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

Subject
Engine and gearbox software upgrade.

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

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

Information to the field

As a continuous product monitoring, Automobili Lamborghini Spa has found that sporadically on some vehicles during the ~~cold~~ engine start-up the cam phase variators might sound noisy.

Field solution
Upgrade the engine and related gearbox software.

Warranty Claim data

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

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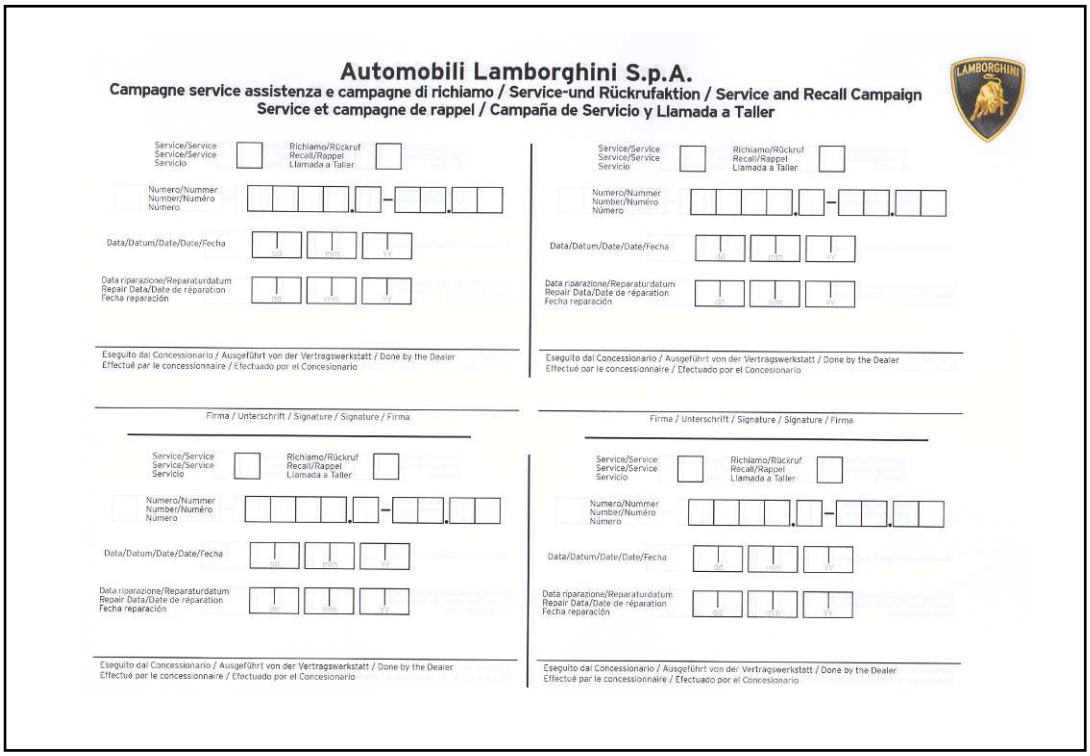
Campaign Code: **L834-A.07.12**
Campaign Description: **Engine And Gearbox SW Upgrade**
Cost Code: **50**
Component Code: **CCA0712**
Trouble Code: **220**
Labour Code: **CCA0712100**
Labour Time: **1 h**

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



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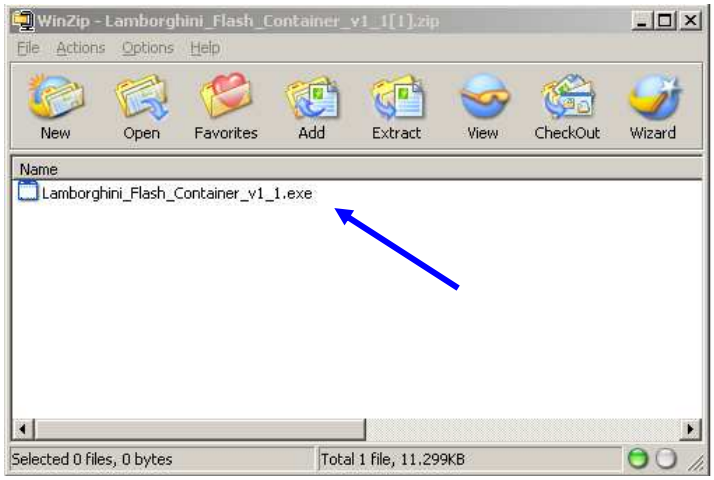
Workshop instructions

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

Preliminary operations:

Lamborghini Flash Container version1.1 download and installation procedure

1	Connect your Lamborghini Diagnosis Tester to internet and log on the Lamborghini web portal.	
2	Open the section Customer Service/Downloads/Diagnosis SW 2012	
3	Download the file “Lamborghini_flash_container_v1_1.zip”	
4	Double click on the just downloaded zip file and then open the file Lamborghini_Flash_Container_v1_1.exe, as shown in the picture beside.	

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

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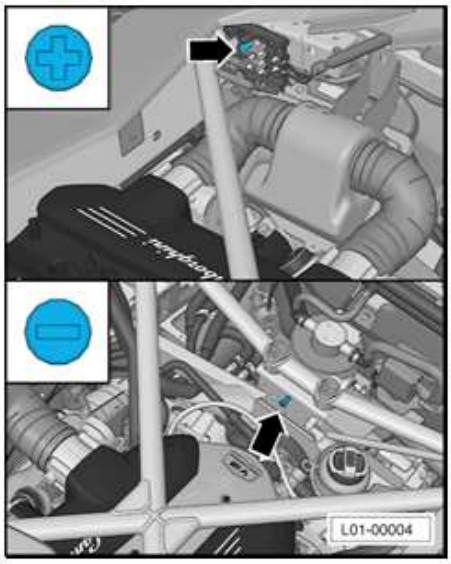
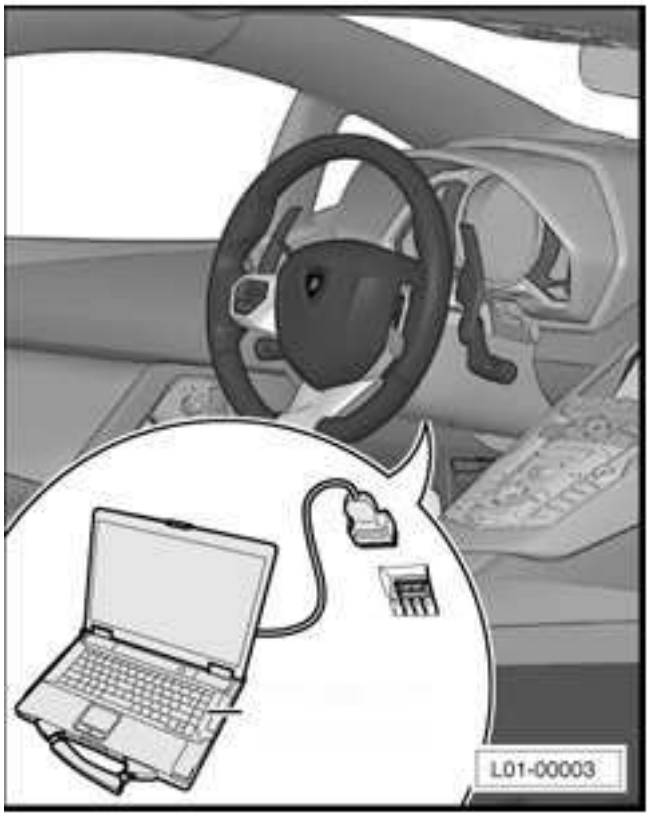
Update procedure:

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

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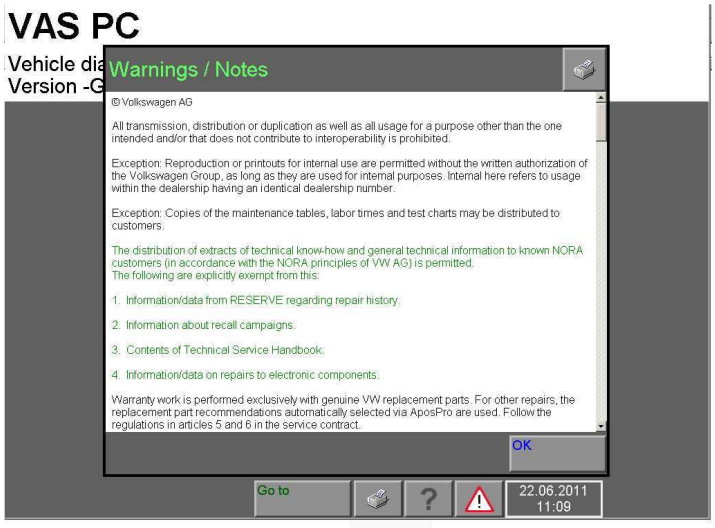
3	Start the VAS-PC double clicking on the related icon on the desktop	
4	Ignore the update message and click on OK.	
5	Click on “OK” to hide the general information window	

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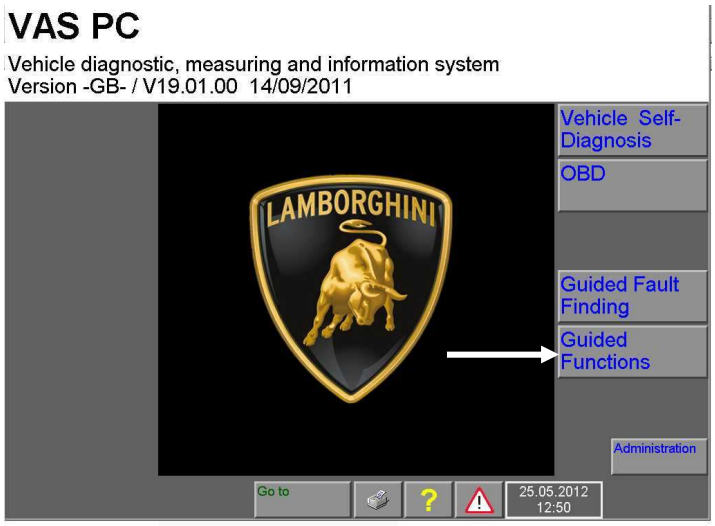
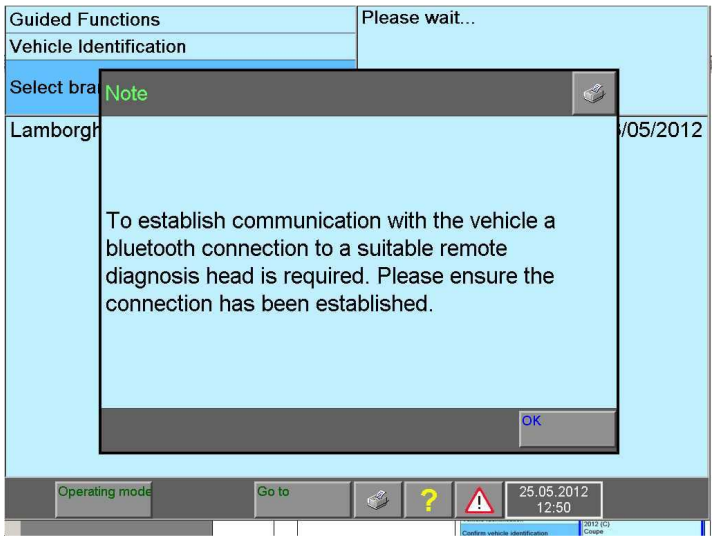
6	Select “Guided Functions”	
7	Click on “OK”	

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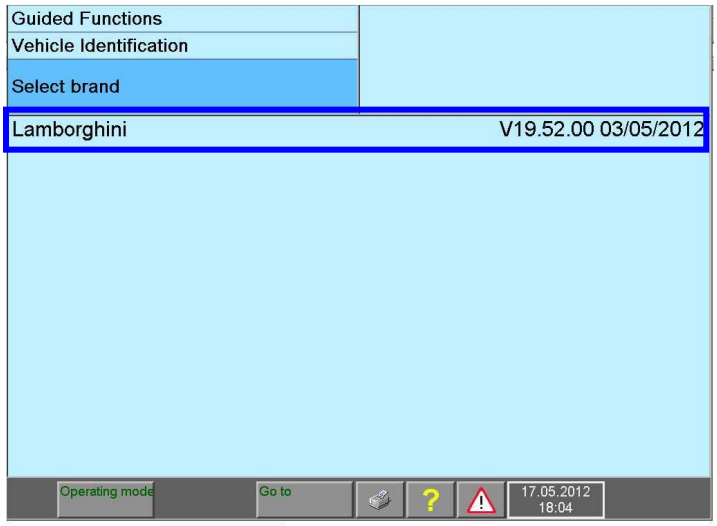
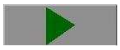
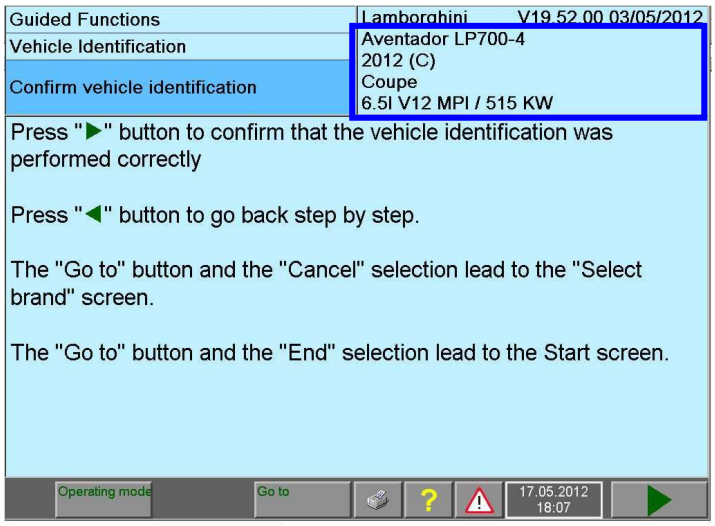
8	Click on “Lamborghini”	
9	Confirm the vehicle identification data shown on the upper right clicking on 	

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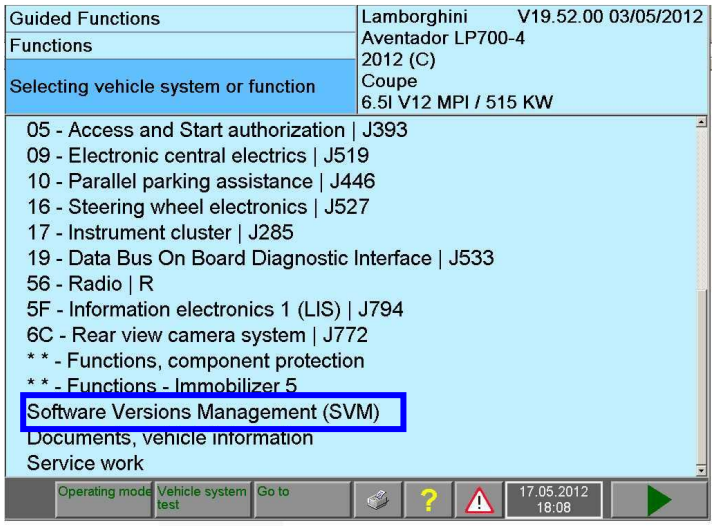
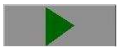
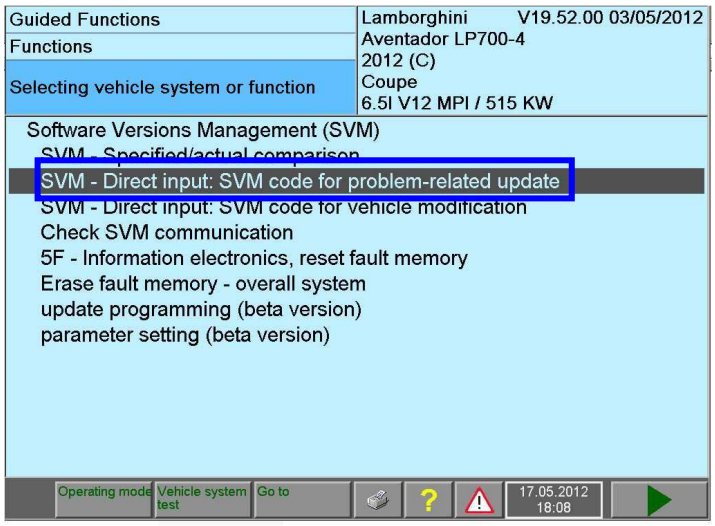
10	Scroll down the ECU list and select “Software Version Management”	
11	Select “SVM – Direct input: SVM code for problem related update” and click on  to add the program into the test plan.	

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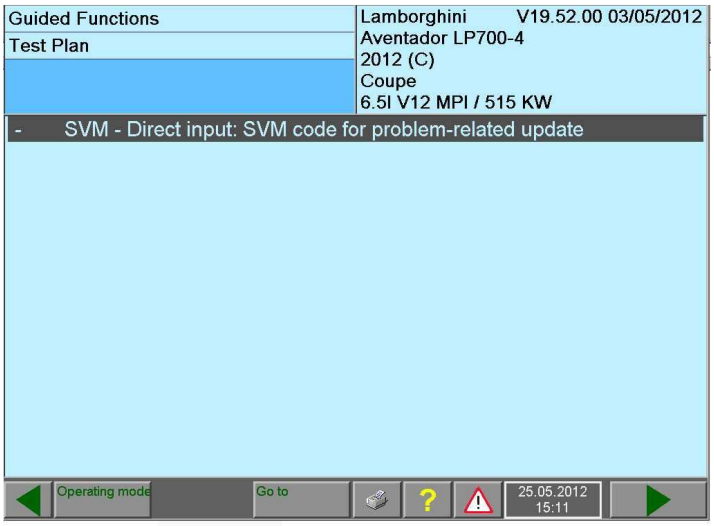
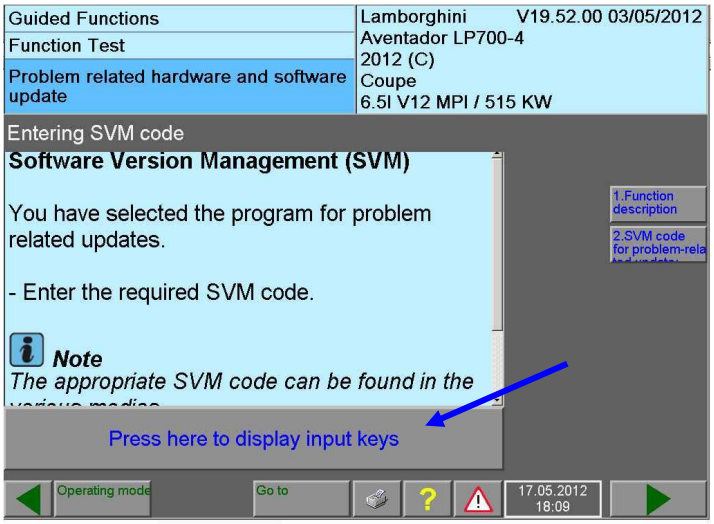
12	Run the program clicking on	
13	Click on the grey bar to enter the SVM code	

