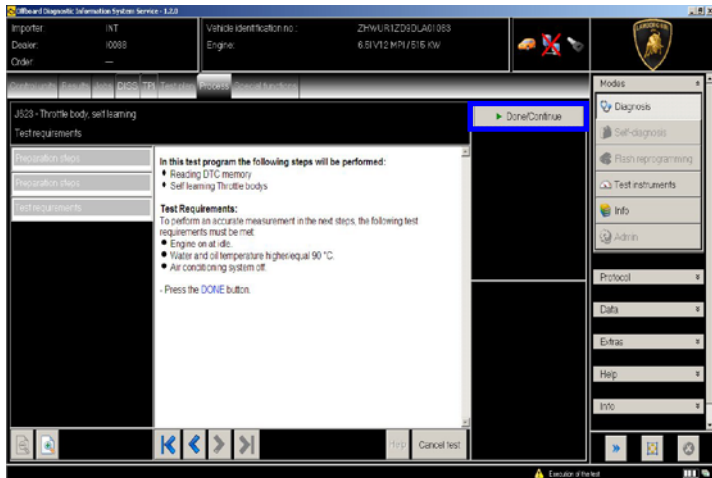
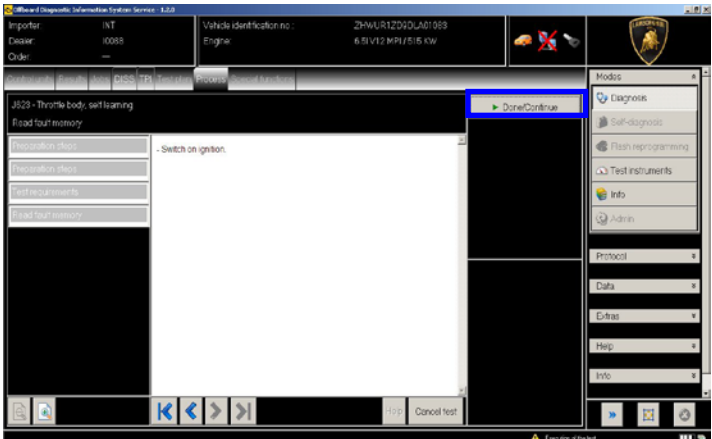
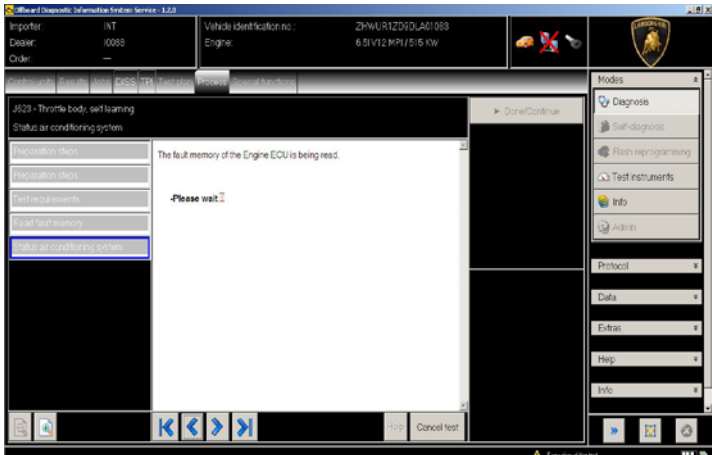


89	<p>Go back to the Control Unit tab (block diagram or list view), to select the Engine ECU MOT_01 and the Guided Function.</p>	
90	<p>Select the program</p> <p>“01 – Throttle bodies, self learning”</p> <p>And execute clicking on “Execute”.</p>	
91	<p><b>Be sure that Air Conditioning is OFF</b></p> <p>The prerequisites for the test are summarized</p> <p>Press “Done/Continue”</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.

