

ToAll Lamborghini Dealers and Licensed Service Point .FromCustomer Service Department.SubjectEngine And Gearbox Software Upgrade.Group10.02.00Date01/06/12Pages45

Subject

Engine and gearbox software upgrade.

Model

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

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

Information to the field

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

Field solution

Upgrade the engine and related gearbox software.

Warranty Claim data

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

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

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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 version1.03 download and installation procedure

1	Connect your Lamborghini Diagnosis Tester to internet and log on the Lamborghini web portal.						
2	Open the section Customer Service	/Downloads/Diagnosis SW 2012					
3	Download the file "Lamborghini_f	lash_container_v1_03.zip"					
4	Double click on the just downloaded zip file and then open the file Lamborghini_Flash_Container_v 1_03.exe, as shown in the picture beside.	WinZip - Lamborghini_Flash_Container_v1_03.zip Ele Actions Options Help New Open Favorites Add Extract View CheckOut Wizard Name Lamborghini_Flash_Container_v1_03.exe Lamborghini_Flash_Container_v1_03.exe Selected 0 files, 0 bytes					

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5	Click on "Install" and wait that the installation is completed.	Attemobili Lamborghini S.p.s. Via Modesa 12 40019 S.Ageta Bolognese (Bo) Laly
6	Click on "Finish" to exit.	Antomobili Lemborghini S p.a. Via Modera 12 40019 S. Ageta Bologuese (Bo) Bark

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Update procedure:



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		Guided Functions Please wait
		Vehicle Identification
6	Click on "OK"	Select bra Note Lamborgt //05/2012 To establish communication with the vehicle a bluetooth connection to a suitable remote diagnosis head is required. Please ensure the connection has been established.
		Operating mode Go to Control 25.05.2012 Control 12.60 Guided Functions
		Vehicle Identification Select brand
7	Click on "Lamborghini"	Operating mode Go to 17.05.2012 18:04

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8	Confirm the vehicle identification data shown on the upper right clicking on	Guided Functions Lambordhini V19.52.00.03/05/2012 Vehicle Identification Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW Press ">" button to confirm that the vehicle identification was performed correctly Press " button to go back step by step. The "Go to" button and the "Cancel" selection lead to the "Select brand" screen. The "Go to" button and the "End" selection lead to the Start screen.
9	Scroll down the ECU list and select "Software Version Management"	Guided Functions Lamborghini V19.52.00 03/05/2012 Functions Aventador LP700-4 Selecting vehicle system or function Coupe 6.51 V12 MPI / 515 KW 05 - Access and Start authorization J393 09 - Electronic central electrics J519 10 - Parallel parking assistance J446 16 - Steering wheel electronics J527 17 - Instrument cluster J285 19 - Data Bus On Board Diagnostic Interface J533 56 - Radio R 5F - Information electronics 1 (LIS) J794 6C - Rear view camera system J772 ** - Functions, component protection ** - Functions, component protection ** - Functions, component (SVM) Documents, vehicle information Service work Operating mode Vehicle system

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10	Select "SVM – Direct input: SVM code for problem related update" and click on to add the program into the test plan.	Guided Functions Lamborghini V19.52.00 03/05/2012 Functions Aventador LP700-4 Selecting vehicle system or function Coupe 6.51 V12 MPI / 515 KW Software Versions Management (SVM) SVM - Specified/actual comparison SVM - Direct input: SVM code for problem-related update SVM - Direct input: SVM code for vehicle modification Check SVM communication SF - Information electronics, reset fault memory Erase fault memory - overall system update programming (beta version) parameter setting (beta version) parameter setting (beta version)
11	Run the program clicking on	Guided Functions Lamborghini V19.52.00 03/05/2012 Test Plan Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW - SVM - Direct input: SVM code for problem-related update

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12	Click on the grey bar to enter the SVM code	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 2012 (C) Problem related hardware and software Coupe 6.51 V12 MPI / 515 KW Entering SVM code Software Version Management (SVM) I.Function You have selected the program for problem related updates. I.Function I.Function - Enter the required SVM code. Software Software Image: Note The appropriate SVM code can be found in the Uniform modies Press here to display input keys Input keys Image: Operating mode Co to Image: Operating mode Image: Operating mode Image: Operating mode
13	Enter the code L834A0312 then click on to confirm	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 2012 (C) Problem related hardware and software Coupe 6.51 V12 MPI / 515 KW I I I I I I I I I<

