

L624-A.01.16	To: Subject: Date: Pages	Official After Sales Network AC system SW update March 18,2016 20	
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Subject.

Air Conditioning Software Update.

Model.

Huracan Coupè.

Model year.

2015.

Special or Limited Versions.

All vehicle versions.

Markets.

All

VIN identification.

From FLA00163 al VIN FLA03652.

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 software release to enhance the air conditioning functionality.

Field solution.

Update software that manage air conditioning/Klima.

Spare parts.

P/N	Description	Q
-	-	-

Replaced parts management.

Store properly and tagged the parts replaced with bar code form for their identification during Area Manager visits.

Bulletin substitution.

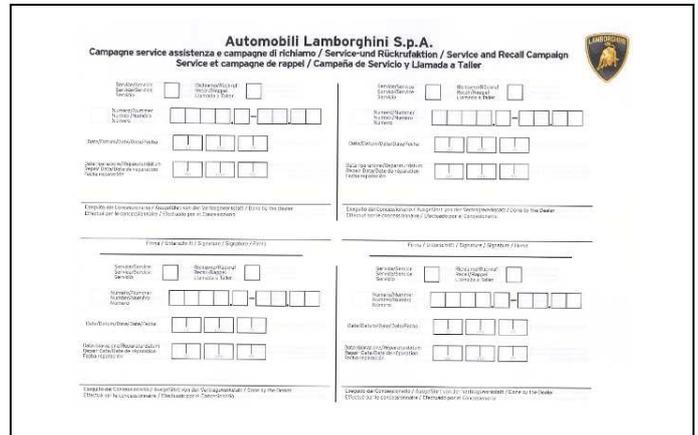
None.

Warranty Claim data.

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

Campaign Code: L624-A.01.16
Campaign Des.: AC system SW update
Cost code: 50
Component code: CCA0116
Trouble code: 220
Labor code: CC0116100
Labor Time: 0,8 h

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



Necessary tools/material.

P/N	Description	Q
-	ODIS Service diagnosis software updated to release 3.0.1 (or following).	-

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Workshop instructions



The instructions contained in this bulletin are based on ODIS Service diagnosis software updated to release 3.0.1 (or following) and Lamborghini database 2.5.3 (see BI.07.15)

Preliminary operations:

1. Make sure to be synchronized with Mirrorserver checking the "Last Sync" date:

<http://mirrorserver/maintenance/diagnosis.py>

or:

http://IP_address/maintenance/diagnosis.py

if you did not set up the mirrorserver IP alias.



IMPORTANT

Make sure the latest synchronization was done after February 14th, 2016.

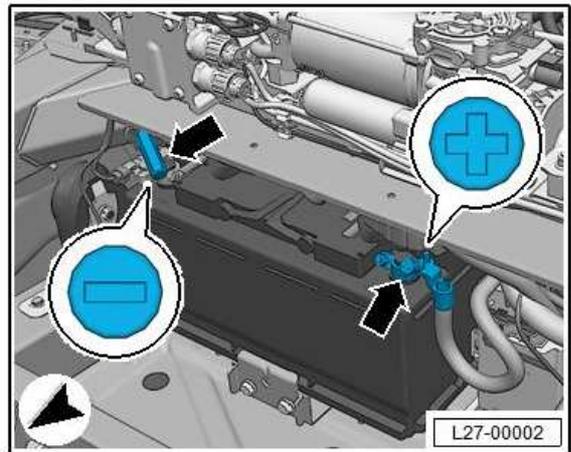
MS/2 Diagnosis

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	10.48.187.43
Key file	/var/www/desert/certs/userkey.pem
Certificate	/var/www/desert/certs/usercert.pem
Tests	
Local file/directory permissions	OK
Disk space	OK
Provider reachable	OK (altair.mirrorserver2.net)
Repository reachable	OK (altair.mirrorserver2.net)
Feedback reachable	OK (altair.mirrorserver2.net)
Provider WebDAV access	OK (https://altair.mirrorserver2.net/deployment)
Repository WebDAV access	OK (https://altair.mirrorserver2.net/storage)
Feedback WebDAV access	OK (https://altair.mirrorserver2.net/health)
Successful package downloads	8
Failed package downloads	0
Last Sync	16/02/14 22:01:01
<input type="button" value="Start tests"/>	

Click "Start tests" to verify the "Last Sync" date.

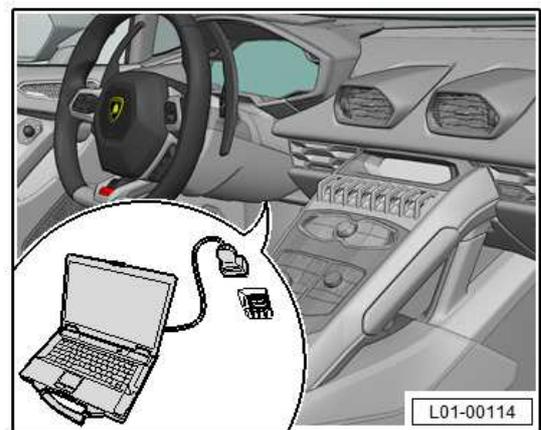
Update procedure:

2. Please connect a battery charger to the recharge points available in the front luggage compartment, as shown in the picture.



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

Turn the ignition ON.



4. Start ODIS service double-clicking the related icon on your diagnosis laptop desktop.



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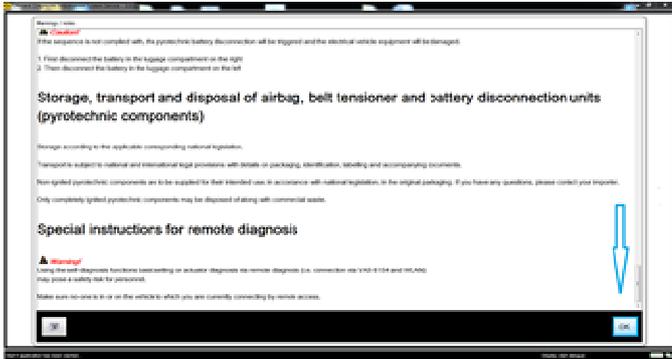
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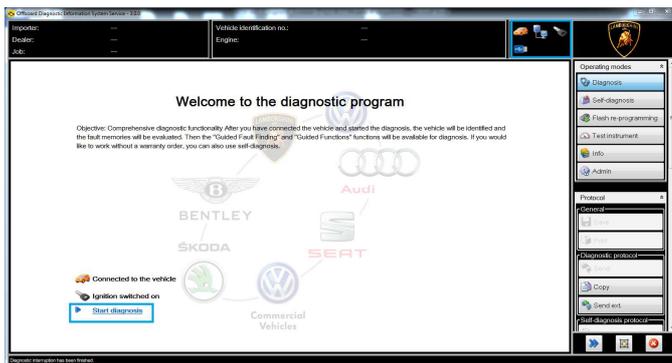
5. Scroll down the vertical bar on the right.
Click “OK” to hide the general information window.



6. Click “Start diagnosis”.



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



7. Click “Cancel” for any group systems login request.

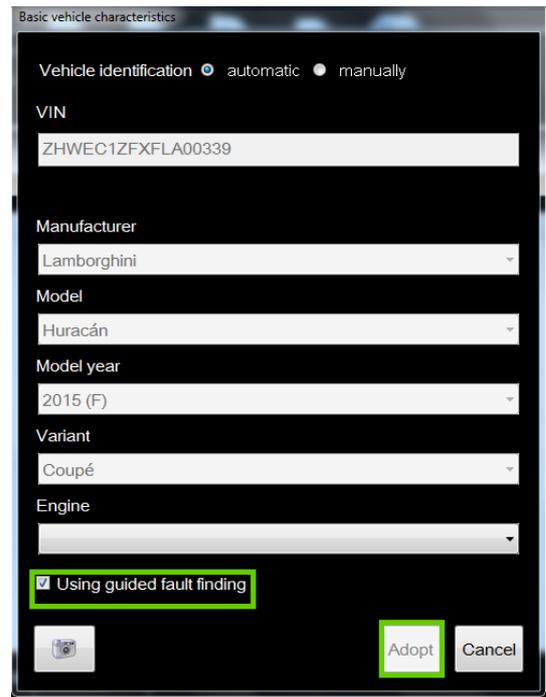


8. Verify the vehicle identification in the “Basic vehicle characteristics” window.

Insert Variant and Engine if not already present choosing from the drop-down menus.

Leave the checkbox “Using guided fault finding” selected.

Click “Adopt”.