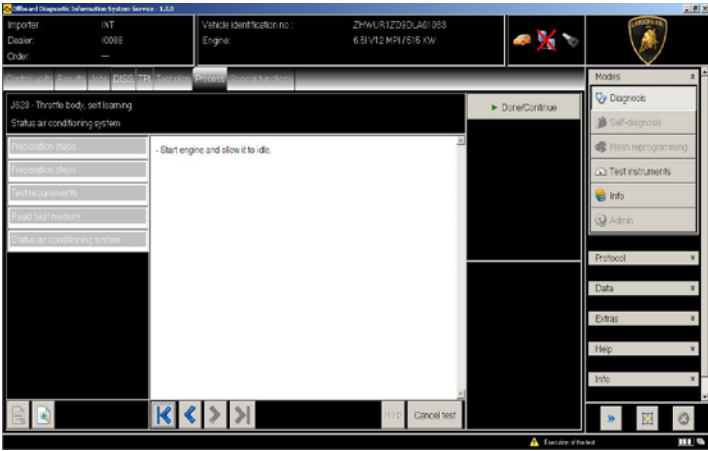
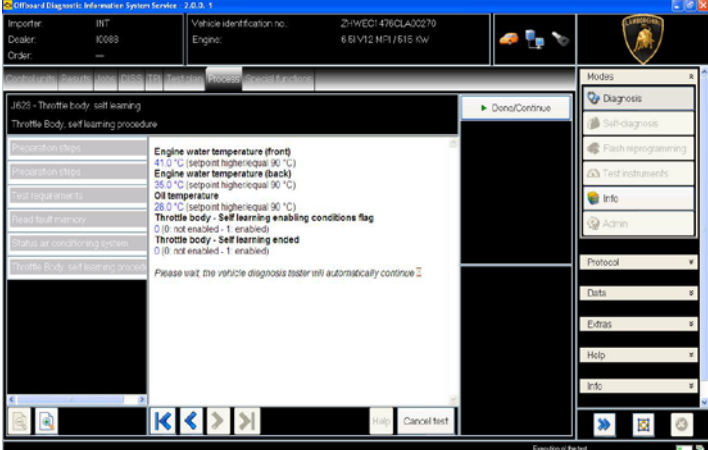
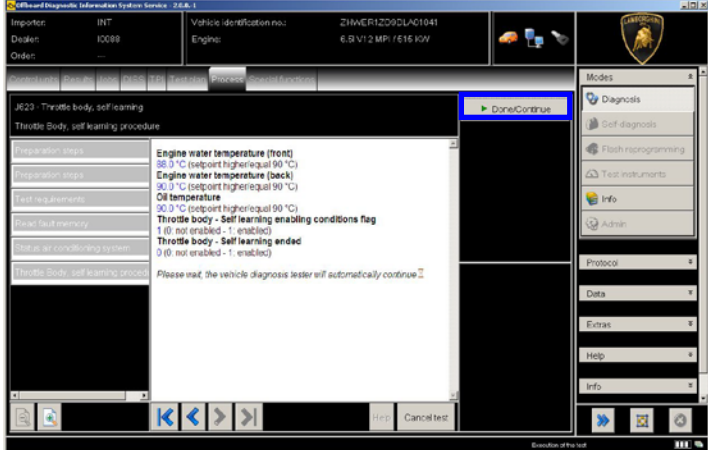




		
92	<p>Switch the ignition ON.</p> <p>Click “Done/Continue”</p>	 

*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><b>93</b></p>	<p>Start the engine at idle.</p> <p>Click “Done/Continue”</p>	
<p><b>94</b></p>	<p>Self learning is an automatic procedure and it is activated when engine water and oil temperature exceed 90 °C</p> <p>Check the parameters from ODIS and wait until water and oil 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><b>95</b></p>	<p>Once reached the activation conditions (water and oil temperatures major than 90°C) the “Throttle body – Self learning enabling conditions flag” changes from 0 to 1 indicating the start of the self learning procedure.</p>	