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14	Confirm that the inserted code is correct clicking on "Yes"	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 2012 (C) Coupe update 6.51 V12 MPI / 515 KW Entering SVM code Image: State of the second s
15	Click on "Done" to start the data acquisition from all the vehicle's ECUs	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Problem related hardware and software Coupe update 6.51 V12 MPI / 515 KW SVM code evaluation - Connect the a charge to the vehicle. • Caution - Connect the a charge to the vehicle. • Caution An adequate battery voltage is essential while running Software Version Management (SVM). If this is not ensured, and a program update is aborted due to inadequate battery voltage, a defect in the control unit concerned may result. • Operating mode Go to ? (A) 17.05.2012 18:11

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16	Wait until the data acquisition from all control modules is completed.	Guided Functions Function Test Reading control module data 1 - reading identification The identification data are read from following control unit: 02 - Transmission electronics Number of control modules read: 2 of 23 Please wait, the VAS 505x will auto continue OVT. 3 Correnting mode Go to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW m the 1. Function 28.5WM code for problem-relation 23.1T. 23.1T.
17	For the online authentication a valid GeKo account is necessary. <u>Be sure that your internet</u> <u>connection is working properly.</u> Click on "Done" to access the Login window	Guided Functions Function Test Evaluation of received data Online connection setup Next, the identification data readout transmitted to the Software Version Management (SVM). For this, the Vehicle Diagnostic Test an online connection. - Connect Vehicle Diagnostic Test respective hardware to your online - Press <done> button after the or connection has been established. your User ID (GEKO User) using t</done>	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW t will be 1. Function description ster requires er with network. hline Then enter the screen 17.05 2012 18:15

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	Insert your GeKo user name in the field "Login" and the pin	Enter Login Login Password 0 1 2 3 4 5 6	7	8	9						
18	1324 + current 6 digit code displayed on your GeKo token in	A	B	C	D	E	F	G	· H	1	J
	the field Password. Then confirm clicking on OK	κ	L	М	N	0	Ρ	Q	R	S	Т
		С	U	V	W	X	Y	Z		•	Q
		Cancel	erating mod	4	Goto	»			23.06.2	ок 2011	
								<u> </u>	16:2	0	
19	The communication is then established with the central server. At the end of communication you will receive the feedback as in the picture beside. Click on "Done"	Guided Function Update Result Softwa - It is p perform - Press module	Function Test program : are to b ossible ned on t the <d is the <d< th=""><th>s ming be upda that up 2 contro cone> I equire</th><th>ated ha odate pr ol modu outton t a chang</th><th>ogrami les. o displa ge or te</th><th>Lambor Aventad 2012 (C Coupe 6.51 V12 n detect ming m ay the c ist.</th><th>ghini dor LP70 2 MPI / 5 2 MPI / 5 2 MPI / 5 2 MPI / 5 2 MPI / 5</th><th>V19.5 0-4 15 KW Done 17.05.2 18:11</th><th>2.00 03/ def def 2.8 for 1.f. for 2.8 for</th><th>unction cription VM code problem-rela</th></d<></d 	s ming be upda that up 2 contro cone> I equire	ated ha odate pr ol modu outton t a chang	ogrami les. o displa ge or te	Lambor Aventad 2012 (C Coupe 6.51 V12 n detect ming m ay the c ist.	ghini dor LP70 2 MPI / 5 2 MPI / 5 2 MPI / 5 2 MPI / 5 2 MPI / 5	V19.5 0-4 15 KW Done 17.05.2 18:11	2.00 03/ def def 2.8 for 1.f. for 2.8 for	unction cription VM code problem-rela

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20	The flash data containers are already saved on the diagnostic laptop. Press "Done"	Guided Functions Lamborghini V19.52.00 Function Test Aventador LP700-4 Update programming Coupe 6.51 V12 MPI / 515 KW Result Image: the second seco	03/05/2012 1-Function description 2.SVM code for problem-rela
21	Press "Done" to download the necessary data about the flash containers.	Guided Functions Lamborghini V19.52.00 Function Test Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW Result Before the control modules on which an update programming is possible can be displayed, all data required for the updates must first be determined. This procedure may take a few seconds. - Press <done> button to start the data acquisition.</done>	03/05/2012 1-Function description 2.SVM code for problem-rela

