Subject

Engine Software Update

To:

Date: Pages

Subject:

Model

All Lamborghini Aventador SV MY 15 and Aventador Coupé, Roadster MY 16, all versions, until VIN GLA04356 US vehicles excluded

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

Information to the field

As a result of continuous product monitoring, Automobili Lamborghini Spa has introduced a new engine management software to enhance the vehicle start up performed combining warm engine and remarkably high room temperature.

Field solution

Rev.01

Update software that manage engine software.

Warranty Claim data

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

Campaign Code:	L73X-A.02.15
Campaign Des.:	Engine SW Update
Cost code:	50
Component code:	CCA0215
Trouble code:	220
Labor code:	CC0215100
Labor Time:	1 h

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



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Workshop instructions



The instructions contained in this bulletin are based on ODIS Service diagnosis software updated to release 2.2.6 and database Lamborghini 2.2.6

🖶 Version information		x
Version information		
Product version:	2.2.6 RC369L_P5_B22_12_5_17-20150	0626
Main feature:	6.70.5	
Diagnostic data:	didb_Base-zh_CN: 2015.4.22.2015-04-2	•
	didb_GFS- <mark>2.2.6</mark>	_
	didb_GES- <mark>L</mark> it_IT: 2.2.6	=
	didb_GFS- <mark> </mark> en_GB: 2.2.6	
	didb_GES- <mark>1</mark> zh_CN: 2.2.6	~

Preliminary operations:

1. Make sure to be recently synchronized with Mirrorserver by checking the Last Sync date under:

http://mirrorserver/welcome

or under:

http://IP address/welcome

if you didn't yet set up the mirrorserver IP alias



IMPORTANT

Make sure the last synchronization has been done after the 28th july 2015.

Congratulations

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

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

Configuration	
Base path	/var/www/desert
Provider URL	https://altair.mirrorserver2.net/deployment
Repository URL	https://altair.mirrorserver2.net/storage
Feedback URL	https://altair.mirrorserver2.net/health
Proxy	http://10.48.187.43:8080/
Key file	/var/www/desert/certs/userkey.pem
Certificate	/var/www/desert/certs/usercert.pem
Tests	
Provider WebDAV access	OK (/deployment/)
Repository WebDAV access	OK (/storage/)
Feedback WebDAV access	OK (/health/)
Successful package downloads	5
Failed package downloads	0
Last Sync	28-07-15 at 22-55-33

Update procedure:

2. Please connect a battery charger to the recharge points available in the engine bonnet, as shown in picture.



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3. Please connect the VAS5054 interface to the vehicle's OBD plug and to the diagnostic laptop.

Turn the ignition ON



4. Start the ODIS Service double clicking on the related icon on the desktop of the diagnosis laptop.



5. Scroll down the right side vertical bar. Click on "OK" to hide the general information window.



6. Select "Start diagnosis".



Make sure that ODIS can detect the vehicle connection status and the key ON.

Cffboard Diagno	stic Information System Service - 2.2.6					- 0
Importer: Dealer: Job:	_	Vehicle identification no.: Engine:			🥔 🦺 🗞	CANE LOCAL DATA
	Welco Objective: Congretensive daga vehicion will be identified and the fi- tunctors will be available for dag functions will be available for dag functions with the available for gration switched on Start diagnosis	orme to the dia ostic functionally Attry ou h aut memories will be evaluated on the second second second second on the second second second second second on the second se	agnostic prog ave connected the vehicle an ed. Then the 'Guided Fault' Aurority of the 'Guided Fault' Aurority of the 'Guided Fault' Science of the 'Guided Fault'	ram distanted the diagnosis, the Inding" and "Guidest Functio or our can also use self-diagnoo	ns" sis.	Operating modes x P Diagnosis B Set-Glagnosis Flash ne-programming Test instrument Information Protocol Rata Data Extras Hedp W Hedp Stata



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7. Check the vehicle identification on the window *"Basic vehicle characteristics"*.

Select first the Variant (Coupe' or Roadster) in the related menu.

Select then the Engine type (515 - 530 or 552 kW) in the related menu.

Deselect the checkbox "Using guided fault find-ing"

Click "Adopt"

C Offboard Dia	grostic Informa	tion System Service - 2.2.3			and the second second			
Importer:		INT	Vehide ider	tification no.:	ZHWEF3ZD2FLA03477		LAMBORCHIN	
Dealer:		10088	Engine:			🧈 🍢 🏷	\ / / /	
Job:				Basic vehicle characteris	53		\sim	
Control units	Results .	obs DISS TPI Test	plan Process Spe	Vehicle identific	ation 🛛 automatic 🕒 manually		Operating modes *]
Control unit	list			VIN			🕲 Diagnosis	
Address	Event	Name		ZHWEF3ZD2F	LA03477		🍘 Sef-dagnosis	
							G Flash re-programming	
				Manufacturer			△ Test instrument	
				Lamborghini		*	Information	
				Model			MA LOCK	ľ
				Aventador		-	2 A voun	
				Model year				1
				2015 (F)		*	Protocol *	
				Variant			Data ¥	1
				Coupé		•	buu	1
				Engine			Extras ¥	1
						•		l
				6.5I V12 MPI / 8	515 KW		Help ¥	
Block diagn	am Control	unit list Fault memory	ist Equipment list	6.5/ V12 MPL/3	530 KW			ł
📕 Diagno	sis 🔳 Dis	playing 💐 Sorting		10	Adopt Ca	ancel	»	
Automatic vehicle	identification has	been frished.				Check vehicle	identification	9

