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Subject:

Instrument Cluster software update.

Model/VIN Range

All MY 2015 Lamborghini Huracán vehicles from VIN FLA00163 to VIN FLA02216.

Important: as not all the vehicles on this VIN list are involved, check on the Lamborghini Web portal (VIN Info section) whether the vehicle is involved in this campaign before proceeding with operations.

Information for the field

As a result of continuous product monitoring, Automobili Lamborghini S.p.A. has improved the indications supplied by the Instrument Cluster.

Solution for the field

Update the Instrument Cluster (Kombi) software

Information for warranty claims

See the "Available Campaigns" Warranties section on the Lamborghini Web Portal.

Campaign Code: L624-A.12.15

Campaign Desc.:	Instrument Cluster software update.
Cost Code:	50
P/no.:	CCA0915
Trouble code:	220
Labor Code:	CCA0915100
Labor time:	2 hrs

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

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Sec. on Next representation of the sec.	Sector Se
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Preliminary operations:

1. Turn the steering wheel to access the airbag retaining springs, then apply leverage to unhook them.



2. Disconnect the connector then remove the airbag module.

Position the airbag as shown in the figure.



Static electricity discharges can cause the airbag to deploy.



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3. Straighten the front wheels. **Keep the front** wheels straight throughout the procedure.

Unscrew the retaining bolt and remove the steering wheel. When reinstalling, line up the reference on the steering wheel with the one on the steering column.

Tightening torque: 30 Nm + 90°



4. Unscrew the retaining screw and remove the side cover on the steering column.

Repeat this operation on both sides.

Tightening torque: 2.5 Nm



5. Unscrew the retaining screw, extract the electrical wiring then remove the lower cover of the steering column.



6. Pull the air vent, disconnect the electrical wiring then remove it from the instrument panel.

Perform this operation for the air vents at the sides of the instrument cluster.



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7. Remove the cap and unscrew the retaining screw of the complete instrument cluster.

Tightening torque: 2.5 Nm



8. Lift the fabric cover and unscrew the two retaining screws of the complete instrument cluster.

Tightening torque: 2.5 Nm

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9. Unscrew the retaining screw of the instrument cluster located inside the air vent housing.

Repeat this operation on both sides.

Tightening torque: 2.5 Nm



10. Disconnect the electrical wiring then remove the complete instrument cluster from the vehicle.



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Software update process:



The instructions contained in this bulletin are based on Release 2.2.3 of the ODIS Service diagnostic software and up-to-date diagnostic data version (see BI.01.15).

11. Ensure you have recently synced with Mirrorserver by checking the last synchronization date at:

http://mirrorserver/welcome

Or:

http://IP address/welcome

if you have not previously defined the alias for the mirrorserver IP address.



IMPORTANT

Ensure that the last synchronization was performed after 18 February 2015.

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	21-04-15 at 22-50-07

12. Insert the supplied Micro SD card, P/N 61653000300, in the slot in the back of the instrument cluster (indicated by the arrows in the images), taking care to push the card delicately into the slot until it clicks into place.





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13. Once the Micro SD card has been inserted, reconnect the instrument cluster (it is sufficient to connect the power supply connector A3)



14. Connect a battery charger to the charging points in the luggage compartment, as shown in the figure.



15. Connect the VAS5054 interface to the OBD port on the vehicle and to the laptop being used for vehicle diagnostics.

Turn the key to ON.



16. Start ODIS Service by double clicking on the icon on the desktop of the diagnostic laptop.



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17. Slide the vertical scroll bar on the right to the bottom.

Click "OK" to hide the general information window.



18. Select "Start diagnosis".



Ensure that ODIS detects the connection to the vehicle and that the key is ON.

Click "Cancel" to any prompt to login to group systems.

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ler:		Engine:	🥔 🌆 🏷 🛛 🗸 🎊 /
8	- 1000		
			Operating modes
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		elcome to the diagnostic progra	all I 🎽 Sel-clagnosis
	Objection: Commelsone	- discussion functionally. After one force composited the valida and a	trated the discussion the
	vehicle will be identified	id the fault memories will be evaluated. Then the "Guided Fault Find-	ing" and "Guided Functions"
	functions will be available	for diagnosis. If you would like to work without a warranty order, you	i can also use sell-diagnosis.
			🖉 Information
		Audi	😡 Admin
			1
			Protocol
		SEAT	Data
	Connected to th	vchicle	Extras
	b Ignition switcher		2
	Start diagnosis		Help
		Vahiclos	
			N 1947

19. Check the vehicle identification in the "Basic vehicle characteristics" window.

Deselect the "Using guided fault finding" checkbox. Click on "Adopt".