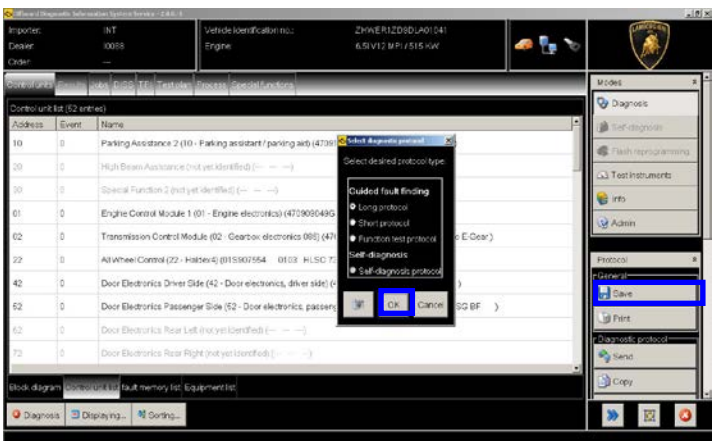

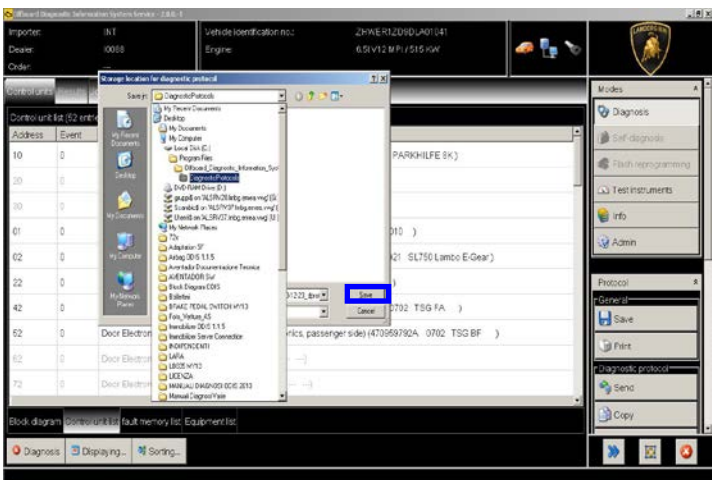
The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, 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>96</p>	<p>If the self learning is completed successfully a screen as in the picture beside is shown. Click “Done/Continue” to display the ignition advance values.</p> <p>If in 10 minutes from the activation the procedure has not been completed, interrupt and:</p> <ul style="list-style-type: none"> <li>• Switch the ignition OFF</li> <li>• Wait 1 minute before redo the ignition ON</li> <li>• Restart the procedure from step 90</li> </ul>	
<p>97</p>	<p>Have a look to the ignition advance values, that must be inside the range <math>[-2^{\circ} \ 3^{\circ}]</math></p> <p>In the case those values were outside the range, restart the procedure from step 90 after an ignition switch OFF for at least 1 minute.</p> <p>Switch the engine OFF and press “Done/Continue” to exit the program.</p>	
<p>98</p>	<p>At the end of previous steps, expand the menu’ “Protocol” on the right side (menu bar)</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.

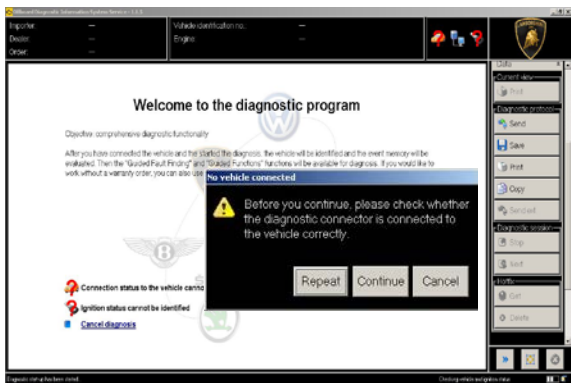
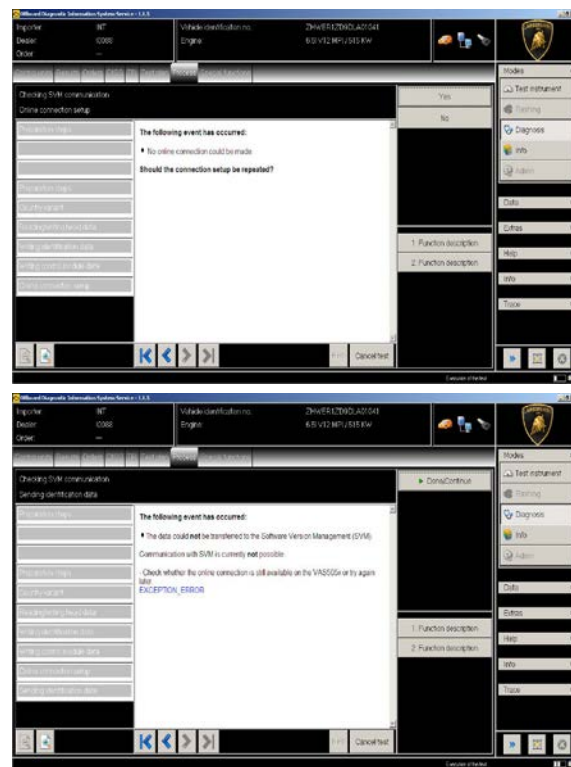


<p>99</p>	<p>Click <b>“Save”</b> in the subgroup of buttons <b>“General”</b></p> <p>In the diagnosis protocol window under GFF select</p> <ul style="list-style-type: none"> <li>• <b>Long protocol</b></li> </ul> <p>by clicking on it</p> <p>Then click <b>“OK”</b></p>	
<p>100</p>	<p>Select the position where you want to save the diagnosis protocol on your diagnosis laptop</p> <p>(default path can be changed under Admin and is set under ODIS Service installation folder)</p> <p>Diagnosis protocol format is internet (.htm)</p> <p>Click <b>“Save”</b> to save the protocol.</p> <p></p> <p>Click <b>“Print”</b> in the subgroup of buttons <b>“General”</b> to print the protocol directly on a pdf file (if available Adobe pdf) or in paper format by sending to an installed network printer.</p>	
<p>101</p>	<p>The diagnosis protocol has to be attached to the related Warranty Claim</p> <p>(in order to insert the claim on the Web Portal, please refer to W.Claim Manual you can find under the Portal, Warranty section)</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><b>A.</b></p>	<p>If the error message regarding the VAS5054 interface and the 2 icons for status of on board connection and key on are shown as in the picture beside:</p> <ul style="list-style-type: none"> <li>- Click “Cancel”</li> <li>- Repeat the VAS5054 HW interface installation following the procedure (*) “VCI Manager v2.0”, by entering in the menu “Extras” on the right side and clicking on “Diagnostic interface”.</li> </ul>	
<p><b>B.</b></p>	<p>If one of the connection errors screens is shown as in the pictures beside:</p> <ul style="list-style-type: none"> <li>- 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 and retry clicking “Yes” or “Done/Continue”</li> </ul>	

