L624-A.02.16	**To:** Official After Sales Network **Subject:** Engine & gearbox SW update **Date:** March 18,2016 **Pages** 15	

Subject.
Engine & gearbox SW update

Model.
Huracan Coupè.

Model year.
2015

Special or Limited Versions.
All vehicle versions.

Markets.
All.

VIN identification.
From **FLA00163 to 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 found that on some vehicles the engine may sporadically stall during tip-in right after start, so then has made available a new software release for gearbox and engine.

Field solution.
Update the software following the instructions detailed at the next pages.

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.

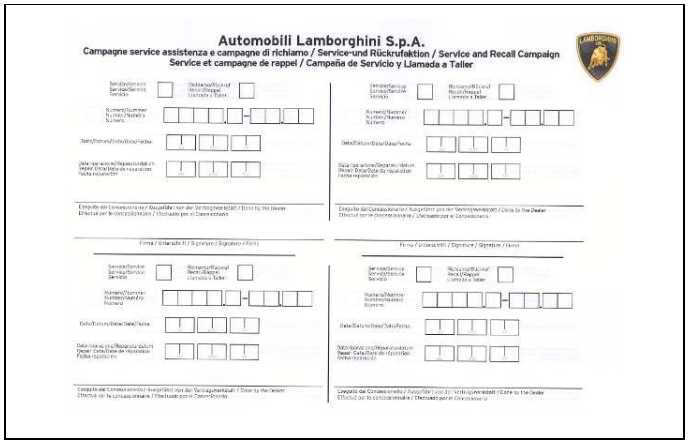
Bulletin substitution.
None.

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.02.16**
Campaign Des.: **Engine & gearbox SW update**
Cost code: **50**

Component code: **CCA0216**
Trouble code: **220**
Labor code: **CC0216100**
Labor Time: **0,7 h**

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


Automobili Lamborghini S.p.A.
Campagne service assistenza e campagne di richiamo / Service-und Rückrufaktion / Service and Recall Campaign
Service et campagne de rappel / Campaña de Servicio y Llamada a Taller

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.

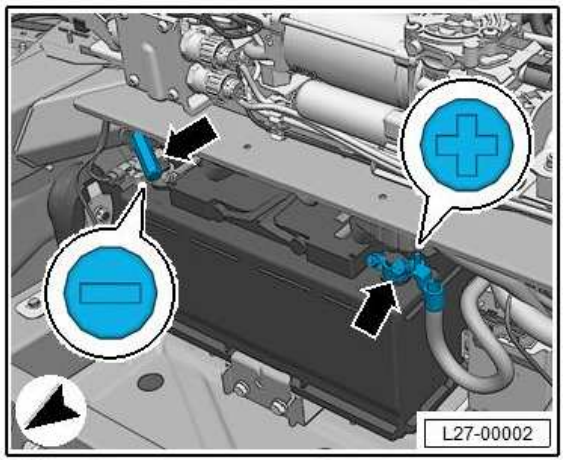
MS/2 Diagnosis

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
Start tests	

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

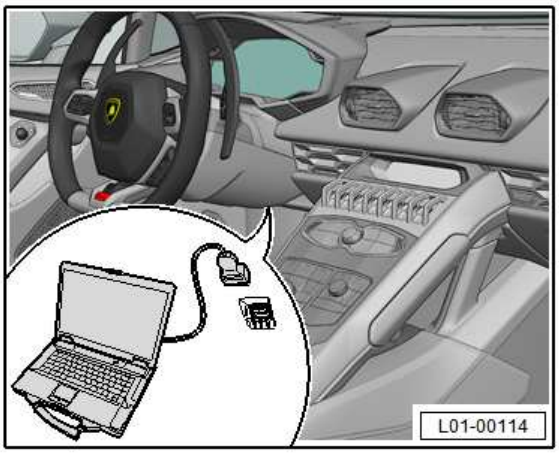
Update procedure:

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

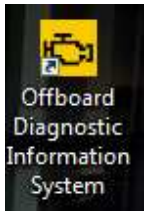


3. Please connect the VAS5054 interface to the vehicle OBD plug and to the diagnostic laptop.

   Turn the ignition ON.



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



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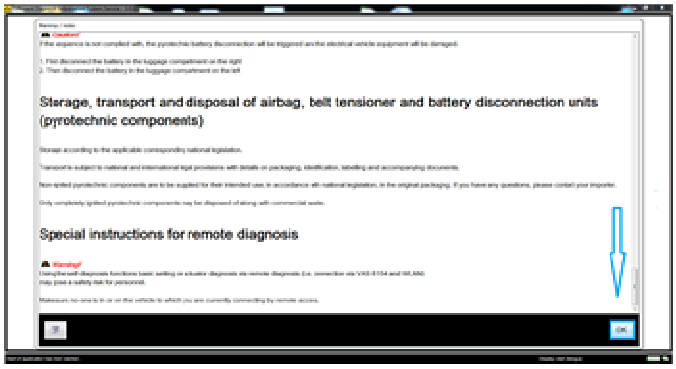
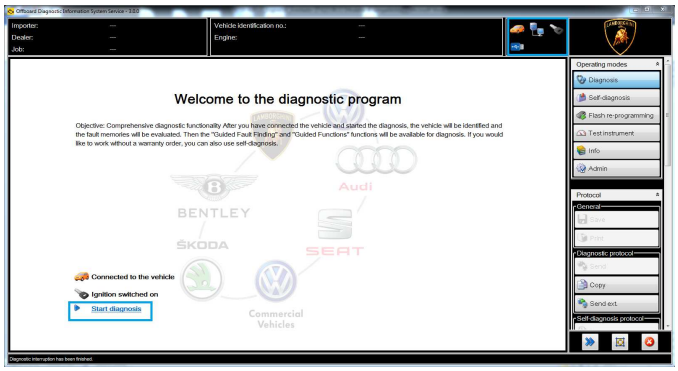
5. Scroll down the vertical bar on the right.

   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.



