



To All Lamborghini Dealers and Licensed Service Point .
From After Sales Department.
Subject Engine Software Update.
Group 10.01.00
Date 09/11/2012
Pages 17

Subject

Engine software update.

Model

All Lamborghini Gallardo Coupè and Spyder version LP My 2011 and 2012.

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 the engine light may sporadically turn on warning a ghost misfiring .

Field solution

Update engine software.

Warranty Claim data

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

Campaign Code: L71X-A.01.12
Campaign Description: Engine software update
Cost Code: 50
Component Code: CCA0112
Trouble Code: 220
Labour Code: CCA0112100
Labour Time: 1 h

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

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

Service/Service
Service/Service
Servicio

Richiamo/Rückruf
Recall/Rappel
Llamada a Taller

Numero/Nummer
Number/Numéro
Número

Data/Datum/Date/Date/Fecha

Data riparazione/Reparaturdatum
Repair Data/Date de réparation
Fecha reparación

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
Service/Service
Servicio

Richiamo/Rückruf
Recall/Rappel
Llamada a Taller

Numero/Nummer
Number/Numéro
Número

Data/Datum/Date/Date/Fecha

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Firma / Unterschrift / Signature / Signature / Firma

Preliminary operations:

1	Please be sure to have installed the LaRA After Sales version 7.0 as described in the information bulletin BI.10.12.
2	Help documentation: Gallardo MY11 e MY12 repair manual <ul style="list-style-type: none"> • chapter 10.90.00

Workshop instructions

Preliminary operations


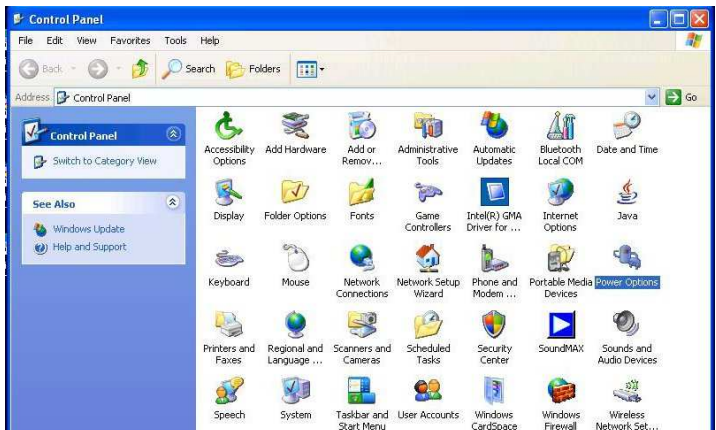
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The update procedure for the Engine ECU's (Master and Slave) lasts more than 40 minutes, hence it is necessary to plug the diagnostic laptop into an electrical socket and to deactivate screen savers and all the energy saving options in order to avoid any interruption of the procedure.

Deactivation of energy saving options

1	Select "Control Panel" from the menu "Start".	
2	Select "Power Options".	

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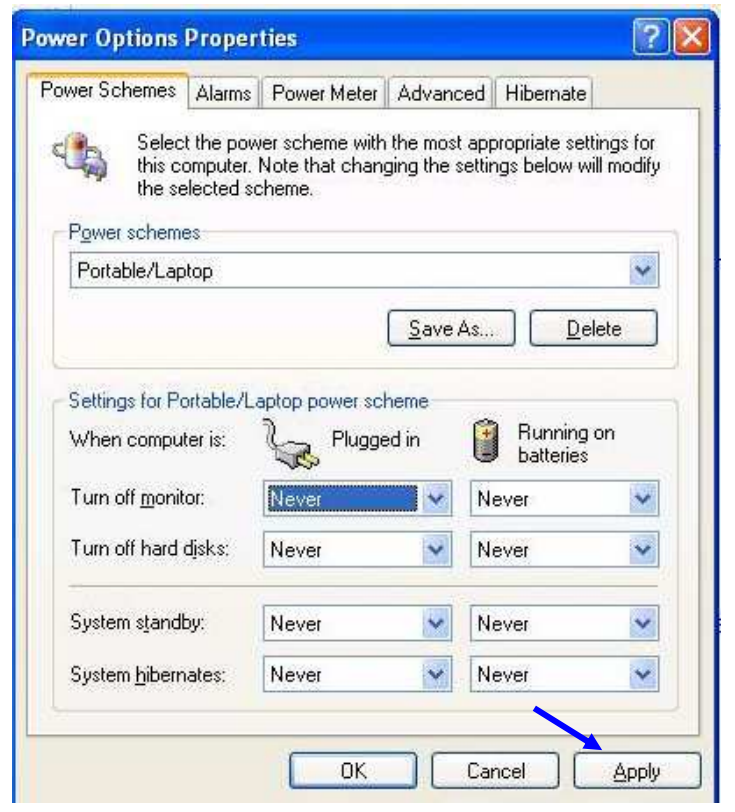


<p>3</p>	<p>Choose “Never” for all the power options.</p>	<p>The screenshot shows the 'Power Options Properties' dialog box. The 'Power Schemes' tab is selected. The 'Power schemes' dropdown is set to 'Portable/Laptop'. Below, the 'Settings for Portable/Laptop power scheme' are shown. For the 'Plugged in' state, the settings are: Turn off monitor: Never, Turn off hard disks: Never, System standby: Never, System hibernates: Never. For the 'Running on batteries' state, the settings are: Turn off monitor: Never, Turn off hard disks: Never, System standby: Never, System hibernates: Never. The 'OK', 'Cancel', and 'Apply' buttons are at the bottom.</p>
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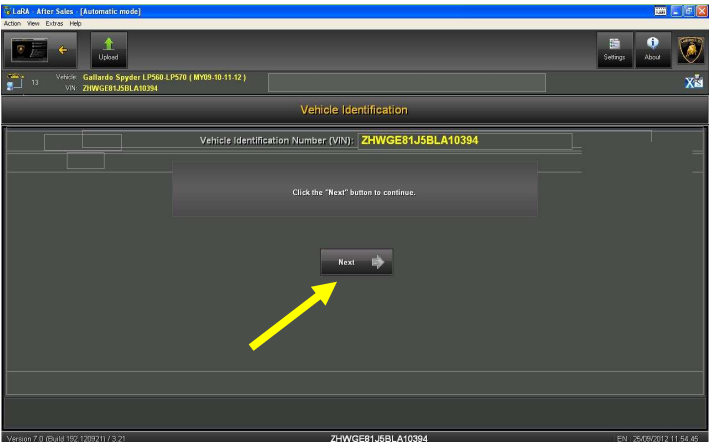
4 Confirm clicking on “Apply”.