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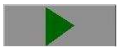
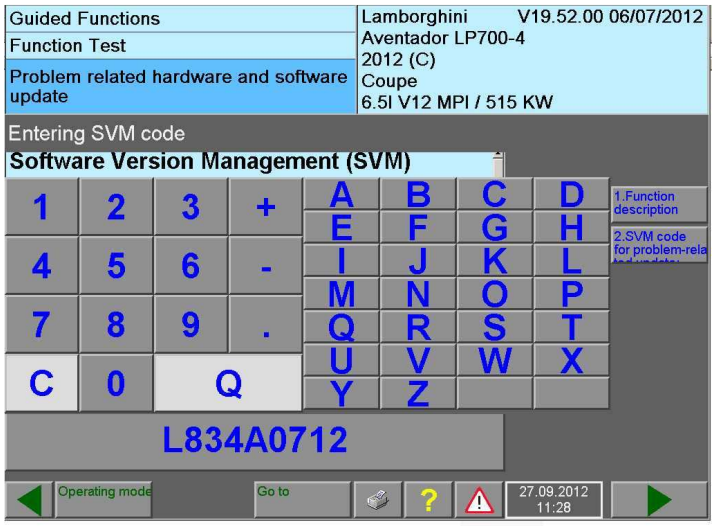
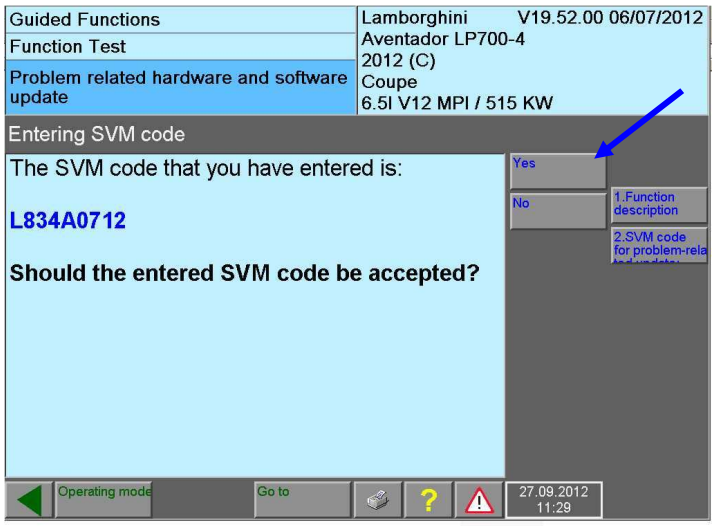
14	Enter the code **L834A0712** then click on  to confirm	
15	Confirm that the inserted code is correct clicking on “Yes”	

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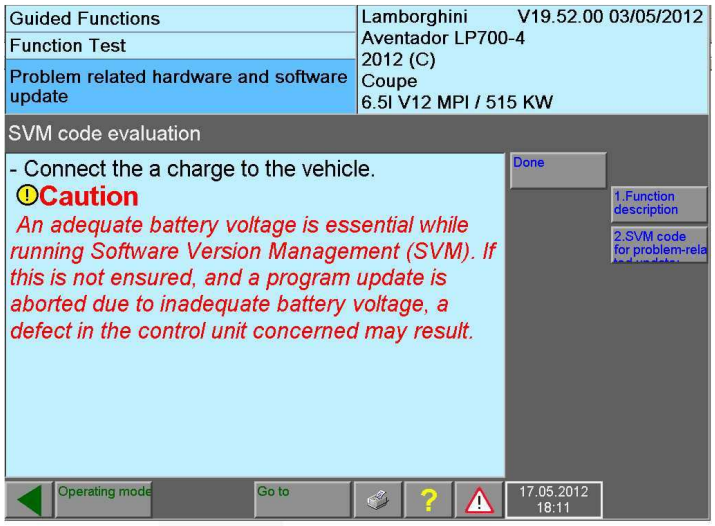
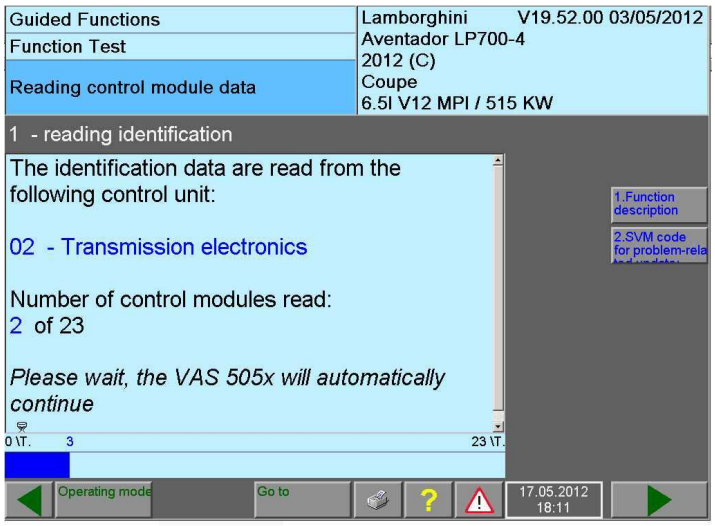
16	Click on “Done” to start the data acquisition from all the vehicle’s ECUs	
17	Wait until the data acquisition from all control modules is completed.	

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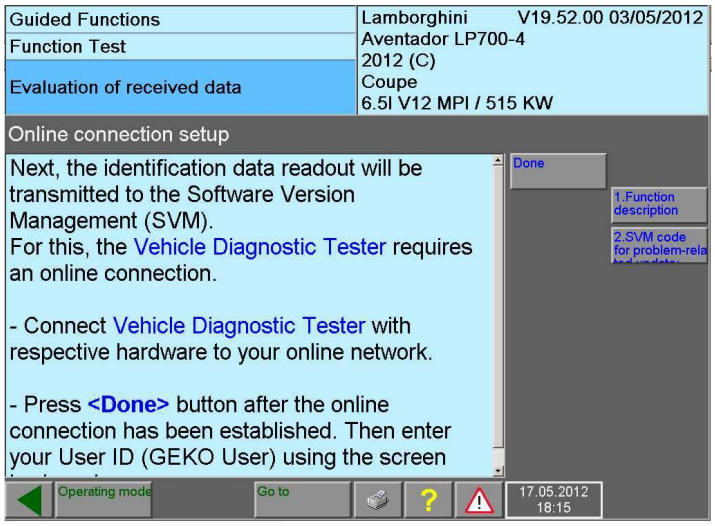
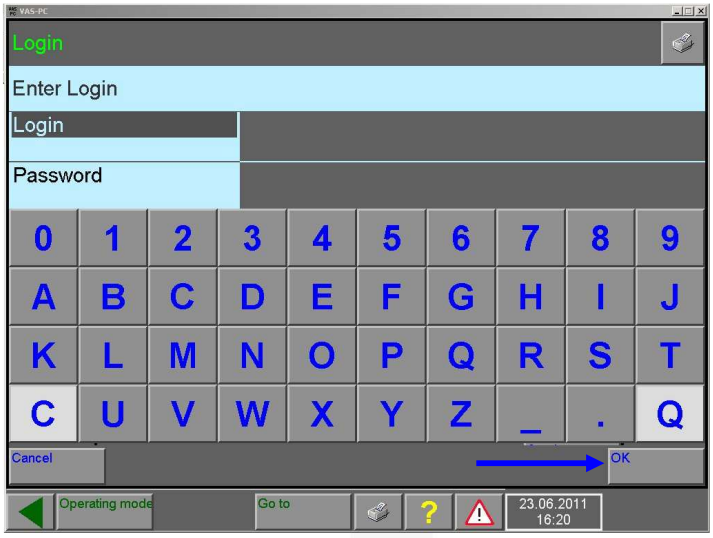
18	For the online authentication a valid GeKo account is necessary. <u>Be sure that your internet connection is working properly.</u> Click on “Done” to access the Login window	
19	Insert your GeKo user name in the field “Login” and the pin 1324 + current 6 digit code displayed on your GeKo token in the field Password. Then confirm clicking on OK	

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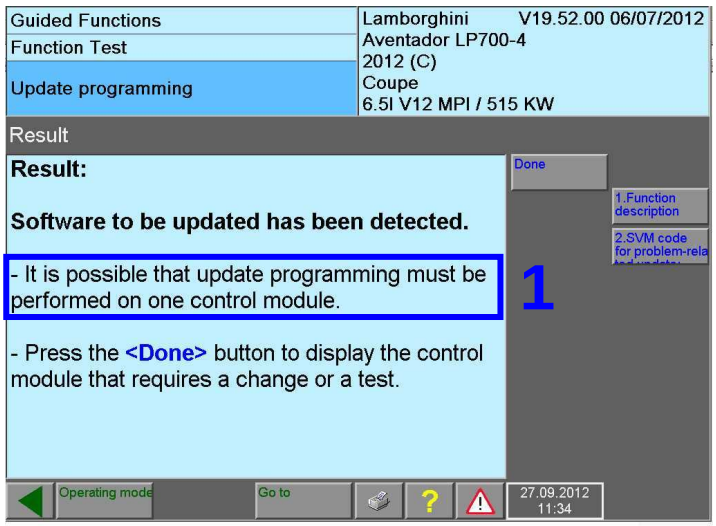
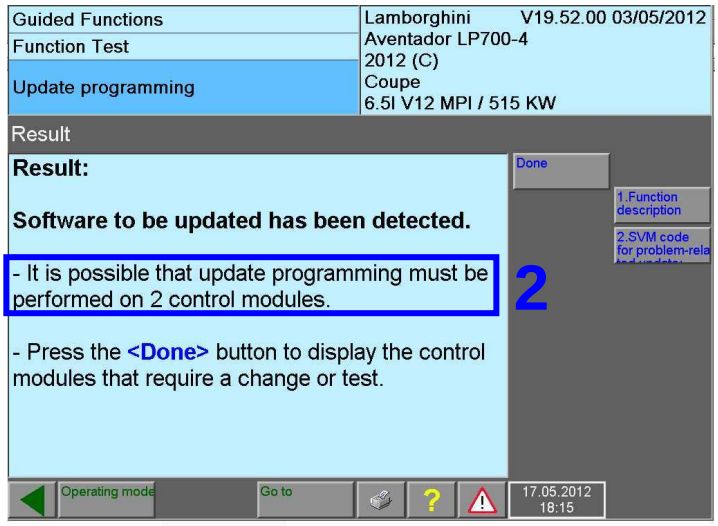
20	The communication is then established with the central server. At the end of communication you can receive 2 possible feedback: - update programming must be performed on one control module (1) or - update programming must be performed on 2 control modules (2) If the message (1) is shown, continue the procedure with the following instruction, while if the message (2) is shown, go to step **59** in order to continue the procedure. Click on “Done”	 

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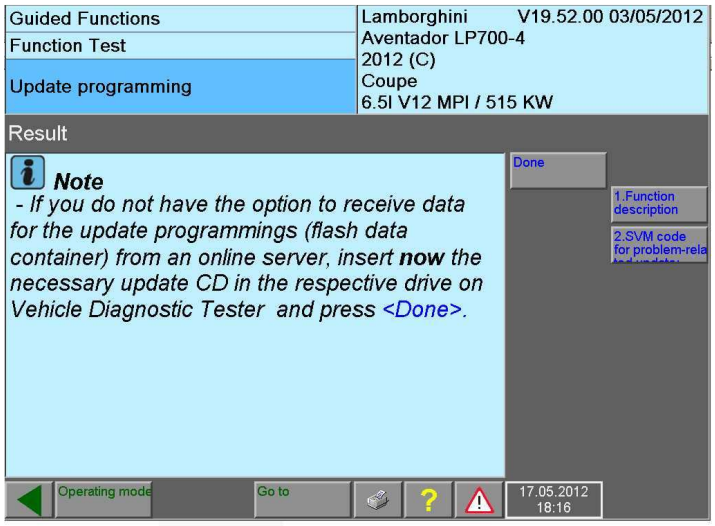
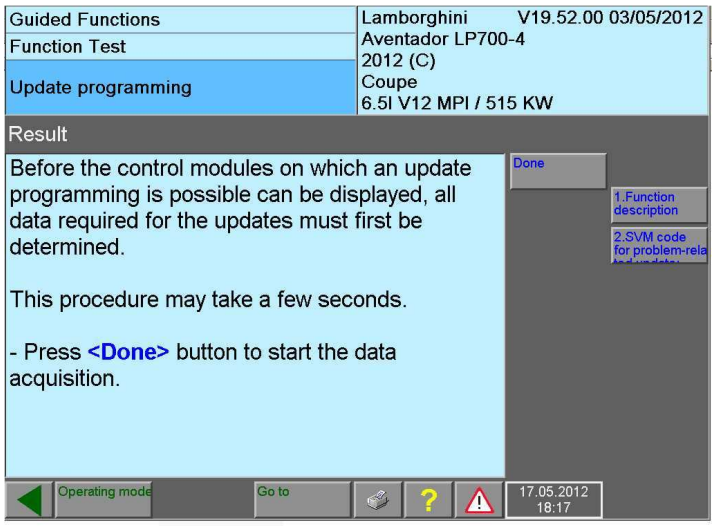
21	The flash data containers are already saved on the diagnostic laptop. Press “Done”	
22	Press “Done” to download the necessary data about the flash containers.	

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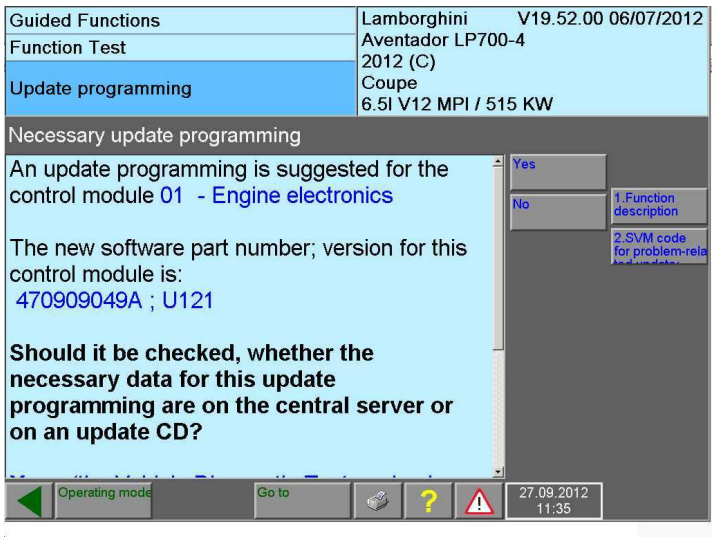
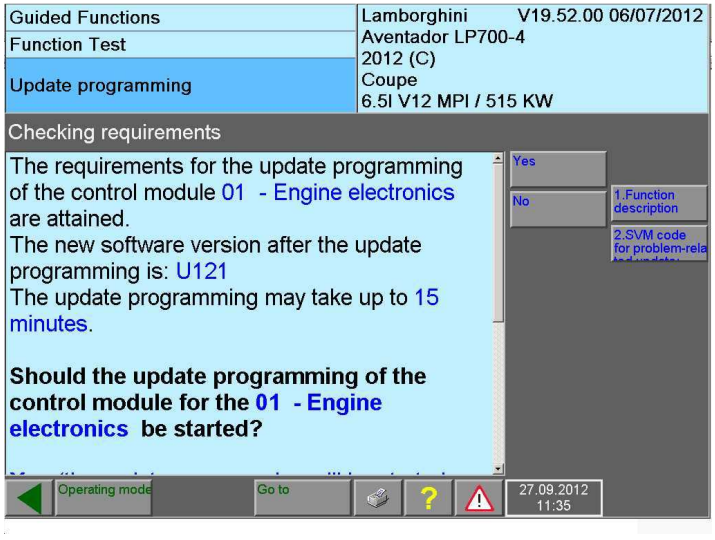
23	Depending on the market and according to car's equipment, new engine software part number and version will be **470909049A; U121** or **470909049; V121** or **470909049B; Z121** or **470909049M; Y121** or **470909049J; W121** Click on "Yes"	
24	Click on "Yes" in order to start the update programming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

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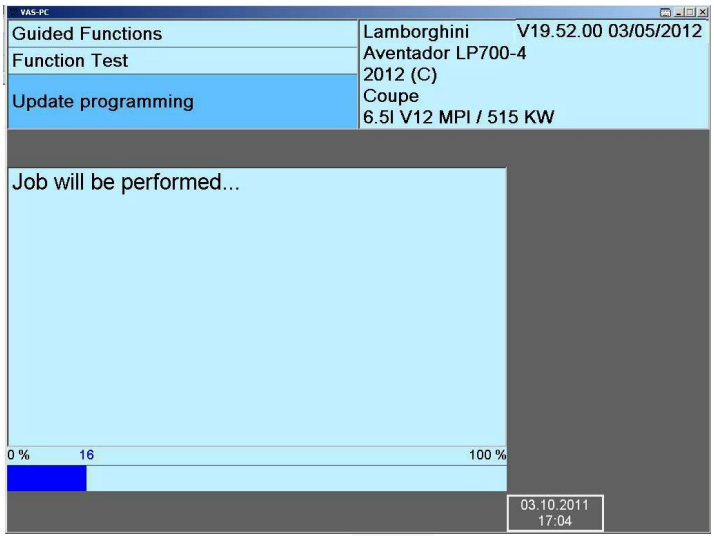
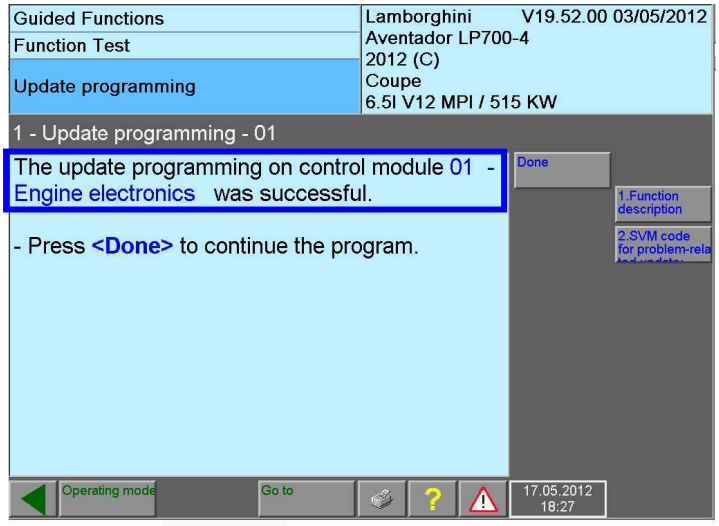
25	Wait until the update programming of the engine ECU is completed	
26	Once the update programming has been completed successfully a feedback as in the picture beside is displayed. Press “Done” to start the update programming of the gearbox ECU. If the update programming has not been completed or has been unsuccessful: - turn the ignition OFF - wait 1 minute before turning the ignition ON again - if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step **11**	

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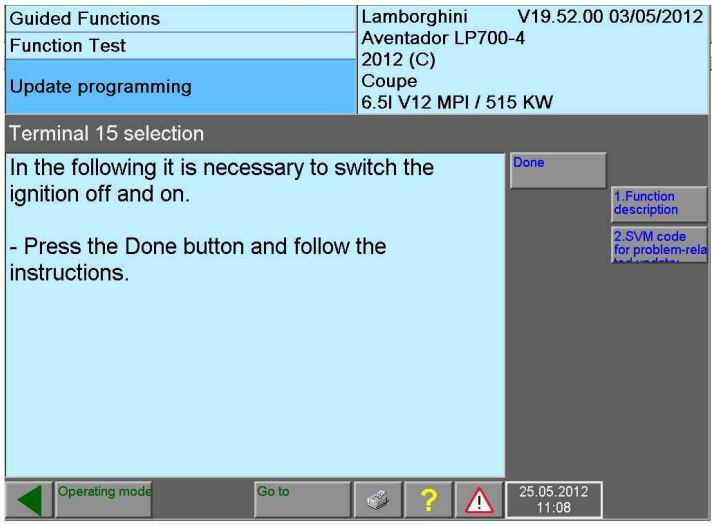
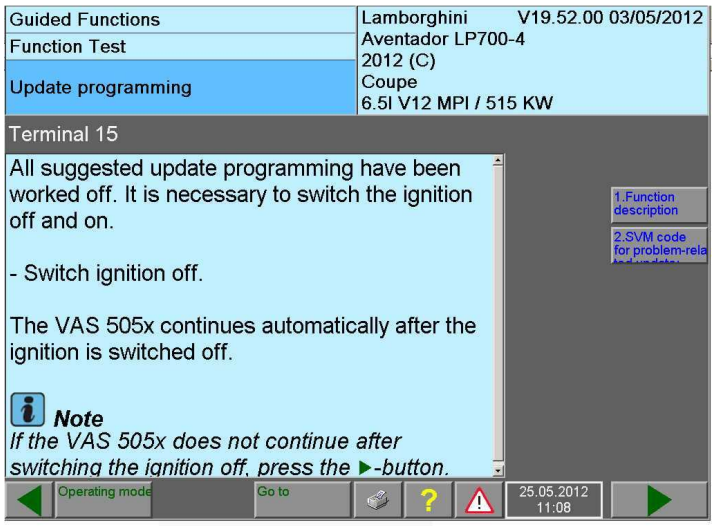
27	In the following an ignition OFF – ON cycle is necessary to restart both the ECU. Press “Done” to continue.	
28	Switch the ignition OFF.	