9. Skip the login window clicking “Cancel”.



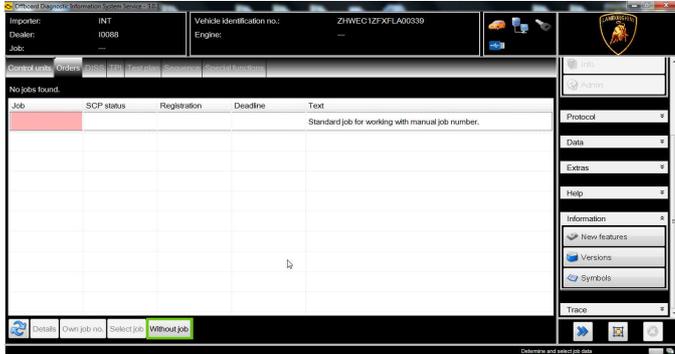
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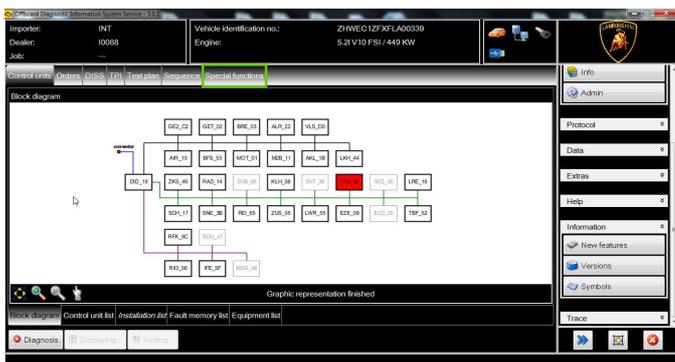
10. In the following window, click “Without job”.



11. Answer “No” to the “actual comparison” request.

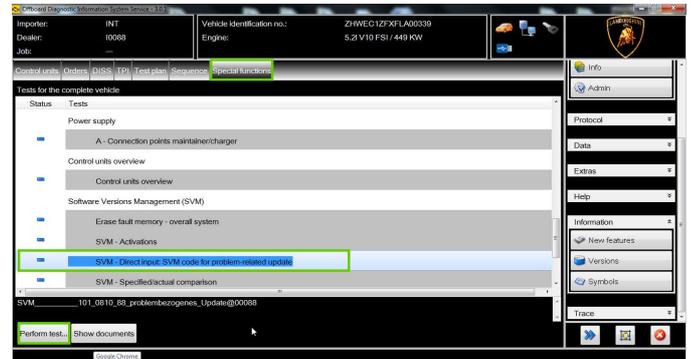


12. At the end of initial operations (see bottom-right status bar), select “Special functions”.



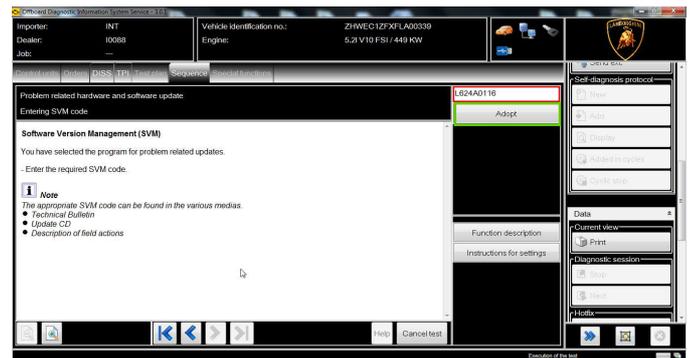
13. Select “SVM – Direct input: SVM code for problem related update” clicking the related row.

Click “Perform test...” to execute the SVM function.

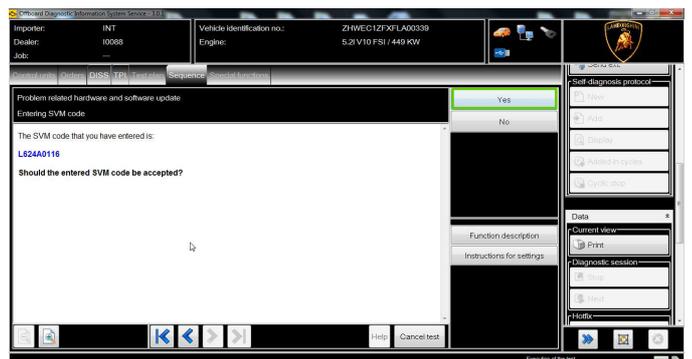


14. Insert the code **L624A0116** in the upper box.

Click “Adopt”.



15. Click “Yes” to confirm that the inserted code is correct.



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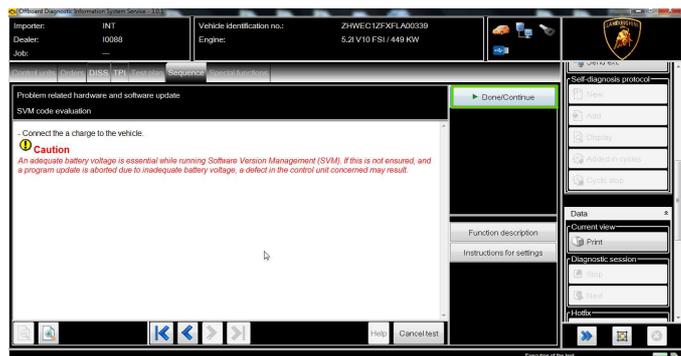


16. Click “Done/Continue” to start the data acquisition from all ECUs.

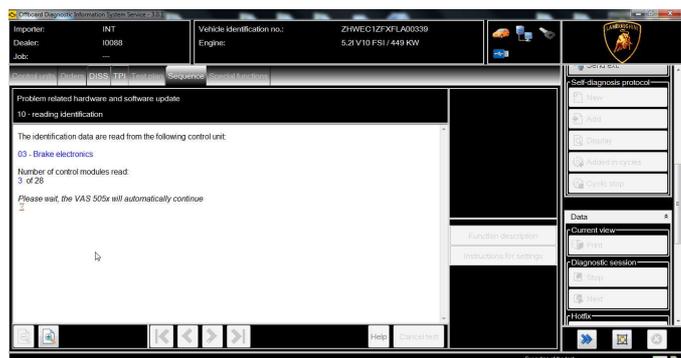


IMPORTANT

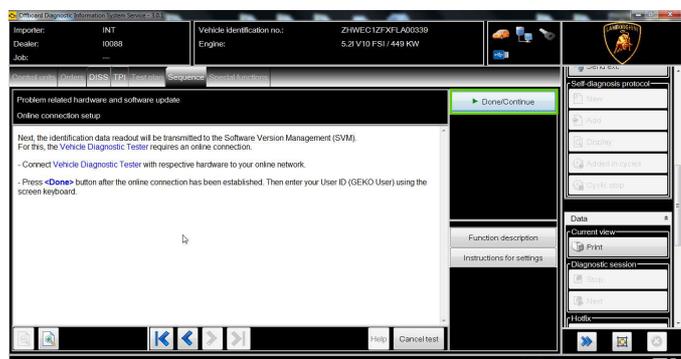
During the SVM operation a battery charger must be connected.



17. Wait until the data acquisition from all ECUs is completed.



18. Click “Done/Continue”



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

Be sure that the internet connection is correctly established.

Insert your GeKo user name in the field “User name” and the pin 1324 + current 6 digit code displayed on your GeKo token in the field “Password”.

Then confirm clicking “Adopt”.



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

The following message is displayed:

“software to be updated has been detected (on one control unit).”

Click “Done/Continue”



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21. AC System software update.

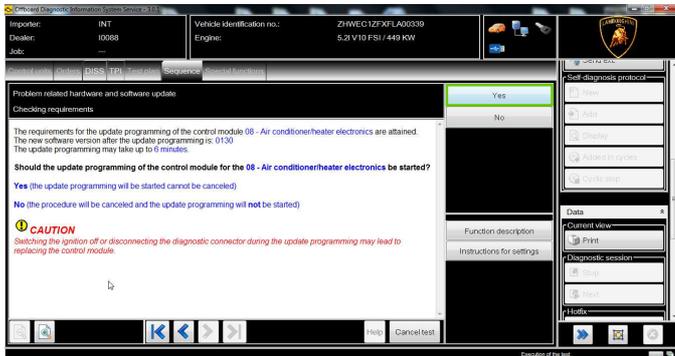
The figure below refers to the software version and the part number of the air conditioning control unit of the vehicle used as example.

Those data may change depending on the car.

Click “Yes” to check the availability of the software on the Mirrorserver.