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22	Click on "Done"	Guided Functions Function Test Update programming Loading flash data container In the following 2 control modules on which an update programming of performed using the Vehicle Diagn - Choose how to update the contro based on the listing. - 1st Option: each update program individually started by means of con (pressing a button). - 2nd Option: all update programm performed without interruptions Go to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW will be listed can be ostic Tester . I modules ming can be nfirmation ings can be 17.05.2012 18.17
23	Depending on the market and according to car's equipment, new engine software part number and version will be 470909049A; U008 or 470909049B; V008 or 470909049B; Z008 Click on "Done"	Guided Functions Function Test Update programming Displaying possible update programm An update programming is sugges control module 01 - Engine electro The new software part number; ver control module is: 470909049A ; U008 - Press <done> to continue the pro- Operating mode Go to</done>	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW ing ted for the mics 1.Function rsion for this ogram. 25.05.2012 10:54

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24	The new gearbox software part number and version will be 470927156; 0903 Press "Done" to continue.	Guided Functions Function Test Update programming Displaying possible update programm An update programming is sugges control module 02 - Transmission The new software part number; ver control module is: 470927156 ; 0903 - Press <done> to continue the pro-</done>	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW ing ted for the electronics rsion for this ogram. Image: Comparison of the state of the st
25	Select the option no.2 "Perform update programming on all control modules without interruption"	Guided Functions Function Test Update programming Displaying possible update programm How should the previously liste programmings be performed? 1. Offer selection to start each upd programming manually. 2. Perform update programming or modules without interruption.	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW ing d update -2- description 2.5VM code for problem-relation ate ate all control 17.05.2012 18:20

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26	Click on "Done" to start the flash update for both ECUs	Guided Functions Function Test Update programming Displaying possible update programm In the following all update programm previously listed control modules wi performed without interruption. - Press <done></done> button to start upd programming. Operating mode Go to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW ing Inings of the II be I.Function ate 2.SVM code for problem-relate It is 20 17.05.2012
27	Wait until the update programming of the engine ECU is completed	Guided Functions Function Test Update programming Job will be performed	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW

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28	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	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW 1 - Update programming - 01 The update programming on control module 01 - Engine electronics was successful. - Press <done> to continue the program. Image: Complexity of the programmed of the program. Image: Operating mode Co to Image: Co t</done>
29	Wait until the update programming of the gearbox ECU is completed.	Guided Functions Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW Job will be performed 0 % 16 100 %

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30	 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 12 	Guided Functions Function Test Update programming 1 - Update programming - 02 The update programming on contro Transmission electronics was suc - Press <done></done> to continue the pro Operating mode Co to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW ol module 02 - ccessful. ogram. 2.SVM code for problem-rela Reduce data
31	In the following an ignition OFF – ON cycle is necessary to restart both the ECU. Press "Done" to continue.	Guided Functions Function Test Update programming Terminal 15 selection In the following it is necessary to so ignition off and on Press the Done button and follow instructions. Operating mode Go to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW witch the Done 1.Function 1.Function 2.SVM code for problem-relation 2.SVM code for problem-relation 2.SVM code for problem-relation 2.SVM code for problem-relation 2.SVM code for problem-relation

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		Guided Functions Function Test Update programming Terminal 15 All suggested update programming	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW
32	Switch the ignition OFF.	 worked off. It is necessary to switc off and on. Switch ignition off. The VAS 505x continues automatic ignition is switched off. <i>Note</i> <i>If the VAS 505x does not continue switching the ignition off, press the</i> Operating mode 	after >-button. 25.06.2012 1.Function 1.Function 2.SVM code for problem relation
33	Wait 1 minute before switching the ignition back ON again. Then press on	Guided Functions Function Test Update programming Terminal 15 - Switch ignition on again. The VAS 505x will automatically co the ignition is switched on. Note If the VAS 505x does not continue switching the ignition on, press the	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW Intinue after 2.5W code after -button.