8. Click "Yes"

Τ



9. Skip the Login window by clicking "Cancel"

Dealer:		10088	Engine:	6.5I V12 MPI / 515 KW	🥔 🏪 🏷		
look	Posuite I	when DISS TPL Test	vian Seniuence Snarial functions			Operating modes	
	1.1	CLOCK STOCK				Q. Disecció	
Address	Event	Name				(Self-diagnosis	
			Co Login	—	ß	Relash re-program	mmina
			User nam	e		A Test instrument	
			Password			information	
				test Count		🚱 Admin	
				Apply Cancel			
						Protocol	
						Data	
						Extras	
						Holo	
3lock diagra	m Control	unit list Fault memory li	st Equipment list			нар	
		ided for it finding	isolaving			3	0

10. At the end of start-up procedure (see status in the progress bar bottom right), move on the ODIS tab "**Special functions**" now available.



11. Select "SVM – Direct input: SVM code for problem related update" by clicking the related row with the mouse.

Click "Perform test..." to execute the SVM function

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12. Insert in the upper box with the cursor the code L73XA0215

Click "Adopt"



13. Confirm that the inserted code is correct clicking on "Yes".



14. Click on "Done/Continue" to start the data acquisition from all the vehicle's ECUs.



IMPORTANT

Connect always a battery charger during the SVM function



15. Wait until the data acquisition from all control modules is completed.

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16. For the online authentication a valid GeKo account is necessary.

Be sure that your internet connection is working properly.

Click on "Done/Continue" to access the Login window.

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 "Adopt".



17. The communication is then established with the central server.

At the end of communication you receive following feedback: AMBORGHINI

"-software to be update has been detected (on 2 control units)."

Click "Done/Continue".





NOTE:

In the case of VIN MY16, the update is related to **only one ECU** (the control unit LIE for the Engine)

In that case follow only the steps related to the Engine Software update (Steps **20-24-25**, from **28** to **36**) and following Engine adaptations (Steps from **14** to the end)

18. All the data to be updated on all the interested control units have to be determined.

Click "Done/Continue".

Importer: Dealer: Job:	INT 10088	Vehicle identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5I V12 MPI / 552 KW	🥔 🏪 🏷	
Control units Resu	its Jobs DISS TPI Test	plan Process Special functions			Operating modes 3
Problem related h Result	ardware and software upda	ile		► Done/Continue	Diagnosis Diagnosis Self-diagnosis Disch-diagnosis
Notification code Notification code	evaluation - Pre	re the control modules on which an updat ayed, all data required for the updates m procedure may take a few seconds. ss <done></done> button to start the data acqui	e programming is possible can be ust first be determined.		Test instrument
End modules Action evaluation				Function description	Protocol Data
Preparation steps	1				Print
Result			Helo Gancel test		🖲 Stop
<u> </u>			nop outoited		M 🔛 🖸

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Applicable only on VIN MY15

By chosing the 2nd option, all the interested control units will be updated without interruption.

Click "Done/Continue".



20. Engine Software Update.

Depending on the market and according to car's equipment, new engine software part number and version will be different.

The example in the figure below refer to software version for MY15 Superveloce:

470909049BF; 1631



21. Gearbox Software Update.



Applicable only on VIN MY15

The example in the figure below refer to software part number and version of the Gearbox for MY15 Superveloce.

470927256D; 0942

Click "Done/Continue" to continue.

Ca Officiend Diagnostic Inform	mation System Service - i	225			- 0 - X
Importer: Dealer: Job:	INT 10088 	Vehicle identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5i V12 MPI / 552 KW	🥔 🏪 🏷	
Control units Results	Jobs DISS TPI	Test plan Process Special functions			Operating modes *
Problem related hard Displaying possible u	tware and software	e update		Done/Continue	Diagnosis
Action evaluation		An update programming is suggested fo electronics The new software part number; version fo 470927256D ; 0942	r the control module 02 - Gearbox		Flash re-programming Test instrument
Preparation steps Result		- Press <done> to continue the program</done>	L		Admin .
Reading sequence Evaluating sequence	:			Function description	Protocol × Data ×
Displaying possible u Displaying possible u	update program				Print
	,	K < > >	v Help Canceltest		» 🗵 🛈
				Execution of t	he test 🛛 💼 🖏

22. Click "2" to select the Software update without interruption on all electronics control units interested in.



Applicable only on VIN MY15

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23. Click "Done/Continue" to update without interruption all electronics control units interested in Software Update.