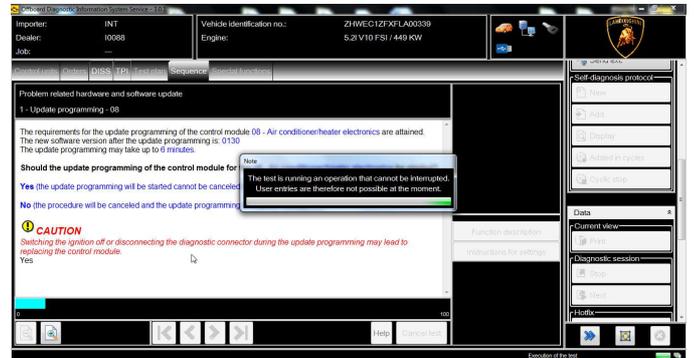
22. Verify the new AC system software and click “Yes” to start the update.



IMPORTANT

Do not disconnect the hardware interface from OBD plug and do not switch ignition OFF during the software update!

23. Wait until the update programming of the air conditioning system ECU is completed.

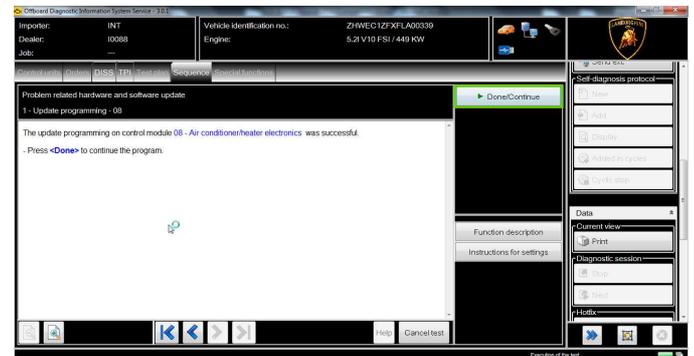


24. Once the update programming has been completed successfully a message is displayed.

- Click “Done/Continue”.

If the update programming has not been completed or has been unsuccessful:

- Turn the ignition OFF;
- Wait at least one minute and turn the ignition ON again;
- Click “Repeat” to restart the update procedure if it is directly requested by the program; otherwise repeat the procedure from step 12.



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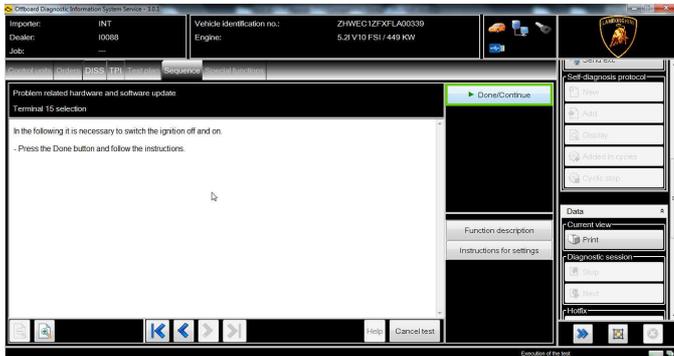
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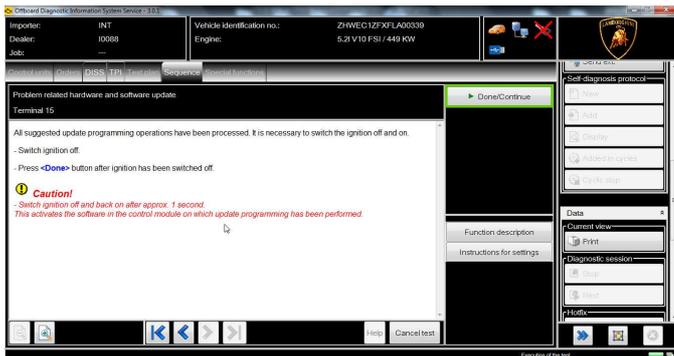
25. An ignition OFF-ON cycle is necessary to restart the ECU.

Click "Done/Continue".



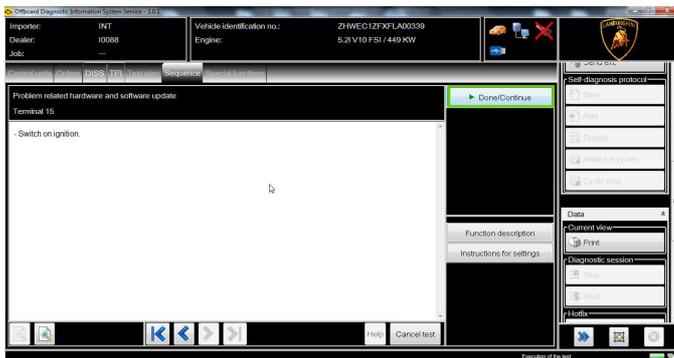
26. Switch the ignition OFF.

Click "Done/Continue".



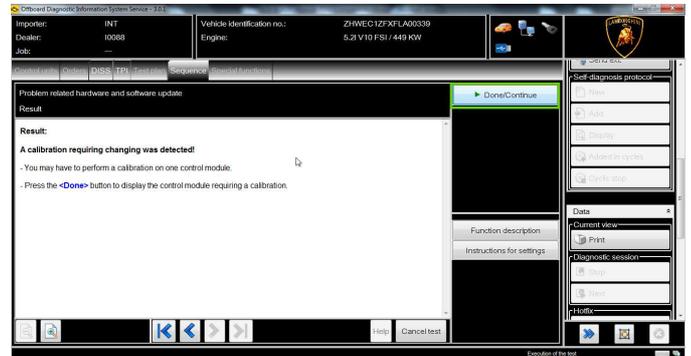
27. Switch the ignition ON.

Click "Done/Continue".



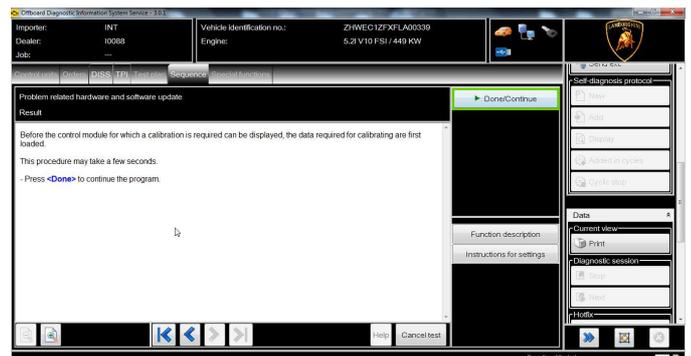
28. It is necessary to perform a calibration.

Click "Done/Continue".



29. Wait until the calibration data download is complete.

Click "Done/Continue".



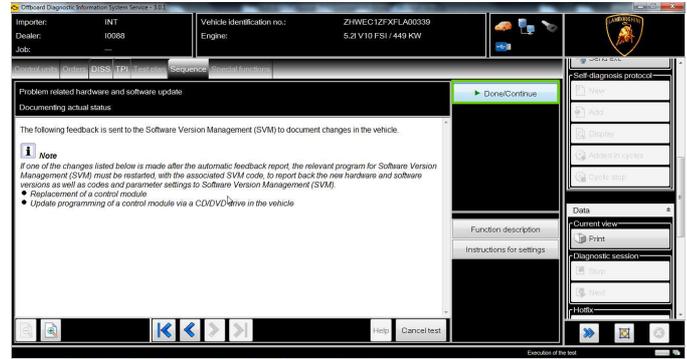
30. Complete ECU 08 – Air Conditioner/Klima calibration:

Click “Done/Continue”.

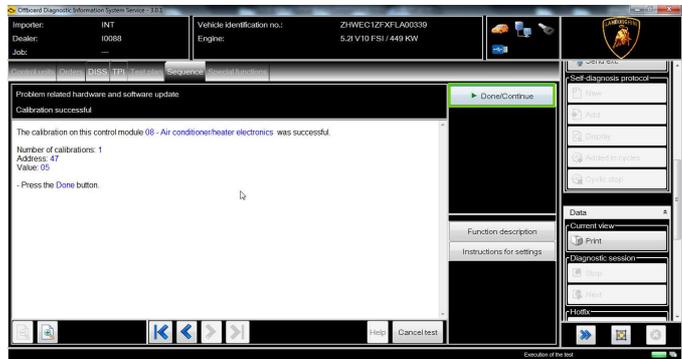
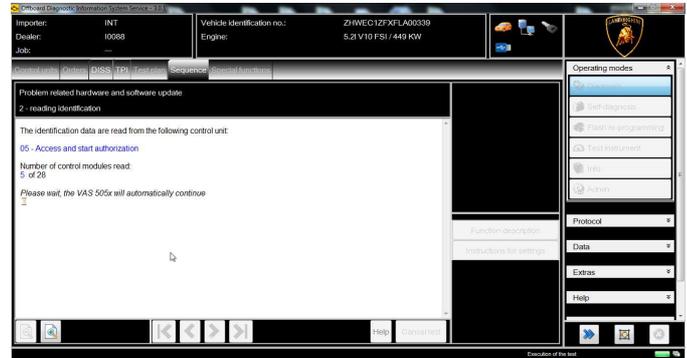
If the calibration update has not been completed or has been unsuccessful:

- Turn the ignition OFF
- Wait at least one minute before turning the ignition ON again

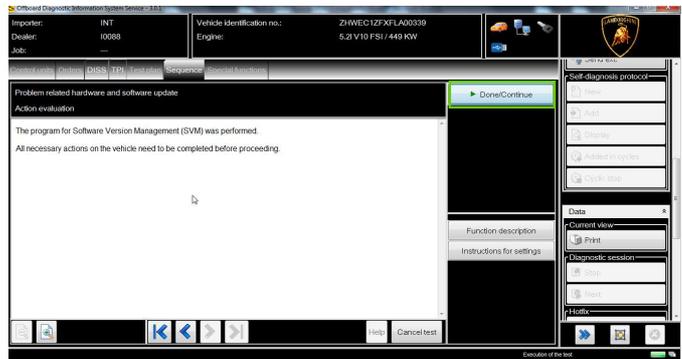
Click “Repeat” to restart the update procedure if it is directly requested by the program; otherwise repeat the calibration from step 28.