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34	Press "Done"	Guided Functions Function Test Software Version Management (SVM) Action evaluation The program for Software Version (SVM) was performed. All necessary actions on the vehicl completed before proceeding.	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW Management Done I.Function description e need to be 25.05.2012 Management 25.05.2012 Management 25.05.2012
35	Press "Done" to start the data report	Guided Functions Function Test Software Version Management (SVM) Documenting actual status The following feedback is sent to th Version Management (SVM) to doo changes in the vehicle. Note If one of the changes listed below if the automatic feedback report, the program for Software Version Mar (SVM) must be restarted, with the SVM code, to report back the new and software versions as well as of parameter settings to Software Ver So to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW ne Software cument I Function description 2.5W code for problem:rela relevant aggement associated r hardware codes and proin

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36	Wait until the data acquisition from all the control modules is completed	Guided Functions Function Test Reading control module data 1 - reading identification The identification data are read from following control unit: 15 - Airbag Number of control modules read: 10 of 23 Please wait, the VAS 505x will autocontinue Out. 11	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW 1 Function description 2.SVM code for problem-rela matically 23 \T. 23 \T. 25.05.2012 11:23
37	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"	Guided Functions Function Test Evaluation of received data Notification code evaluation Vehicle conversion/update has b successfully performed. The cha been stored in the system. Thank you.	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW Pone Inges have 2.5VM code Corproblem-relation

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38	Press on "Done" to exit the program	Guided Functions Function Test Software Version Management (SVM) Action evaluation The program for Software Version (SVM) was performed. All necessary actions on the vehicle completed before proceeding.	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW Management Done I.Function description 2 SVM code for problem-relation e need to be 25 05.2012 1.1:17
39	Go back to the Software Version Management menu clicking on	Guided Functions Test Plan OK SVM - Direct input: SVM code f	Lamborghini V18.41.00 20/07/2011 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW for problem-related update

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		Quided Eurotions Lamborghini V18 41.00 2	0/07/2011
40	Select and run the program "Erase fault memory – overall systems" to clear all the faults stored because of the software update.	Functions Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW Selecting vehicle system or function 6.51 V12 MPI / 515 KW Software Versions Management (SVM) SVM - Specified/actual comparison SVM - Direct input: SVM code for problem-related update SVM - Direct input: SVM code for vehicle modification Check SVM communication 5E - Information electronics, reset fault rease fault memory - overall system update programming (beta version) parameter setting (beta version)	
41	Execute the program "Erase fault memory – overall system" clicking on	Guided Functions Lamborghini V19.52.00 0 Test Plan Aventador LP700-4 2012 (C) Coupe Coupe 6.51 V12 MPI / 515 KW OK SVM - Direct input: SVM code for problem-related update - Erase fault memory - overall system	3/05/2012

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42	Go back to the "Software Version Management" menu clicking on	Guided Functions Lamborghini V19.52.00 03/05/2012 Test Plan Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW OK SVM - Direct input: SVM code for problem-related update OK Erase fault memory - overall system
43	Click on "Software Version Management" in order to go back to the ECUs list.	Guided Functions Lamborghini V18.41.00 20/07/2011 Functions Aventador LP700-4 Selecting vehicle system or function Coupe 6.51 V12 MPI / 515 KW Software Versions Management (SVM) SVM - Specified/actual comparison SVM - Direct input: SVM code for problem-related update SVM - Direct input: SVM code for vehicle modification Check SVM communication SF - Information electronics, reset fault memory Erase fault memory - overall system update programming (beta version) parameter setting (beta version) parameter setting (beta version)

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44	Select "02 – Gearbox electronics"	Guided Functions Functions Selecting vehicle system or function 01 - Engine electronics J623 02 - Gearbox electronics J217 22 - All-wheel drive electronics J48 03 - Brake electronics J104 53 - Parking brake J540 65 - Tire pressure monitoring J502 14 - Wheel damping electronics J 6B - Aerodynamic control unit J92 15 - Airbag J234 42 - Driver door electronics J386 46 - Central module comfort system 52 - Passenger door electronics J255 05 - Access and Start authorization Operating mode Vehicle system Go to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW 202 2197 0 1 J J393 387 387 J J393
45	Select the function "02 – ECU setup after replacement / software programming" in order to initialize the gearbox ECU.	Guided Functions Functions Selecting vehicle system or function 02 - Gearbox electronics J217 02 - Installation locations 02 - Identification, (Main gr. 03) 02 - DTC memory content, (Main gr. 03) 02 - Output Diagnostic Test Modu 02 - Measured values, (Main gr. 0 02 - Replace control module, (Mai 02 - Gear adaptation, (Main gr. 03) 02 - Disable/Activate hydraulic pu 02 - Bleed clutch/valves 02 - Reset Clutch counter (clutch 02 - ECU setup after replacement	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW gr. 03) s, (Main gr. 03) 3) n gr. 09, Subgr. 81)) mp replacement) / software programming