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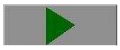
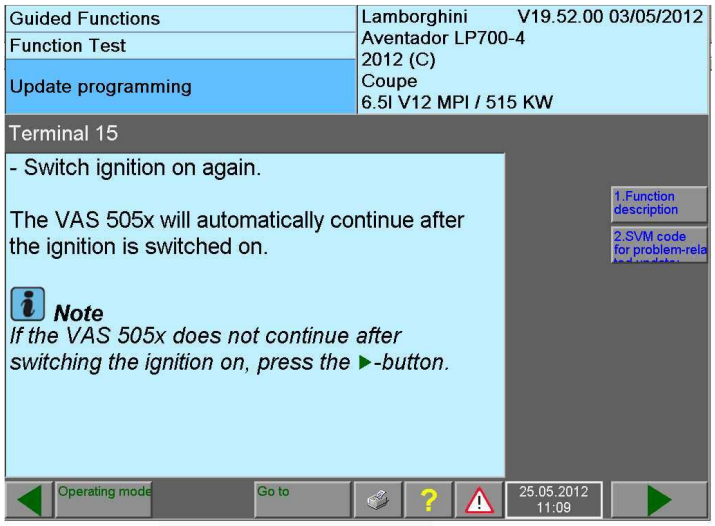
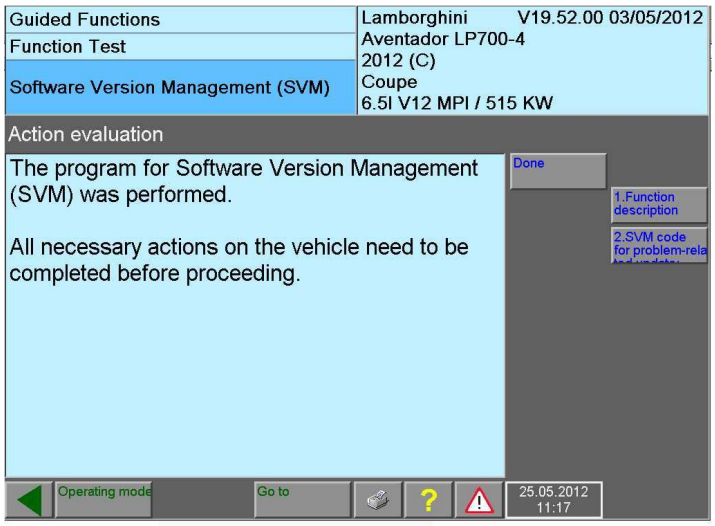
29	**<u>Wait 1 minute before switching the ignition back ON again.</u>** Then press on 	
30	Press “Done”	

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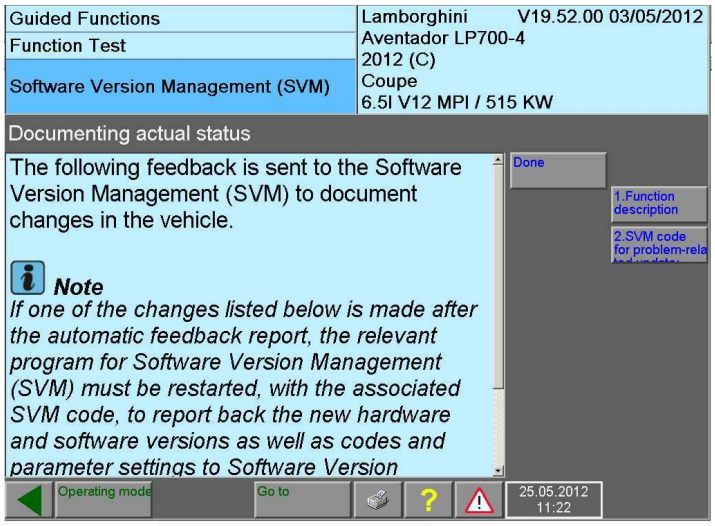
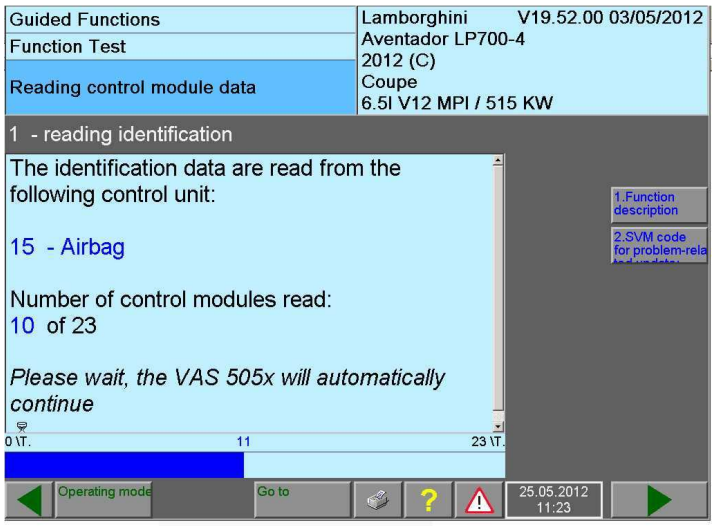
31	Press “Done” to start the data report	
32	Wait until the data acquisition from all the control modules is completed	

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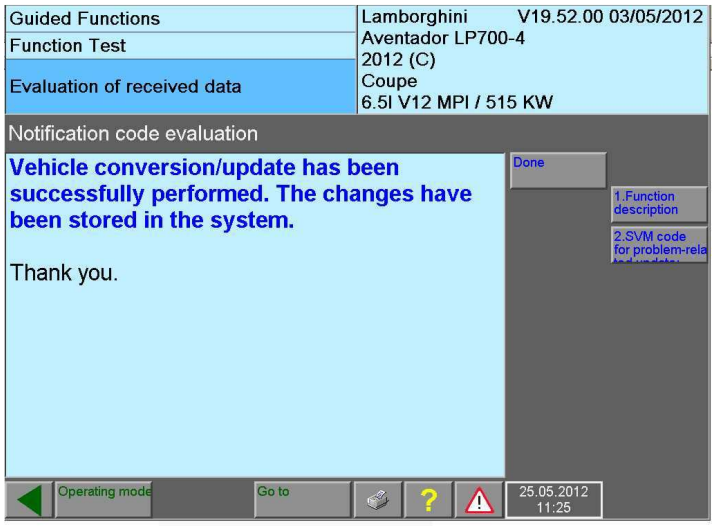
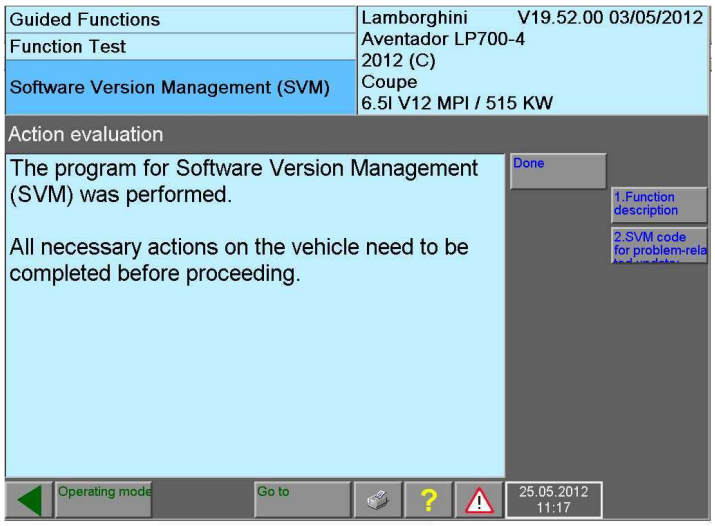
33	Once the data report has been sent to the servers a feedback as in the picture beside is displayed. The software update of engine and gearbox ECU has been completed successfully and all the information have been stored in the system. Press on “Done”	
34	Press on “Done” to exit the program	

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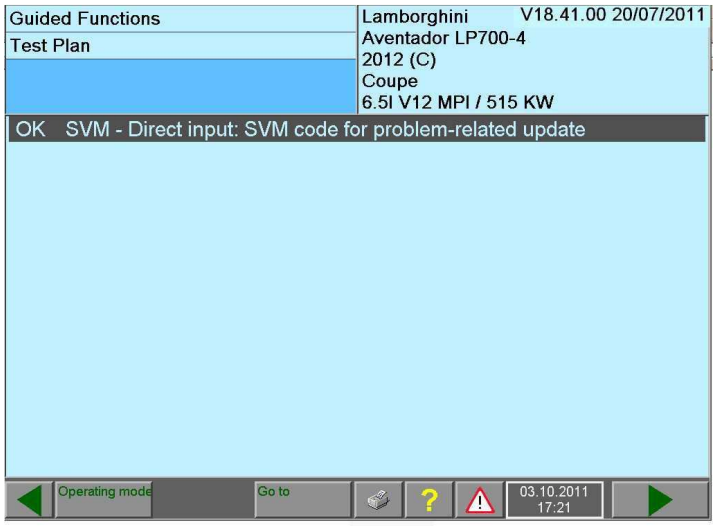
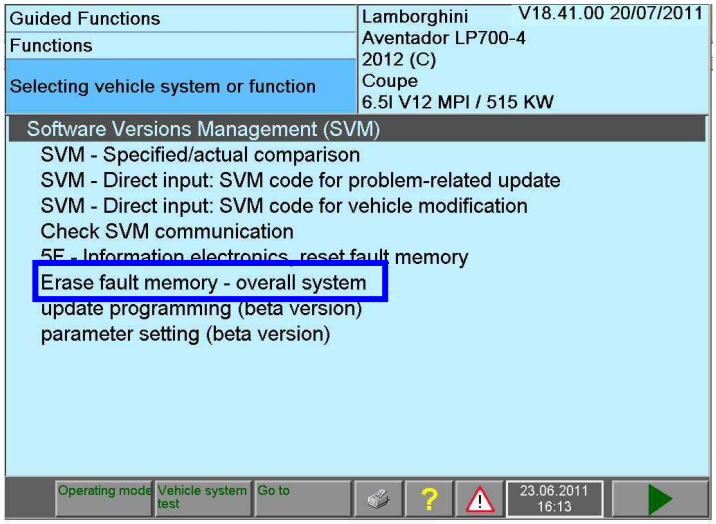
35	Go back to the Software Version Management menu clicking on	
36	Select and run the program “Erase fault memory – overall systems” to clear all the faults stored because of the software update.	

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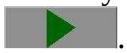
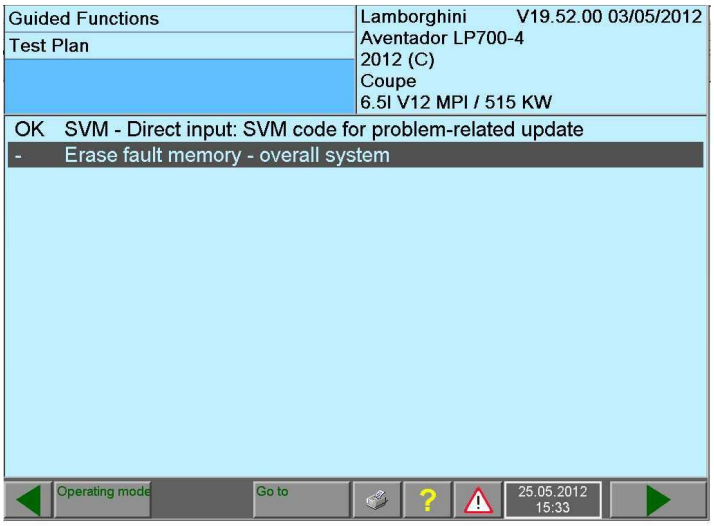
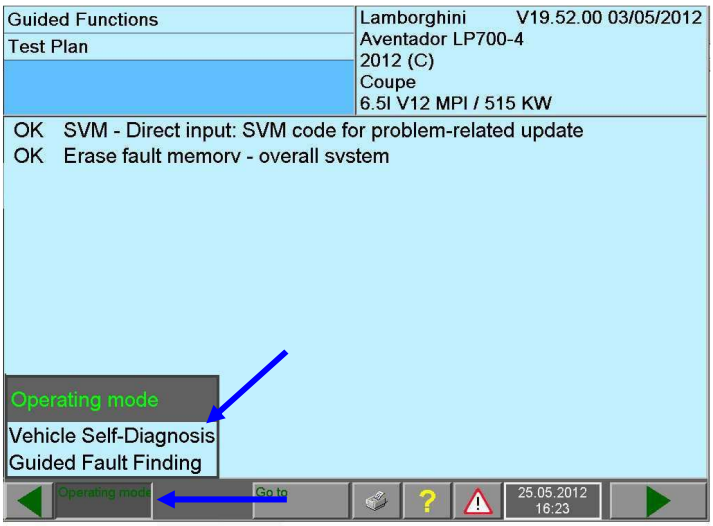
37	Execute the program “Erase fault memory – overall system” clicking on  .	
38	Select “Operating Mode” and then click on “Vehicle Self-Diagnosis”	

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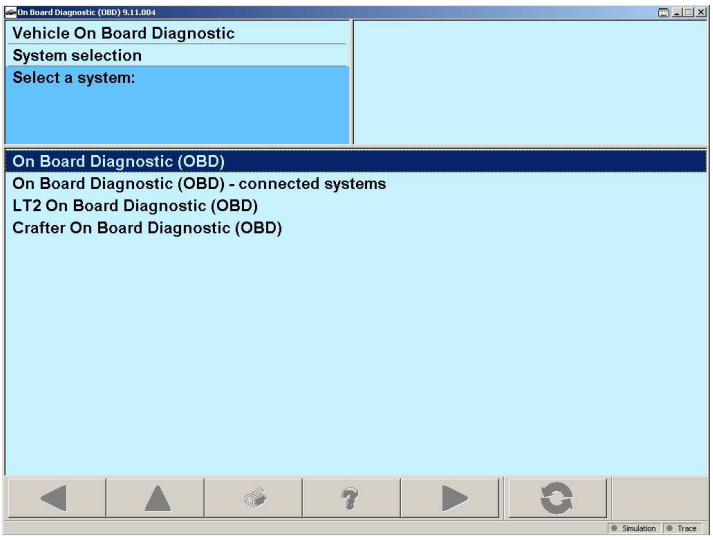
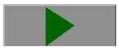
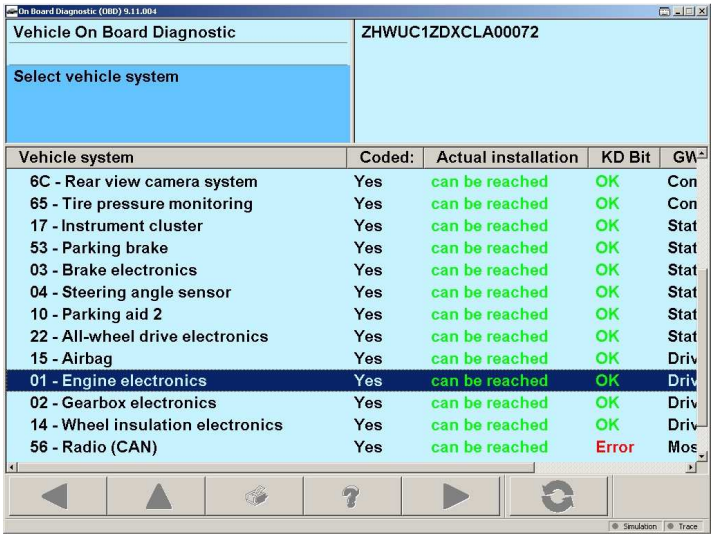
39	Select “On Board Diagnostic (OBD)” and then click on	
40	Scroll down the ECU list, select “01 – Engine electronics” and then confirm clicking on 	

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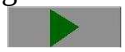
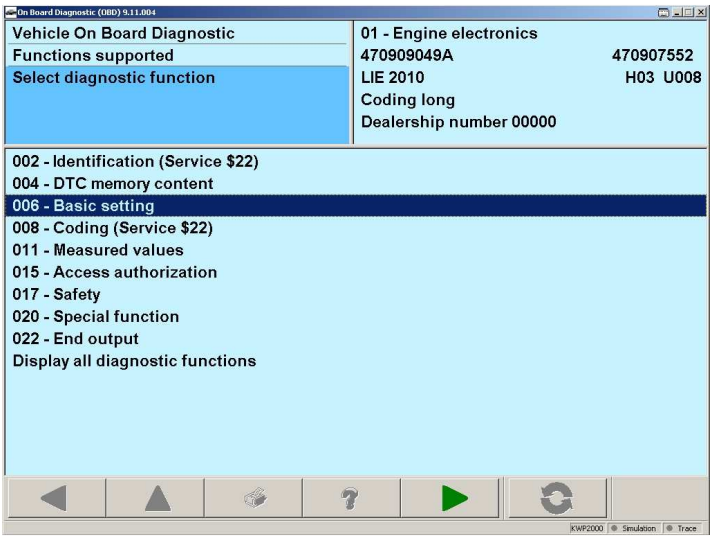
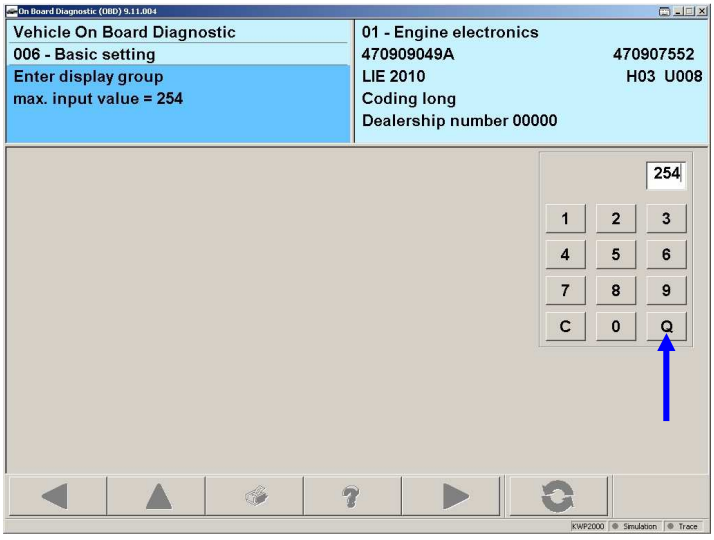
41	Select “Basic Settings” and then confirm clicking on 	
42	Insert the value **254** and then confirm clicking on “Q”	

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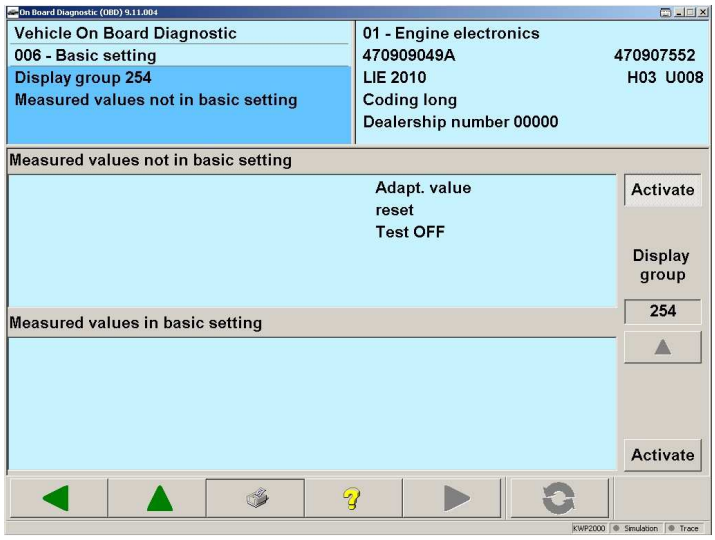
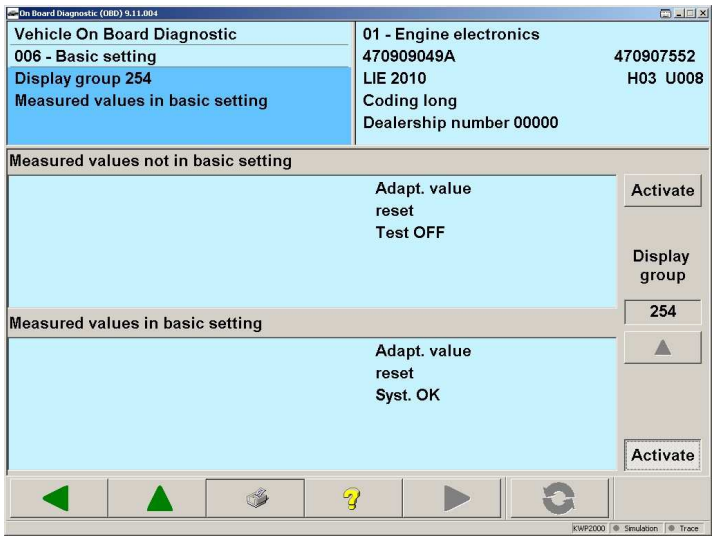
43	Click on “Activate” on bottom right in order to start the reset for auto adaptation values.	
44	Wait until the feedback message is shown. If the procedure has been performed successfully the message **Syst.OK** will appear, as shown in the picture beside. If the procedure has not been performed successfully: • turn the ignition OFF • wait at least 1 minute before turn the ignition ON again • repeat the program from step **41**	