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



31. Click “Done/Continue” to complete the SVM.



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

Click “Done/Continue”.

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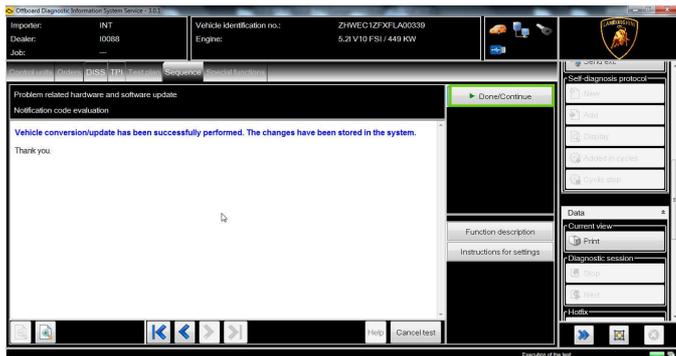
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34. Once the data report has been sent a feedback is displayed as shown in the picture below.

The software update of air conditioning ECU has been completed successfully and all data have been stored in the system.

Click "Done/Continue".



35. Click "Done/Continue".



36. Once the update is finished and the SVM program is completed the vehicle has to go in sleep mode.

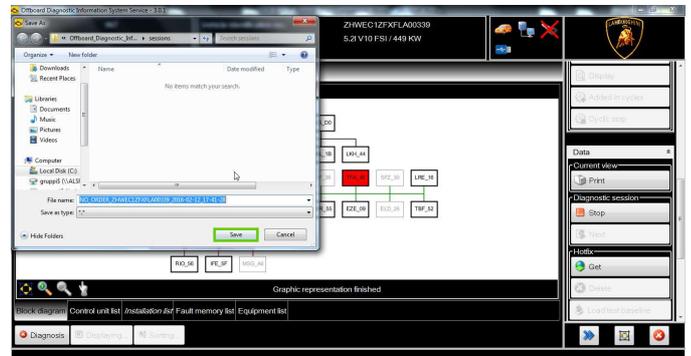
37. First of all please save the current diagnosis session.

Click "Stop" in the "Data" menu.

Click "Save" in the next dialogue box.



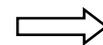
38. Select the path to save the session and click "Save".



39. Activate the electronic parking brake (EPB) on the car, turning on the EPB warning light on the instrument cluster.



Europe/RoW



or

USA

PARK

Turn the ignition OFF.

Remove the diagnosis interface.

Close the doors.

Wait at least five minutes, until the instrument cluster and in particular the EPB warning light turn off.

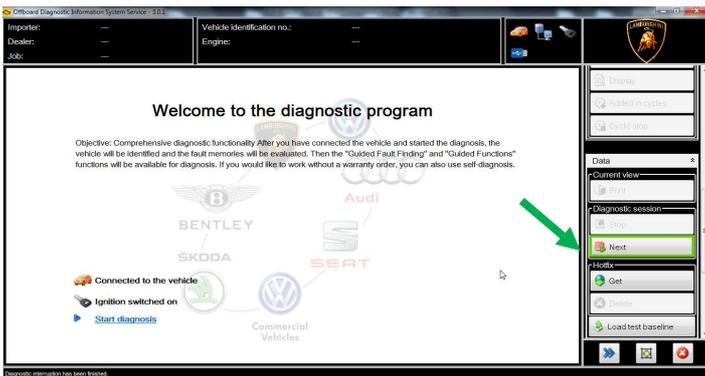
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40. Reconnect the diagnosis interface and turn the ignition ON.

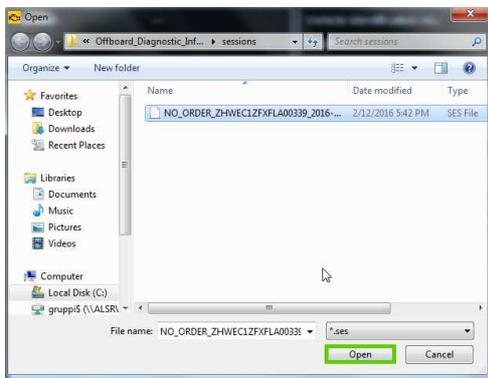


IMPORTANT

In ODIS initial screen DO NOT click “Start diagnosis”, but CLICK “Next” in the “Data” menu.

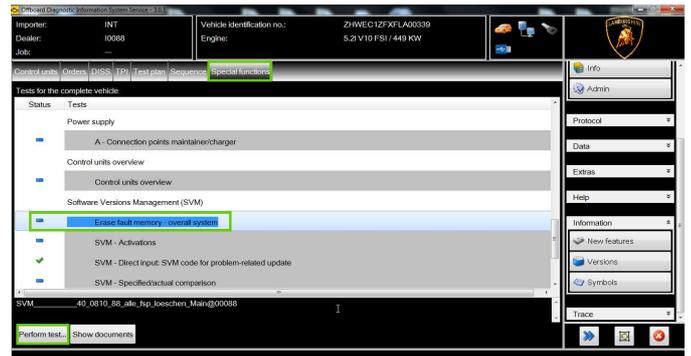


41. Select the diagnostic session previously saved and click “Open”.

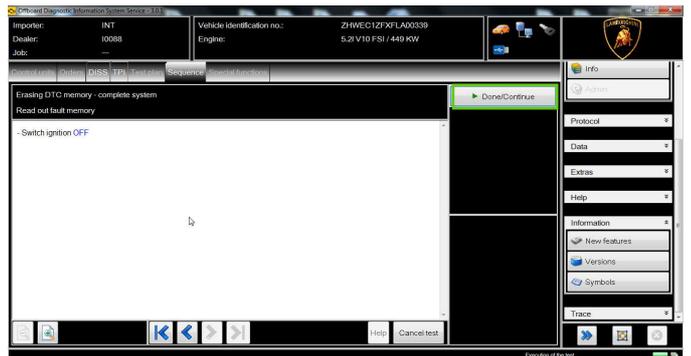


42. Select again the “Special functions” tab and click “Erase fault memory – overall system”: this is necessary to delete all errors created during the software update procedure.

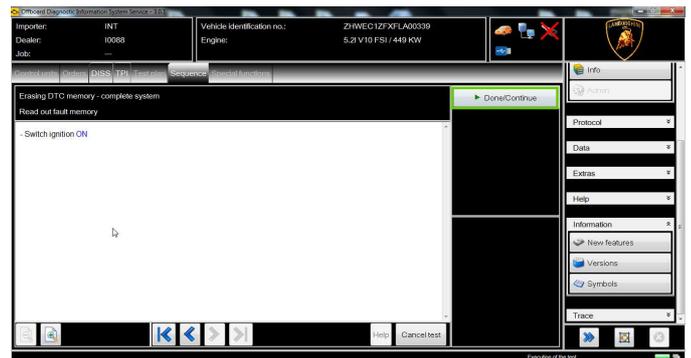
Click “Perform test...”.



43. Switch the ignition OFF and click “Done/Continue”.



44. Switch the ignition ON and click “Done/Continue”.



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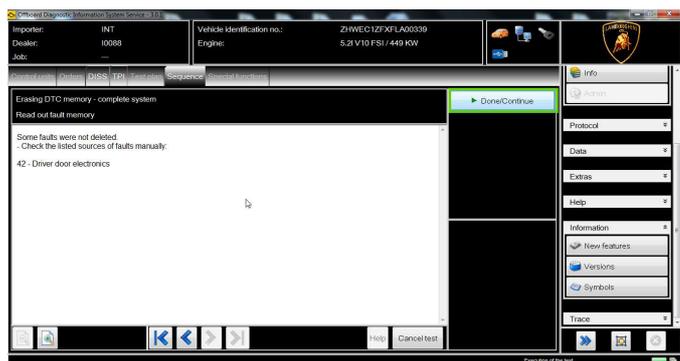
45. There might be static errors which cannot be deleted.