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46	Execute the program clicking on	Guided Functions Test Plan OK SVM - Direct input: SVM code fo OK Erase fault memory - overall sys - 02 - ECU setup after replacement Operating mode Go to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW or problem-related update stem ent / software programming
47	Click on "Done"	Guided Functions Function Test ECU setup after replacement / software programming Test entry In this test program the followin steps are run through: • Reset permanent stored memory • Gear actuator adaption • Clutch kiss-point performing Preconditions: • None Operating mode Go to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW g Done I.Function description

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		Quided Eurotions	Lamborghini V/19 52 00 03/05/2012
		Guided Functions	Aventador LP700-4
		Function Test	2012 (C)
		ECU setup after replacement / software	Coupe
		programming	6.5I V12 MPI / 515 KW
		Test entry	
		Alata:	Done
		 Refer to the available documental 	ation (e.g.
		function description fitting location) and use the
40		necessarv Workshop Manuals.	
48	Click on "Done"	and a set of additional set of a second s	
		Operating mode Go to	25.05.2012
			11:29
		Guidad Eurotians	Lamborghini V19 52 00 03/05/2012
		Function Test	Aventador LP700-4
		FCU setup after replacement / software	2012 (C)
		programming	6.5I V12 MPI / 515 KW
		Reset permanent memory	
		Did you replace the Automatic of	learbox Yes
		control unit -J217?	Ne 1.Function
			description
49	Select "NO"		
		Operating mode Go to	25.05.2012
		Operating mode Go to	25.05.2012 11:30

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		Guided Eurotions	Lamborghini V19 52 00 03/05/2012
		Function Test	Aventador LP700-4
		ECIL setup after replacement / software	2012 (C)
		programming	Coupe 6 5I V12 MPL/ 515 KW
		Interrogate gear adaption	
		Nove the status of the gear actuator	adaption will Done
		he evaluated	
		be evaluated.	description
		- Press Done to continue.	
50	Click on "Done"		
		Operating mode Go to	
		Guided Functions	Lamborghini V19.52.00 03/05/2012
		Function Test	Aventador LP700-4 2012 (C)
		ECU setup after replacement / software	Coupe
		programming	6.5I V12 MPI / 515 KW
		Interrogate gear adaption	Date
		The gear actuator adaption is no	bt performed.
		- Next the basic setting for the gear	r actuator
		adaption will be performed.	
51	Click on "Done"		
		Operating mode Go to	25.05.2012
1	1		

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52	Click on "Done" in order to execute the gear adaption.	Guided Functions Lamb. Function Test 2012 ECU setup after replacement / software 2012 programming 6.51 V Reset gear adaptions Conditions: Transmission in Neutral Engine speed = 0 Vehicle speed = 0 Fully pressurised hydraulic system Fully pressurised mode Go to 	Dorghini V19.52.00 03/05/2012 tador LP700-4 (C) /2 /12 MPI / 515 KW Done I.Function description description
53	Confirm clicking on "Yes"	Guided Functions Lamb. Function Test 2012 ECU setup after replacement / software 2012 programming Coupe 6.51 V Reset gear adaptions Each gear will be shift 5 times (5x) respo with Neutral position in following order: 1. Gear 1 - Neutral Reverse - Neutral 3. Gear 2 - Neutral Gear 4 - Neutral 5. Gear 3 - Neutral Gear 5 - Neutral 6. Gear 5 - Neutral Gear 6 - Neutral 7. Gear 6 - Neutral Gear 7 - Neutral 8. Gear 7 - Neutral Sear 7 - Neutral	borghini V19.52.00 03/05/2012 tador LP700-4 (C) (C) (C) (P) (C) (C) (C) (C) (C)

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54	Wait until the gear adaption procedure is completed. Gear engagements can be checked directly from the instrument cluster.	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 ECU setup after replacement / software Coupe programming 6.51 V12 MPI / 515 KW Reset gear adaptions Image: Coupe Image: Note: • The activity is displayed in the Instrument cluster of the car. Please wait Image: Coupe Image: Coupe 110 sec O sec 6 sec Image: Coupe 110 sec
55	Click on "Done" to continue.	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 ECU setup after replacement / software Coupe programming 6.51 V12 MPI / 515 KW Evaluate gear adaption Next the status of the gear actuator adaption will be evaluated. - - Press Done to continue. 1.Function description description