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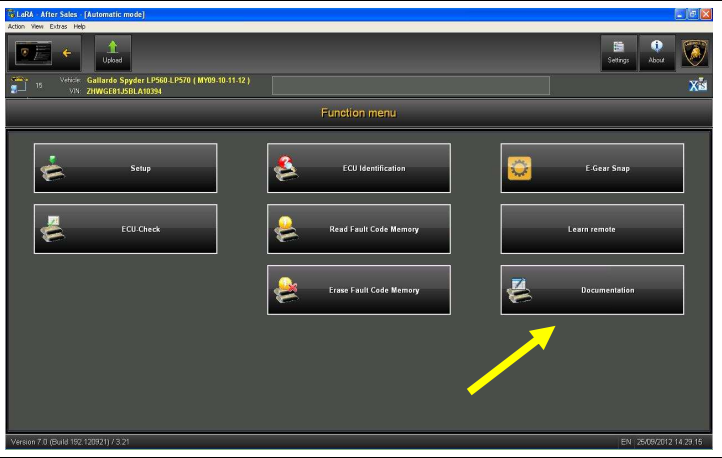
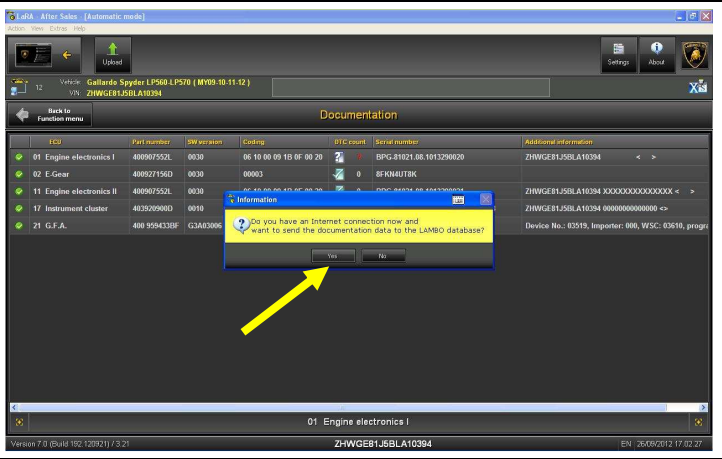
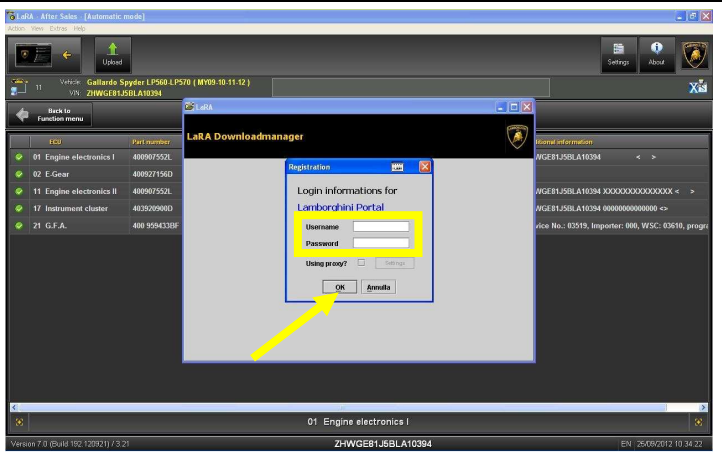


Update procedure:

1	Connect the vehicle to the battery charger in order to maintain a constant voltage supply during programming.
2	Connect the diagnostic laptop at the vehicle using the Basic XS interface (p/n 66095011) with the black cable (p/n 69190206).
3	<p>Turn the ignition key ON; start the LaRA software and select the “Gallardo Coupè LP570-LP560-LP550 (MY09-10-11-12)” or “Gallardo Spider LP560-LP570 (MY09-10-11-12)”. Then select “Automatic mode”.</p> 
4	<p>Click on “Next”.</p> 