20. Click "Yes".



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21. Skip the Login window by clicking on "Cancel".

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						Data	3
						Extras	
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22. Once you have completed the startup operations (see status in the progress bar at the bottom right), select the "Special functions" section which will now be available.



23. Select "SVM – Direct input: SVM code for prob**lem related update**" by clicking it with the mouse.

Click on "Perform test..." to run the SVM function.

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nporter: ealer: ob:	INT 10088 	Vehicle Identification no.: Engine:	ZHWEC1ZFXFLA00339 5.2I V10 FSI / 449 KW	🥔 🏪 🏷		
cottel wats	Repute Jobs (1185 (19) (1	estatan Process Special function			Operating modes	
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	SVM - Activations				S Admin	
-	SVM Direct input:	SVM code for problem related update	—		Protocol	
-	SVM - Specifiedrad	lual comparison			Data	
	Manual updates			1	Crona.	
	parameter setting (t	veta version)			Extras	
<i>au</i>	101 0810 88 omblemb	ezonenes Undeter@00088		1	Help	
				-		
erform tes	st Show documents				₩ 🕅	1

24. Enter the updating campaign code in the top box with the cursor: L624A1215

Click on "Adopt".



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25. Click "Yes" to confirm that the code entered is correct.



26. Click on "Done/Continue" to start data acquisition from the vehicle control modules.



IMPORTANT

Always leave a battery charger connected during the SVM operation.



27. Wait for the data acquisition from all control modules to be completed.



28. To perform authentication on the SVM system, you will need a valid GeKO account.

Make sure the diagnostics laptop is correctly connected to the Internet.

Firstly click on "Done/Continue" to start the login procedure.

Enter your Geko username in the "User name" field and the following PIN: 1324 + the 6-digit code currently displayed on the Geko token in the "Password" field.

Click "Adopt" to confirm.



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- **29.** When communication with the server is complete, the following result will be displayed:
 - It is possible that update programming must be performed on **one** control module.

Click "Done/Continue".

Importer: II Dealer: II Job: -	NT Vehic 0088 Engin	le (dentification no.: re:	ZHWEC1ZF2FLA00075 5.2/V10 FSI / 449 KW	a 🔓 🏷		
Control units Results John Problem related hardware Result	DISS TPT Transin Proces	Statis Archine		► DoneContinue	Operating modes	
- Notification code evolution Notification code evolution	Result: Software to be up - It is possible that module - Press the <done a test</done 	adated has been detec update programming mu >> button to display the or	ted. Ist be parformed on one control pattod module that requires a change or		First restriction Tosthistument information	xite:
End motules Action evolution				Function description	Protocol Data	¥
Anton evaluation Propulsion stops Résult *1 T, 1		>	Help Cance lest		Extras Help	•

30. Instrument Cluster Software Update

The figure below refers to the part number and software version for the Kombi control module.

4T0920900B; 0159

Click "Yes" to check for the availability of the updated control unit software (present on the micro SD card)



31. Check the data of the new Instrument Cluster control module software to be updated and click "Yes" to proceed with the update.





IMPORTANT

Do not disconnect the interface from the OBD socket, and do not turn the key to OFF during the update!

During the software update, ODIS must be the only application running on the diagnostic tester.

32. Do not follow the instructions given by the tester, but instead press "**Cancel test**" to exit the SVM.



Leave the ODIS tester connected, which will return to its initial page, then follow the instructions on the Instrument Cluster.

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i _{NOTE}

- At this point, the Kombi will turn off and search for the software on the micro SD card. With the micro SD card inserted, the screen will remain off completely for several minutes until the update screen appears with a yellow progress bar.



33. Wait for completion of the update, indicated by the yellow progress bar below the display as shown in the first image, until it disappears completely and the Instrument Cluster turns back on, as indicated in the second image.



- 34. Repeat steps 22 to 28 to run the SVM program again with campaign code L624A1215.
- **35.** When communication with the server is complete, the following result will be displayed:

A coding that needs to be changed has been detected.