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		Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 ECU setup after replacement / software programming Coupe 6.51 V12 MPI / 515 KW
56	Click on "Done" in order to perform the Kiss Point adaption.	The gear actuator adaption was successfull. Next the clutch kiss-point will be performed. After starting the engine and pressing the brake pedal, the basic setting for the clutch kiss-point starts automatically. The clutch moves to the biting point 4 times. Press Done to continue. Operating mode Go to 25.05.2012 1:36
57	 Start the engine at idle and keep pressed the brake pedal for at least 1 minute. 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 46 	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 ECU setup after replacement / software programming Coupe Function Test Coupe Start the engine and allow to idle. Coupe Start the engine sed: 1. Function Hengine speed: 1829/min CAN Engine speed: 1830/min Input shaft speed: 0/min Please wait 2 Correcting mode Go to Correcting mode Co to

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58	 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 46 	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW Clutch kiss-point Performing the clutch kiss-point was successfull. Done 1.Function description
59	Select "Operating Mode" and then click on "Vehicle Self- Diagnosis"	Guided Functions Lamborghini V19.52.00 03/05/2012 Test Plan Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW OK SVM - Direct input: SVM code for problem-related update OK Erase fault memory - overall system OK 02 - ECU setup after replacement / software programming Operating mode Vehicle Self-Diagnosis Guided Fault Finding Operating mode Vehicle Self-Diagnosis Guide Go to Conto Conto Operating mode Vehicle Self-Diagnosis Guide Fault Finding

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60	Select "On Board Diagnostic (OBD)" and then click on	Image: Construction of the second
61	Scroll down the ECU list, select "01 – Engine electronics" and then confirm clicking on	Implementation Implementation Implementation Implementation Vehicle On Board Diagnostic ZHWUC1ZDXCLA00072 Select vehicle system Coded: Actual installation KD Bit GM ⁻ 6C - Rear view camera system Yes Can be reached OK Con 65 - Tire pressure monitoring Yes Can be reached OK Con 17 - Instrument cluster Yes can be reached OK Stat 03 - Brake electronics Yes can be reached OK Stat 04 - Steering angle sensor Yes can be reached OK Stat 10 - Parking aid 2 Yes can be reached OK Stat 10 - Parking aid 2 Yes can be reached OK Stat 12 - All-wheel drive electronics Yes can be reached OK Stat 15 - Airbag Yes can be reached OK Driv 02 - Gearbox electronics Yes can be reached OK Driv 02 - Gearbox electronics Yes can be reached OK Driv 02 - Gearbox electronics

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		🖙 On Board Diagnostic (OBD) 9.11.004 🗔 💷 🗙
		Vehicle On Board Diagnostic 01 - Engine electronics Functions supported 470909049A 470907552 Select diagnostic function LIE 2010 H03 U008 Coding long Dealership number 00000 Dealership number 00000
62	Select "Basic Settings" and then confirm clicking on	002 - Identification (Service \$22) 004 - DTC memory content 006 - Basic setting 008 - Coding (Service \$22) 011 - Measured values 015 - Access authorization 017 - Safety 020 - Special function 022 - End output Display all diagnostic functions
		Officered Diregeostic (000) 911.004 Image: Composite (000) 911.004 Vehicle On Board Diagnostic 01 - Engine electronics 006 - Basic setting 470909049A Enter display group LIE 2010 max. input value = 254 Coding long Dealership number 00000 Enter 00000
63	Insert the value 254 and then confirm clicking on "Q"	254 1 2 3 4 5 6 7 8 9 C 0 Q
		Image: A interview Image:

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		Con Board Diagnostic (OBD) 9.11.004	
		Vehicle On Board Diagnostic 01 - Engine electronics 006 - Basic setting 470909049A 47 Display group 254 LIE 2010 1 Measured values not in basic setting Coding long Dealership number 00000	70907552 H03 U008
64	Click on "Activate" on bottom right in order to start the reset for auto adaptation values.	Measured values not in basic setting Adapt. value reset Test OFF Measured values in basic setting	Activate Display group 254 Activate
65	 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 61 	Candow despende (netro) 311 401 Vehicle On Board Diagnostic 006 - Basic setting Display group 254 Measured values in basic setting Adapt. value reset Test OFF Measured values in basic setting Adapt. value reset Test OFF Measured values in basic setting Adapt. value reset Test OFF	Activate Display group 254 Activate Smulder • Tree