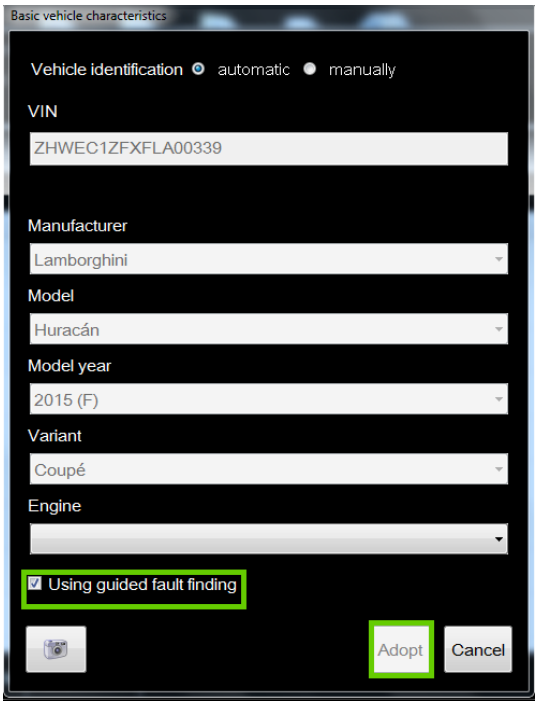
7. Click “Cancel” for any group system login request.

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.

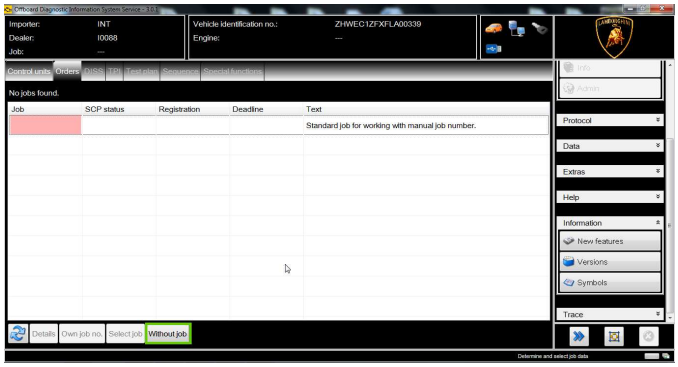
   Leave the checkbox “Using guided fault finding” selected.

   Click “Adopt”.



9. Skip the login window clicking “Cancel”.

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



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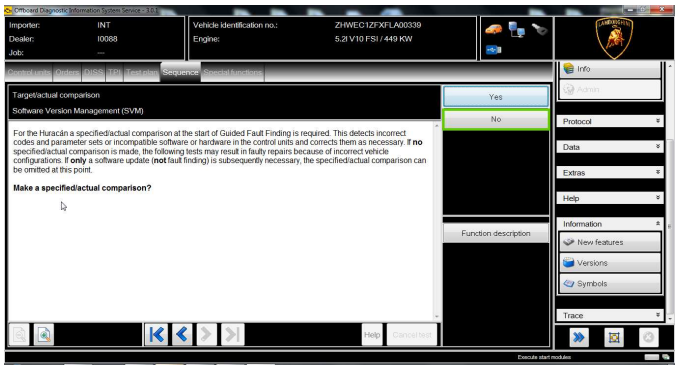
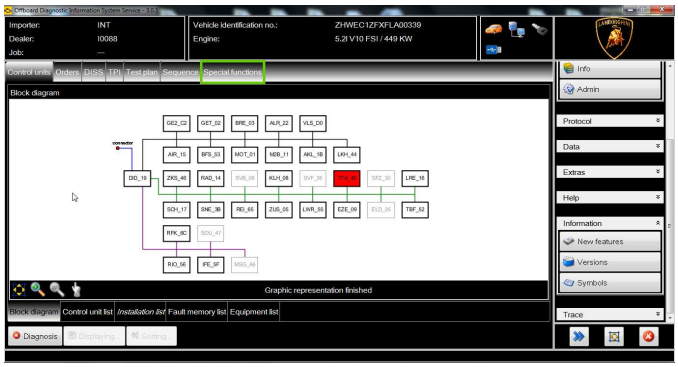
11. Answer “No” to the “actual comparison” request.

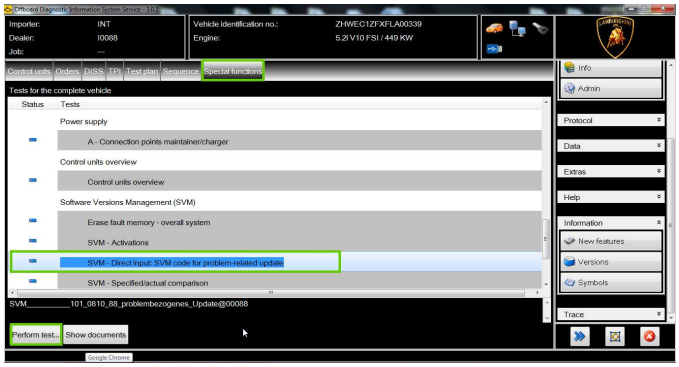


12. At the end of initial operations (see bottom-right status bar), select “Special functions”.



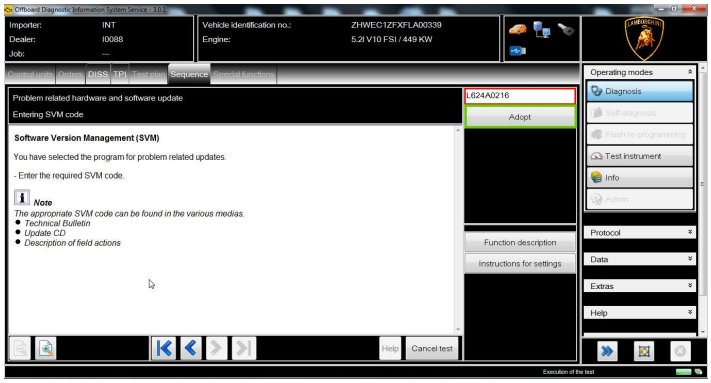
13. Select “SVM – Direct input: SVM code for problem related update” clicking the related row.

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

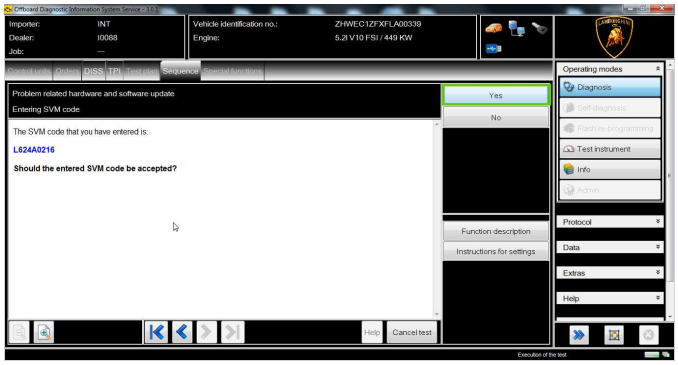


14. Insert the code **L624A0216** in the upper box.

    Click “Adopt”.