*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.*




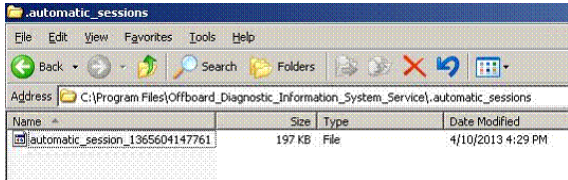



C.	<p>If the loss of connection happens during the target/actual comparison:</p> <ul style="list-style-type: none"> <li>- It is not possible to connect to central server, check the working connection of internet and retry by clicking “1”</li> </ul>	
D.	<p>If the incorrect identification message is shown as in the picture beside (error code: ODS1007E):</p> <ul style="list-style-type: none"> <li>- be sure that your Geko account is valid</li> <li>- be sure that the label “Geko” is written on the token that you are using for the authentication</li> <li>- be sure the Password inserted is correct</li> <li>- click on Cancel and perform the application test (see document “ODIS_Checking_ConnectionServer_SVM_2.0”<sup>(*)</sup>)</li> </ul>	
E.	<p>If the infrastructure error message is shown as in the picture beside (error code: ODS9212E):</p> <ul style="list-style-type: none"> <li>- be sure that your Geko account is valid</li> <li>- be sure that the label “Geko” is written on the token that you are using for the authentication</li> <li>- verify in ODIS settings you have “Internet” instead of “CPN” (see document “ODIS_Initial_Setup_2.0”<sup>(*)</sup>)</li> </ul>	

*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.*





	<ul style="list-style-type: none"> <li>- click on Cancel and perform the application test (see document “ODIS_Checking_ConnectionServer_SVM_2.0” (*))</li> </ul> <p>If the same error was present during the application test, try following procedure:</p> <ul style="list-style-type: none"> <li>- Quit ODIS</li> <li>- Enter the folder C:\Program Files\Offboard_Diagnostic_Information_System_Service\automatic_sessions on your diagnosis laptop</li> <li>- Delete the only file present in that folder</li> <li>- Re-Start ODIS Service under following conditions:             <ol style="list-style-type: none"> <li>1. Network connection available</li> <li>2. ODIS connection set on “Internet”</li> </ol> </li> <li>- Retry the application test and the SVM with your GeKO Token.</li> </ul> <p> In the remote case there was still an error, retry the procedure with a second GeKO token, if available.</p>	
F.	<p>In the case the flash container is not detected (see figure):</p> <ul style="list-style-type: none"> <li>- Make sure to be recently synchronized with Mirrorserver by checking the last date of Sync under:             <p><a href="http://mirrorserver/welcome">http://mirrorserver/welcome</a></p> <p>or under</p> <p><a href="http://IP_address/welcome">http://IP_address/welcome</a></p> </li> </ul>	

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.



if you don't have previously defined the "mirrorserver" IP address alias.

- Make sure to be correctly connected with Mirrorserver

You have successfully installed your MirrorServer/2 NOS-Box.

Testing the connection to the configured Provider Server. Please wait a moment, this takes some time ...

Configuration	
Base path	/var/www/desert
Provider URL	https://altair.mirrorserver2.net/deployment
Repository URL	https://altair.mirrorserver2.net/storage
Feedback URL	https://altair.mirrorserver2.net/health
Proxy	http://svc_blackbox? @10.197.179.43:8080
Key file	/var/www/desert/certs/userkey.pem
Certificate	/var/www/desert/certs/usercert.pem
Tests	
Provider WebDAV access	OK (/deployment/)
Repository WebDAV access	OK (/storage/)
Feedback WebDAV access	OK (/health/)
Successful package downloads	5
Failed package downloads	0
Last Sync	07-10-13 at 22:10:17



(\*) ODIS technical documentation can be retrieved on the Lamborghini web portal, under ODIS section → ODIS technical documentation

*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.*



## **IMPORTANT REMARK:**

The documents to be mandatory attached to the claim are:

- Job order done
- Diagnosis Protocol saved

Failure to follow the procedures may lead to the rejection of the request.

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.*