IMPORTANT

To remove this type of errors from the AC ECU, the related “Basic Settings” have to be performed.

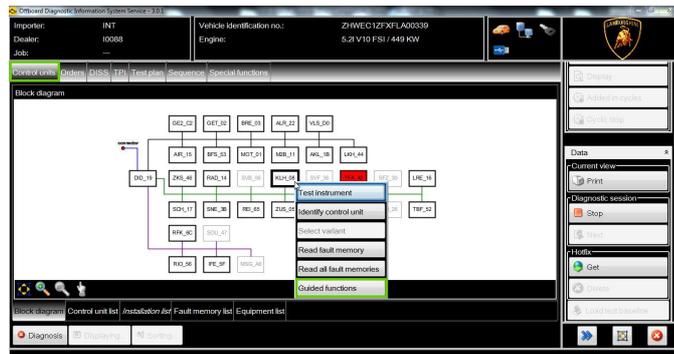
Click “Done/Continue”.



Basic Settings for ECU 08 – AC system

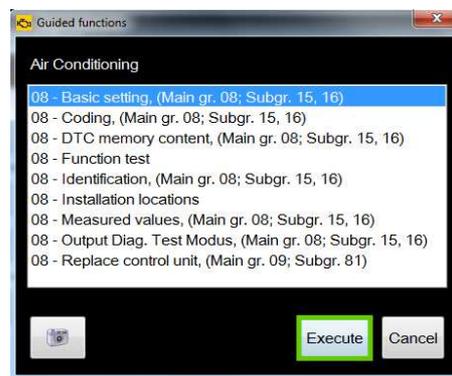
46. Select KLH-08 ECU and right-click on it.

Click “Guided Functions” in the drop-down menu.

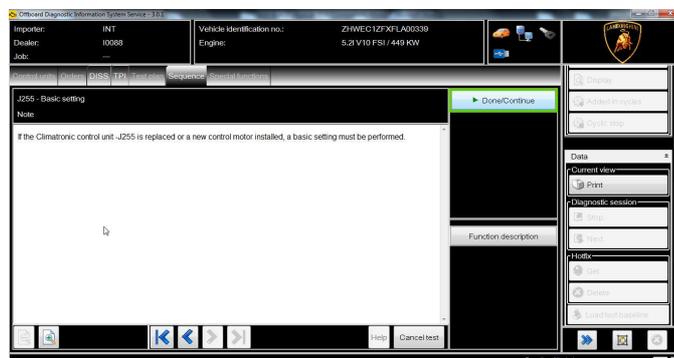


47. Select 08 – Basic setting to execute the Air Conditioning basic settings.

Click “Execute”.



48. Click “Done/Continue”.



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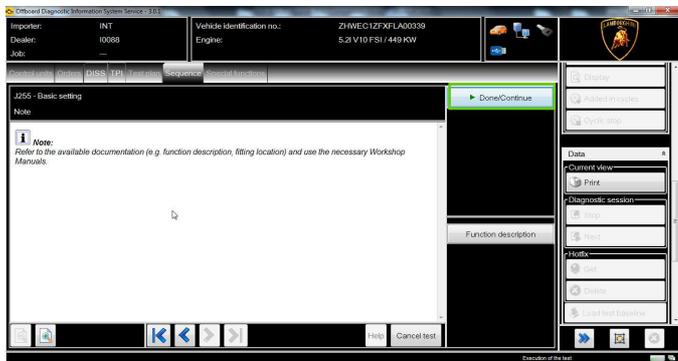
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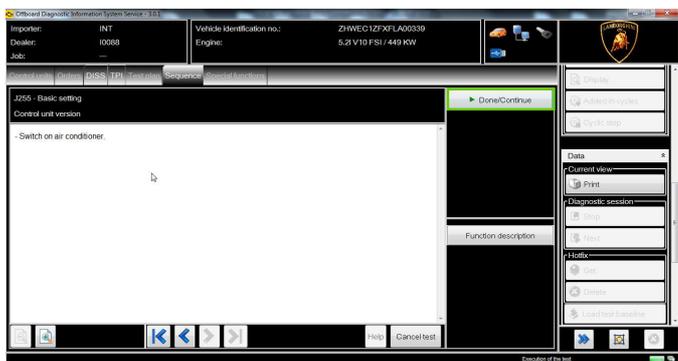


49. Click “Done/Continue”.

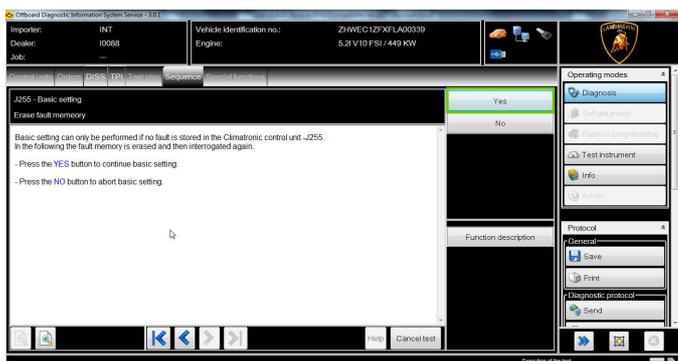


50. Make sure the AC system is active.

Click “Done/Continue”.



51. Click “Yes”.



52. If there are static errors stored in the ECU memory when requested to quit the Basic Settings, answer “No”.

If there are no errors in the memory of AC ECU, the tester moves directly to the next step.



53. Execute the AC basic setting in the following order:

- **Basic setting 4** to perform the servomotors auto-addressing.
- **Basic setting 1** to perform the servomotors flaps position self-learning.
- **Basic setting 3** to perform the A/C compressor performance test.



Click “Function description” for basic settings information and measured values meaning.

During the “Basic Settings” operations the AC led on the panel flashes.

Click “Basic setting 4”.

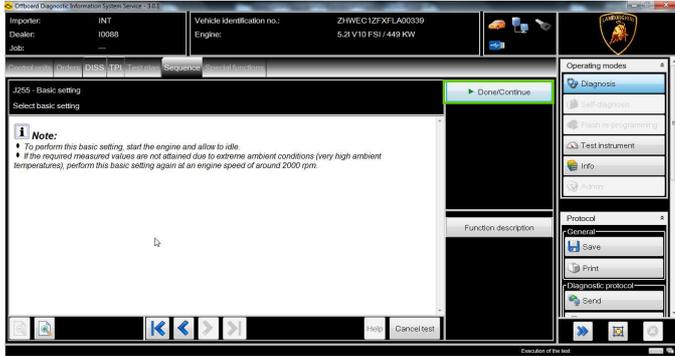


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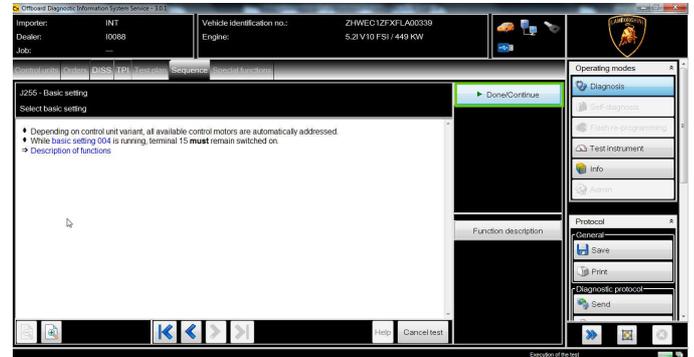
54. Basic setting 4

Make sure that ignition is ON.

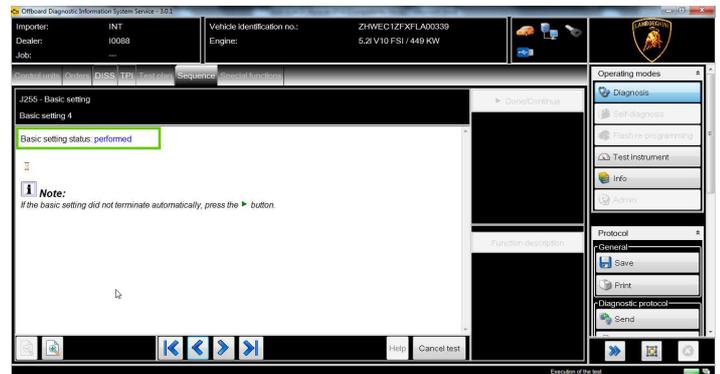
Click “Done/Continue”.