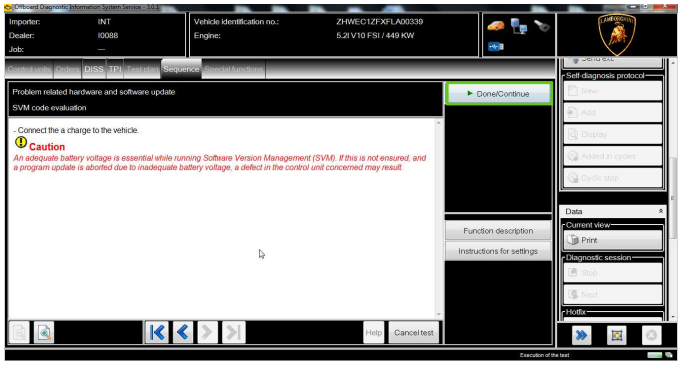


15. Click “Yes” to confirm that the inserted code is correct.



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

IMPORTANT
During the SVM operation a battery charger must be connected.



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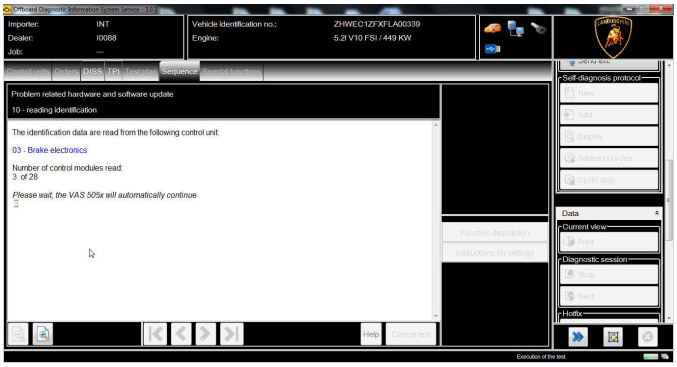
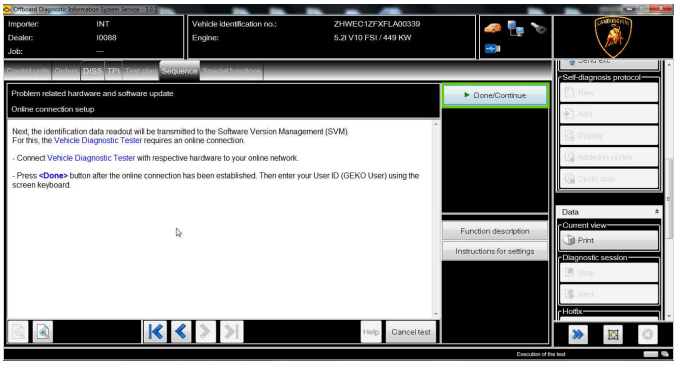
17. Wait until the data acquisition from all ECUs is completed.



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”.

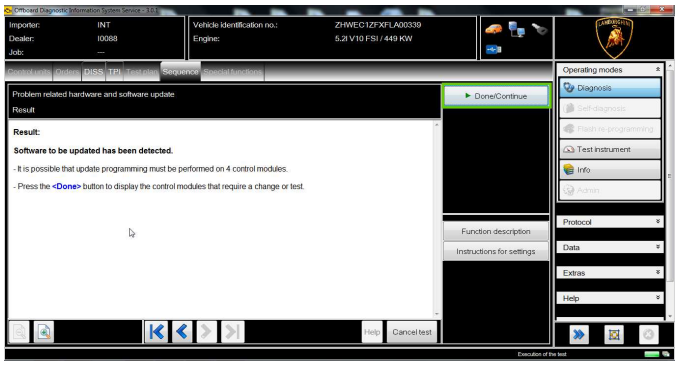
20. The communication is then established with the central server.

    There might be an update available for up to four ECUs.

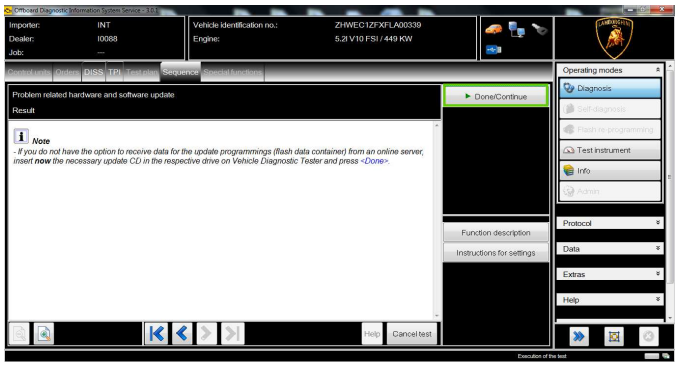
    A vehicle with all four ECUs to be updated was used to create this bulletin:

    - 01 – Engine electronics
    - 11 – Engine electronics 2
    - 02 – Gearbox electronics
    - C2 – Gearbox electronics 2

    Click “Done/Continue”.



21. Click “Done/Continue”.



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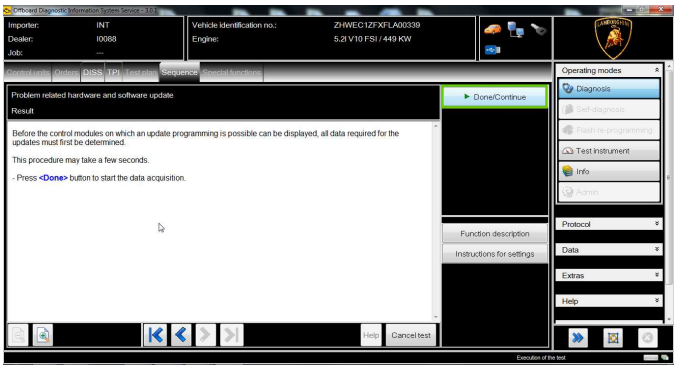
22. Click “Done/Continue”.