Click "Done/Continue".

Importer: Dealer: Job:	INT 10088 	Vehide identification no.: Engine:	ZHWEC12F2FLA00075 5/21/10 FSI / 449 KW	🛹 🏪 🏷)
Constants Results In	br DISS TPI Test p	to Process Special functions			Operating modes	-
Problem related hardwa	re and software update	**************************************		▶ Done/Continue	😵 Diognosis	
Result					A Stitution	
Notification code evalua	Result	t,	í l		Electroprogram	anto;
2/	A cod	ing that needs to be changed has b	een detected.		(Testinstument	
Lint mythes	- You n	You may have to code a control module.				
Action evaluation	- Press	s the <done> button to display the cont</done>	rcl module that may need coding		$\{\tilde{g}_{2}^{ij}\} \in [n]^{i_{1}}$	
Adan eedasiin					Protocol	
Preparation stops				Function description		
Presissijoment				instructions for settings	Data	
Coding Installation list					Extras	3
Reșult	3				Help	
¥[
			Help Cance test		>>	3

36. The new coding has been calculated for the control module 17 – Instrument Cluster, and this needs to be written to the control module.

Click on "Yes"



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37. Upon completion of the coding, confirmation will be displayed as shown in the figure below.

Click "Done/Continue".

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cated units Results Jobs DISS	atta anstatan	Process Special Americans				Operating modes	*
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Osciauna possible codior	The codin	g has been performed successfu	dy.			Carl Heroson	00000
Readles not codies	The contro 01E8205	ol module 17 - Instrument cluste 4838100F0010000	er was coded with the following value:			Testinstument	-
Selection	- Press <	Done> to continue the program.				😭 Information	
Logn coatestion						Q Same	
Recolculating coding						Protocol	*
Coding control modules				Fun	dion description		
Vehicle type				Instru	ctions for settings	Deta	¥
Coding control module 2						Extras	¥
Result1						Нер	×
(<u> </u>				-			
		$ \langle \rangle \rangle$	Help Gancel test	t.		>>	0

38. In the following steps, a key OFF-ON cycle is performed to restart the control module.

Click "Done/Continue" to continue.



39. Turn the key to OFF.

Click on "Done/Continue".

Cffboerd Diagnostic	Information System Service - 222				- C -
Importer: Dealer: Job:	INT 10088 	Vehicle identification no.: Englne:	ZHWEC1ZFXFLA00339 5.2I V10 FSI / 449 KW	🧢 🖫 🗙	
Control units Res	auts Jobs DISS TPI Tes	t plan Process Special functions			Ph New
Replace control Terminal 15	unit and coupling unit			Done/Continue	P Add
Detaching flash	data container All s	suggested update programming operatio essary to switch the ignition off and on.	ns have been processed. It is		Display
Erasing DTC me	emory - Sw	itch ignition off.			Added in cycles
Checking flash d	tata container	ess <done> button after ignition has bee</done>	en switched off.		Cyclic stop
2 - Update progr	amming - 22	Caution!			Dete
Special cases	- Sil This	ntch ignition off and back on alter appro s activates the software in the control mo	x. 1 second. Idule on which update programming	Exection description	Data
Terminal 15 sele	ras	been penarmea.		Function description	Extras ¥
Displaying possi	ble update program			Instructions for settings	Help *
Terminal 15 sele	ection				Information ¥
Terminal 15	1				Trace ¥
			Help Cancel test		≫ ⊠ ⊙

40. Turn the key to ON.

Click "Done/Continue".



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41. A calibration requiring changing has been detected.

Click "Done/Continue".

Importer: Dealer: Job:	INT 10085	Vehicle identification no.: Engine:	ZHWEC1ZFXFLA00339 5.2I V10 FSI / 449 KW	an 🖣 💀		
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Problem related have Result	ware and software updat			Done/Continue	Disgnoss	
Parameter setting Readout of possible L'eminal 15 selection Termicel 15	Resul	E bration requiring changing was det nay have to perform a calibration on or s the <done></done> button to display the cor	ected! ne control module. trol module requiring a calibration.		Content of the second of the s	ni0 <u>c</u>
END Find modules				Function cescription	Protocol	*
Action evaluation Preparation stepa				n si ocuo si o seurgis	Extras	¥
			Help Cancelhast		Help	0

42. You must now wait a few seconds to allow all the calibration data to be loaded.

Click "Done/Continue".