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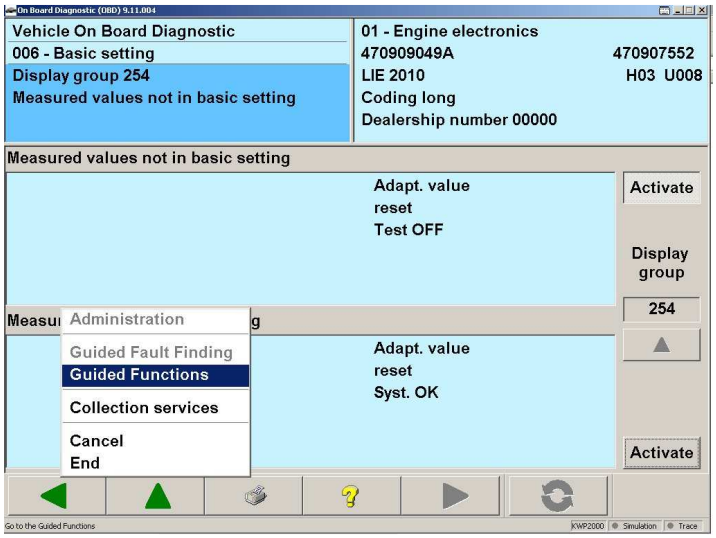
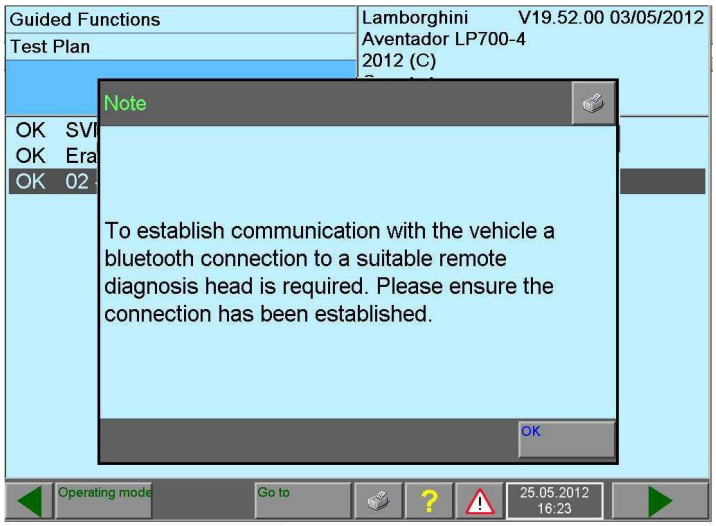
45	Go back to the test plan clicking on the button and then selecting “Guided Functions”	
46	Click on “OK”	

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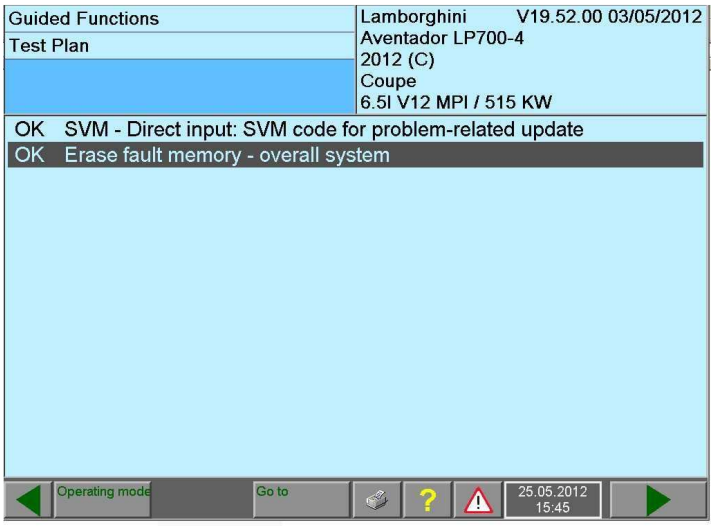
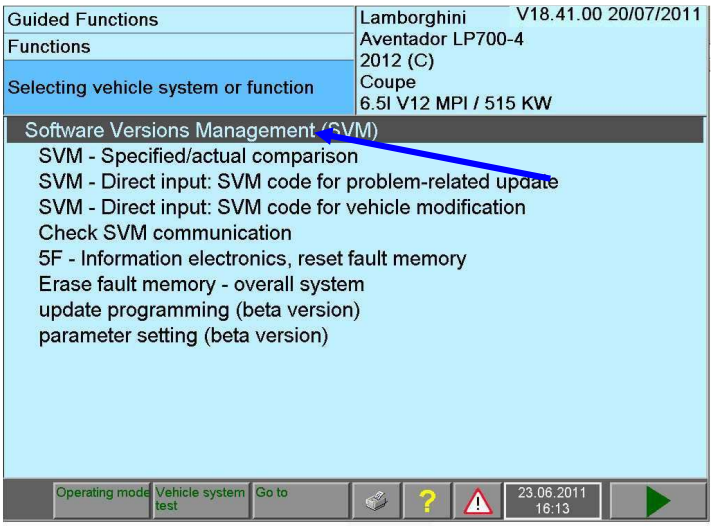
47	Go back to functions menu clicking on	
48	Go back to the ECUs list clicking on “Software Version Management (SVM)”	

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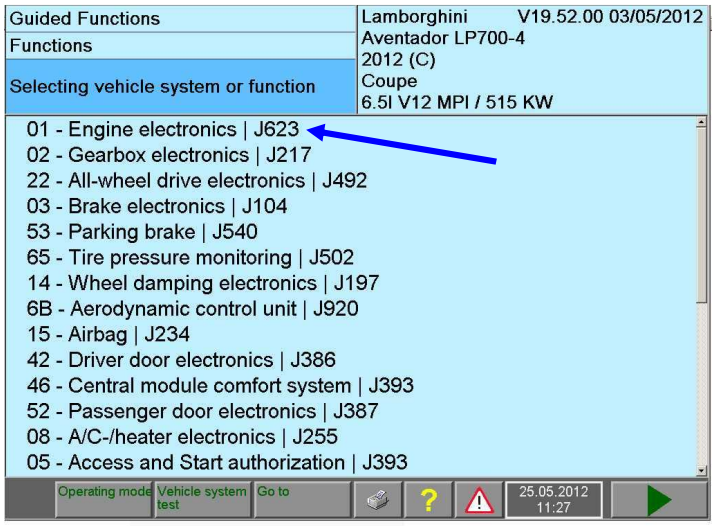
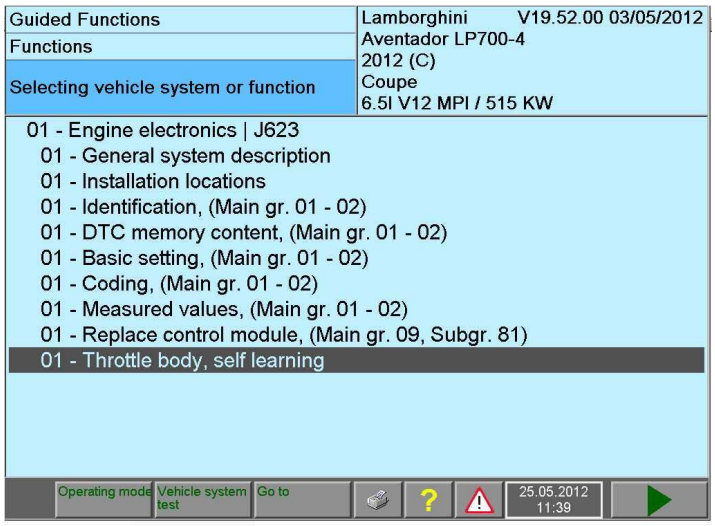
49	Select “01 – Engine electronics”	
50	Select the program “01 – Throttle bodies, self learning”	

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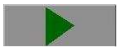
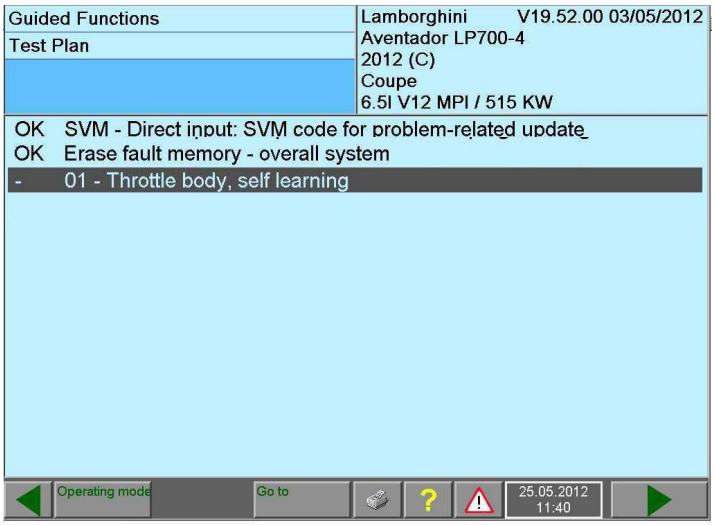
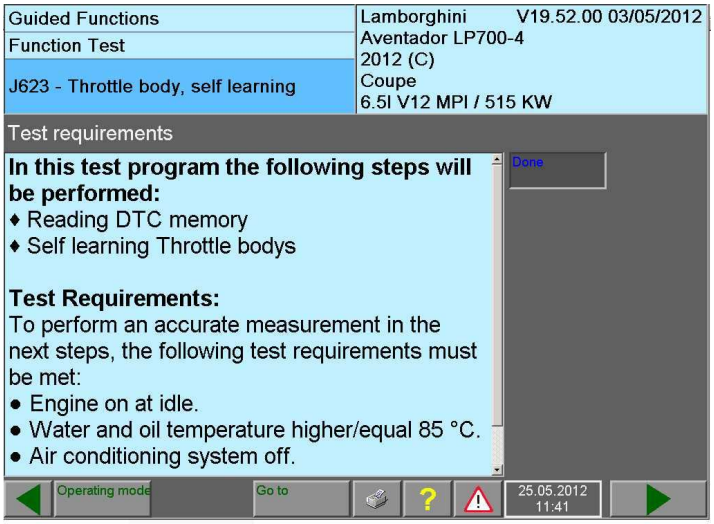
51	Execute the program clicking on 	
52	**Be sure that Air Conditioning is OFF** Cliccare su “Done”	

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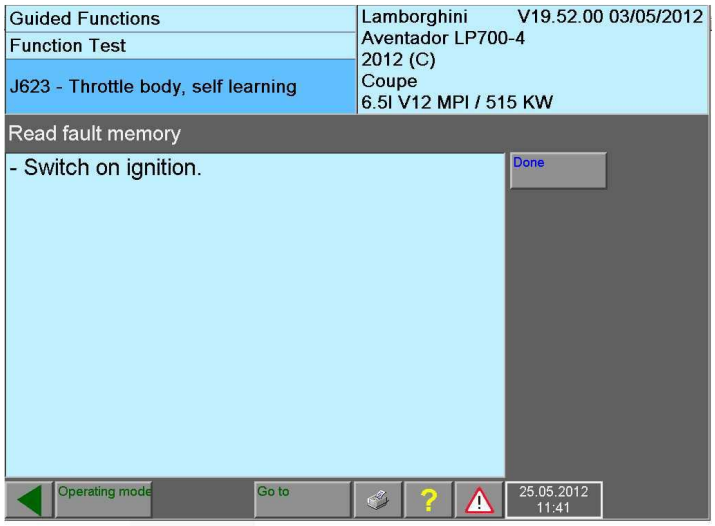
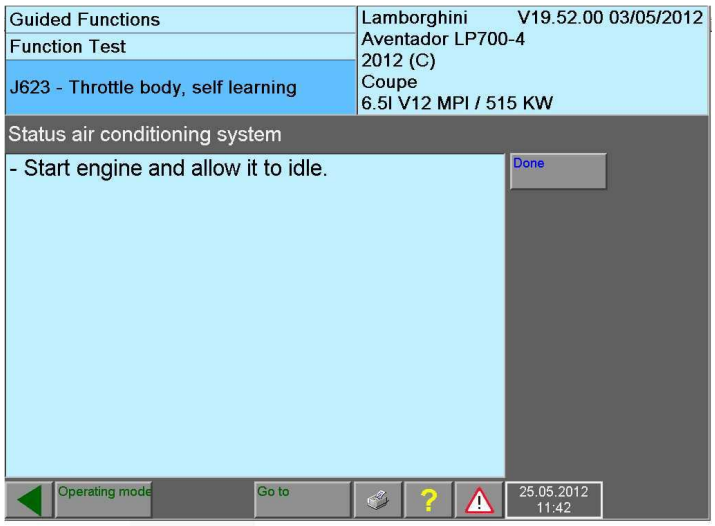
53	Switch the ignition ON. Click on “Done”	
54	Start the engine at idle. Click on “Done”	

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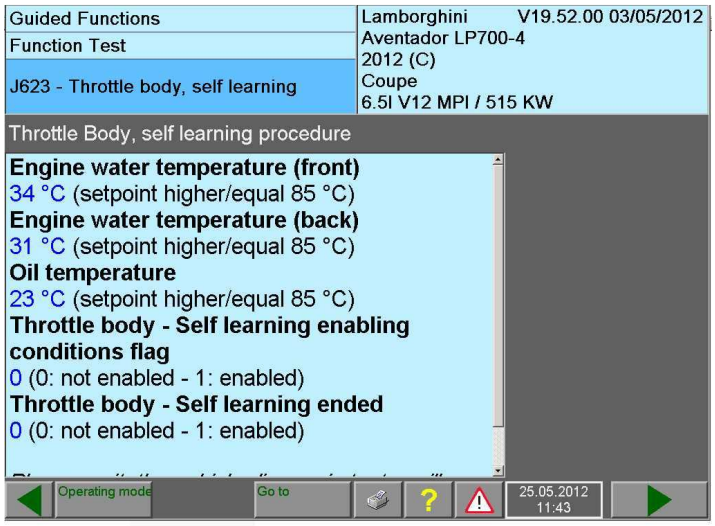
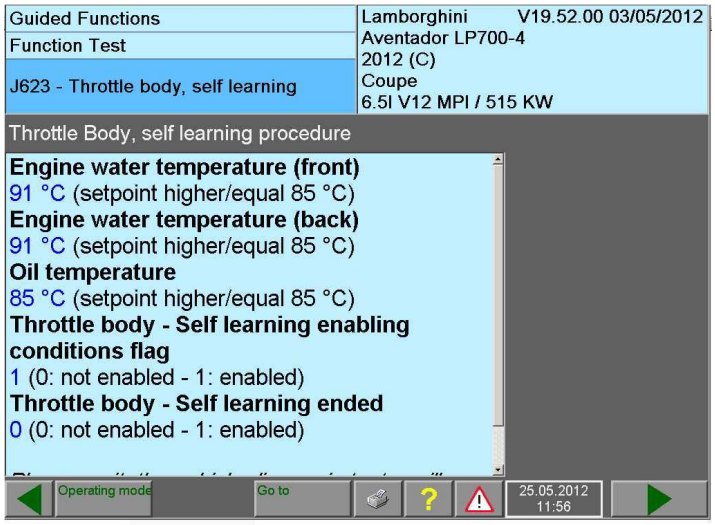
55	Self learning is an automatic procedure and it is activated when engine water and oil temperature exceed 85 °C. Check the parameters from VAS-PC and wait until temperatures reach the target Don't perform any action on the car (e.g. pushing the accelerator pedal) if not necessary.	
56	Once temperatures reach the activation conditions the "Throttle body – Self learning condition flag" changes from 0 to 1 indicating the start of the self learning procedure.	

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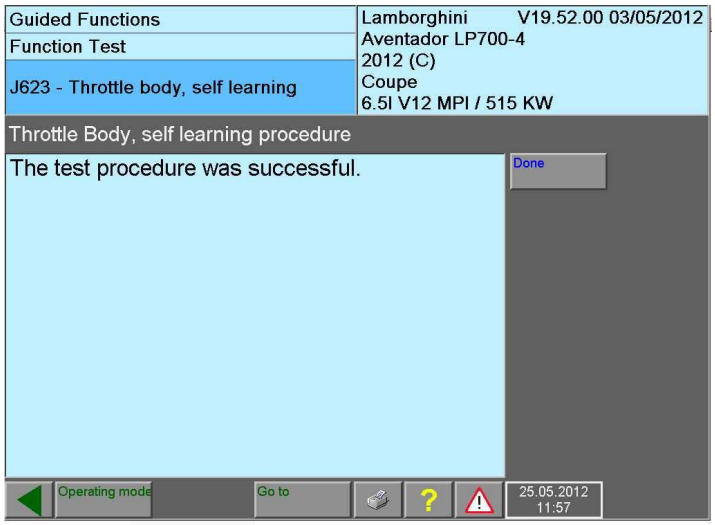
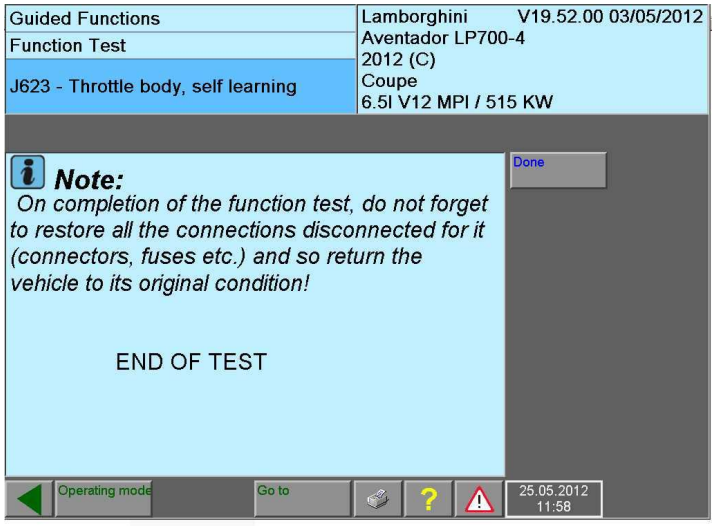
57	If the self learning is completed successfully a screen as in the picture beside is shown. Click on “Done”. If in 10 minutes from the activation the procedure has not been completed, interrupt and check if: • air conditioning is OFF • DTC memory of Engine ECU is empty Switch the ignition OFF for at least 1 minute and repeat the program.	
58	Click on “Done” in order to end the program.	