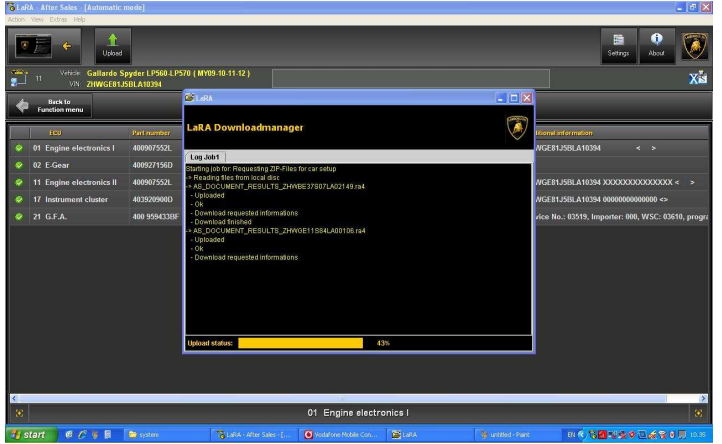
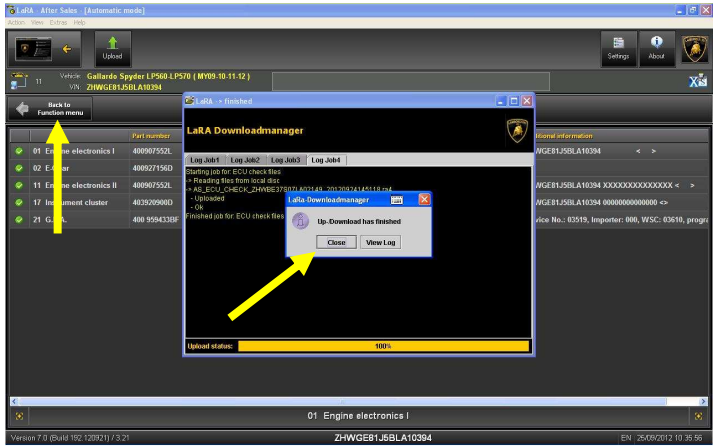
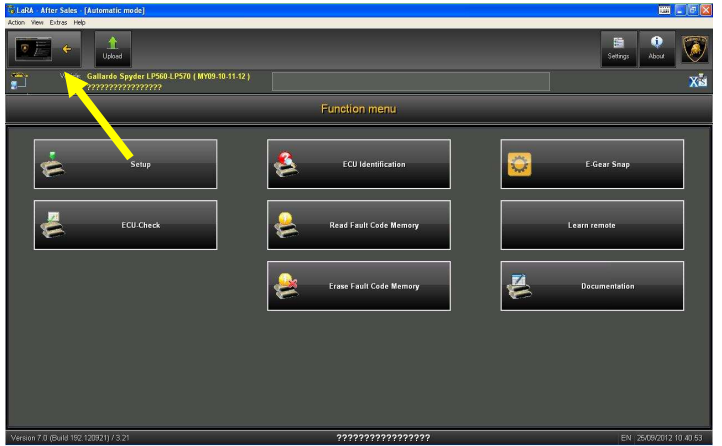
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5	Click on “Documentation”.	
6	Click on “Yes” in order to start the upload. Note: Be sure that diagnostic laptop is connected to the internet network before starting the upload.	
7	Insert your user name in the field “Username” and the pin 1324 + current 6 digit code displayed on your web token in the field Password. Then confirm clicking on “OK”.	

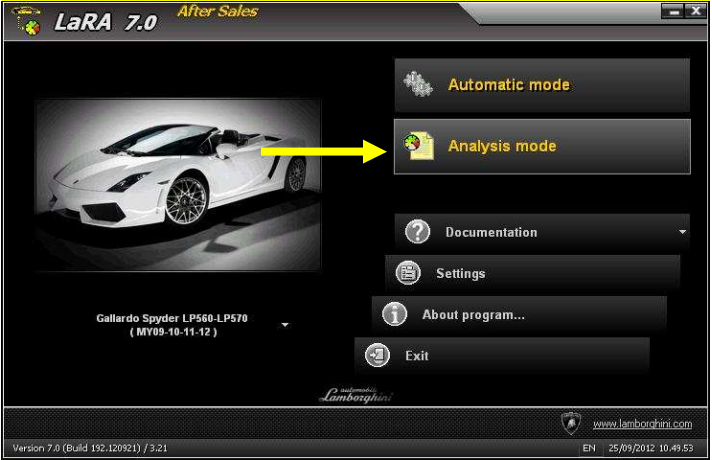
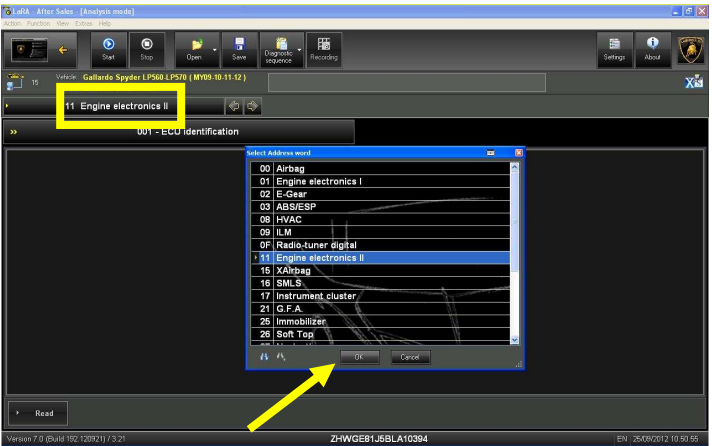
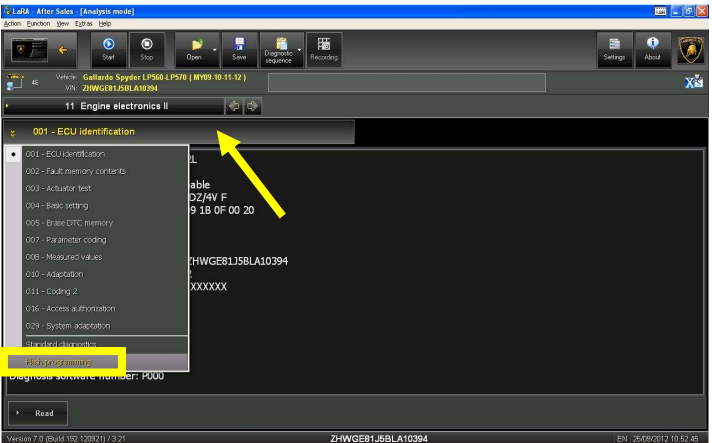
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<p>8</p>	<p>The procedure Documentation proceeds automatically.</p>	
<p>9</p>	<p>Click on “Close”. Then click on “Back to Function menu” as shown in the picture.</p>	
<p>10</p>	<p>Click on “Back” to return to the main menu of LaRA, as shown in the picture.</p>	