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		Cn Board Diagnostic (DBD) 9.11.004	
		Vehicle On Board Diagnostic 01 - Engine electronics	
		006 - Basic setting 470909049A 4	70907552
		Display group 254 LIE 2010	H03 U008
		Measured values not in basic setting Coding long	
		Dealership number 00000	
		Measured values not in basic setting	
		Adapt. value	Activate
	Go back to the test plan elighing	reset	
	OU Dack to the test plan cheking	Test OFF	Display
66	on the button A and then		group
00			254
	selecting "Guided Functions"	Measul Administration g	254
		Guided Fault Finding Adapt. value	
		Guided Functions reset	
		Collection services Syst. OK	
		Canaal	
		End	Activate
		Go to the Guided Functions (KWP2000 @ :	Simulation Trace
		Guided Functions Lamborghini V19.52.00 03	3/05/2012
		Test Plan Aventador LP700-4 2012 (C)	
		Note 🥩	
		OK SVI	
		OK Era	
		OK 02 ·	
		To establish communication with the vehicle a	
67	Click on "OK"	bluetooth connection to a suitable remote	
07		diagnosis head is required. Please ensure the	
		connection has been established.	
		- OK	
1		UK.	
		Go to 25.05.2012 16:23	

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		Guided Eurotions Lamborghini V19.52.00 03/05/2012
68	Go back to functions menu clicking on	Test Plan Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW OK SVM - Direct input: SVM code for problem-related update OK Erase fault memory - overall system OK 02 - ECU setup after replacement / software programming
69	Go back to the ECUs list clicking on "02 – Gearbox electronics"	Guided Functions Lamborghini V19.52.00 03/05/2012 Functions Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW 02 - Gearbox electronics J217 02 - Installation locations 02 - Identification, (Main gr. 03) 02 - DTC memory content, (Main gr. 03) 02 - Output Diagnostic Test Modus, (Main gr. 03) 02 - Replace control module, (Main gr. 03) 02 - Disable/Activate hydraulic pump 02 - Bleed clutch/valves 02 - Reset Clutch counter (clutch replacement) 02 - ECU setup after replacement / software programming

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		Guided Eurotions	Lamborghini V19 52 00 03/05/2012
70	Select "01 – Engine electronics"	Soluted 1 unctions Functions Selecting vehicle system or function 01 - Engine electronics J623 02 - Gearbox electronics J217 22 - All-wheel drive electronics J42 03 - Brake electronics J104 53 - Parking brake J540 65 - Tire pressure monitoring J502 14 - Wheel damping electronics J1 6B - Aerodynamic control unit J920 15 - Airbag J234 42 - Driver door electronics J386 46 - Central module comfort system 52 - Passenger door electronics J255 05 - Access and Start authorization Operating mode Vehicle system	Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW 97 97 97 1 J393 887 J393 25.05.2012
71	Select the program "01 – Throttle bodies, self learning"	Guided Functions Functions Selecting vehicle system or function 01 - Engine electronics J623 01 - General system description 01 - Installation locations 01 - Identification, (Main gr. 01 - 02) 01 - DTC memory content, (Main 01 - DTC memory content, (Main 01 - DTC memory content, (Main 01 - Coding, (Main gr. 01 - 02) 01 - Coding, (Main gr. 01 - 02) 01 - Measured values, (Main gr. 01 01 - Replace control module, (Main 01 - Throttle body, self learning Operating mode Vehicle system Go to	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.51 V12 MPI / 515 KW 2) gr. 01 - 02) 1 - 02) n gr. 09, Subgr. 81)

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		Quided Eurotions	Lamborghini V19 52 00 03/05/2012
72	Execute the program clicking on	OK SVM - Direct input: SVM code f OK Erase fault memory - overall sy OK 02 - ECU setup after replaceme - 01 - Throttle body, self learning	Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW or problem-related update stem ant / software programming
73	Be sure that Air Conditioning is OFF Cliccare su "Done"	Guided Functions Function Test J623 - Throttle body, self learning Test requirements In this test program the following be performed: • Reading DTC memory • Self learning Throttle bodys Test Requirements: To perform an accurate measurem next steps, the following test require be met: • Engine on at idle. • Water and oil temperature higher • Air conditioning system off.	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW Ig steps will forme ment in the rements must r/equal 85 °C.