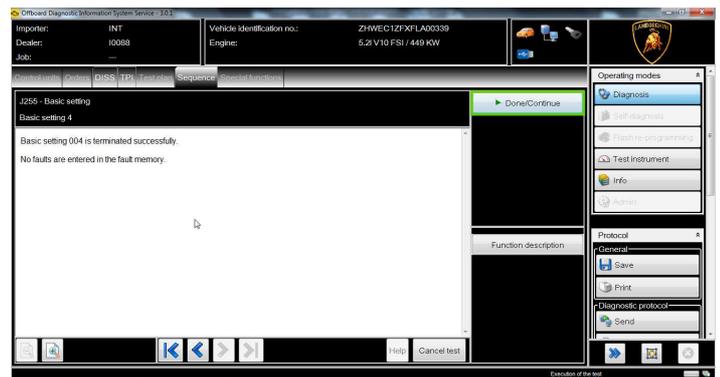
55. Click “Done/Continue” to perform the basic setting.



56. Make sure the basic setting status has moved to “performed”.



57. Click “Done/Continue”.



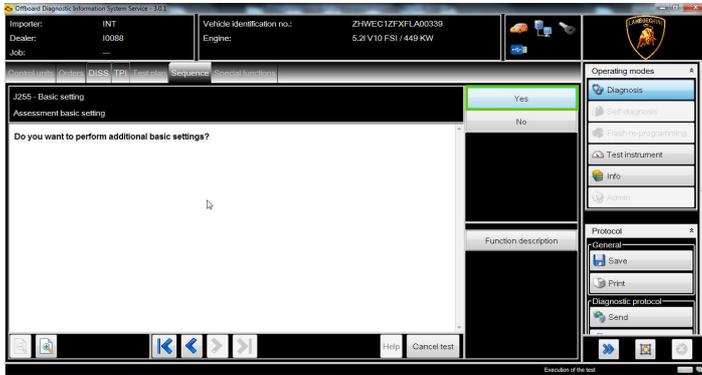
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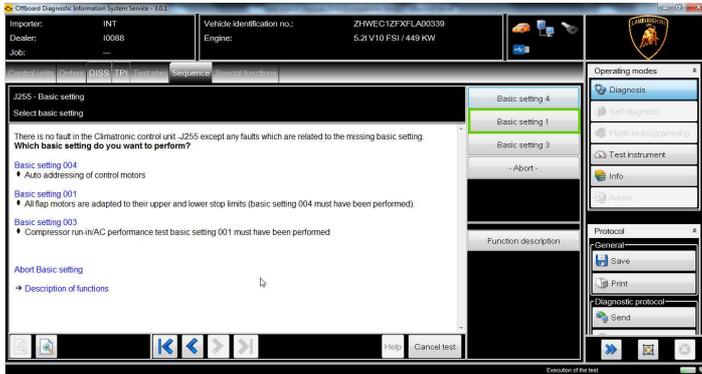
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58. Click "Yes".



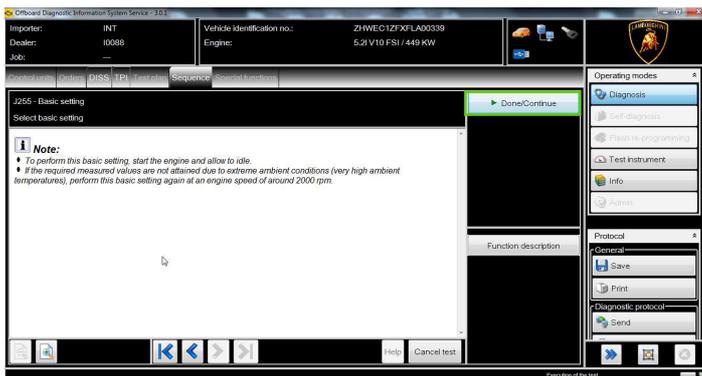
59. Click "Basic setting 1"



60. Basic setting 1

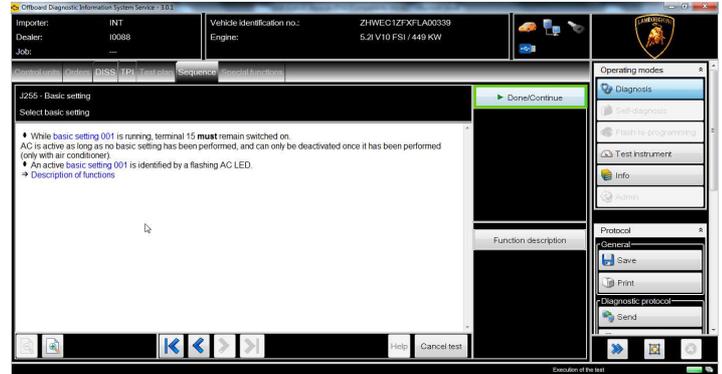
Make sure that ignition is ON.

Click "Done/Continue".

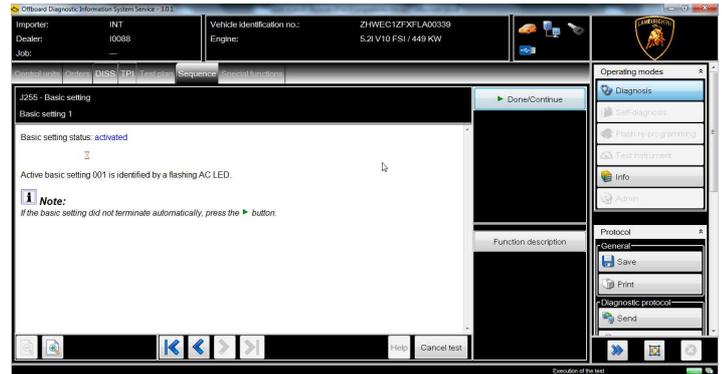


61. Click "Done/Continue" to perform the basic setting.

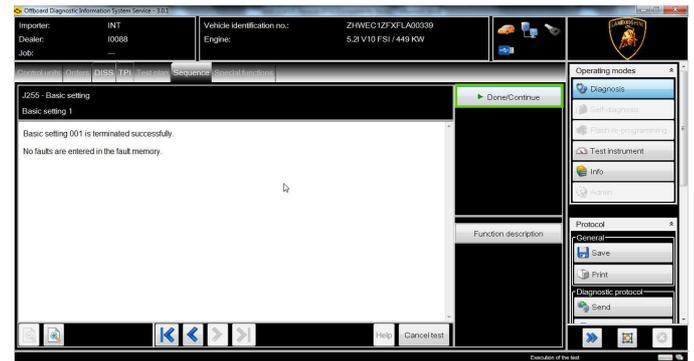
The AC led on the control panel flashes.



62. Make sure the basic setting status has moved from "activated" to "performed".



63. Click "Done/Continue".

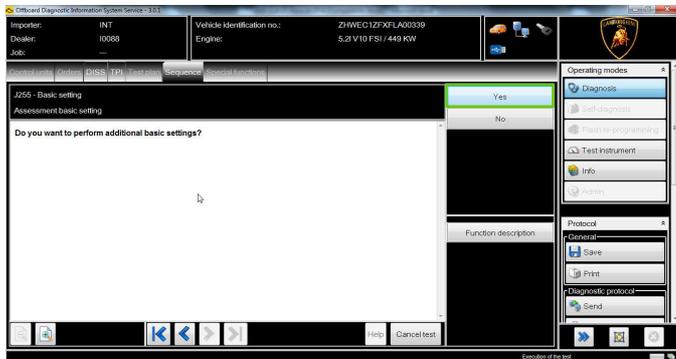


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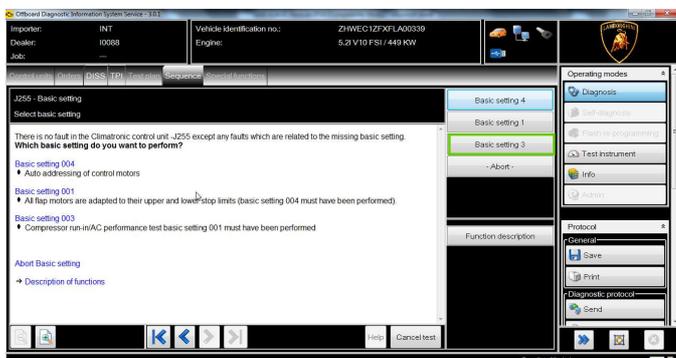
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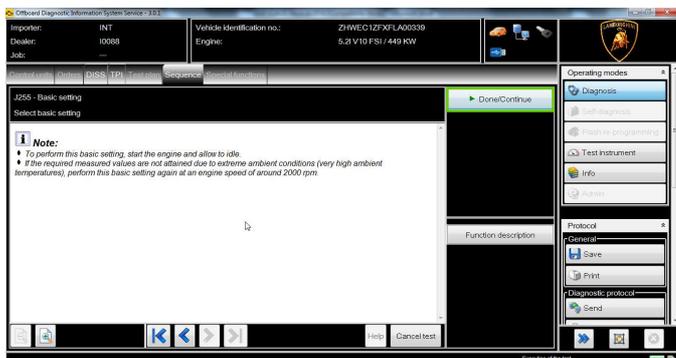
64. Click "Yes".