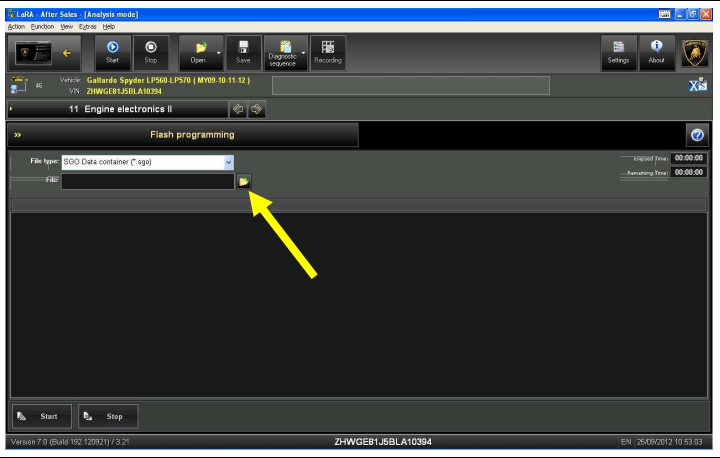
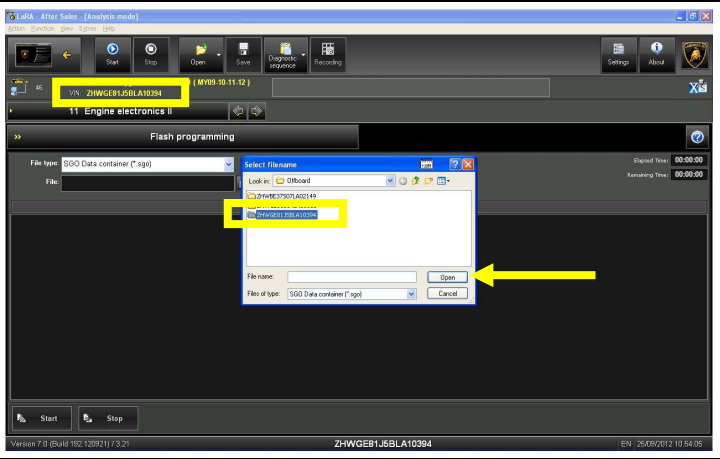
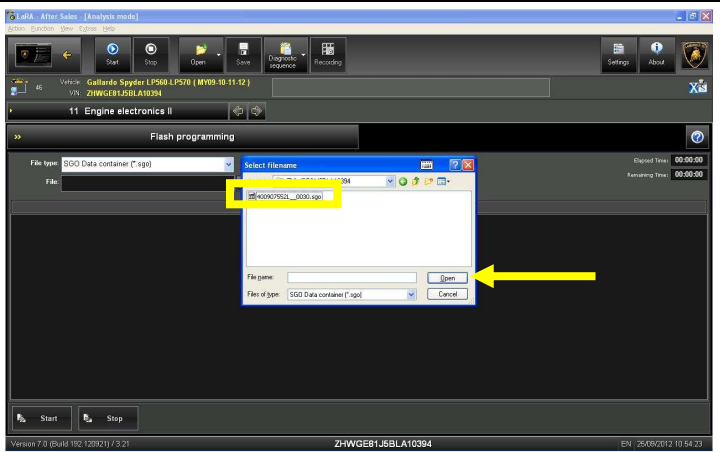
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<p>11 Select the “Analysis mode” button.</p>		 <p>The screenshot shows the LaRA 7.0 After Sales main menu. On the left, there is a car image of a Gallardo Spyder LP560-LP570 (MY09-10-11-12). On the right, there is a menu with several options: 'Automatic mode', 'Analysis mode' (highlighted with a yellow arrow), 'Documentation', 'Settings', 'About program...', and 'Exit'. The bottom of the screen shows 'Version 7.0 (Build 192.120921) / 3.21' and 'EN 25/09/2012 10:49:53'.</p>
<p>12 Click on the top left of the toolbar. Select the “11 Engine electronics II” and confirm clicking on “OK”.</p>		 <p>The screenshot shows the LaRA 7.0 After Sales software interface. The top left toolbar has several icons, and the '11 Engine electronics II' option is highlighted with a yellow box. A 'Select Address word' dialog box is open, showing a list of address words. '11 Engine electronics II' is selected in the list. The 'OK' button at the bottom of the dialog box is highlighted with a yellow arrow. The bottom of the screen shows 'Version 7.0 (Build 192.120921) / 3.21' and 'ZH-WGEB1J5BLA10394'.</p>
<p>13 Select “Flash programming” from the function menu.</p>		 <p>The screenshot shows the LaRA 7.0 After Sales software interface. The '11 Engine electronics II' option is selected in the top left toolbar. A function menu is open, showing a list of functions. 'Flash programming' is highlighted with a yellow box. The bottom of the screen shows 'Version 7.0 (Build 192.120921) / 3.21' and 'ZH-WGEB1J5BLA10394'.</p>