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74	Switch the ignition ON. Click on "Done"	Guided Functions Function Test J623 - Throttle body, self learning Read fault memory - Switch on ignition.	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW
75	Start the engine at idle. Click on "Done"	Guided Functions Function Test J623 - Throttle body, self learning Status air conditioning system - Start engine and allow it to idle.	Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5I V12 MPI / 515 KW

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76	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.	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 J623 - Throttle body, self learning Coupe 6.51 V12 MPI / 515 KW Throttle Body, self learning procedure Engine water temperature (front) 34 °C (setpoint higher/equal 85 °C) Engine water temperature (back) 31 °C (setpoint higher/equal 85 °C) Oil temperature 23 °C (setpoint higher/equal 85 °C) Throttle body - Self learning enabling conditions flag 0 (0: not enabled - 1: enabled) Throttle body - Self learning ended 0 (0: not enabled - 1: enabled) Throttle body - Self learning ended 0 (0: not enabled - 1: enabled)	
77	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.	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 J623 - Throttle body, self learning Coupe 6.51 V12 MPI / 515 KW Throttle Body, self learning procedure Engine water temperature (front) 91 °C (setpoint higher/equal 85 °C) Engine water temperature (back) 91 °C (setpoint higher/equal 85 °C) Oil temperature 85 °C (setpoint higher/equal 85 °C) Throttle body - Self learning enabling conditions flag 1 (0: not enabled - 1: enabled) Throttle body - Self learning ended 0 (0: not enabled - 1: enabled) Throttle body - Self learning ended 0 (0: not enabled - 1: enabled)	

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78	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.	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 2012 (C) J623 - Throttle body, self learning Coupe 6.51 V12 MPI / 515 KW Throttle Body, self learning procedure The test procedure was successful. Done Image: Comparison of the test procedure was successful. Done 25.05.2012 Image: Comparison of the test procedure was successful. Come 25.05.2012 Image: Comparison of the test procedure was successful. Come 25.05.2012 Image: Comparison of test procedure was successful. Come 25.05.2012
79	Click on "Done" in order to end the program.	Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 J623 - Throttle body, self learning Coupe 6.51 V12 MPI / 515 KW Image: Completion of the function test, do not forget to restore all the connections disconnected for it (connectors, fuses etc.) and so return the vehicle to its original condition! Done Image: Completion of TEST END OF TEST 25.05.2012 Image: Completion mode Go to Image: Completion 25.0012 Image: Completion of the function test, do not forget to restore all the connections disconnected for it (connectors, fuses etc.) and so return the vehicle to its original condition! END OF TEST

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Troubleshooting

А.	If, after the software programming, the following fault codes are stored into the DTC memory of the Engine ECU: 01089 P0441 000 EVAP Emission Contr.Sys. Incorrect Purge Flow Sporadic 05268 P1494 000 EVAP Emission Contr.Sys. 2 Incorrect Purge Flow Sporadic it is possible that purge electrovalve's connectors are swapped. Connect the connector with the white label at the purge electrovalve for bank right (n.1 in the picture beside) and the connector with the yellow label at the purge electrovalve for bank left (n.2 in the picture beside). Erase the DTC memory of the Engine ECU and perform again the Self-learning procedure starting from step 72	
B.	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	Warning Solution Warning Warning The remote diagnostic head in use (VAS5054A) is not installed correctly. Please close the application then install and connect the device according to the description in the user manual.

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C.	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	Guided Functions Lamborghini V18.41.00 20/07/2011 Function Test 2012 (C) Evaluation of received data Coupe 6.51 V12 MPI / 515 KW Online connection setup The following event has occurred: • No online connection could be made. - Check your User ID (GEKO User). - Check whether the Vehicle Diagnostic Tester with the respective hardware is connected to your online network. Do you want to repeat the connection setup? Operating mode So to Øs to 2012 (A) Operating mode
D.	 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 	Guided Functions Lamborghini V18.41.00 20/07/2011 Function Test Aventador LP700-4 2012 (C) Evaluation of received data Coupe 6.51 V12 MPI / 515 KW Online connection setuo Next, the identificat Malhunction online-connection Next, the identificat Malhunction online-connection I.Function transmitted to the S Management (SVN For this, the Vehicl The identification was incorrect. an online connectic Enter it again? - Connect Vehicle Cancel respective hardwar Vision Operating mode Cancel Press <done> button after the online connection has been established. Then enter your User ID (GEKO User) using the screen Operating mode Cate</done>

Your Area Manager is at full disposal for further information.

Best regards

Customer Service

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