24. Wait until the update programming of the engine ECU is completed.



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25. Once the update programming has been completed successfully a feedback as in the picture below is displayed.

Click "Done/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.



26. Wait until the update programming of the gearbox ECU is completed.



Applicable only on VIN MY15

	Engine:	6.5I V12 MPI / 552 KW	🥔 🦆 🏷		Importer: Dealer:	INT 10088	Vehicle identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5I V12 MP1 / 552 KW	🧢 🏪 🍾		
TPI Test plan	Process Special functions			Operating modes 🔹 🔶	Job:						
ware update				🕲 Diagnosis	Control units Re	sults Jobs DISS TPI Test p	tan Process Special functions			Operating modes	ŝ
				🎁 Self-dagnosis	Problem related	hardware and software update	e			😯 Diagnosis	
The upd	ate programming of the control m	odule 01 - Engine electronics		S Flash re-programming	1 - Update prog	ramming - 02				🎁 Self-dagnosis	
will be s	tarted.	10750		A Test instrument	Terminal 15 sel	The up	pdate programming of the control n	nodule 02 - Gearbox		Slash re-programming	
The upda	te programming may take up to 18 m	nnutes.		Information	Reading narrows	anudata Thous	onica will be staned.	into		🙆 Test instrument	
Z	alt, the VAS 505x will automatically o	continue		🖗 Admin	Picture (Please	o wait the 1/A \$ 505x will automatically	continuo		information	
					Distinction of co		e wan, me viro occi win automatically	continue		🌍 Admin	1
	Note			Protocol *	Erasing DTC m	emory	Note	Section of the sectio			
	The test is running an o User entries are there	peration that cannot be interrupted. efore not possible at the moment.	Function description	Data â	Checking contro	n module version	The test is running User entries are	an operation that cannot be interrupted. therefore not cossible at the moment.	Function description	Protocol	×
			nstructions for settings		Cecking login					Data	*
				() Print	Checking flash	data container			instructions for settings	r	4
0		v			Checking requir	ements				C Print	
•		300		Stop -	1 - Update prog	ramming - 02					1
$ \langle \rangle$	< > >	Help Cancellest		>> => (3)	* [• • • •		100		🔄 Stop	-
			Execution of the				< > >	Help Cancel test		>> 🔯 📀	
	-								Execution of the	test	-
									I		
	· · ·										
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27. Once the update programming has been completed successfully a feedback as in the picture below is displayed.

Click "Done/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**.



28. In the following an ignition OFF – ON cycle is necessary to restart the ECU.

Press "Done/Continue" to continue.

Deal Job:

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29. Switch the ignition OFF.

Press "Done/Continue".



30. Switch the ignition ON.

Press "Done/Continue".

Chi Officiend Diagnostic Information System Servic	e-225			
Importer: INT	Vehicle identification	on no.: ZHWEF3ZD2FLA03	3477	FUNECOS INTO
Dealer: 10088	Engine:	6.5I V12 MPI / 552 K	w 🛛 🎣 🍢	• XIII \ <u>}</u> /
Job:				
Control units Results Jobs DISS T	PI Test plan Process Special fur	nctions		Operating modes *
Problem related hardware and softw	are update		► Done/Continu	Diagnosis
Terminal 15				🎲 Self-dagnosis
occongraga	- Switch on ignition.		*	G Flash re-programming
Checking flash data container				Test instrument
Checking requirements				
1 - Update programming - 02				
Special cases				128 sound
Terminal 15 selection				Protocol *
Reading necessary data			Function descripti	on
Manual flashing, as usual			Instructions for setti	ngs Data ×
Terminal 15 selection				D Print
Terminal 15	1			
к [] →	i		-	C Stop
	$ \langle \rangle \rangle$	Help Car	ncel test	>> 🔯 📀