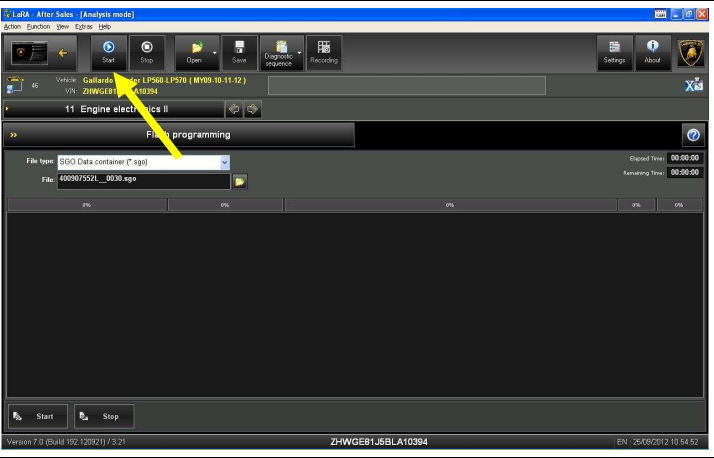
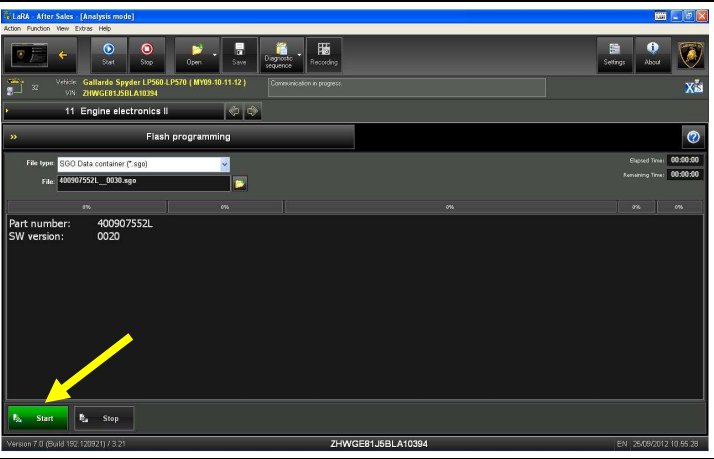
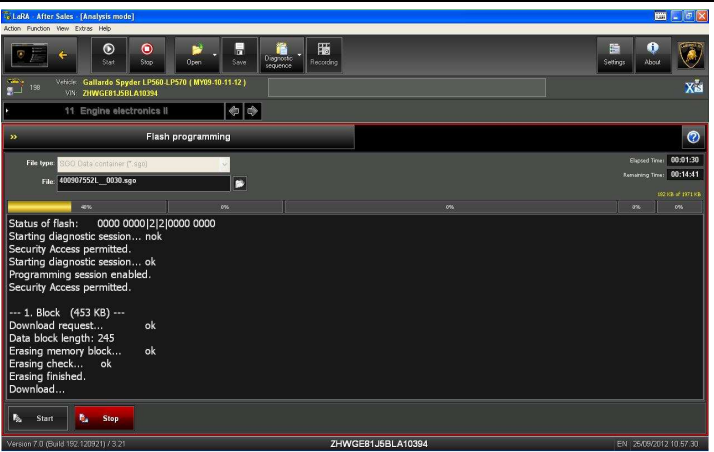
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<p>14</p>	<p>Click the folder icon for the selection of the File Type “SGO Data container”.</p>	
<p>15</p>	<p>Select the VIN of the corresponding vehicle and then click on “Open”, as shown in the picture.</p>	
<p>16</p>	<p>Select the File *.sgo and click on “Open”, as shown in the picture.</p>	

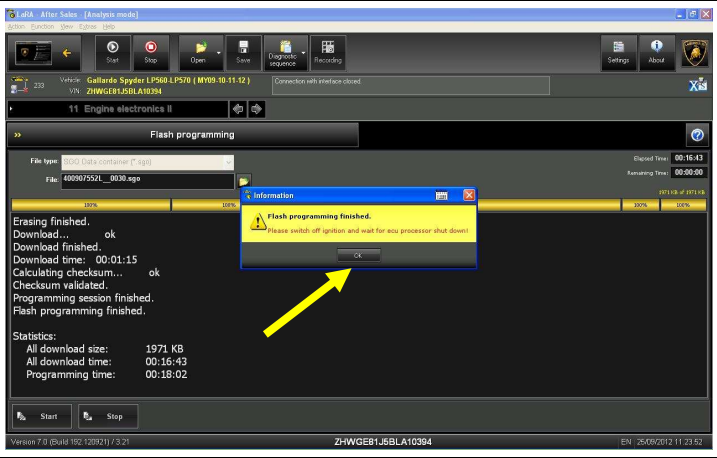
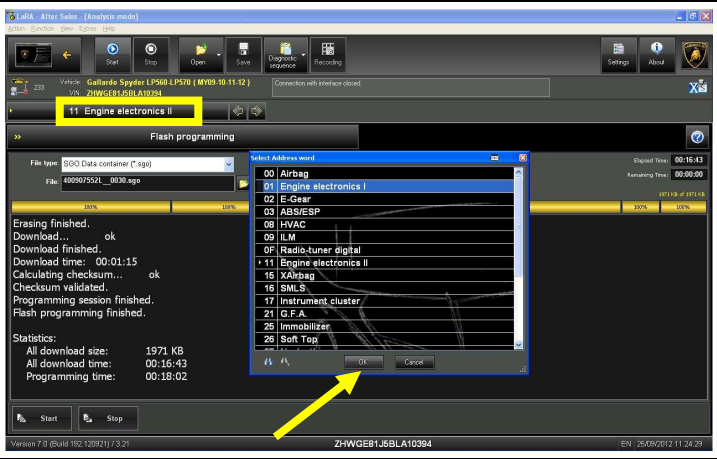
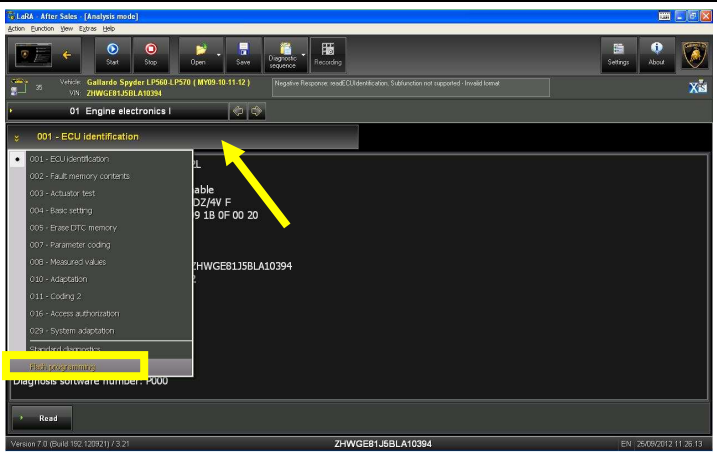
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<p>17</p>	<p>Click on “Start”, as shown in the picture.</p>	
<p>18</p>	<p>Click on “Start” in order to update programming the ECU “Engine electronics II” (ECU Engine Slave).</p>	
<p>19</p>	<p>Wait until the update programming is completed (estimated time: 18 minutes).</p>	