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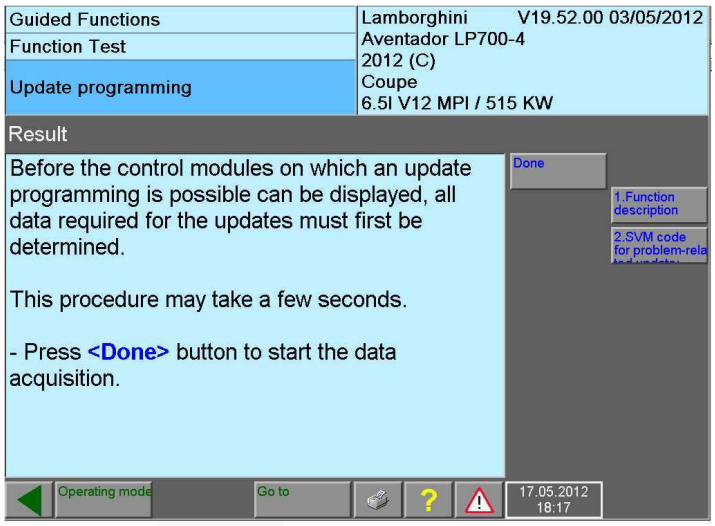
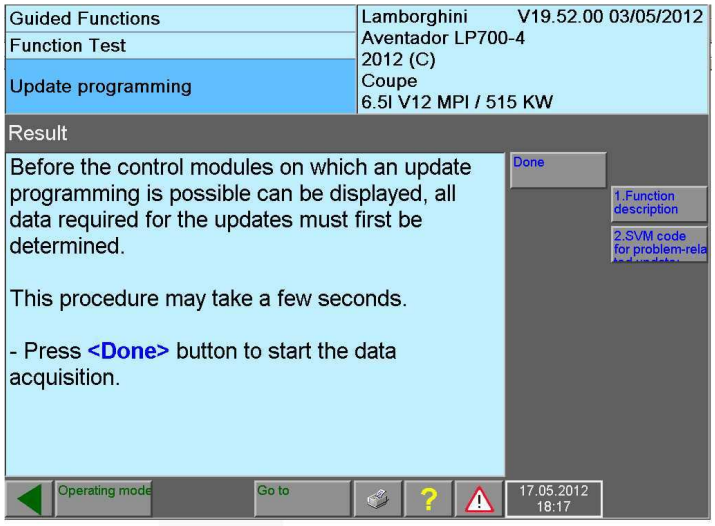
59	**<u>Continue from step 20</u>** Press “Done” to download the necessary data about the flash containers.	
60	Press “Done” to download the necessary data about the flash containers.	

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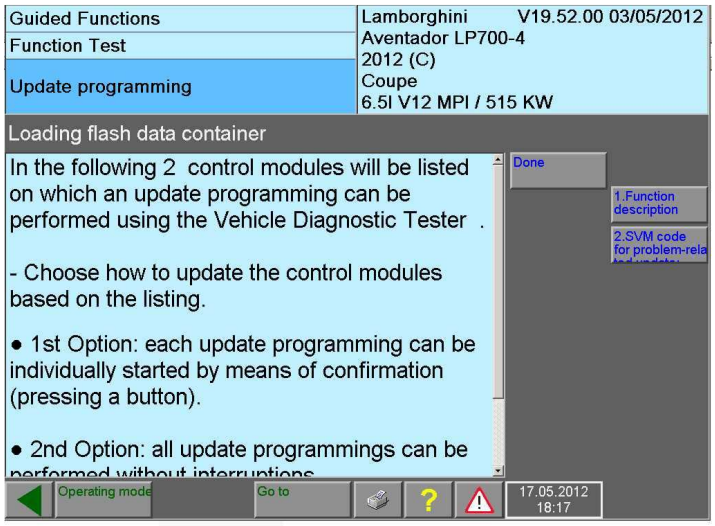
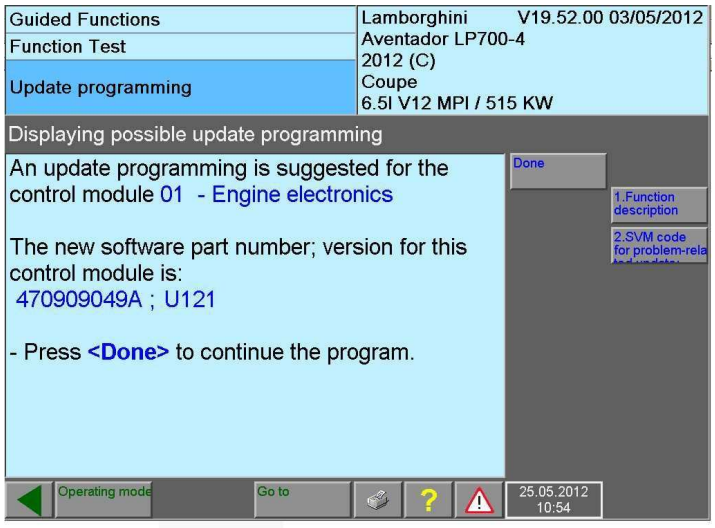
61	Click on “Done”	
62	Depending on the market and according to car’s equipment, new engine software part number and version will be **470909049A; U121** or **470909049; V121** or **470909049B; Z121** or **470909049M; Y121** or **470909049J; W121** Click on “Yes”	

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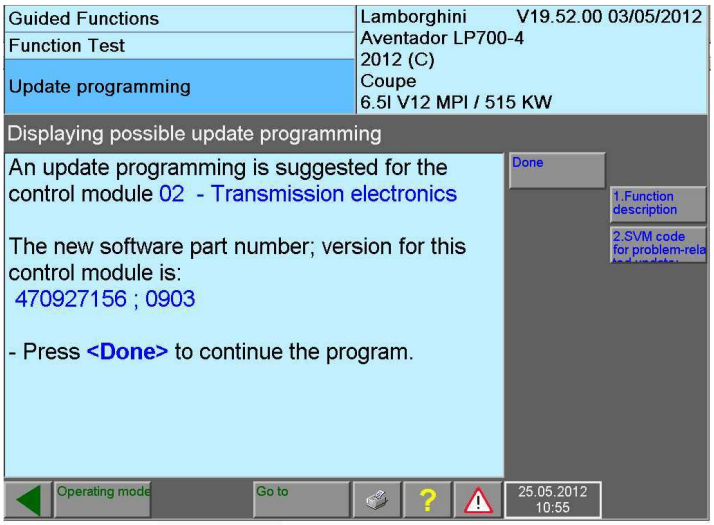
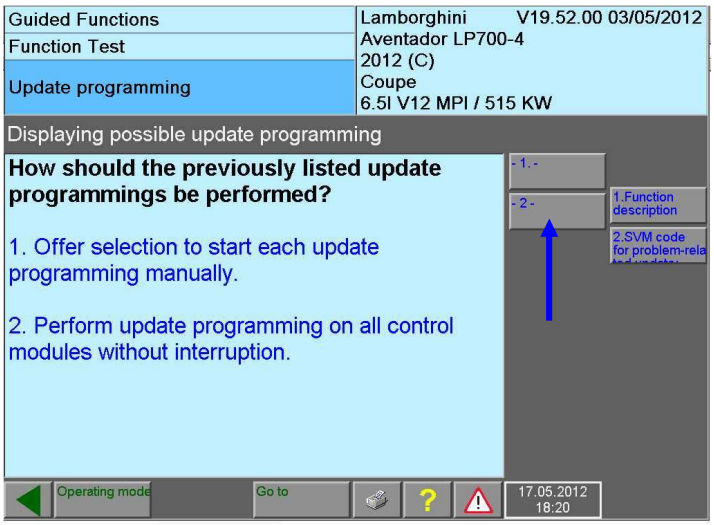
63	The new gearbox software part number and version will be **470927156; 0903** Press “Done” to continue.	
64	Select the option no.2 “Perform update programming on all control modules without interruption”	

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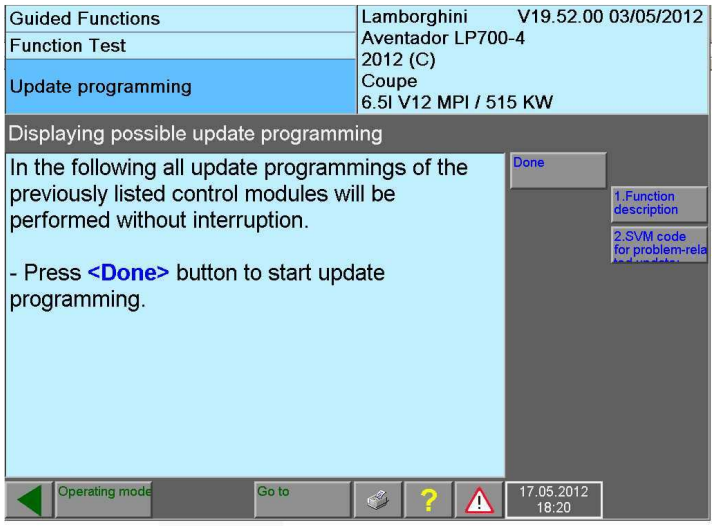
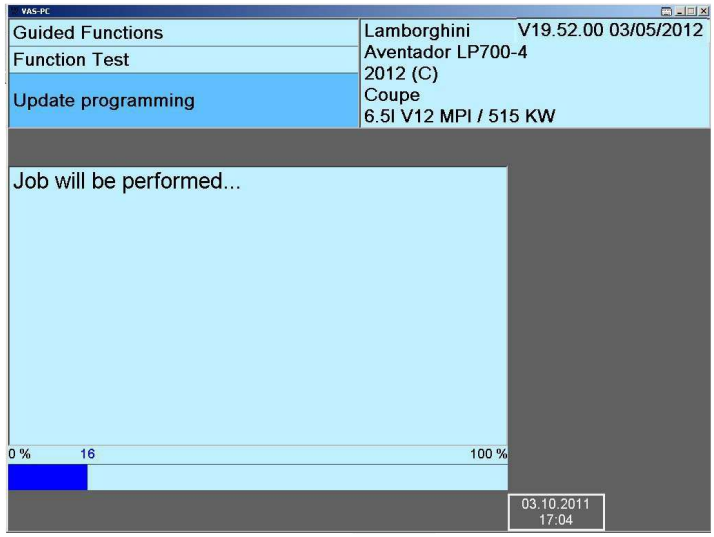
65	Click on “Done” to start the flash update for both ECUs	
66	Wait until the update programming of the engine ECU is completed	

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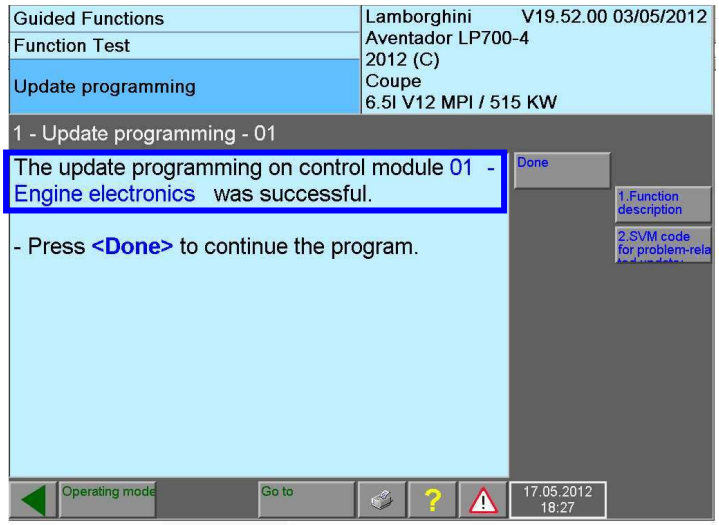
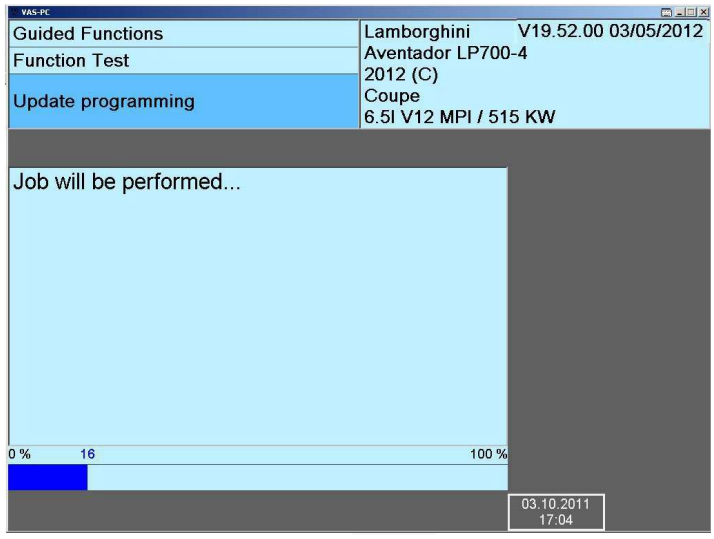
67	Once the update programming has been completed successfully a feedback as in the picture beside is displayed. Press “Done” to start the update programming of the gearbox ECU. If the update programming has not been completed or has been unsuccessful: - turn the ignition OFF - wait 1 minute before turning the ignition ON again - if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step **11**	
68	Wait until the update programming of the gearbox ECU is completed.	

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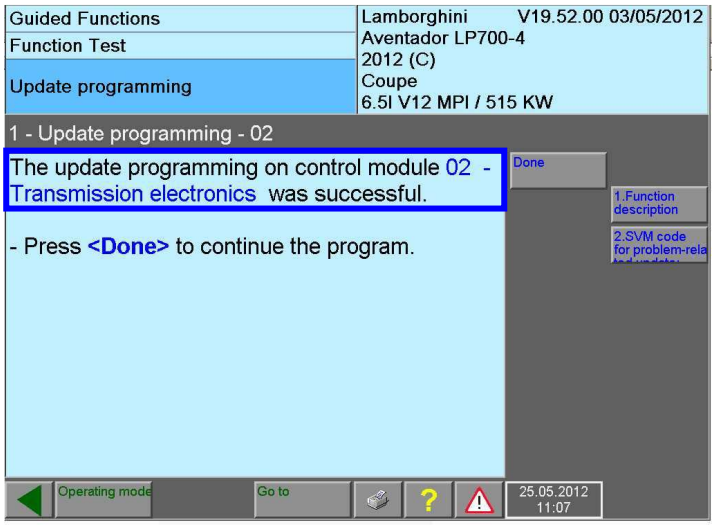
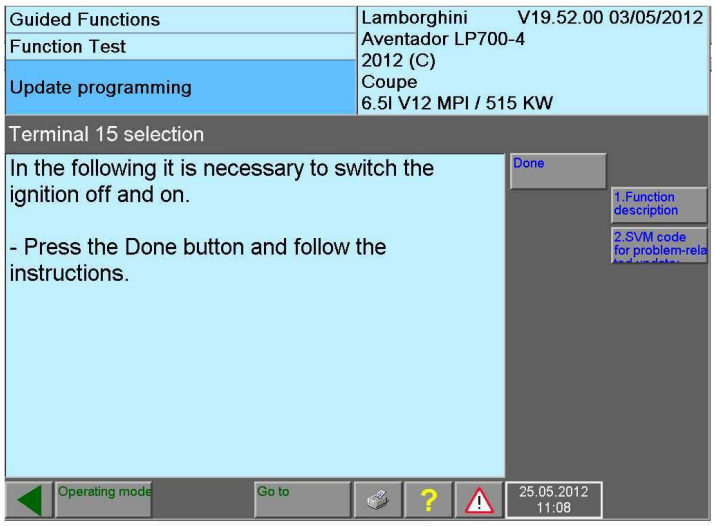
69	Once the update programming has been completed successfully a feedback as in the picture beside is displayed. Press “Done” to continue. If the update programming has not been completed or has been unsuccessful: - turn the ignition OFF - wait 1 minute before turning the ignition ON again - if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step **11**	
70	In the following an ignition OFF – ON cycle is necessary to restart both the ECU. Press “Done” to continue.	

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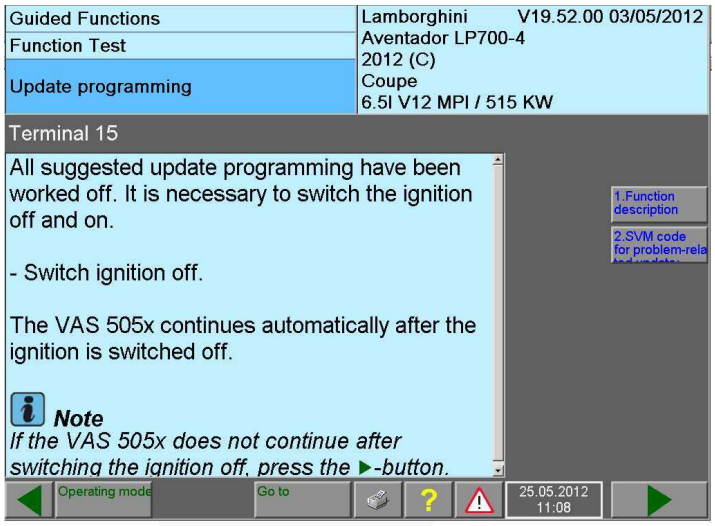
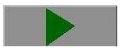
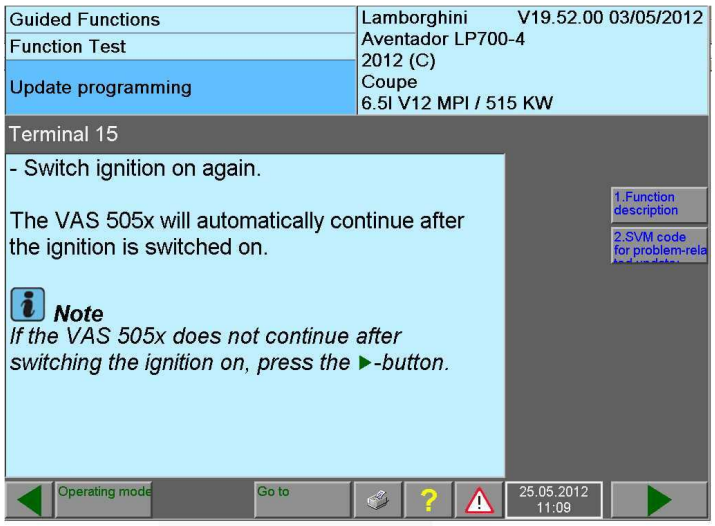
71	Switch the ignition OFF.	
72	**<u>Wait 1 minute before switching the ignition back ON again.</u>** Then press on 	

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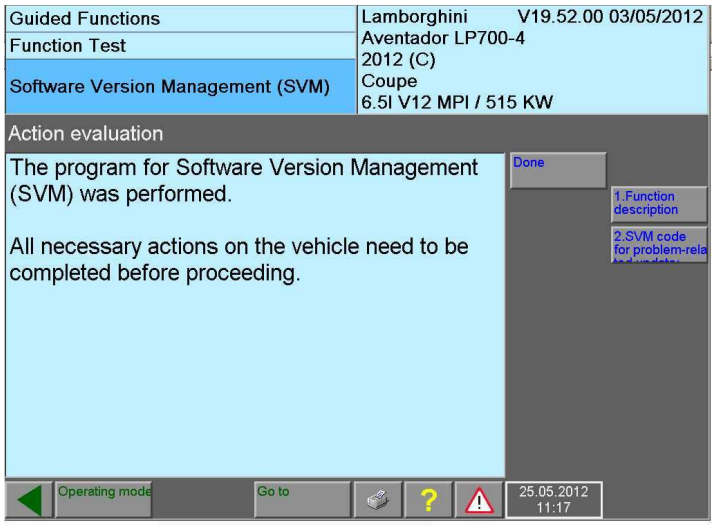
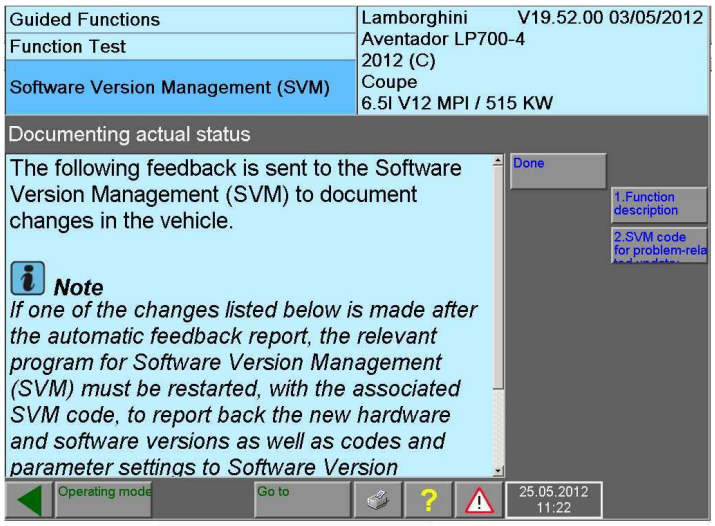
73	Press “Done”	
74	Press “Done” to start the data report	