31. Click "Done/Continue" to perform the last update operations required by the SVM.

er: INT : 100	Vehicle identification no: 214WEF3202FLA03477 88 Engine: 6.5I V12 MP1/552 KW		Importer: INT Dealer: 10088 Job:	Vehicle identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5I V12 MPI / 552 KW	🧈 🦺 🏷	
units Results Jobs	DISS TPI Test plan Process Special functions	Operating modes *	Control units Results Jobs DISS TPI Test p	plan Process Special functions			Operating modes *
em related hardware a nal 15 selection	nd selfware update	Diagnosis	Problem related hardware and software updat Action evaluation	te		▶ Done/Continue	Diagnosis Image: Self-diagnosis
ang como nouso no	In the following it is necessary to switch the ignition off and on.	Flash re-programming	Special cases The pr	rogram for Software Version Management (S)	/M) was performed.		Flash re-programming
ing rogin	- Press the Done button and follow the instructions.	Test instrument	Terminal 15 selection	cessary actions on the vehicle need to be com	pleted before proceeding.		Can Test instrument
dog requirements		📦 Information	Reading necessary data				Information
date programming - 0.	2	🎯 Admin	Manual flashing, as usual				19/ X3101
al cases		Protocol *	Terminal 15 selection			unction description	Protocol *
nal 15 selection	Function description		Terminal 15		in	structions for settings	Data 🏾 🎗
ng necessary data	Instructions for settings	Data *	End modulos				(ig) Print
al flashing, as usual		D Print	Action evaluation				
nal 15 selection	Û.		к () ж				🖪 Stop
					Help Cancel test		۵ 🖾 ≪
<u>s</u>	Help Cancel test	>>				Execution of the	e test 📃 🖏
	Exection of	the test 📰 🐃					
L	The information and procedures published below at als. All copyrights are the property of Automobili updates and modifications. The reprinting, reprodu translation thereof are prohibited without written au	re strictly confiden Lamborghini S.p./ Iction, forwarding thorization from A	tial and intended exclu A based on copyright la to unauthorized people utomobili Lamborghini	sively for authoriz aw. The company e and/or to third pa i S.p.A.	ed operators and reserves the righ arties and partial doc. nr: L/V6_M	individu- t to make or entire 106 Rev.[02]	9/20

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32. SVM can be completed after data acquisition from all ECUs.

Click "Done/Continue".

Importer: Dealer: Job:	INT 10088	Vehicle identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5I V12 MPI / 552 KW	a 🖣 🍫		
Control units Result	s Jobs DISS T	PL Test plan Process Special functions			Operating modes	*
Problem related ha	rdware and softw	vare update		Done/Continue	📎 Diagnosis	
Documenting actua	al status				🍘 Self-dagnosis	
		The following feedback is sent to the Softw	are Version Management (SVM) to		Stash re-programmin	ng l
Terminal to select	on	document changes in the vehicle.			🛆 Test instrument	
Reading necessar	y data	1 Note	-Beating and among for family and around		lnformation	
Manual flashing, as	s usual	the relevant program for Software Version	Management (SVM) must be		🚱 Admin	
Terminal 15 selecti	on	software versions as well as codes and pa Monogoment (SVM)	rameter settings to Software Version			=
Terminal 15		Replacement of a control module Indete programming of a control module	ule vie a CD/DVD drive in the vehicle	Function description	Protocol	¥
END		opulie programming of a control mout	ale pogenning of a contor house via a CD/D vD ante in the vehicle		Data	*
End modules					ſ	
Action evaluation					D Print	
Documenting actu	al status				TH Stop	
	+		Ŧ			<u> </u>
			Help Cancel test		>	3

33. Wait until the data acquisition from all the control modules is completed.

Importer: Dealer: Job:	INT 10088 	Vehicle identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5I V12 MPI / 552 KW	🧈 🏪 🏷		
Control units Res	ults Jobs DISS TPI T	est plan Process Special functions			Operating modes	*
Problem related h	nardware and software u	pdate			😲 Diagnosis	
2 - reading identif	ication				🍅 Self-dagnosis	
	^ n	he identification data are read from the follow	ing control unit.		Flash re-programming	10
3 - reading identif	ication 0	5 - Access and start authorization			🙆 Test instrument	
4 - reading identif	ication N	umber of control modules read:			information	
5 - reading identif	ication 5	0124			(G) Admin	-1
8 - Read Identifica	ation	lease wait, the VAS 505x will automatically i	conunde			
1 - reading identif	ication			Transform descendention	Protocol	¥
1 - reading identif	ication				Data	*
Vehicle evaluatio	n			instructions for settings		
10 - reading ident	tilication				🗊 Print	
2 - reading identif ∢[#	ication		v		C. Stop	
	-	< < > >	Help Cancel test		≫ ⊠	З

34. Once the data report has been sent to the servers a feedback as in the picture below is displayed.

The software update of engine and eventually the gearbox ECUs has been completed successfully and all the information have been stored in the system.

Press "Done/Continue" to exit the program.

35. Go back to the tab "Special functions" and select "Erase fault memory – overall system" to clear all the faults stored because of the recent software update.

36. Execute the program "Erase fault memory – overall system" clicking on "Perform test..."

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<u>/* Adaptation downstream the Software Updates */</u>

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They are almost always necessary at the end of a control unit Software Update and after the next overall fault memories erase.

Following steps from 1 to 13 are needed only in the case of Gearbox Software Update.

In the case of the only update of the Engine Software, proceed starting from step **14**.

1. Go back to the Control Unit tab (block diagram or list view), to select the Transmission Electronics ECU GET_02 and its Guided Function.

2. Select the function "02 – ECU setup after replacement / software programming" in order to initialize the gearbox ECU.

Click "Execute" to run the test.