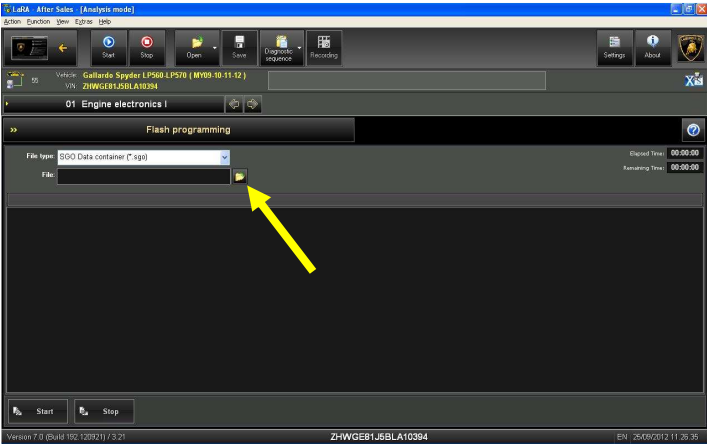
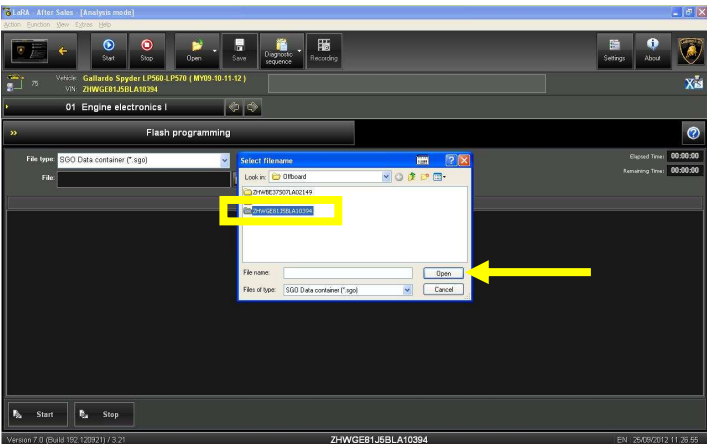
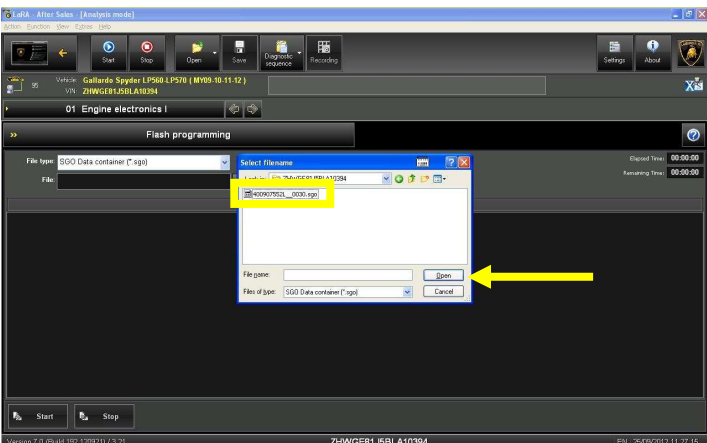
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<p>20</p>	<p>The flash programming for the ECU Engine Slave is finished. Click on “OK” without switch the ignition OFF.</p> <p>If the update programming has not been completed or has been unsuccessful, switch the ignition OFF and wait 1 minute before switching the ignition back ON again and repeat the procedure from step 13.</p>	
<p>21</p>	<p>Click on the top left of the toolbar. Select the “01 Engine electronics I” and confirm clicking on “OK”.</p>	
<p>22</p>	<p>Select “Flash programming” from the function menu.</p>	

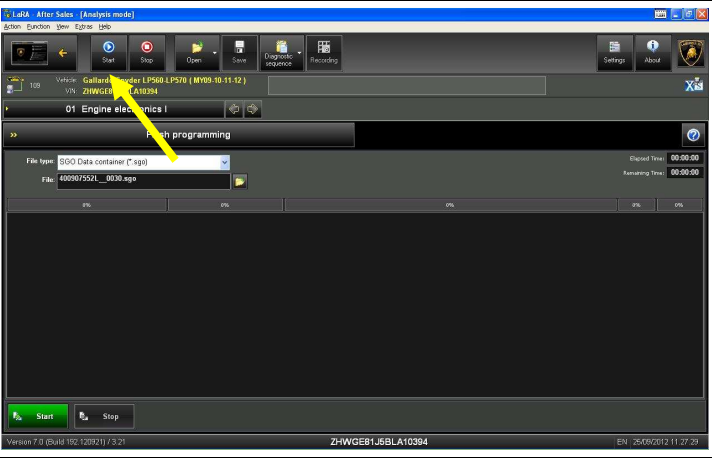
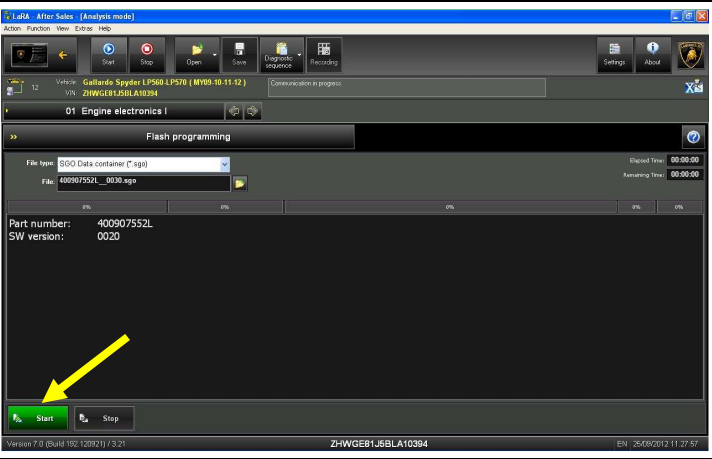
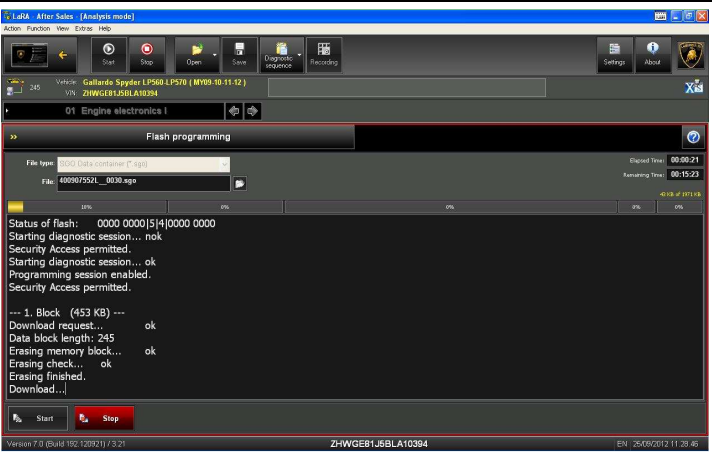
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<p>23</p>	<p>Click the folder icon for the selection of the File Type “SGO Data container”.</p>	
<p>24</p>	<p>Select the VIN of the corresponding vehicle and then click on “Open”, as shown in the picture.</p>	
<p>25</p>	<p>Select the File *.sgo and click on “Open”, as shown in the picture.</p>	