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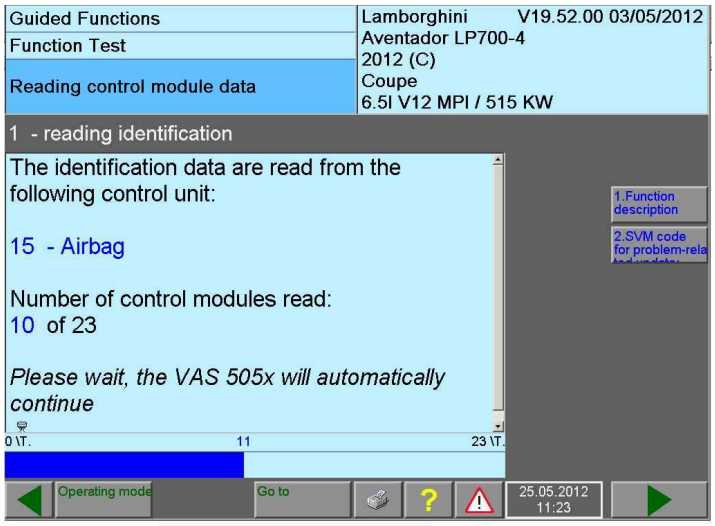
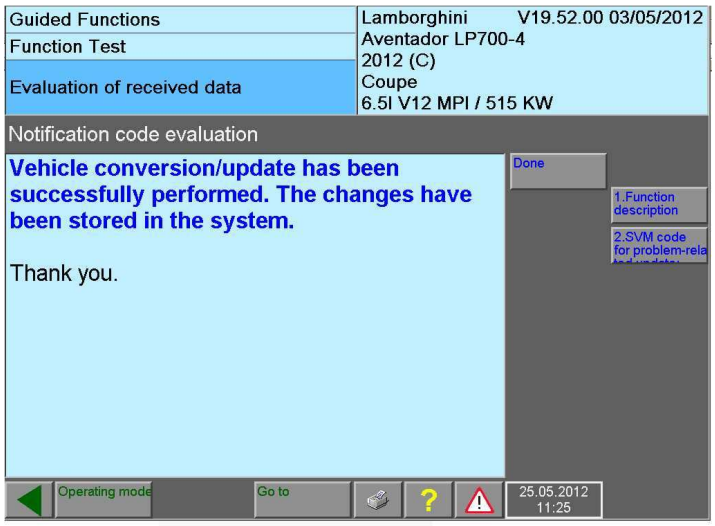
75	Wait until the data acquisition from all the control modules is completed	
76	Once the data report has been sent to the servers a feedback as in the picture beside is displayed. The software update of engine and gearbox ECU has been completed successfully and all the information have been stored in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

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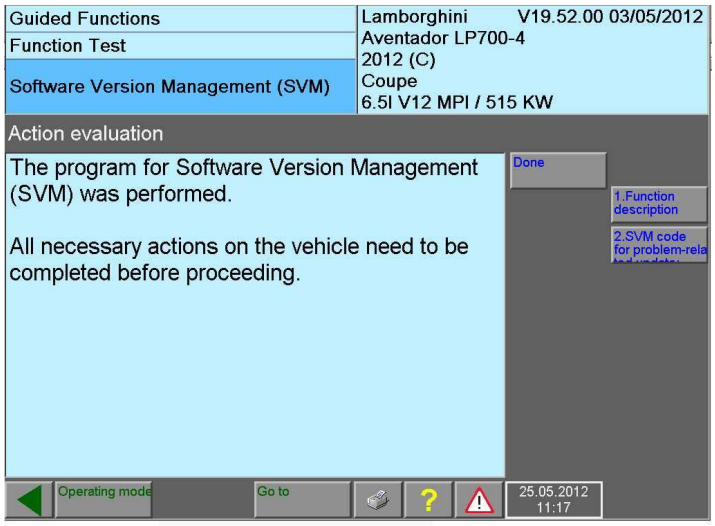
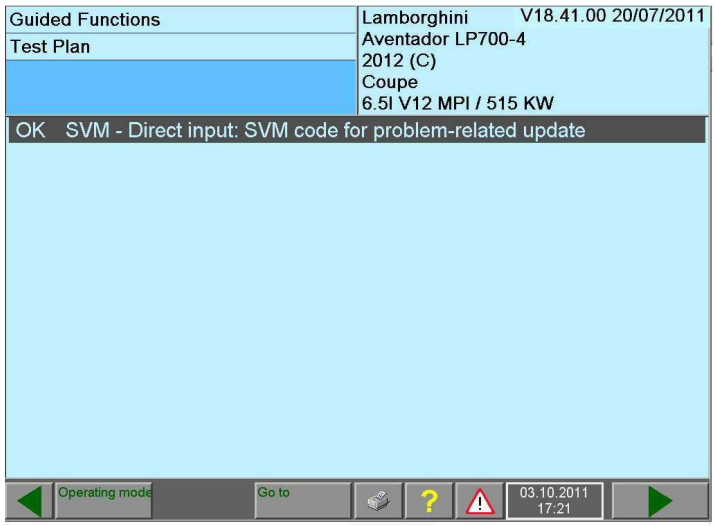
77	Press on “Done” to exit the program	
78	Go back to the Software Version Management menu clicking on	

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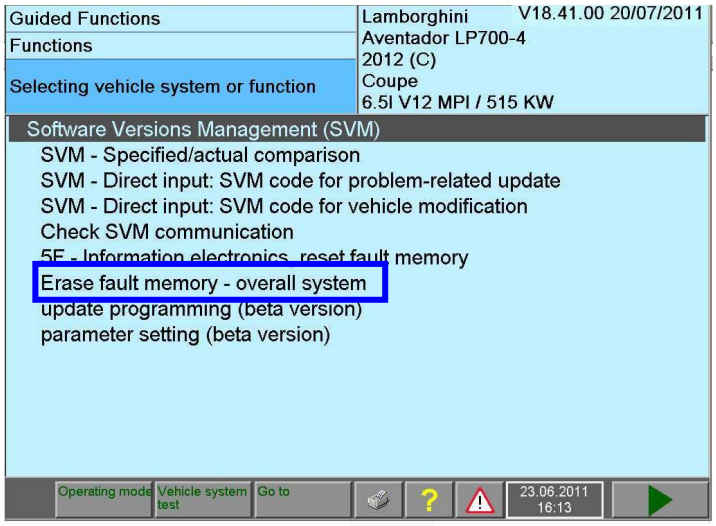
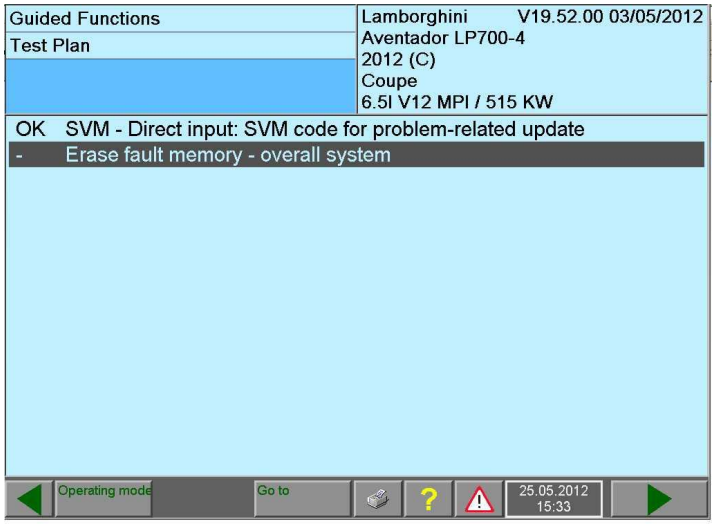
79	Select and run the program “Erase fault memory – overall systems” to clear all the faults stored because of the software update.	
80	Execute the program “Erase fault memory – overall system” clicking on .	

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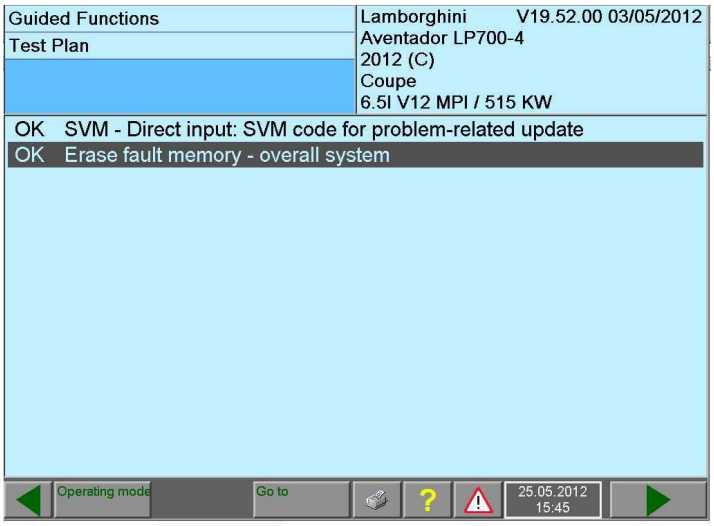
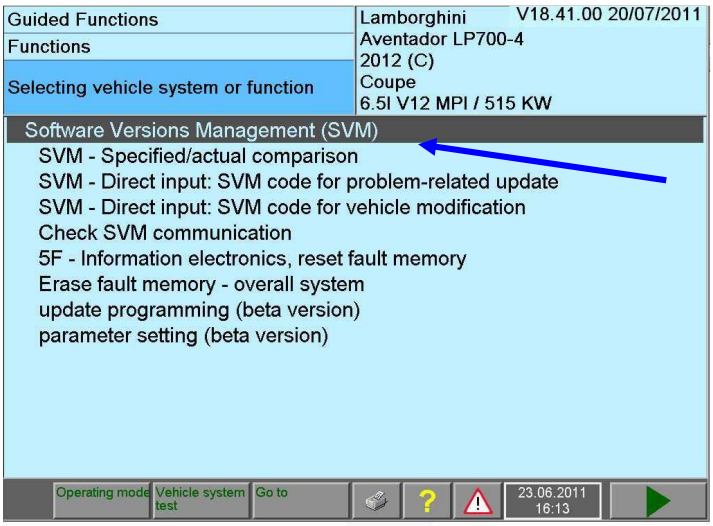
81	Go back to the “Software Version Management” menu clicking on	
82	Click on “Software Version Management” in order to go back to the ECUs list.	

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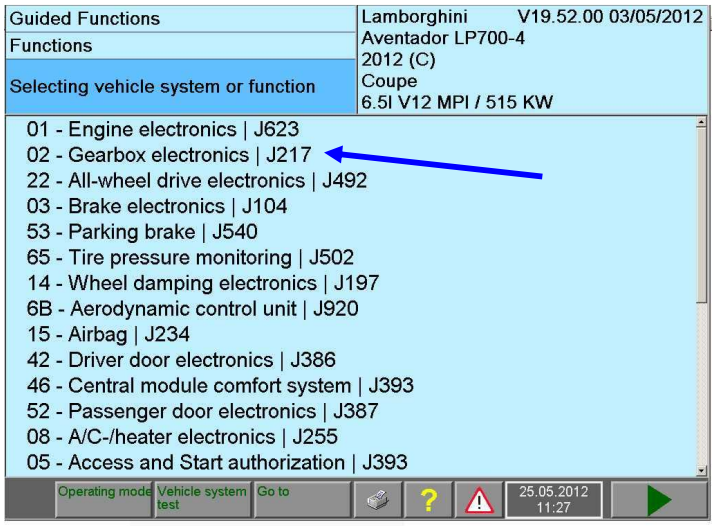
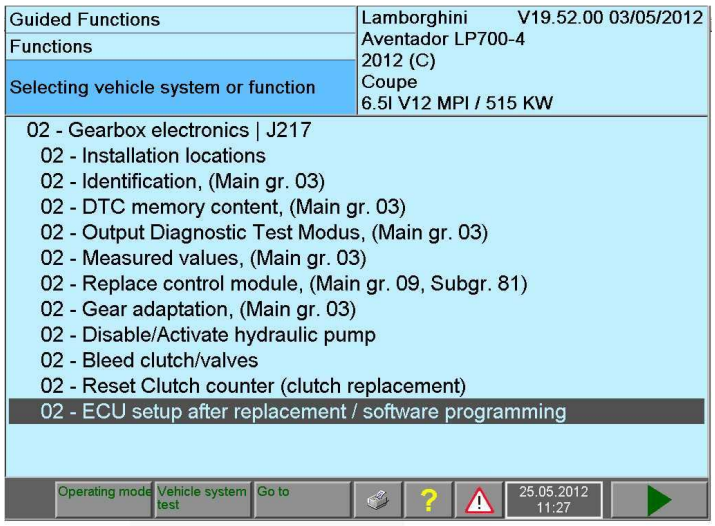
83	Select “02 – Gearbox electronics”	
84	Select the function “02 – ECU setup after replacement / software programming” in order to initialize the gearbox ECU.	

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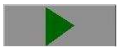
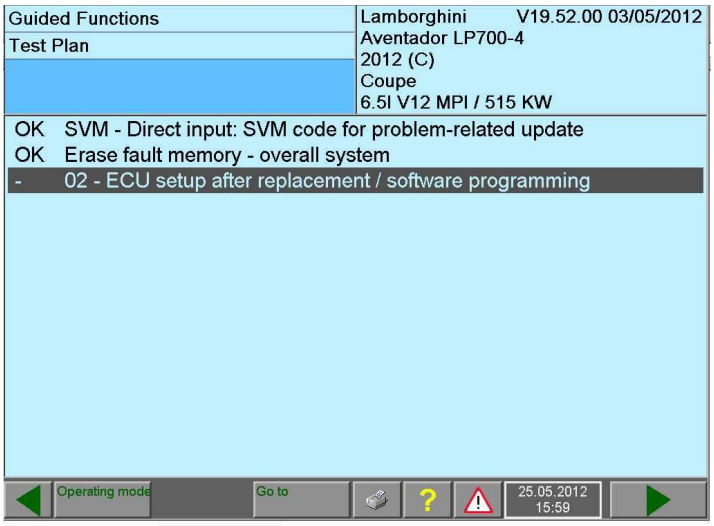
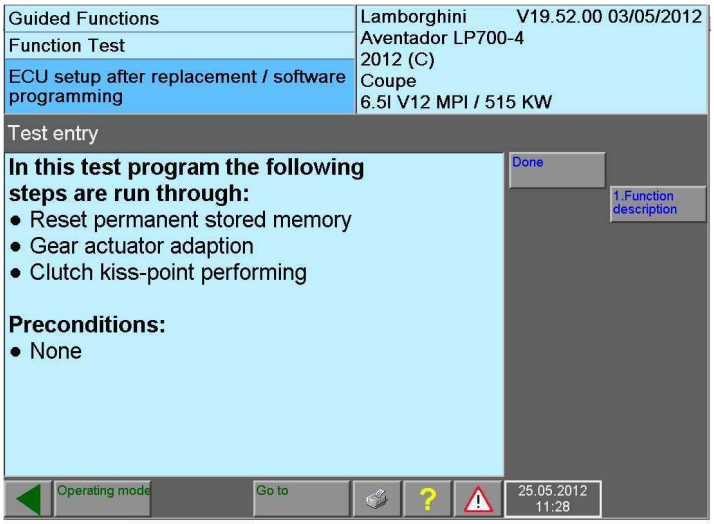
85	Execute the program clicking on 	
86	Click on “Done”	

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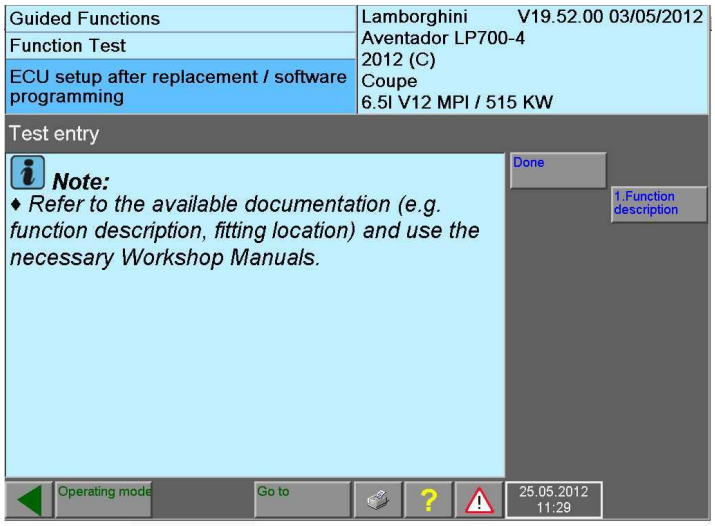
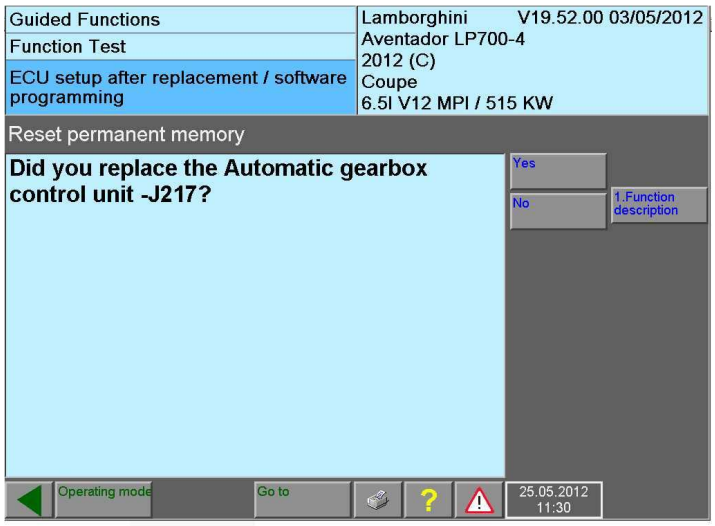
87	Click on “Done”	
88	Select “**NO**”	

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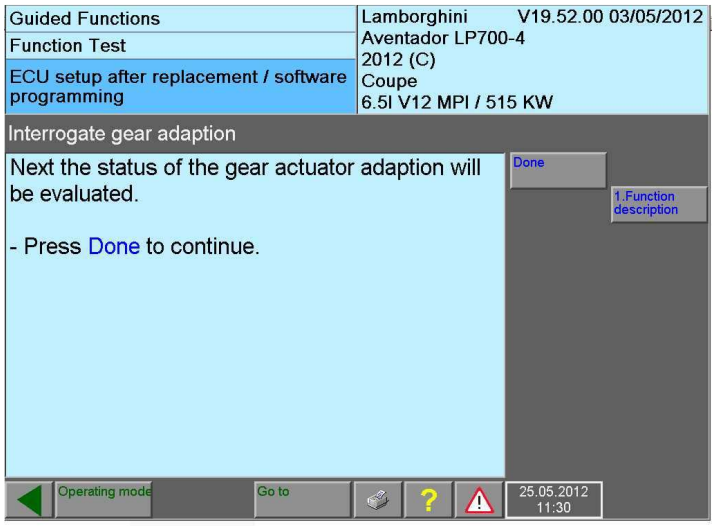
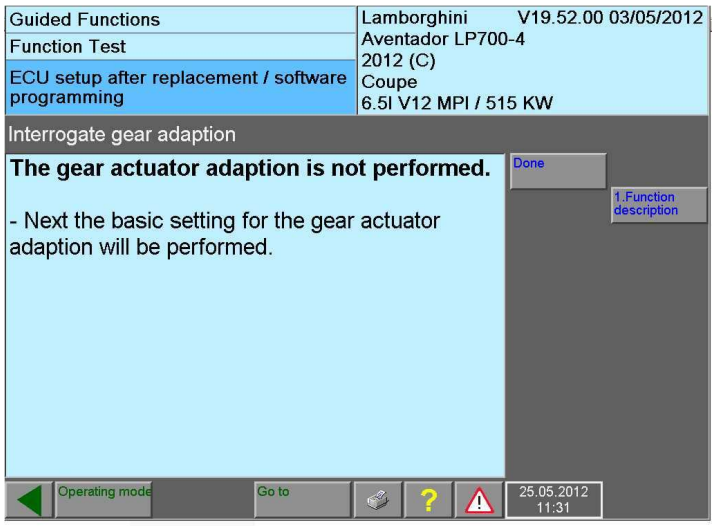
89	Click on “Done”	
90	Click on “Done”	