3. Click "Done/Continue".

ち Offboard Diagnostic Info	ormation System Service -	- 225			- 0 - *
Importer: Dealer: Job:	INT 10088 	Vehide identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5IV12 MPI / 552 KW	🧈 🏪 🏷	
Control units Result	s Jobs DISS TP	Test plan Process Special functions	_		Operating modes *
ECU setup after rep Test entry	placement / softwar	e programming		Done/Continue	👽 Diagnosis
Preparation steps		In this test program the following	*		S Flash re-programming
Preparation steps		steps are run through: • Reset permanent stored memory			Test instrument
Select system		Gear actuator adaption Clutch kiss-point performing			lnformation
Automatic gearbox	control unit -J217	Preconditions: • None			🚱 Admin
End modules					Protocol *
Test entry				Function description	
					Data *
e[#	,				Print
		K < > >	Help Cancel test		» 🛛 🔿
				Execution of t	ne test 👘 🖏

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5. The status of the gear adaptation is evaluated. Click "Done/Continue".

Offboard Diagnostic Information	System Service - 2.1.1					0_	
Importer: II	NT	Vehicle identification no.:	ZHWEC1ZD9DLA	01459	-	LAMEOREHIN	
Dealer: II	0088	Engine:	6.5I V12 MPI / 515	KW	🫹 🏪 📎		
Job:	-						
Control units Results Jobs	s DISS TPI Testplan	Sequence Special functions				Operating modes	* ń
ECU setup after replacem	ent / software programm	ing		► Dor	ne/Continue	😵 Diagnosis	
Interrogate gear adaption			k			🎁 Sef-dagnosis	
Preparation steps	Next the stat	tus of the gear actuator adaption	a will be evaluated.			📽 Flash re-program	nning
Preparation steps	- Press Don	e to continue.				🛆 Test instrument	
Select system						lnformation	E
Automatic gearbox contro	l unit -J217					🚱 Admin	
End modules						Bestevel	<u> </u>
Test entry				Functio	n description	PTOIDCOI	,
Reset permanent memory	1					Data	¥
Interrogate gear adaption						Extras	¥
						Help	¥
с(п	1.1						
		>	Help C	ancel test		>>	0
					Execution of the	elest	

6. Click "Done/Continue".

7. Click "Done/Continue" in order to execute the gear adaption.

8. Gear adaptation.

Confirm clicking on "Yes".

Offboard Diagnostic I	Information System Service - 2.1.1			No. 1996		
Importer: Dealer: Job:	INT 10088 	Vehicle identification n Engine:	10.: ZHWEC1ZD9 6.5I V12 MP1/	DLA01459 515 KW	🧢 🏪 🏷	(Construction)
Control units Res	uits Jobs DISS TPI Te	est plan Sequence Special fund	ctions	_		Operating modes
ECU setup after	replacement / software pr	ogramming			Yes	🚱 Diagnosis
Reset gear adap	ations			k 👘		🍘 Self-diagnosis
Preparation step	s Ea	ch gear will be shift 5 times (5x)	responsively with Neutral position	in following	NO	Elash re-programming
Preparation step	s 1. 1	Gear 1 - Neutral Reverse - Neutral				Test instrument
Select system	3 4	Gear 2 - Neutral Gear 4 - Neutral				lnformation
Automatic gearb	ox control unit -J217 6,	Gear 3 - Neutral Gear 5 - Neutral				Q Admin
End modules	8. Do	Gear 7 - Neutral you want to perform the basis	ic setting now?	_		
Test entry					Function description	Protocol
Reset permanen	nt memory					Data
Interrogate gear	adaption					Extras
Reset gear adap	ations					Links
<[п					rich
	ŀ	< > >	Help	Canceltest		≫ ⊠ ⊘

9. Wait until the gear adaption procedure is completed.

Gear engagements can be checked directly from the instrument cluster.

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11. Kiss point

Click "Done/Continue" in order to perform the Kiss Point adaptation.

Car Officerd Diagnostic Information Syst	em Service - 2.2.5				
Importer: INT Dealer: 1008 Job:	8	Vehicle identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5I V12 MPI / 552 KW	🥔 🏪 🏷	
Jobi — — Control mit distance de la ECU setja after replaciment Evaluate pour adaption Evaluate pour adaption Repeation steps Redect system End modules Frest only Reade permanent memory	ISS TP I software programm Next the c Next the c After start c.k.ch kiss - Press D	Process Month Indone	4. the people the basic setting for the basic people the biting point 4 times.	DonelContinue DonelContinue Function description	Operating modes 2 Diagnosis 3 Diagnosis 4 Tash is a cogramming 7 Test instrument 8 Information 7 Amm 7
Interrogate gear adaption Reset gear adaptions Evaluate gear adaption I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			Help Canceltest		Print Stop

12. <u>Start the engine at idle and keep pressed the</u> <u>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 **1**.

13. If the Kiss Point adaptation is completed successfully the screenshot below will be displayed.

Click on "Done/Continue" 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 **1**.

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- **14.** Go back to the Control Unit tab (block diagram or list view), to select the Engine ECU MOT_01 and the Guided Function:
 - 01 Reset adaptation values.

Click "Execute" to start the procedure for resetting the adaptation values (Basic Setting 254).