Importer: Dealer: Job:	INT 10083	Vehicle klentification no.: Engine:	ZHWEC1ZFXFLA00339 5.21V10 FSI/449 KW	🥔 🍢 🏷		
Servers and servers	ult Jobs DISS 10 de	stream Provens Special Intellines			Operating modes	9
Problem related i	hardware and software up	edate		Done/Continue	Disgnose	
Result					(🍎 Self-disgnovis	
2	Be	fore the control module for which a calibrati	on is required can be displayed, the		Cash in propriet	selm.
÷	US THE	ia required for calibrating are inscribeded.			A Testissument	
	-P	tess <done> to continue the crocram</done>			🗑 Information	
a en alcar la sere					(giranic	
CONTRACTS	li -					
1215.2				Function description	Protocol	0
End modules				Instructions for settings	Data	- 3
Auton eviluator					Extrac	- 3
Pregaration shep	N					
Result	1				Help	9

43. Proceed with the calibration of control module 17 – Instrument Cluster

Click on "Done/Continue" to proceed with the calibration of all parameters.

A total of **46** parameters must be calibrated.

If the update of a calibration parameter is interrupted or does not complete successfully:

• Turn the key to OFF

• Wait 1 minute and then switch the key back ON If the program gives you the option, click on "Repeat" to repeat the update; otherwise, resume the procedure from point 43

× Officiard Dispectifi (into mattern System Service - 223		And a state of the	16	101	J i
Importer: Desier: Job:	INT 10088 —	Vehicle identification no.: Engine:	ZHWEC12F2FLA000/5 5.21 V10 FS1/449 KW	a 🖣 🖓		
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	The	e calibration on this control module 17 - In	strument cluster was successful.		Fighted (a)	ding.
	Na	mber of calibrations 1			Contestinistrument	
n legal and a legal	Va	lue: 64			😫 Information	
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				Instructions for settings	Data	ं
Adaptation 2	CONTACTORIOS				Extras	3
Sel reston same	eeta - 1				Help	
e]	1					
	K	< > >	Help Canceltest		*	0

44. Click on "Done/Continue" at the end of the SVM operation.



45. You must complete the SVM operation by acquiring data from all control modules.

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Click "Done/Continue".

Importer: Dealer: Job:	INT 10088	Vehicle identification no.: Engine:	ZHWEC1ZEXELA0039 5.2LV10 FSL/449 KW	🥔 🦣 🏷	
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Parameter sette		I Note			62 Adrea in codes
Readout of price	No unit and coupling unit actual tables The following feedback is surf to the Software Version Management (SV document d'arrays in the white):	fler the automatic leedback report, lanecement (SVIA) must be		G October	
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Femiral 15	A.	fanagement (SVM) Replacement of a control module			Data
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46. Wait for the data to be acquired from the control modules.

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47. After the report has been sent to the systems, the message shown in the image below is displayed. The software update of the Kombi control module has been completed correctly, and all information has been saved.

Click on "Done/Continue"



48. Turn the key to OFF and remove the Instrument Cluster from the vehicle.



49. Carefully <u>remove</u> the micro SD card from the slot in the instrument cluster and retain it for future use.

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Final operations:

- **50.** Install the instrument cluster in the vehicle and perform the first ten points of this procedure (removal) in reverse order.
- **51.** Once you have restored the vehicle to its original condition, return with ODIS to the "Special functions" section to select the "Erase fault memory overall system" program with the mouse: you must delete all faults stored due to the software update which has just been performed.



52. Run the "Erase fault memory – overall system" program by clicking on "Perform test…".

porter:	INT	Vehicle identification no.:	ZHWEC1ZFXFLA00339		LAMECOGIN	
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-	SVM - Specified/ac	tual comparison			Data	
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form test	how documents				>> 🔯	6

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53. Any static faults due to problems not related to the software update which has just been performed will not be deleted.



54. Check the date and time display on the left-hand side of the Instrument Cluster and adjust it using the center console keys if it is not correct.

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Diagnostic protocol save procedure:

1. When you have completed the preceding operations, expand the "Protocol" menu on the right.



2. Click the "Save" button in the "General" group of buttons.

Select the following in the diagnostic protocol type (GFF) selection window:

_ Long protocol.