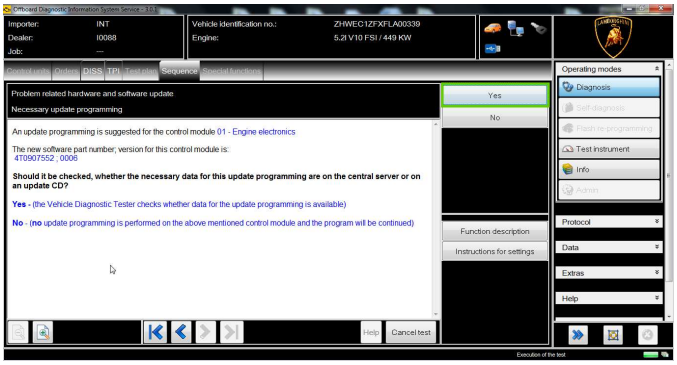


23. ECU “01 – Engine electronics” software update.

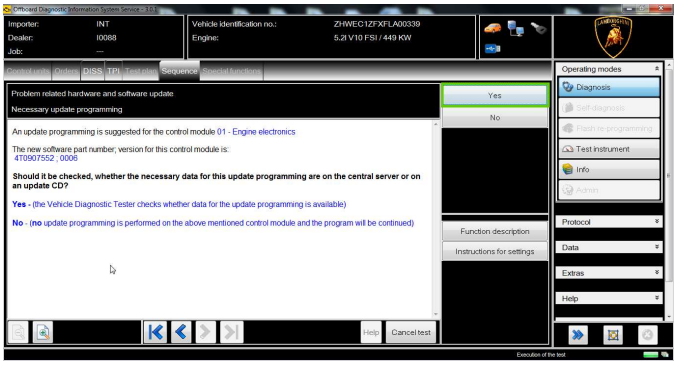
The figure below refers to software versions and part numbers of the vehicle used as example.

Those data may change depending on the car.

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



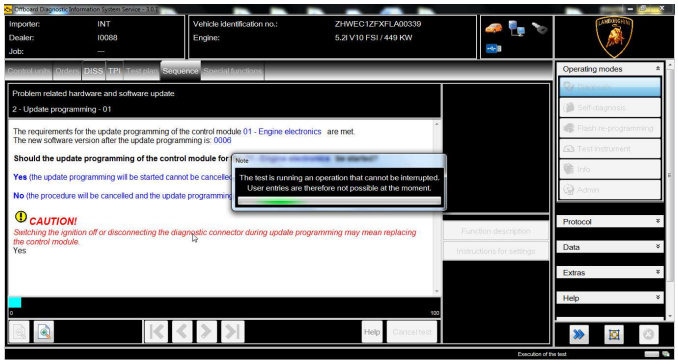
24. Verify the new engine ECU software and click “Yes” to start the update.



IMPORTANT

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

25. Wait until the update programming of the ECU 01 is complete.

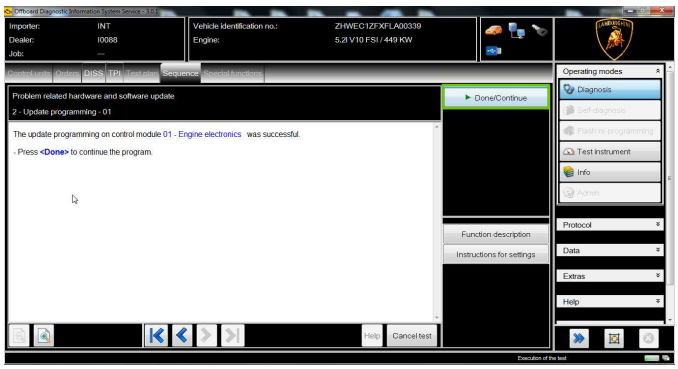


26. Once the update programming has been completed successfully a message is displayed.

- 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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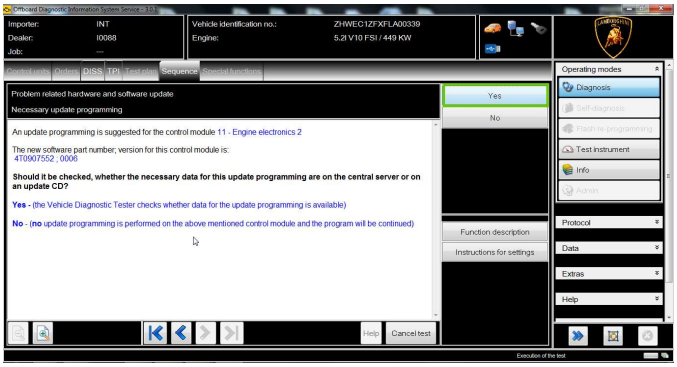
27. ECU “11 – Engine electronics2” software update.

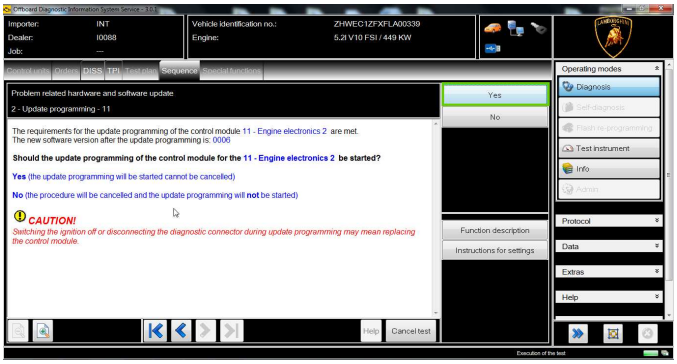
The figure below refers to the software versions and the part numbers of the vehicle used as example.

Those data may change depending on the car.