- **15.** Be sure the activation conditions are respected:
 - key ON;
 - engine OFF;
 - no faults stored in the Engine ECU's memory;
 - press "Done/Continue".

16. Click "Yes" to continue.

17. Click "Done/Continue" to perform the basic setting.

Collibrard Diagnostic Information System Serv	rice - 1.2.0			
Importer: INT Dealer: 10088 Order: —	Vehicle identification no.: Engine:	ZHWUR1ZD9DLA01083 6 51 V12 MPI / 515 KW	a 🔀 🔊	
Controlurits Results Jobs DISS T	Pl Test plan Process Special functions			Modes *
J628 - Reset adaptation values			▶ Done/Continue	🤣 Diagnosis
Basic setting 254				🍘 Self-diagnosis
Preparation steps	- Press Done to start the basic setting.	-		🐗 Rash reprogramming
Preparation steps	Ī			Test instruments
Subsystems	Ī			😝 Info
Select system	Ī			🚱 Admin
Engine control module -J623	Ī			
Endmodules	Ī			Protocol ¥
Test entry	Ī			Data ¥
Message	Ī			Evtrac 8
Preparation steps	Ī			LANDU .
Basic setting 254	Ī			Help ¥
				Info ¥
	K K > >	Help Cancel test		» 🖾 📀

18. 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 below.

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- **19.** 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 14.

Click "Done/Continue" to exit the basic setting.

Citboard Diagnostic Informa	ation System Service - 2.2.5			-	
Importer: Dealer: Job:	INT 10088 	Vehicle identification no.: Engine:	ZHWEF3ZD2FL403477 6.5i V12 MPI / 552 KW	🧈 🏪 🏷	
Control units Results	lobs DISS TPI Test plar	Process Special functions		_	Operating modes *
J623 - Reset adaptatio	on values			Done/Continue	📎 Diagnosis
Basic setting 254					🎁 Self-dagnosis
Preparation steps	The basic	setting Reset adaptation values w	as successful		Seal Flash re-programming
Preparation steps					Con Test instrument
Subsystems					linformation
Select system					🍘 Admin
Engine control module	: -J623				
End modules	-				Protocol *
Test entry					Data *
Message					Titl Print
Preparation steps					<u> </u>
Basic setting 254					🖪 Stop
		> >	Help Cancel test		» 🛛 🔅
Control unit identification has been	finished			Farcution of t	te test

20. Go back to the Control Unit tab (block diagram or list view), to select the Engine ECU MOT_01 and the Guided Functions.

21. Select the Guided Function

"01 – Throttle bodies, self learning".

And execute clicking on "Execute".

22. Be sure that Air Conditioning is **OFF.** Click "Yes"

23. The prerequirements for the test are summarized.Press "Done/Continue"

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24. Start the engine at idle.

Click "Done/Continue.

😋 Offboard Diagnostic Informa	tion System Service - 2.2.5	5	the second se		
Importer: Dealer: Job:	INT 10088	Vehicle identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5I V12 MPI / 552 KW	🧈 🦺 🏷	
Control units Results	lobs DISS TPI T	est plan Process Special functions	_		Operating modes *
J623 - Throttle body, s	elflearning			▶ Done/Continue	📎 Diagnosis
Status air conditioning	system				🎁 Self-dagnosis
Preparation steps	. 5	Start engine and allow it to idle.	*		S Flash re-programming
Preparation steps					Test instrument
Test requirements					linformation
Read fault memory					🧐 Admin
Status air conditioning	system				
					Protocol +
					Data *
					D Print
					🖉 Stop
	ŀ	< < > >	Help Cancel test		»

25. Self learning is an automatic procedure and it is activated when engine water and oil temperature exceed 90 $^{\circ}$ C.

Check the parameters from ODIS and wait until water and oil temperatures reach the target.

Don't perform any action on the car (e.g. pushing the accelerator pedal) if not necessary.

26. Once reached the activation conditions (water and oil temperatures major than 90°C) the "Throttle body – Self learning enabling con-ditions flag" changes from 0 to 1 indicating the start of the self-learning procedure.

 Offboard Diagnostic Information System S 	rrike - 22.5			n Ca	*
Importer: INT	Vehicle identification no.:	ZHWEF3ZD2FLA03477		LANECOGRAM	
Dealer: I0088	Engine:	6.5I V12 MP1 / 552 KW	🥔 🏪 🏷	、///	
Job:					
Control units Results Jobs DISS	TPI Test plan Process Special functions		_	Operating modes	*
J623 - Throttle body, self learning			Done/Continue	😵 Diagnosis	
Throttle Body, self learning proce	dure			🎁 Self-dagnosis	
Preparation steps	Engine water temperature (front)	A.		🕼 Flash re-programmin	a.
Preparation steps	89.0 °C (setpoint higher/equal 90 °C) Engine water temperature (back) 93.0 °C (setpoint higher/equal 90 °C)			🙆 Test instrument	
Test requirements	Oil temperature 90.0 °C (setpoint higher/equal 90 °C)			lnformation	
Read fault memory	Throttle body - Self learning enabling co 1 (0: not enabled - 1: enabled)	onditions flag		🚱 Admin	
Status air conditioning system	Throttle body - Self learning ended 0 (0: not enabled - 1: enabled)				Ţ
Throttle Body, self learning proce	Please wait, the vehicle diagnosis tester wi	III automatically continue		Protocol	÷
				Data	*
				Titl Print	٦
<i>к</i> п				Stop	
Q .		Help Cancel test			3
			Execution of	her feet	

27. If the self-learning is completed successfully a screen as in the picture below is shown.

Click "Done/Continue" to display the ignition advance values.