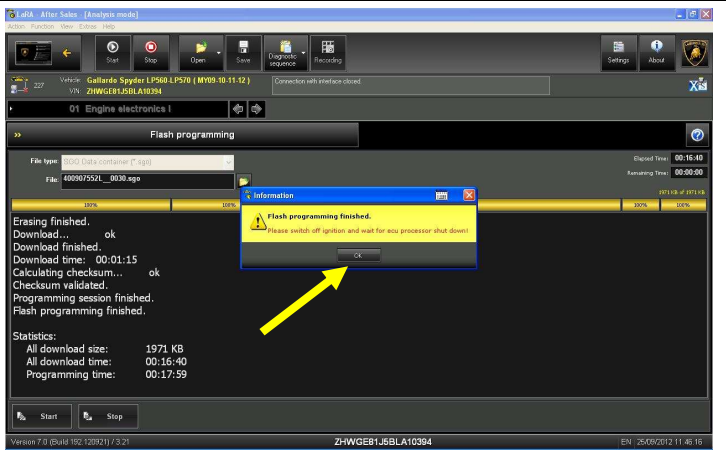
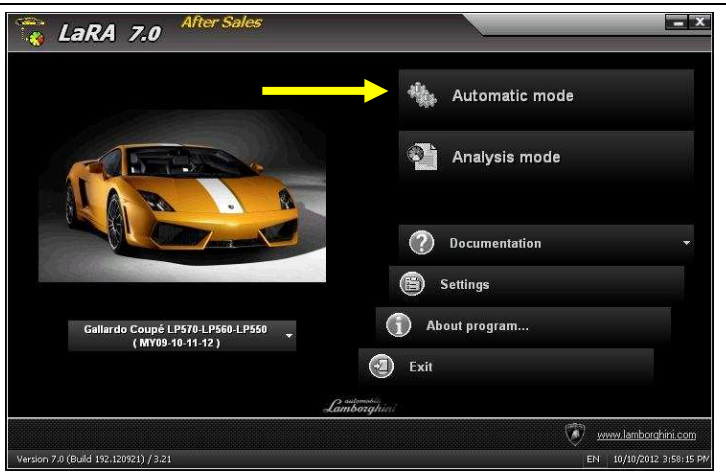
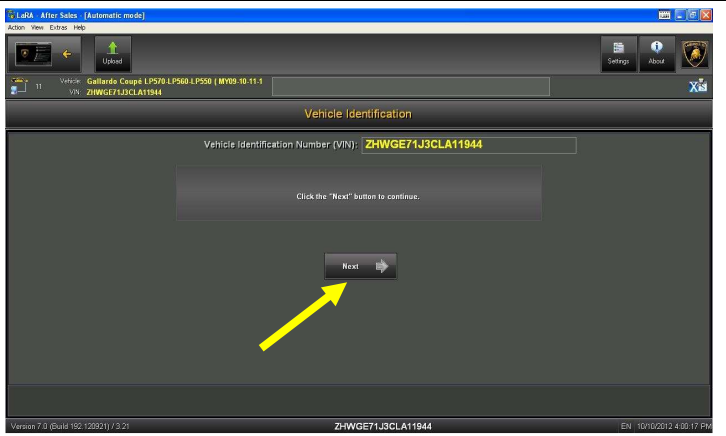
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<p>26</p>	<p>Click on “Start”, as shown in the picture.</p>	
<p>27</p>	<p>Click on “Start” in order to update programming the ECU “Engine electronics I” (ECU Engine Master).</p>	
<p>28</p>	<p>Wait until the update programming is completed (estimated time: 18 minutes).</p>	