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

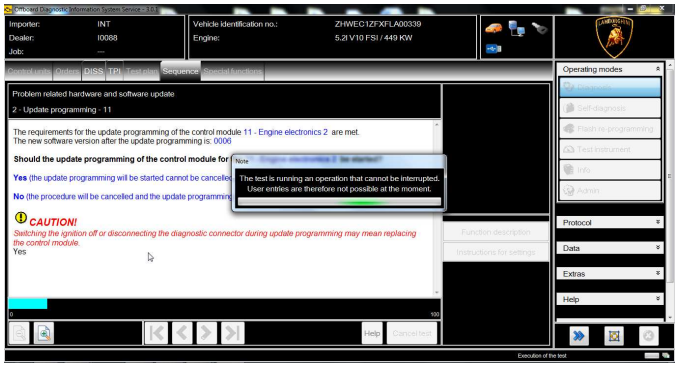


28. Verify the available ECU software and click “Yes” to start the update.



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

29. Wait until the update programming of the ECU 11 is complete.

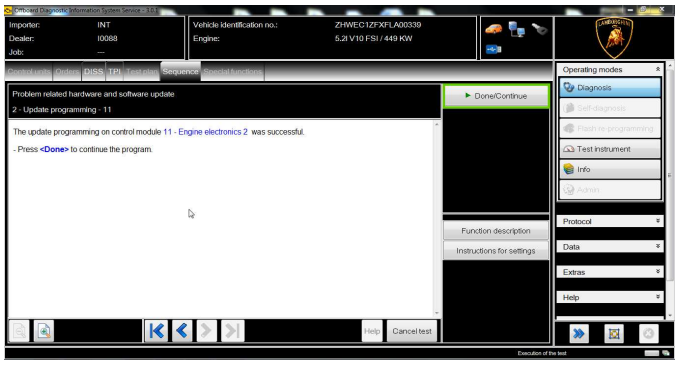


30. Once the update programming has been completed successfully a message is displayed.

- 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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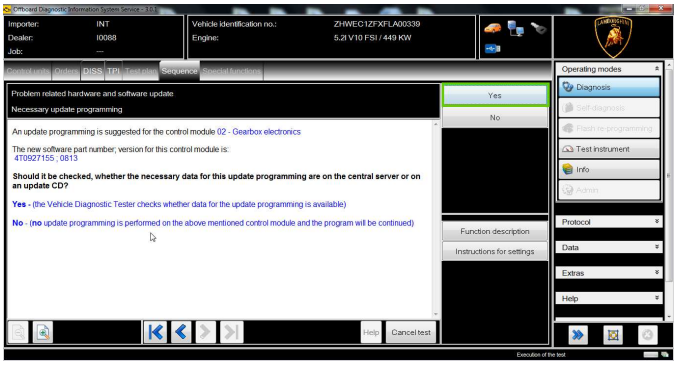
31. ECU “02 – Gearbox electronics” software update.

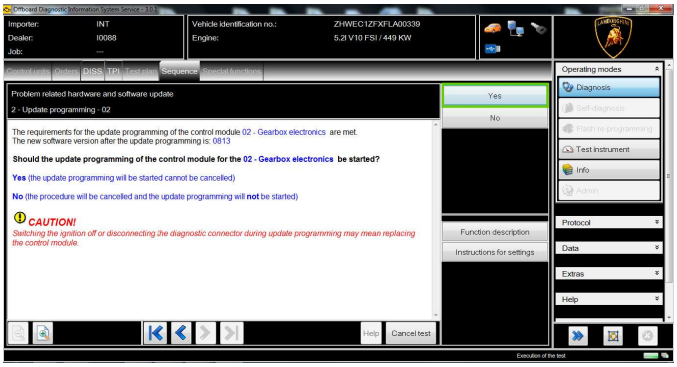
The figure below refers to the software versions and the part numbers of the vehicle used as example.

Those data may change depending on the car.

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

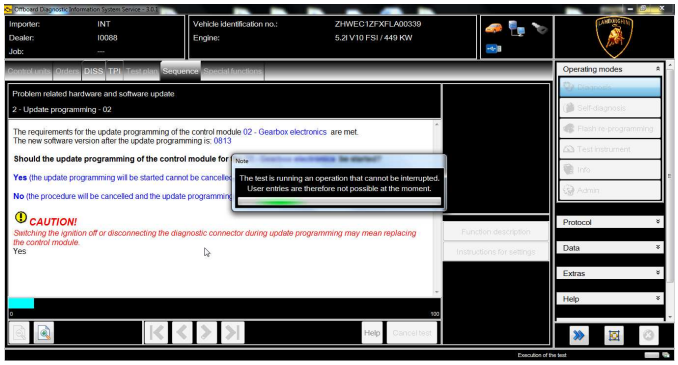


32. Verify the available ECU software and click “Yes” to start the update.



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

33. Wait until the update programming of the ECU 02 is complete.

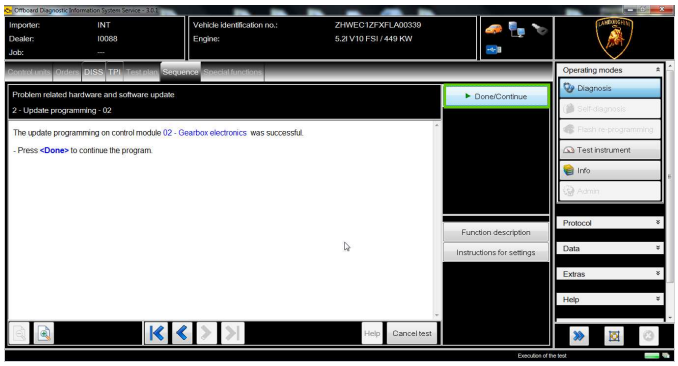


34. Once the update programming has been completed successfully a message is displayed.

- 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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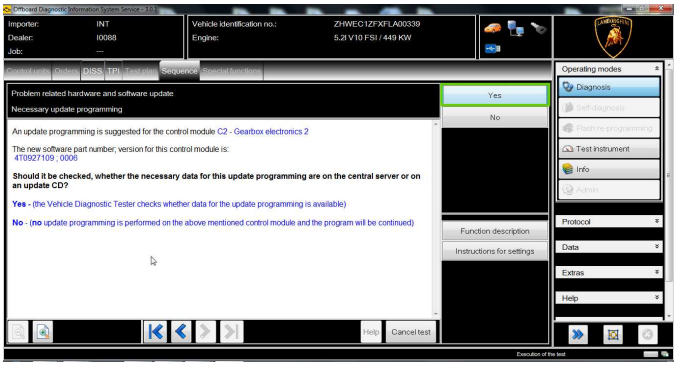
35. ECU “C2 – Gearbox electronics 2” software update.

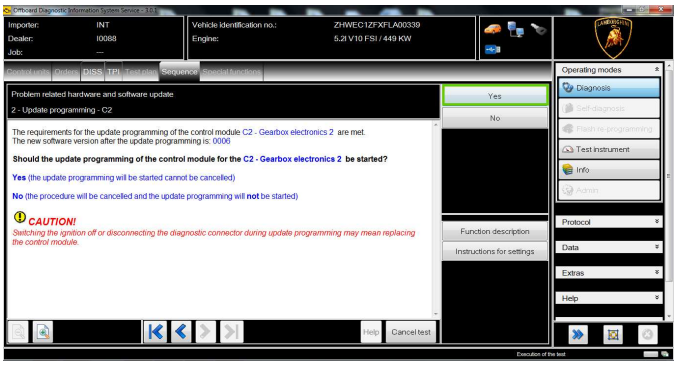
The figure below refers to the software versions and the part numbers of the vehicle used as example.