Click on the corresponding button, then on "OK".



3. Select the path on your diagnostic laptop where you wish to save the diagnostic protocol.

(the default path is inside the Admin section in the ODIS Service installation folder)

The format of the diagnostic protocol is a hypertext (html) file: ".htm".

Click on "Save" to save the protocol.



Click on the "Print" button in the "Diagnostic Protocol" group of buttons to print the protocol directly to a .pdf file (if Adobe pdf is available), or else to a network printer if you require a hardcopy.

Importer: Dealer: Job:	INT 10088 	Vehicle identification no Engine:		ZHWEO1ZFX 5/2I V10 FSI /	FLA00339 449 KW	a 🗗 🔊		
Control units Ro	outs Jobs DISS TP) Testp	ian Process Special function	15				Operating modes	*
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4. The protocol must be attached to the corresponding warranty request.

(to enter the request on the web portal, refer to the W.Claim manual which you can consult in the Warranty section of the portal).

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Troubleshooting:

- **A.** If the Hardware interface error is displayed and the 2 vehicle connection and key status icons are displayed as in the figure below:
 - Click "Cancel"
 - Repeat installation of the interface VAS5054 per the instructions in the document (*) "VCI Manager rev2.0", selecting the right-hand "Extras" menu in ODIS and clicking on the "Diagnostic interface" button.



B. If one of the following connection errors is displayed like in the following example screenshots:

- It is not possible to connect to the central server; check that your laptop is correctly connected to the Internet and retry by clicking on "Yes" or "Done/Continue", as appropriate.



- **C.** If the connection is dropped during the course of the target/actual comparison (during an SVM)
 - It is not possible to connect to the central server; check that your laptop is correctly connected to the Internet and retry by clicking on "1".

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- **D.** If the authentication error as shown in the following screenshot is displayed (error code: ODS1007E):
 - Ensure you have a valid GeKO user account
 - Ensure that the "Geko" label is printed on the token you are using
 - Ensure you have entered the correct password
 - Click on "Cancel" and run the application test (see document "Controllo_connessioni_SVM_ver2.0"^(*)).



- **E.** If the infrastructure error as shown in the following screenshot is displayed (error code: ODS9212E):
 - Ensure you have a valid GeKO user account

- Ensure that the "Geko" label is printed on the token you are using
- Check that the Internet is set in ODIS settings and not CPN (see document "Setup_Iniziale_ODIS_2.0" (*))
- Click on "Cancel" and run the application test (see document "Controllo_connessioni_SVM_ver2.0" (*))



If the same error type should reoccur during the application test, try the following procedure:

- Exit ODIS
- Browse to the folder C:\Program Files (x86)\Offboard_Diagnostic_Information_Syst em_Service\.automatic_sessions on your diagnostic laptop

ganize 🕶 📋 Open Burn New folder					3E •	. 11
J Microsoft Visual Studio 8	*	🕅 Name *	Date modified	Туре	s	ze
Microsoft.NET		automatic_session_1422452164944	28/01/2015 14:36	File		86
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- Delete the only file which will be in the folder
- Restart ODIS Service, ensuring that:

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- 1. You have a network connection
- 2. The ODIS connection is set to Internet
- Run the connection test again, and perform the SVM again with your GeKO Token.



If the error should occur again, repeat the procedure and also try with a second GeKO token, if available.

F. If the flash container is not found (see figure):



- Ensure you have recently synced with Mirrorserver by checking the last synchronization date at:

http://mirrorserver/welcome

Or

http://IP address/welcome

if you have not previously defined the alias for the mirrorserver IP address.

- Ensure you are correctly connected to the mirrorserver.

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

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

Configuration	
Base path	/var/www/desert
Provider URL	https://altair.mirrorserver2.net/deployment
Repository URL	https://altair.mirrorserver2.net/storage
Feedback URL	https://altair.mirrorserver2.net/health
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	21-04-15 at 22-50-07



^(*)ODIS technical documentation is available on the Lamborghini Web Portal, section: After Sales, Customer Service \rightarrow subsection: ODIS



IMPORTANT:

The documents which must be provided with the warranty request are:

- Produced Repair Order
- Saved Diagnostic Protocol

Failure to follow these procedures could lead to the request being rejected.

Please contact your Area Manager for any further information.

Yours sincerely,

Customer Service

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