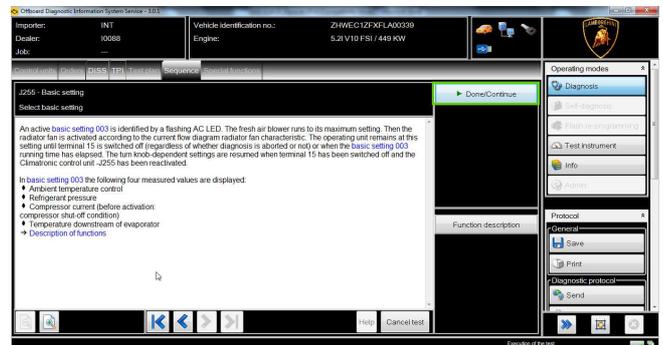
65. Click "Basic setting 3".



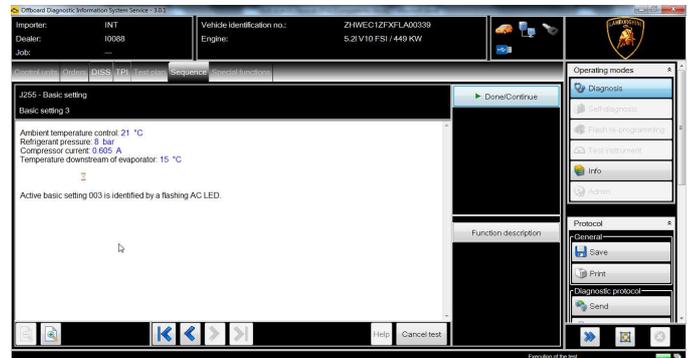
66. Basic setting 3



This basic setting must be performed with engine ON.
During this procedure the AC led on the control panel flashes.
Click "Done/Continue" to execute the basic setting.
Turn the engine ON.
Click "Done/Continue".

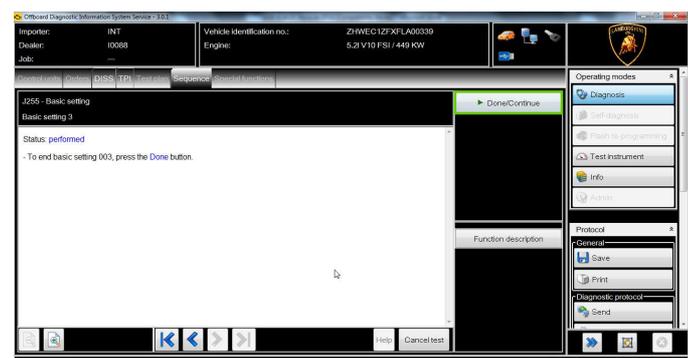


67. Check the air conditioning parameters and wait until the procedure is complete.



68. Make sure the basic setting status has moved to "performed".

Click "Done/Continue".

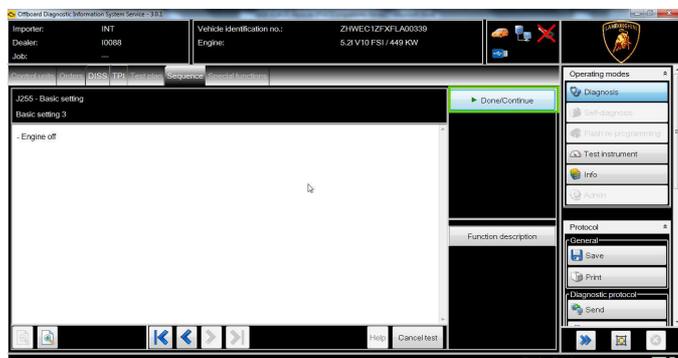


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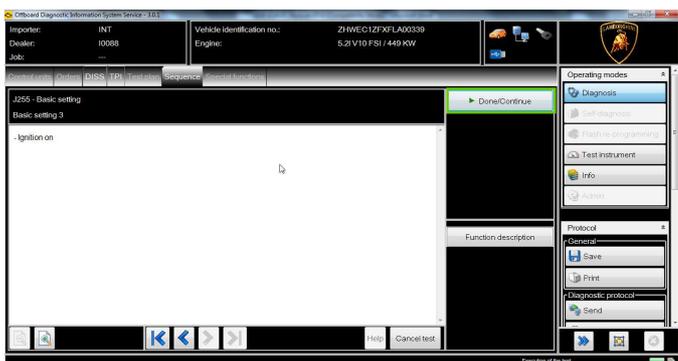
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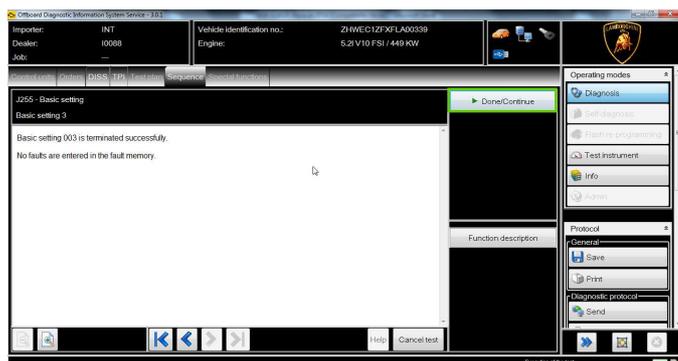
69. Turn the engine OFF.
Click "Done/Continue".



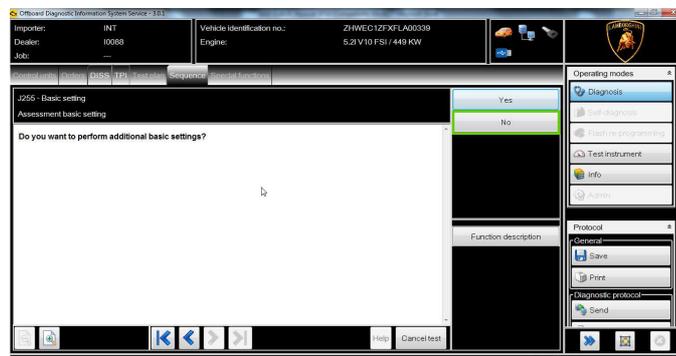
70. Turn ignition ON.
Click "Done/Continue".



71. Click "Done/Continue" to end the basic setting.



72. Click "No" to quit the program.



73. Verify that all errors have been deleted from the air conditioning ECU memory. If some sporadic errors are still present, cancel them.

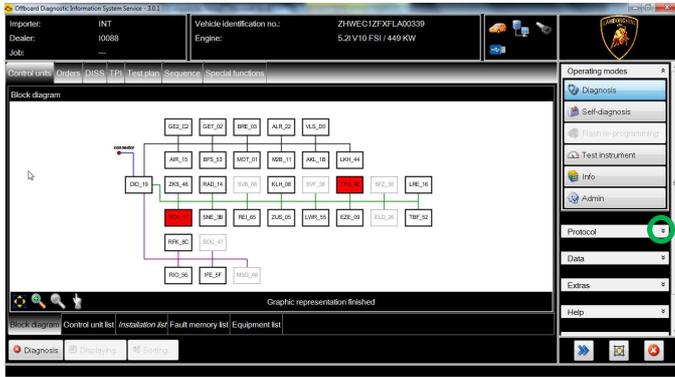


IMPORTANT

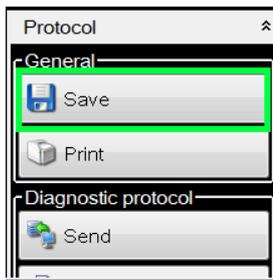
If any **static error** is still present in the air conditioning ECU memory after the software update and the basic settings operations, repeat the procedure from step 46.

Diagnosis protocol saving procedure:

74. Expand the “Protocol” right-hand menu.



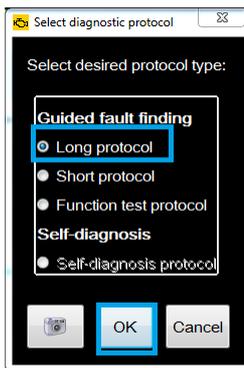
75. Click “Save” in the “General” group.