Those data may change depending on the car.

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



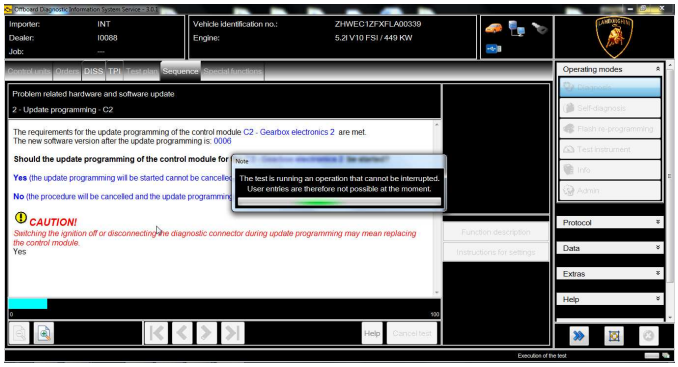
36. Verify the available ECU software and click “Yes” to start the update.



IMPORTANT

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

37. Wait until the update programming of the ECU C2 is complete.

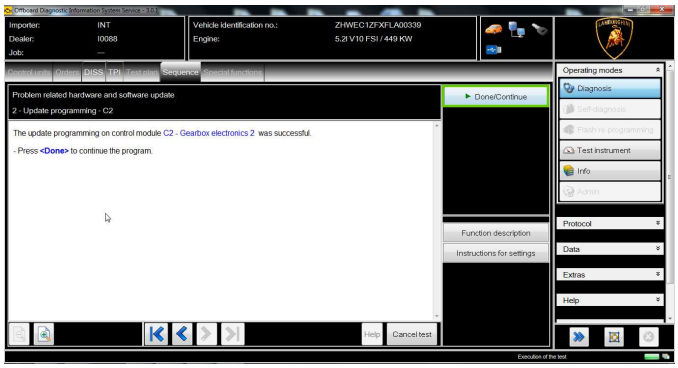


38. Once the update programming has been completed successfully a message is displayed.

- 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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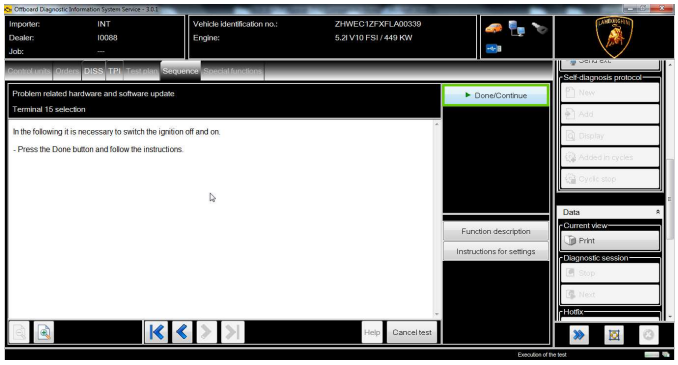
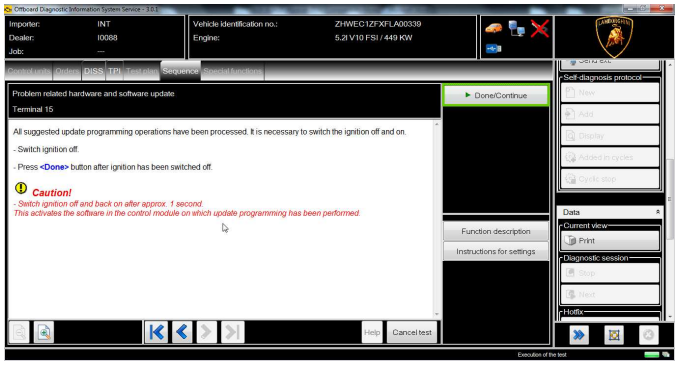
39. An ignition OFF-ON cycle is necessary to restart the ECUs.

    Click “Done/Continue”.



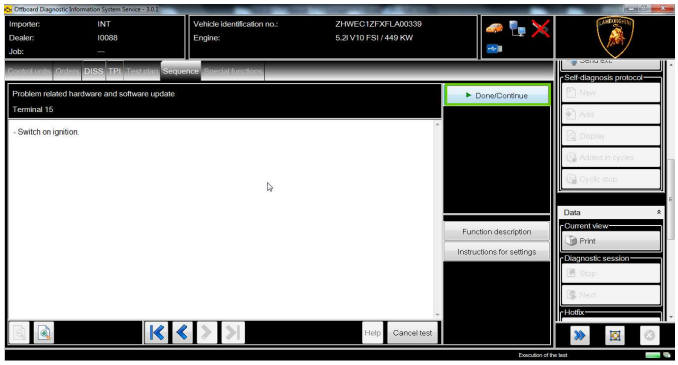
40. Switch the ignition OFF.

    Click “Done/Continue”.

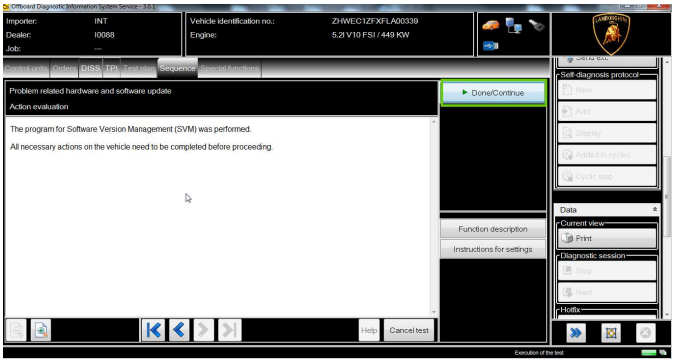


41. Switch the ignition ON.

    Click “Done/Continue”.