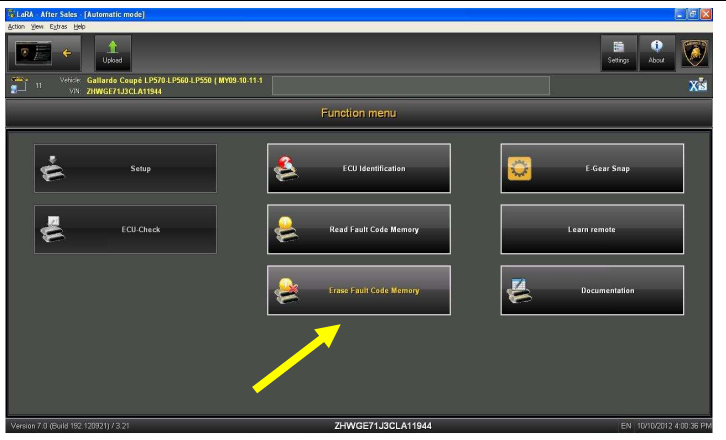
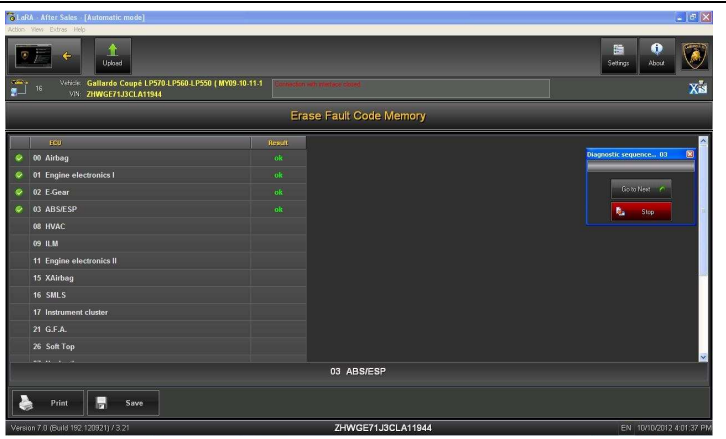
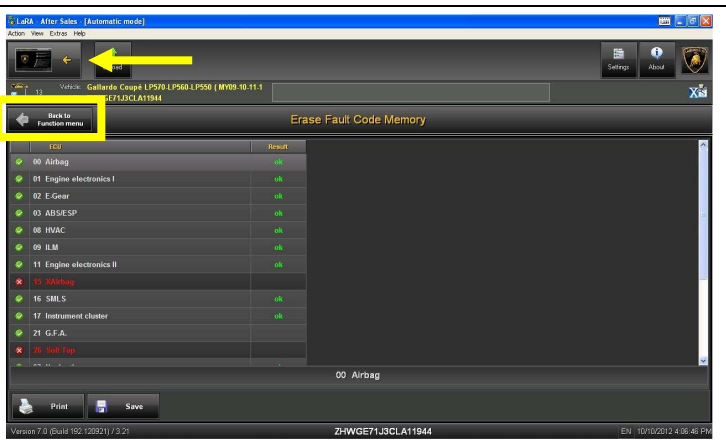
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<p>29</p>	<p>The flash programming for the ECU Engine Master is finished. Click on “OK” and switch OFF the ignition for at least 1 minute, before switch the ignition back ON again.</p> <p>If the update programming has not been completed or has been unsuccessful, switch the ignition OFF and wait 1 minute before switching the ignition back ON again and repeat the procedure from step 22.</p>	
<p>30</p>	<p>Return to the main menu of LaRA, then select the “Automatic mode” button, as shown in the picture.</p>	
<p>31</p>	<p>Click on “Next”.</p>	

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<p>32</p>	<p>Select and run the program “Erase Fault Code Memory” to clear all the faults stored because of the software update.</p>	 <p>The screenshot shows the LaRA software interface in 'Automatic mode'. The 'Function menu' is displayed with several options: Setup, ECU Identification, E-Gear Snap, ECU Check, Read Fault Code Memory, Learn remote, and Erase Fault Code Memory. A yellow arrow points to the 'Erase Fault Code Memory' button. The vehicle information at the top reads: 'Gallardo Coupé LP570 LP560 LP550 MY09-10-11-1' and 'VIN: ZHWGE71J3CLA11944'. The version is 'Version 7.0 (Build 192.120921) 7.3.21' and the date is 'EN 10/02/2012 4:00:36 PM'.</p>																										
<p>33</p>	<p>Wait until the erase of all the errors present in the vehicle’s ECU is finished.</p>	 <p>The screenshot shows the 'Erase Fault Code Memory' progress screen. A table lists various ECU components and their status:</p> <table border="1"><thead><tr><th>ECU</th><th>Result</th></tr></thead><tbody><tr><td>00 Airbag</td><td>ok</td></tr><tr><td>01 Engine electronics I</td><td>ok</td></tr><tr><td>02 E-Gear</td><td>ok</td></tr><tr><td>03 ABS/ESP</td><td>ok</td></tr><tr><td>08 HVAC</td><td>ok</td></tr><tr><td>09 ILM</td><td>ok</td></tr><tr><td>11 Engine electronics II</td><td>ok</td></tr><tr><td>15 XAirbag</td><td>ok</td></tr><tr><td>16 SMLS</td><td>ok</td></tr><tr><td>17 Instrument cluster</td><td>ok</td></tr><tr><td>21 G.F.A.</td><td>ok</td></tr><tr><td>26 Soft Top</td><td>ok</td></tr></tbody></table> <p>The '03 ABS/ESP' component is currently selected. A 'Diagnostic' window is open on the right side of the screen. The version and date information are the same as in the previous screenshot.</p>	ECU	Result	00 Airbag	ok	01 Engine electronics I	ok	02 E-Gear	ok	03 ABS/ESP	ok	08 HVAC	ok	09 ILM	ok	11 Engine electronics II	ok	15 XAirbag	ok	16 SMLS	ok	17 Instrument cluster	ok	21 G.F.A.	ok	26 Soft Top	ok
ECU	Result																											
00 Airbag	ok																											
01 Engine electronics I	ok																											
02 E-Gear	ok																											
03 ABS/ESP	ok																											
08 HVAC	ok																											
09 ILM	ok																											
11 Engine electronics II	ok																											
15 XAirbag	ok																											
16 SMLS	ok																											
17 Instrument cluster	ok																											
21 G.F.A.	ok																											
26 Soft Top	ok																											
<p>34</p>	<p>Click on “Back” to return to the main menu of LaRA, as shown in the picture.</p>	 <p>The screenshot shows the 'Erase Fault Code Memory' screen with a yellow arrow pointing to the 'Back' button in the top left corner. The table of ECU components is now showing '00 Airbag' as the selected component. The version and date information are the same as in the previous screenshots.</p>																										

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35	<p>Finally perform these “Basic setting” from Analysis mode”.</p> <p>On the ECU “01 Engine electronics I” (ECU Engine Master):</p> <ul style="list-style-type: none">• Routine 60 adaptation throttle body• Routine 142 adaptation of the tumble valves <p>On the ECU “11 Engine electronics II” (ECU Engine Slave):</p> <ul style="list-style-type: none">• Routine 60 adaptation throttle body• Routine 144 adaptation of the tumble valves <p>(see also the workshop manual instructions chapter 10.90.00).</p>
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For any further information you may need please contact
service.department@lamborghini.com

Best Regards

After Sales Department

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