If in 10 minutes from the activation the procedure has not been completed, interrupt and:

Switch the ignition OFF;

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- Wait 1 minute before redo the ignition ON;
- Restart the procedure from step 20.

28. Have a look to the ignition advance values, that must be inside the range $[-2^{\circ} 3^{\circ}]$.

In the case those values were out-side the range, restart the procedure from step 20 after an ignition switch OFF for at least 1 minute.

Switch the engine OFF and press "Done/Continue" to exit the program.

Importer: Dealer: Job:	INT 10088 	Vehicle identification no.: Engine:	ZHWEF3ZD2FLA03477 6.5I V12 MPI / 552 KW	🥔 🏪 🏷	
Control units Resu	its Jobs DISS TPI To	st plan Process Special functions			Operating modes 3
J623 - Throttle box Evaluate self learn	dy, self learning ning values			Done/Continue	Diagnosis
Preparation steps	Th	e measured values are OK.	^		Flash re-programming
Preparation steps	lgr	illion advance - bank right -0.22 *			Test instrument
Test requirements	.9	witch off engine.			linformation
Read fault memor	у				Ś
Status air condition	ning system				
Throttle Body, self	learning procedure				Protocol
Evaluate self learn	ing values				Data
(7				Print
a	k	< < > >	Help Cancel test		≫ ⊠ ③

/* Diagnosis Protocol Saving*/

29. At the end of previous steps, expand the menu' "**Protocol**" on the right side (menu bar).

Offboard Diagnostic Information System Service - 2.0.0-1							
Importer.			Vehicle identification no.:	ZHWER1ZD9DLA01041		LAMSCOTHIN	
Dealer:		10088	Engine:		🥔 🏪 🏷	\ 🙈 /	
Order:							
Control units	Results J	lobs DISS TPI Test plan	Process Special functions			Modes	* ^
Control unit	list (52 entr	ies)				🌚 Diagnosis	
Address	Event	Name			<u>*</u>	() Self-diagnosis	
10	0	Parking Assistance 2 (10 -	Parking assistant / parking aid) (470919475 0012 PARKHILFE 8K)		S Flash reprogramming	
20	0	High Beam Assistance (no	ot yet identified) (··· ··· ···)		_	Test instruments	
30	0	Special Function 2 (not ye	t identified) (··· ··· ···)		10	😫 info	
01	0	Engine Control Module 1 (01 · Engine electronics) (470909)	049G Z014 LIE 2010)	10	(a) Admin	
02	0	Transmission Control Module (02 - Gearbox electronics 086) (470927256A 0921 SL750 Lambo E-Gear)					
22	0	All Wheel Control (22 - Haldex4) (01S907554 0103 HLSC 737 Lambo 4WD) Protocol					
42	0	Door Electronics Driver Side (42 - Door electronics, driver side) (470959793A 0702 TSG FA)					
52	0	Door Electronics Passeng	er Side (52 - Door electronics, pa	ssenger side) (470959792A 0702 TSG BF		5ave	-
62	0	Door Electronics Rear Lef	t (not yet identified) ()		1	9 Print	
72	0	Door Electronics Rear Rig	int (not yet identified) ()			Send	
Block diagra	m Control	unit list fault memory list Equ	upment list		-	🗎 Сору	1.
O Diagnos	is 🔳 Dis	playing 🎙 Sorting				» 🛛 🔇	

30. Click "Save" in the subgroup of buttons "*General*" In the diagnosis protocol window under GFF select:

- Long protocol.

By clicking on it. Then click "OK".

31. Select the position where you want to save the diagnosis protocol on your diagnosis laptop.

(default path can be changed under Admin and is set under ODIS Service installation folder)

Diagnosis protocol format is internet (.htm).

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Click "Save" to save the protocol.

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Click "**Print**" in the subgroup of buttons "*General*" to print the protocol directly on a pdf file (if available Adobe pdf) or in paper format by sending to an installed network printer

32. The diagnosis protocol has to be attached to the related Warranty Claim

(in order to insert the claim on the Web Portal, please refer to Warranty Claim Manual you can find under the Portal, Warranty section.

Trouble shooting

- **A.** If the error message regarding the VAS5054 interface and the 2 icons for status of on board connection and key on are shown as in the picture below:
 - Click "Cancel";
 - Repeat the VAS5054 HW interface installation following the procedure (*) "VCI Manager v2.0", by entering in the menu "Extras" on the right side and clicking on "Diagnostic interface".