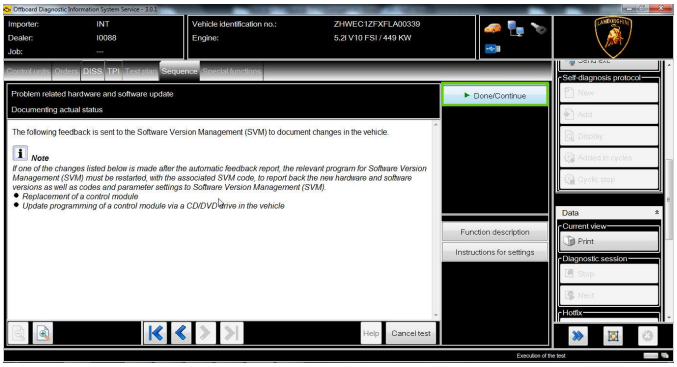


42. Click “Done/Continue” to complete the SVM.

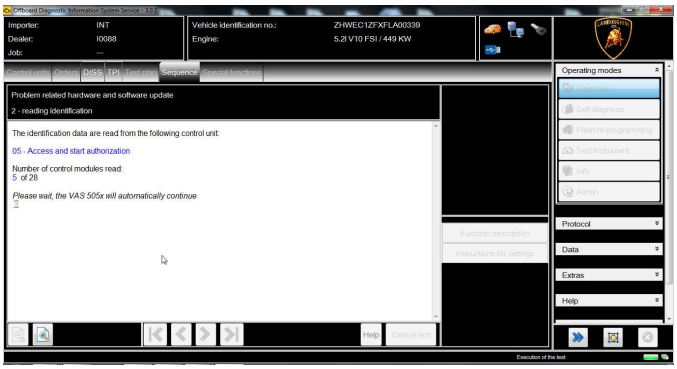


43. SVM can be completed after data acquisition from all ECUs.

    Click “Done/Continue”.



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



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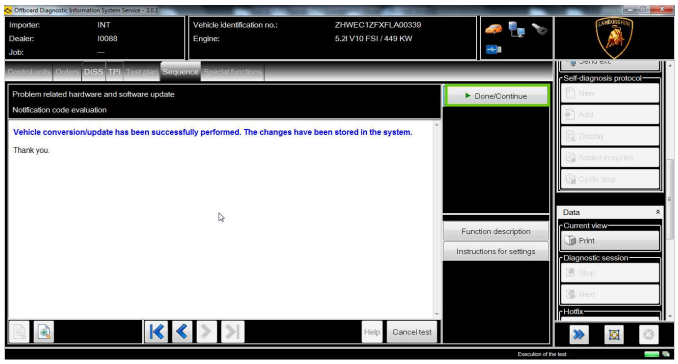
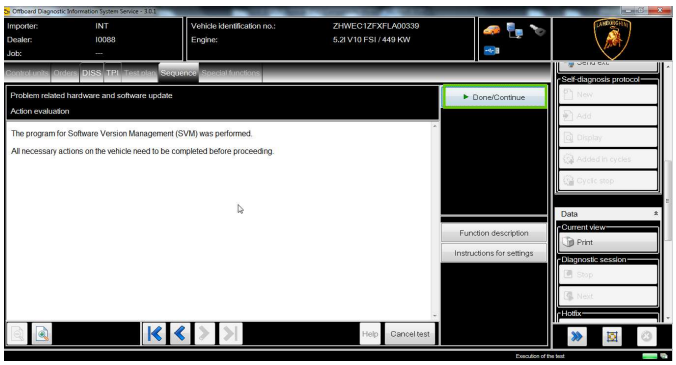
45. Once the data report has been sent a feedback is displayed as shown in the picture below.

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

    Click “Done/Continue”.

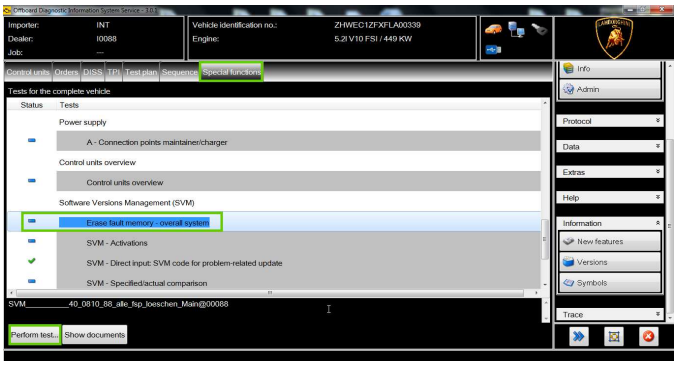


46. Click “Done/Continue”.

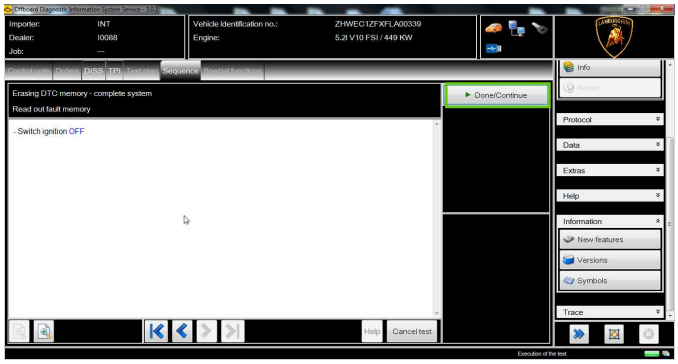


47. Select again the “Special functions” tab and click “Erase fault memory – overall system”: this is necessary to delete all errors created during the software update procedure.

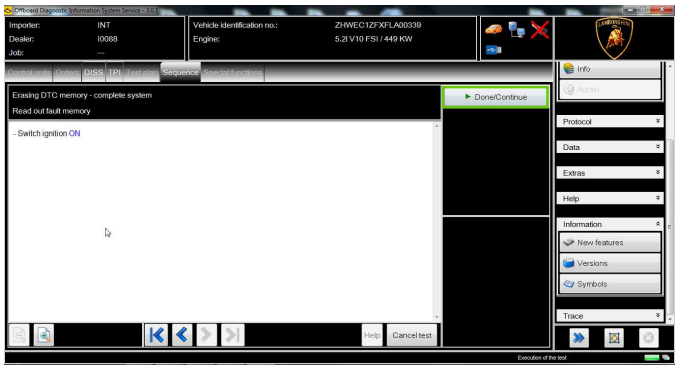
    Click “Perform test…”.