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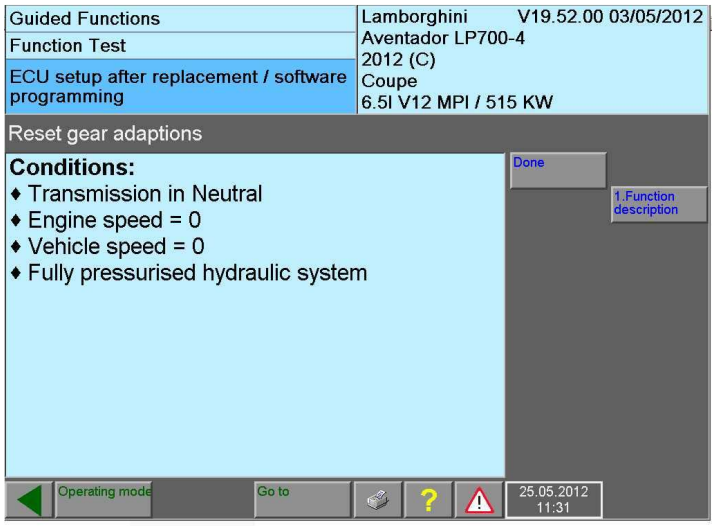
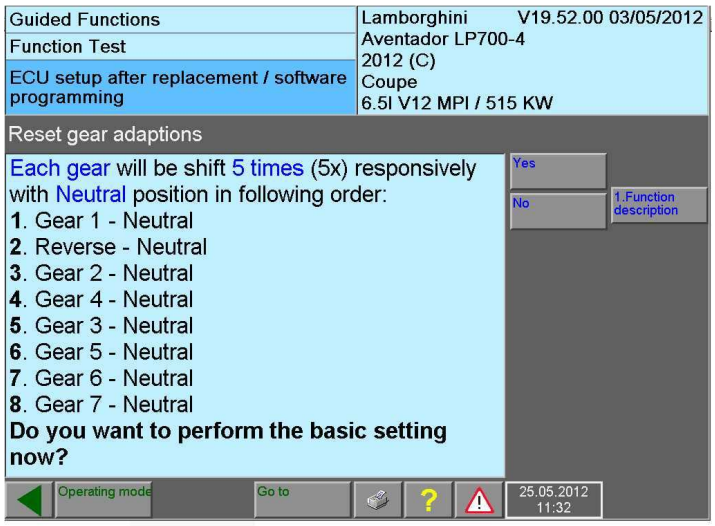
91	Click on “Done” in order to execute the gear adaption.	
92	Confirm clicking on “Yes”	

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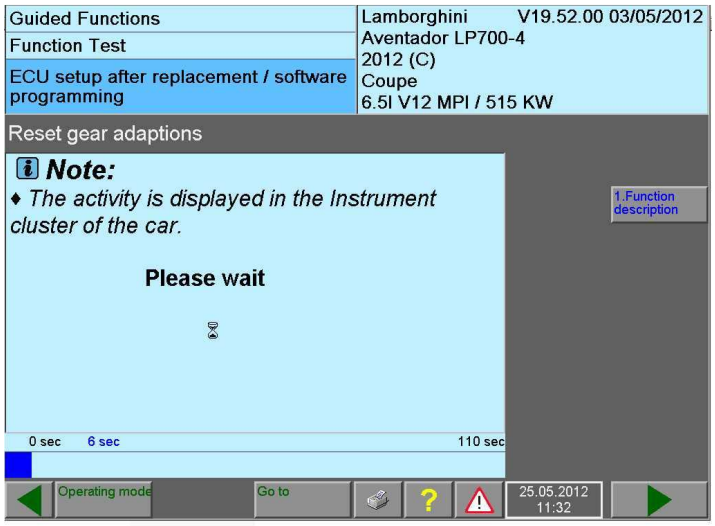
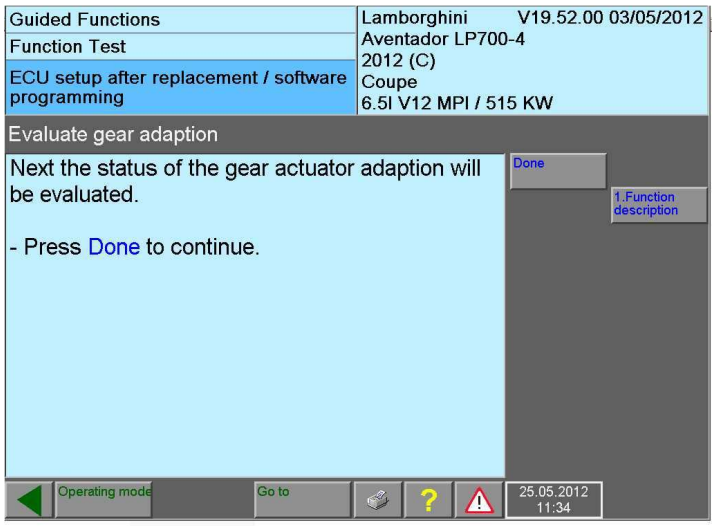
93	Wait until the gear adaption procedure is completed. Gear engagements can be checked directly from the instrument cluster.	
94	Click on “Done” to continue.	

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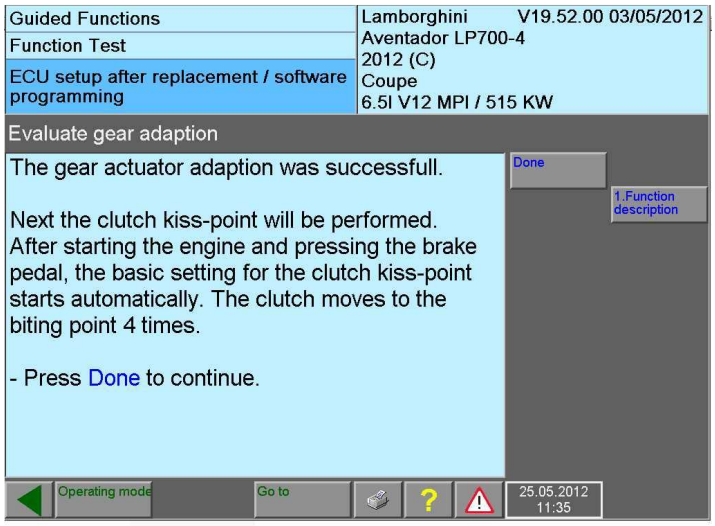
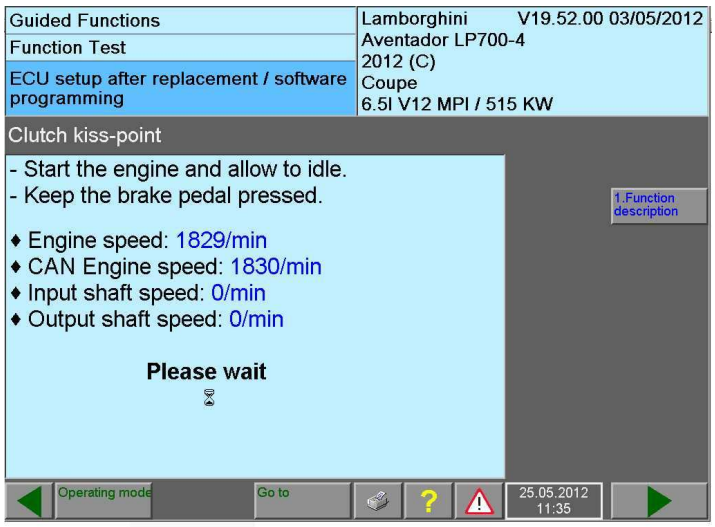
95	Click on “Done” in order to perform the Kiss Point adaption.	
96	**<u>Start the engine at idle and keep pressed the brake pedal for at least 1 minute.</u>** If the engine doesn’t start: • turn the ignition OFF • disconnect the diagnostic interface • wait at least 1 minute before turn the ignition ON again • reconnect the diagnostic interface and repeat the program from step **85**	

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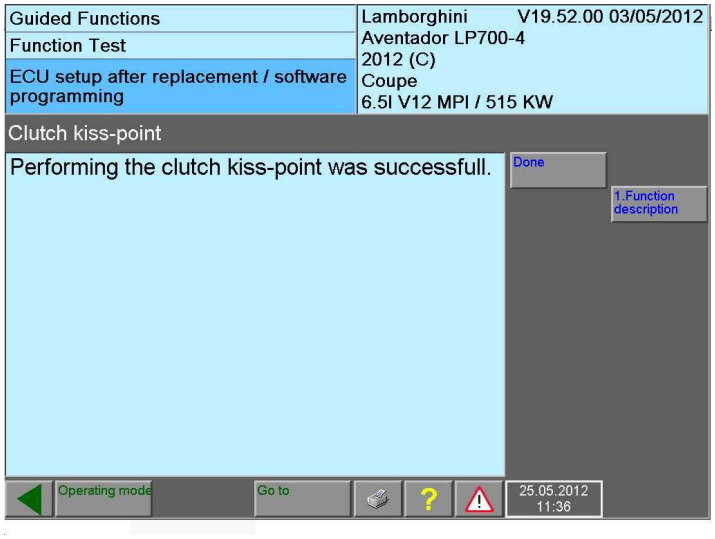
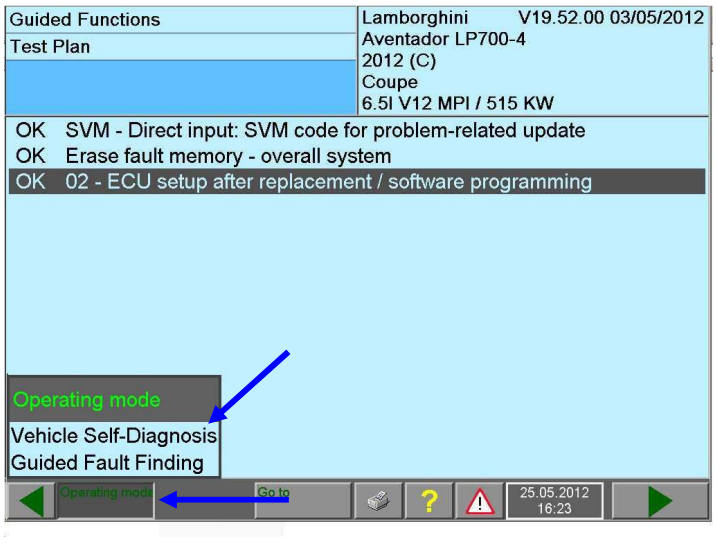
97	If the Kiss Point adaption is completed successfully the screenshot beside will be displayed. Click on “Done” in order to exit from the program. If the Kiss Point adaption is not completed successfully: • turn the ignition OFF • disconnect the diagnostic interface • wait at least 1 minute before turn the ignition ON again • reconnect the diagnostic interface and repeat the program from step **85**	
98	Select “Operating Mode” and then click on “Vehicle Self-Diagnosis”	

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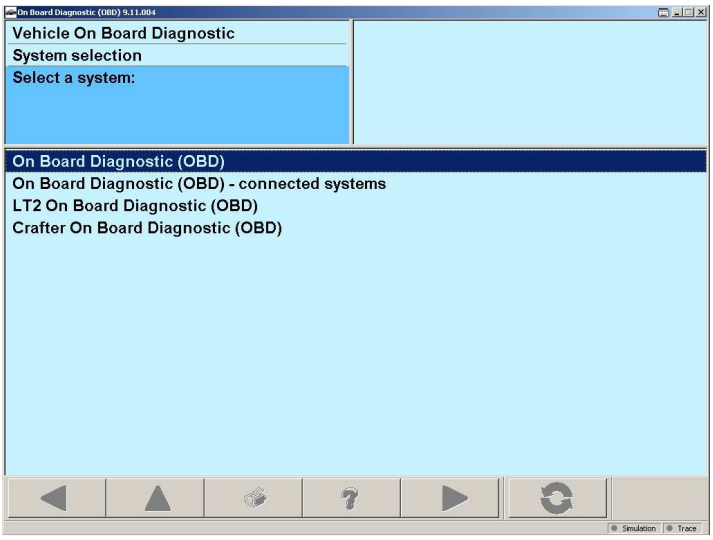
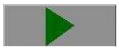
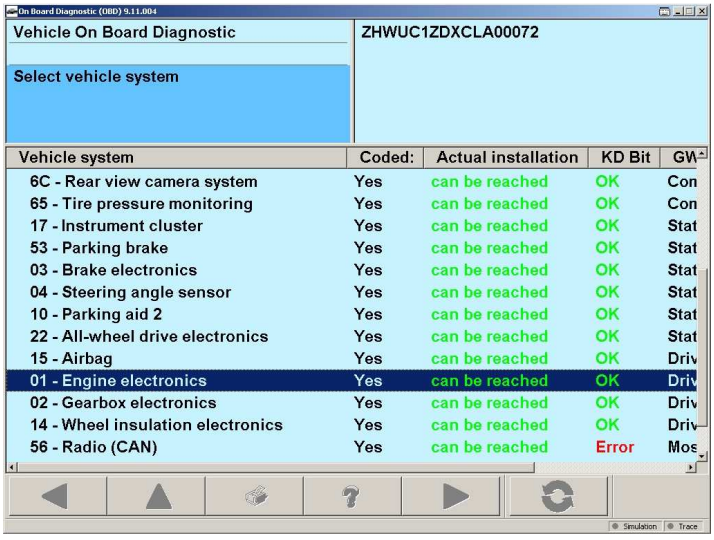
99	Select “On Board Diagnostic (OBD)” and then click on	
100	Scroll down the ECU list, select “01 – Engine electronics” and then confirm clicking on 	

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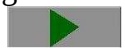
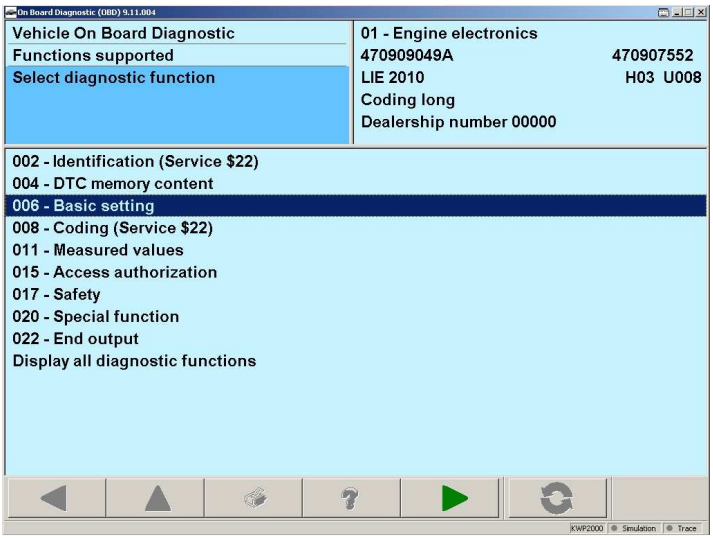
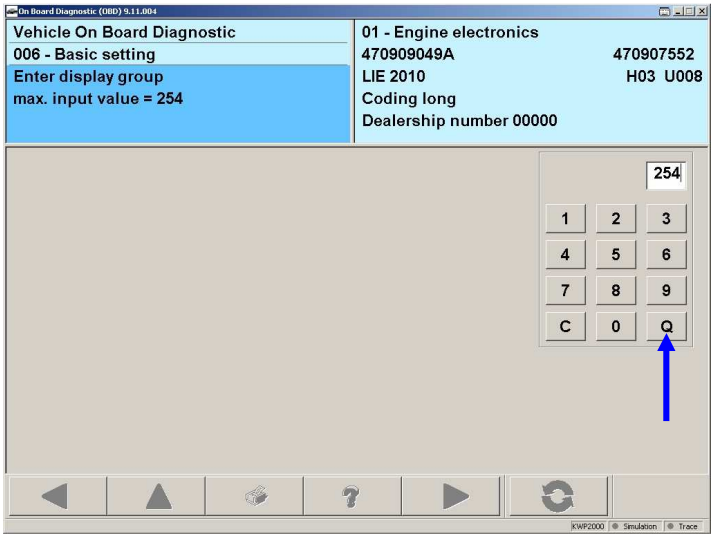
101	Select “Basic Settings” and then confirm clicking on 	
102	Insert the value **254** and then confirm clicking on “Q”	

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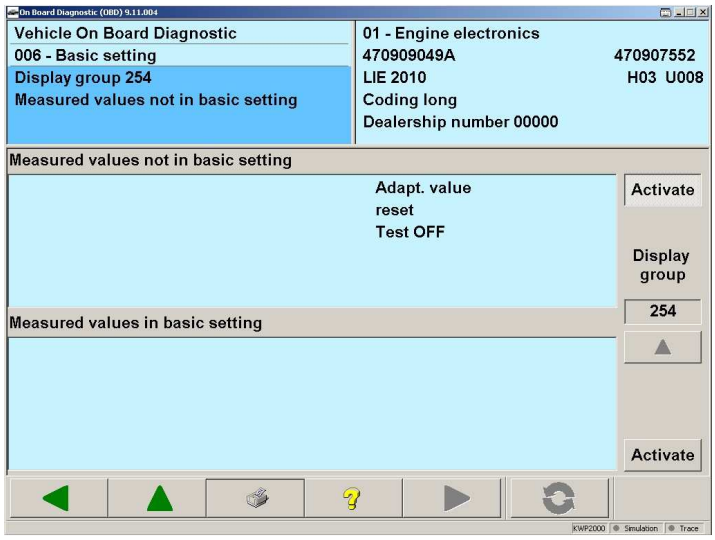
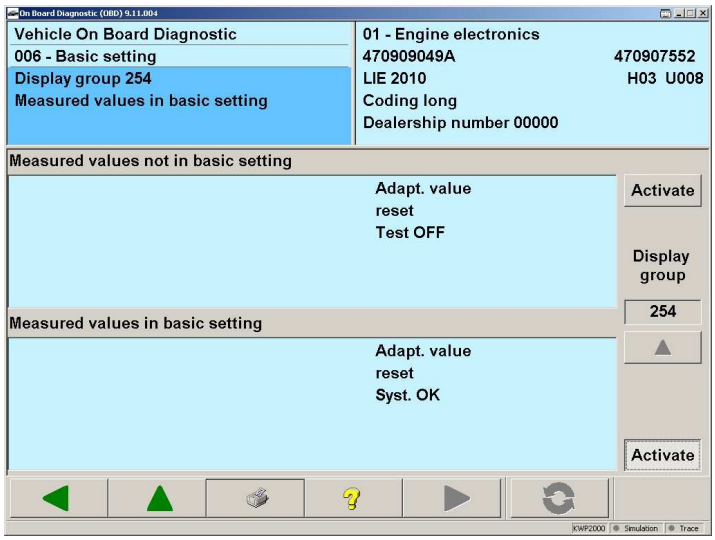
103	Click on “Activate” on bottom right in order to start the reset for auto adaptation values.	
104	Wait until the feedback message is shown. If the procedure has been performed successfully the message **Syst.OK** will appear, as shown in the picture beside. If the procedure has not been performed successfully: • turn the ignition OFF • wait at least 1 minute before turn the ignition ON again • repeat the program from step **100**	