Importer: Dealer: Order:		Vehicle identification no Engine:	× –	? 🖶 🖇	
	Under the construction of	Icome to the d path bucknaw; weeks and the standard the standard and the form all the standard the standard pool of all above the No vechac and the standard the standard the standard and the standard the standard the standard and the standard the standard the standard the standard and the standard the standard the standard the	grout, the web with a destribute and the operative with a destribute of days the connected Before you continue, pit the diagnostic connect the vehicle correctly.	weet namey with the one if you would lead to price connected to ontinue Cancel	Ubits ▲ Up Prov Send Up Prov Send send Up Prov Send send Up Prov Send send Up Prov Send send Up Care Send send

- **B.** If one of the connection errors screens is shown as in the pictures below:
 - it is not possible to establish a connection with the central server. Please check carefully that the diagnosis laptop is properly connected to the internet network and retry clicking "Yes" or "Done/Continue".

Importer: Dealer: Order:	INT Kobs 	Vehicle identification no.: Engine:	ZHWER12D9DLA01041 6.67 V12 MP1/515 KW	🥔 🏪 🏷	
Control units Results Orde	es DISS IRI Testol	Protets Special functions			Nodes #
Checking SVM communica	tion		1	Vat	🕰 Test instrument
Online connection setup				199	Setting
Preparation steps	The foll	owing event has occurred:	×	No	🐶 Diagnosis
	• No or	line connection could be made.			😭 Info
	Should	the connection setup be repeated?			Admin
Preparation steps					
Country variant					Data *
Reading/witing head data					Exfras #
Whiling identification data				1. Function description	Links -
Whiting control module dat	3			2. Function description	nep •
Chine connection setup					Info 🔹
					Trace a
			×		
	K	< > >∣	Help Cancelitest		» 🕅 🕲
				Francisco de Bastant	

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- **C.** If the loss of connection happens during the target/actual comparison.
 - It is not possible to connect to central server, check the working connection of internet and retry by clicking "1".

- **D.** If the incorrect identification message is shown as in the picture below (error code: ODS1007E):
 - 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;
 - be sure the Password inserted is correct;
 - click on Cancel and perform the application test (see document
 "ODIS_Checking_ConnectionServer_SV M_2.0" (*)).

<mark>a</mark> Login		1
User name	DP12DDF	
Password		
CITION	ise from server: authentication: invalid user / password. The error ID is	CBS0004E.
	Apply	Cancel

- **E.** If the infrastructure error message is shown as in the picture below (error code: ODS9212E):
 - 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
 - verify in ODIS settings you have "Internet" instead of "CPN" (see document "ODIS_Initial_Setup_2.0" (*))
 - click on Cancel and perform the application test (see document "ODIS_Checking_ConnectionServer_SVM_2

.0" (*)

If the same errorwas present during the application test, try following procedure:

- quit ODIS;
- Enter the folder C:\Program Files (x86)\Offboard_Diagnostic_Information_Syst em_Service\.automatic_sessions on your diagnosis laptop;
- delete the only file present in that folder.

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- re-Start ODIS Service under following condi-_ tions:
 - 1. Network connection available;
 - 2. ODIS connection set on "Internet";
- Retry the application test and the SVM with your GeKO Token.

In the remote case there was still an error, retry the procedure with a second GeKO token, if available.

File Fair Mean Lidwances Tone F	<u>t</u> elp	
🔇 Back 🔹 🕥 🖂 🎲 💭 Search	Folders	× Ø m.
ddress 🗀 C:\Program Files\Offboard_Dia	gnostic_Information_System_Si	ervice\.automatic_sessions
Name *	Size Type	Date Modified
automatic session 1365604147761	197.KB File	4/10/2013 4:29 PM

- **F.** In the case the flash container is not detected (see figure):
 - _ Make sure to be recently synchronized with Mirrorserver by checking the last date of Sync under:

http://mirrorserver/welcome

or under

http://IP_address/welcome

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

Make sure to be correctly connected with Mirrorserver.

Congratulations

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

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

Configuration	
Base path	/var/www/desert
Provider URL	https://altair.mirrorserver2.net/deployment
Repository URL	https://altair.mirrorserver2.net/storage
Feedback URL	https://altair.mirrorserver2.net/health
Ргоху	http://10.48.187.43:8080/
Key file	/var/www/desert/certs/userkey.pem
Certificate	/var/www/desert/certs/usercert.pem
Tests	
Provider WebDAV access	OK (/deployment/)
Repository WebDAV access	OK (/storage/)
Feedback WebDAV access	OK (/health/)
Successful package downloads	5
Failed package downloads	0
Last Sync	28-07-15 at 22-55-33

OTE:

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

The documents to be mandatory attached to the claim are:

- Job order done;
- Diagnosis Protocol saved. -

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

Your Area Manager is at full disposal for further information.

Best regards

Customer Service