76. In the dialogue box select:

- **Long protocol**

Then click “OK”.



77. Select the path on your laptop where you want to save the diagnosis protocol. (default path is set under ODIS Service installation folder and can be changed in Admin menu)

Diagnosis protocol format is internet “.htm”.

Click “Save”.



Click “Print” in the “Diagnostic Protocol” menu to print the protocol directly on a .pdf file (if Adobe pdf is available) or in paper format sending it to a printer.



78. 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).

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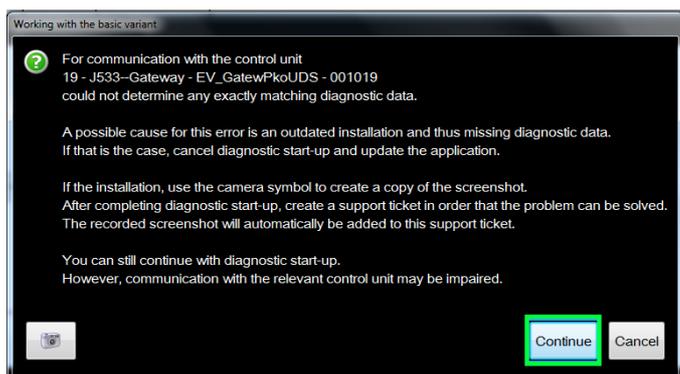
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Trouble shooting

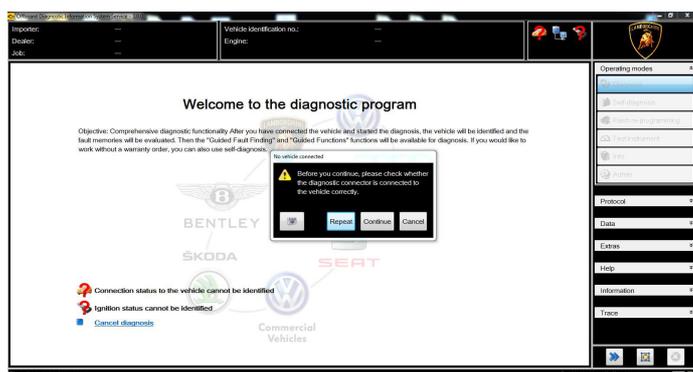
A. If the following dialogue box appears during ECUs identification:

Click “Continue”



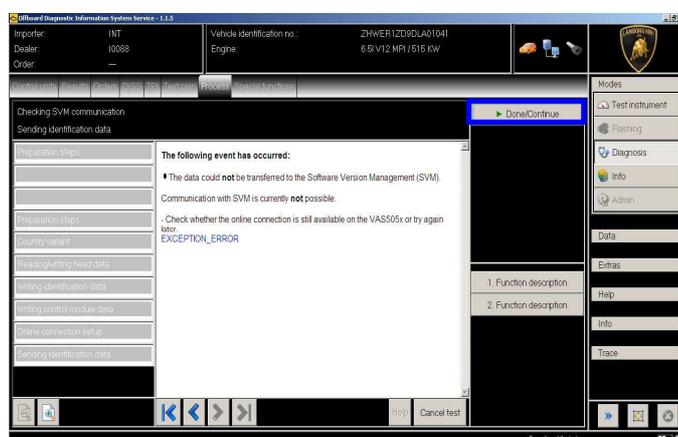
B. If the error message regarding the VAS5054 interface and the two icons for “on board connection” and “key status” are displayed as in the picture below:

- 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 “Diagnostic interface”.



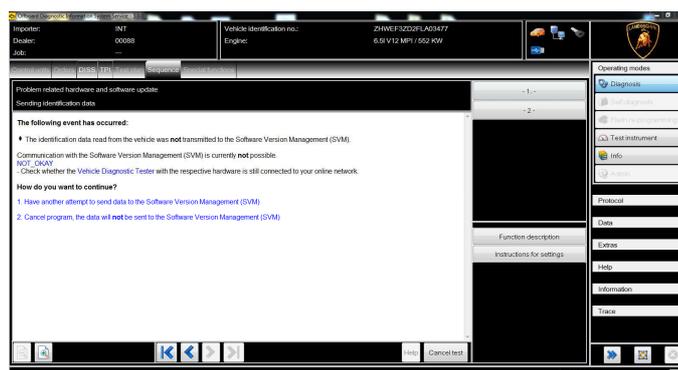
C. If one of the connection error screens is shown as in the pictures below:

- 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 “Do-Not/Continue”.



D. If the loss of connection happens during the target/actual comparison during SVM procedure:

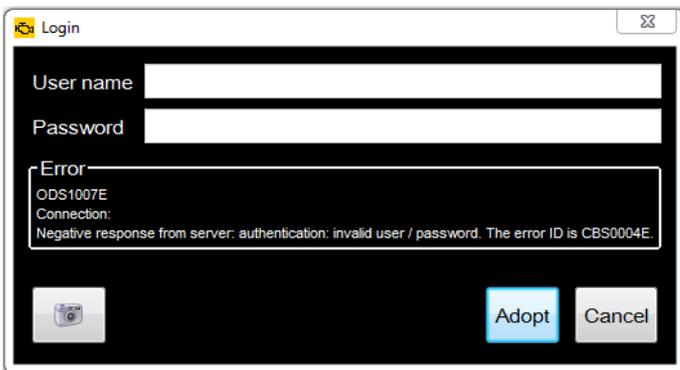
- It is not possible to connect to central server, check the working connection of internet and retry clicking “1”.



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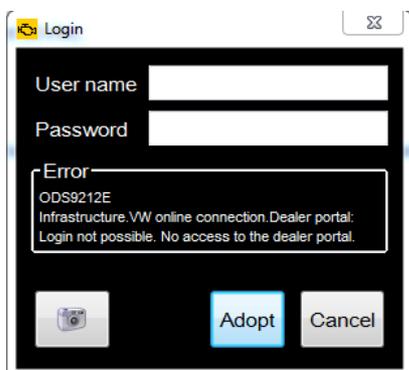
E. If the incorrect identification message is shown as in the picture below (error code: ODS1007E):

- 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 “Cancel” and perform the application test (see document “ODIS_Checking_ConnectionServer_SVM_2.0” (*)).



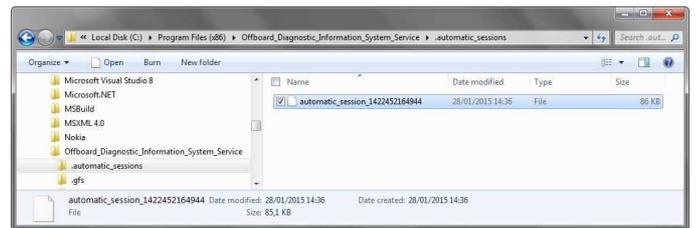
F. If the infrastructure error message is shown as in the picture below (error code: ODS9212E):

- make sure that your Geko account is valid
- check 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” (*))



G. If the same error is present during the application test, try the following procedure:

- quit ODIS;
- Enter the folder C:\Program Files (x86)\Offboard_Diagnostic_Information_System_Service\automatic_sessions on your diagnosis laptop;



- delete the only file present in that folder.
- re-Start ODIS Service under following conditions:
 1. Network connection available;
 2. ODIS connection set on “Internet”;
- Retry the application test and the SVM with your GeKO Token.



IMPORTANT REMARK

In the case an error is still present, repeat the procedure with a second GeKO token, if available.

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H. 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:
- <http://mirrorserver/maintenance/diagnosis.py>
- or
- http://IP_address/maintenance/diagnosis.py
- if you don't have previously defined the "mirrorserver" IP address alias.
- Make sure to be correctly connected with Mirrorserver.

MS/2 Diagnosis

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	10.48.187.43
Key file	/var/www/desert/certs/userkey.pem
Certificate	/var/www/desert/certs/usercert.pem
Tests	
Local file/directory permissions	OK
Disk space	OK
Provider reachable	OK (altair.mirrorserver2.net)
Repository reachable	OK (altair.mirrorserver2.net)
Feedback reachable	OK (altair.mirrorserver2.net)
Provider WebDAV access	OK (https://altair.mirrorserver2.net/deployment)
Repository WebDAV access	OK (https://altair.mirrorserver2.net/storage)
Feedback WebDAV access	OK (https://altair.mirrorserver2.net/health)
Successful package downloads	8
Failed package downloads	0
Last Sync	16/02/14 22:01:01
<input type="button" value="Start tests"/>	

Click "Start tests" and verify "Last Sync" date.



NOTE:

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



IMPORTANT REMARK:

The documents to be mandatory attached to the claim are:

- Job order done;
- Diagnosis Protocol saved.

Failure in following the procedures may lead to the rejection of the request.