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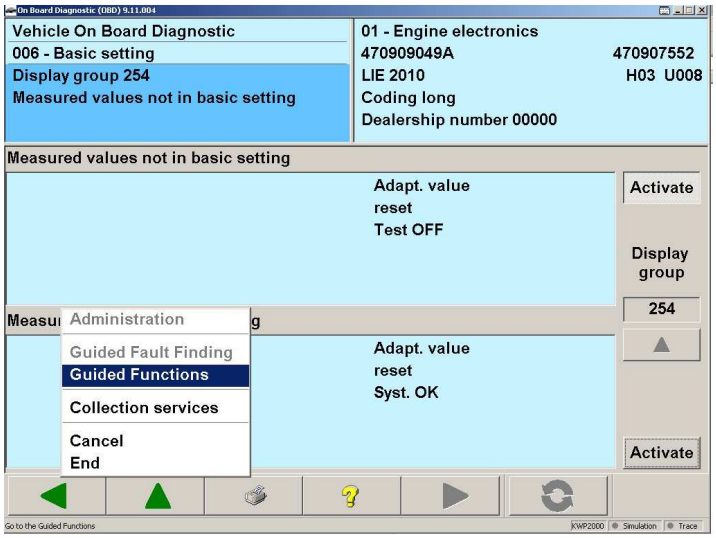
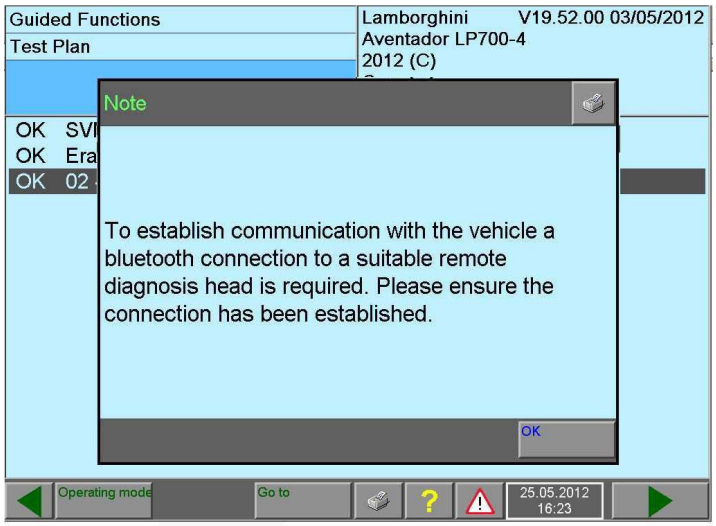
105	Go back to the test plan clicking on the button and then selecting “Guided Functions”	
106	Click on “OK”	

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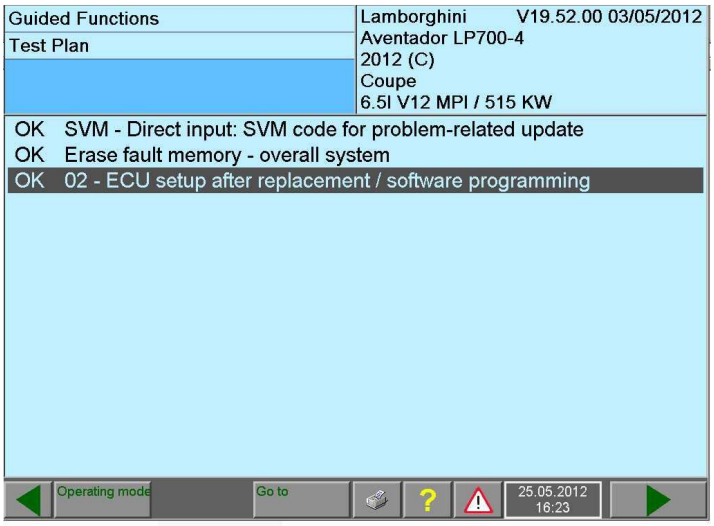
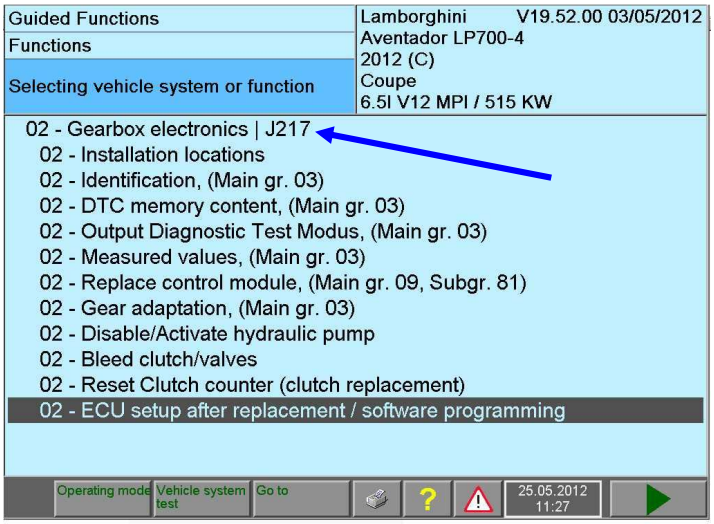
107	Go back to functions menu clicking on	
108	Go back to the ECUs list clicking on “02 – Gearbox electronics”	

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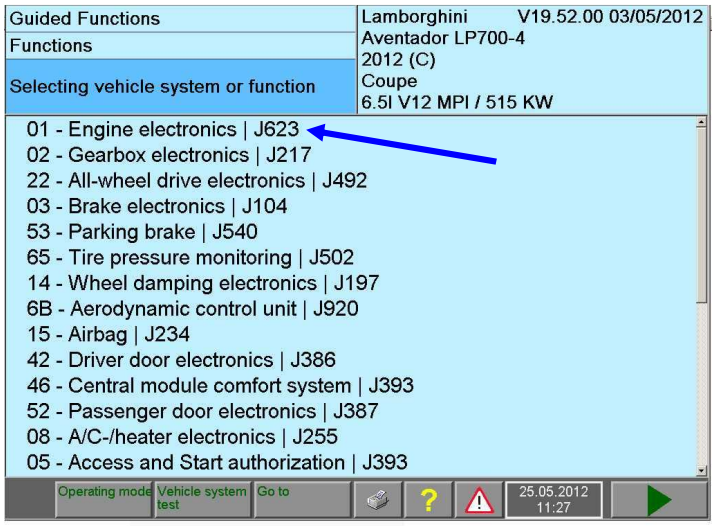
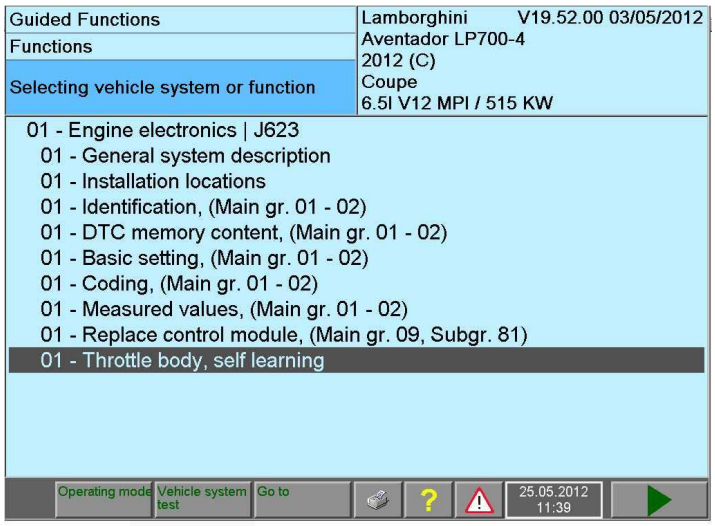
109	Select “01 – Engine electronics”	
110	Select the program “01 – Throttle bodies, self learning”	

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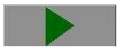
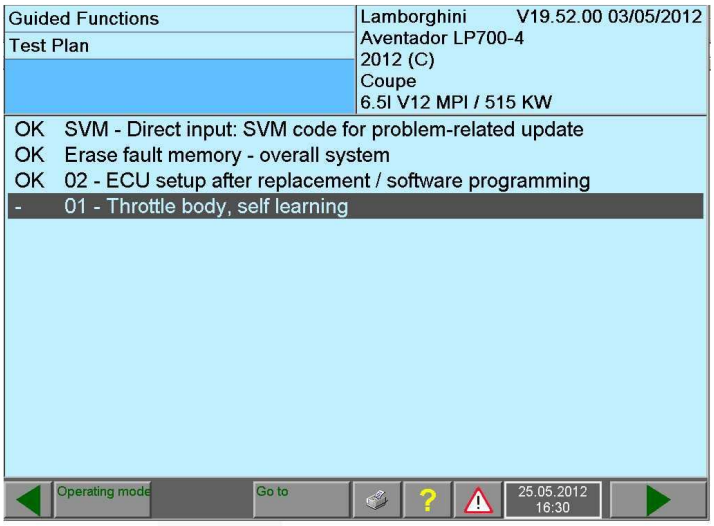
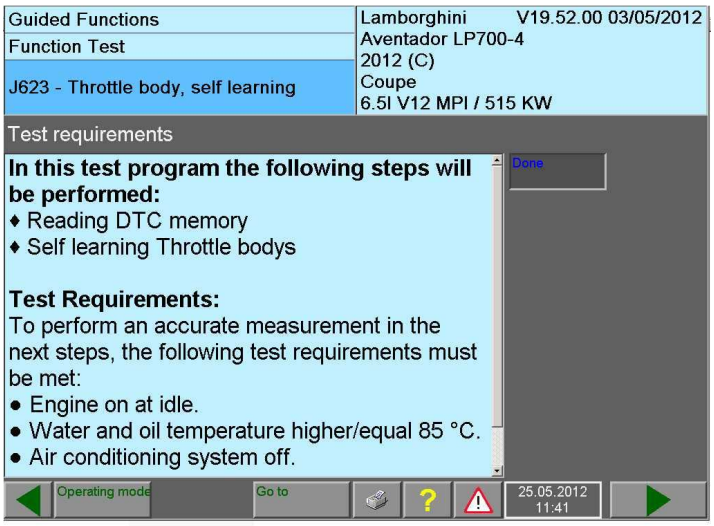
111	Execute the program clicking on 	
112	**Be sure that Air Conditioning is OFF** Cliccare su “Done”	

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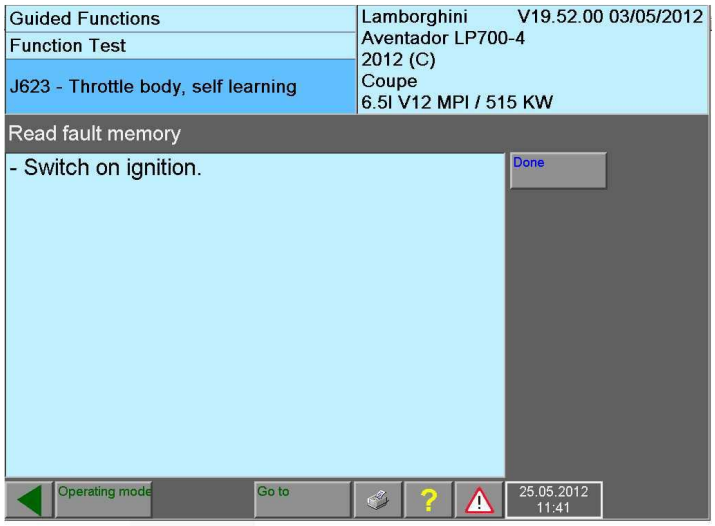
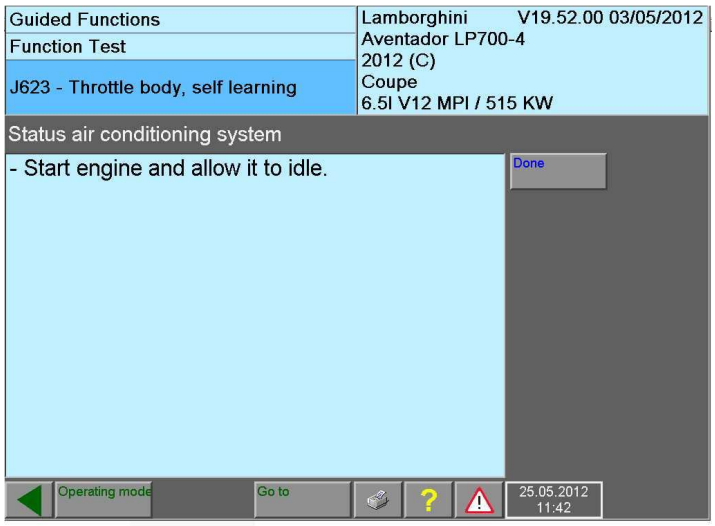
113	Switch the ignition ON. Click on “Done”	
114	Start the engine at idle. Click on “Done”	

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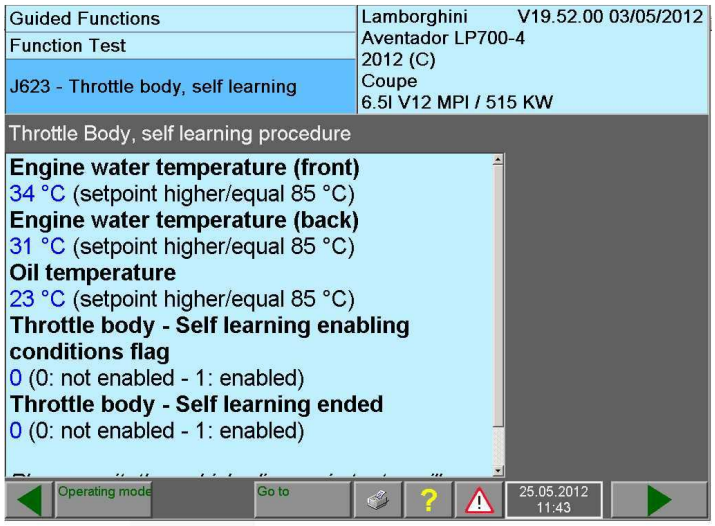
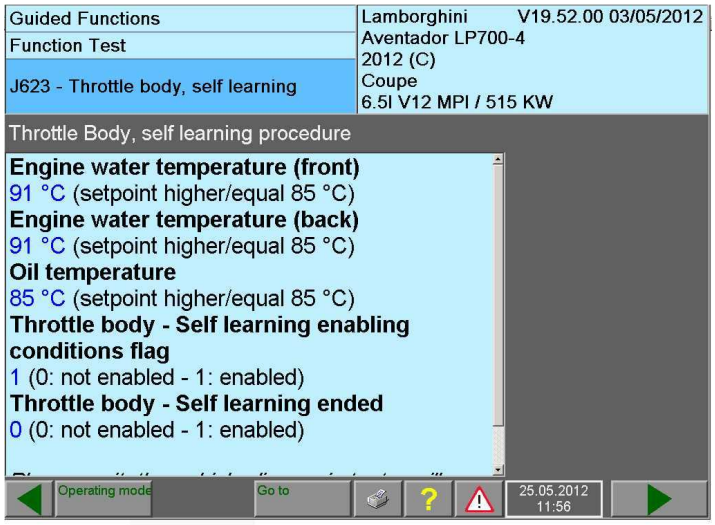
115	Self learning is an automatic procedure and it is activated when engine water and oil temperature exceed 85 °C. Check the parameters from VAS-PC and wait until temperatures reach the target Don't perform any action on the car (e.g. pushing the accelerator pedal) if not necessary.	
116	Once temperatures reach the activation conditions the "Throttle body – Self learning condition flag" changes from 0 to 1 indicating the start of the self learning procedure.	

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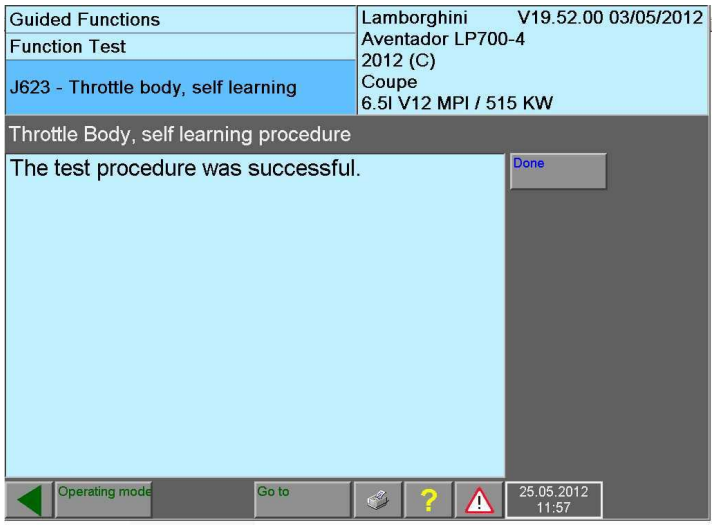
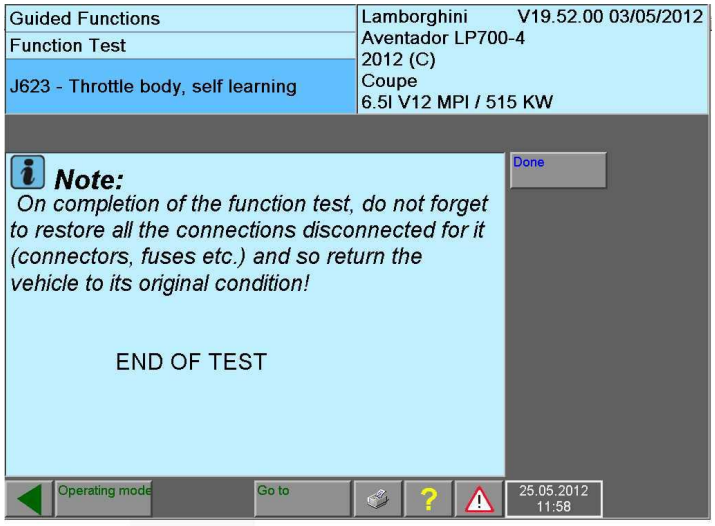
117	If the self learning is completed successfully a screen as in the picture beside is shown. Click on “Done”. If in 10 minutes from the activation the procedure has not been completed, interrupt and check if: • air conditioning is OFF • DTC memory of Engine ECU is empty Switch the ignition OFF for at least 1 minute and repeat the program.	
118	Click on “Done” in order to end the program.	

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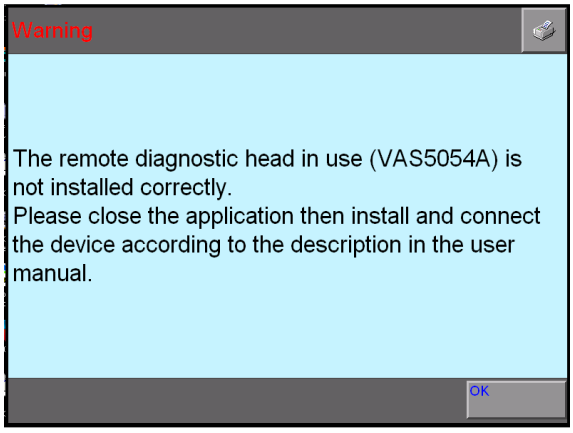
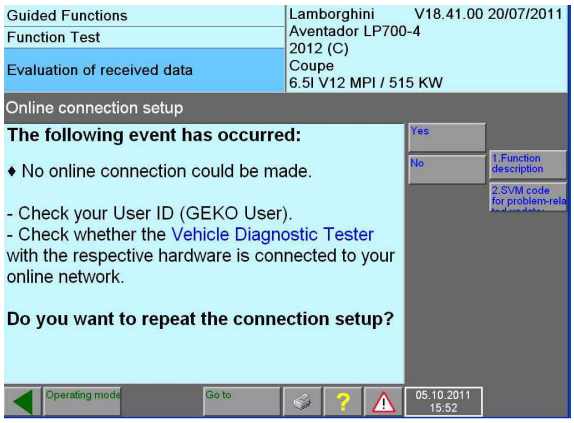
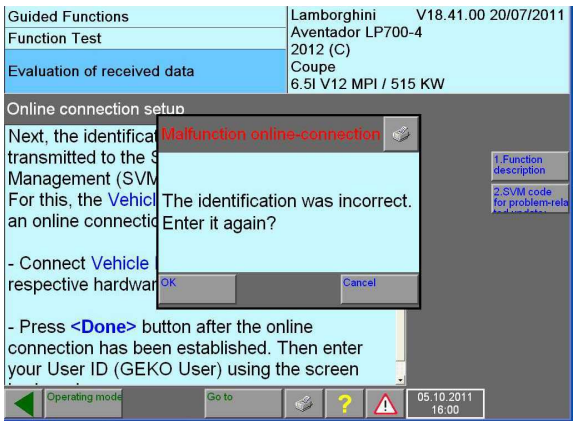
Troubleshooting

A.	If the error message regarding the VAS5054 interface is shown as in the picture beside: - close the VAS-PC and repeat the VAS5054 installation as described in the chapter **10.92.00**	
B.	If the connection error screen is shown as in the picture beside: - 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	
C.	If the incorrect identification message is shown as in the picture beside - be sure that your Geko account is valid - be sure that the label “Geko” is written on the token that you are using for the authentication - click on Cancel and perform the application test as described in the chapter **10.92.00**	

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Your Area Manager is at full disposal for further information.

Best regards

Customer Service

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