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



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



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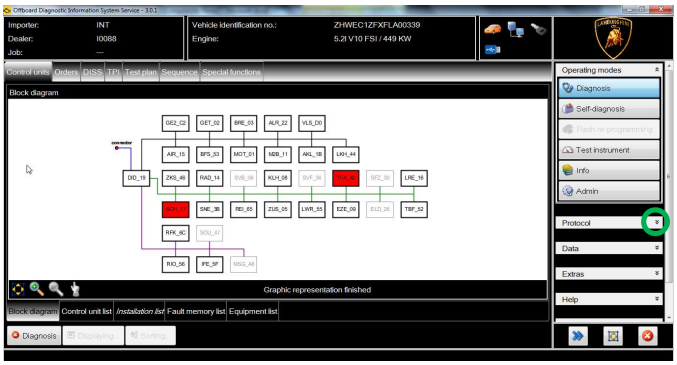
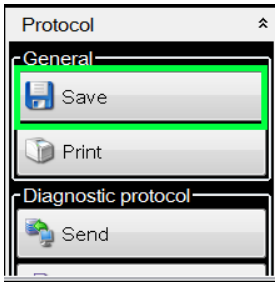
Diagnosis protocol saving procedure:

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



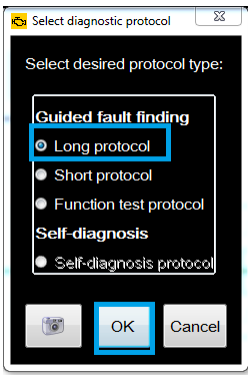
51. Click “Save” in the “General” group.



52. In the dialogue box select:

    - **Long protocol**

    Then click “OK”.

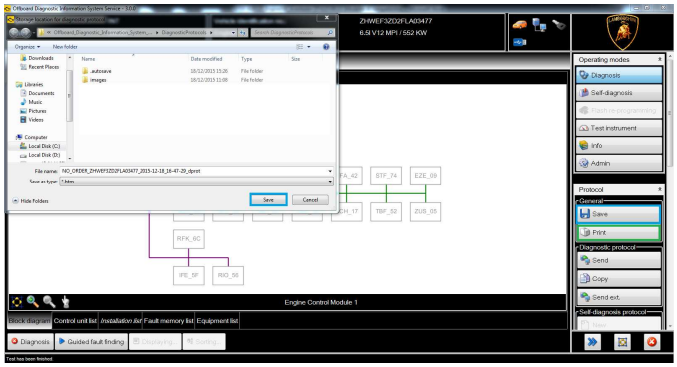


53. Select the path on your laptop where you want to save the diagnosis protocol. (default path is set under ODIS Service installation folder and can be changed in Admin menu)

    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.



54. 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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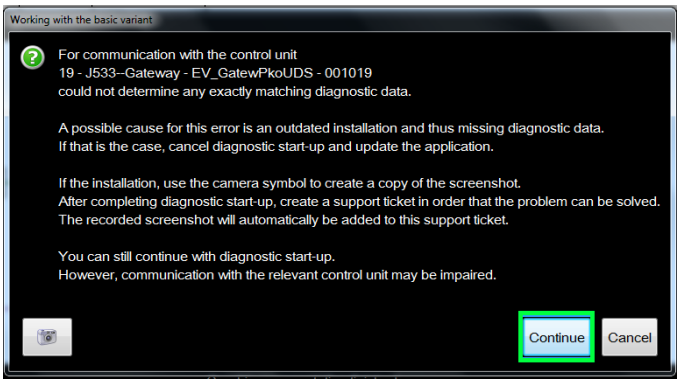
Trouble shooting

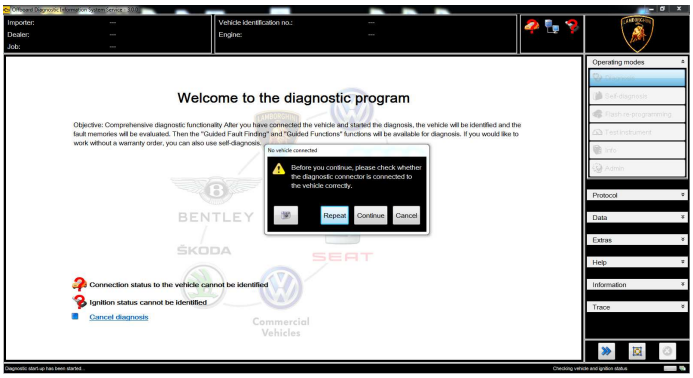
A. If the following dialogue box appears during ECUs identification:

Click “Continue”



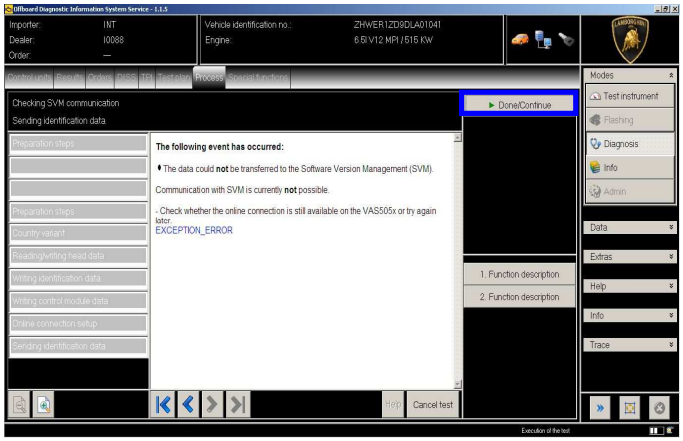
B. If the error message regarding the VAS5054 interface and the two icons for “on board connection” and “key status” are displayed as in the picture below:

- 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”.



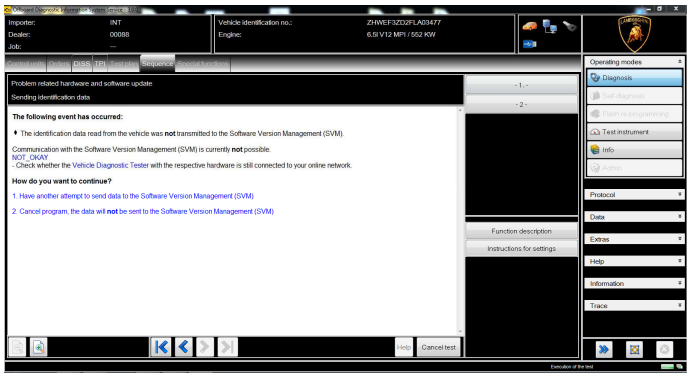
C. If one of the connection error screens is shown as in the pictures below:

- 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 “Done/Continue”.



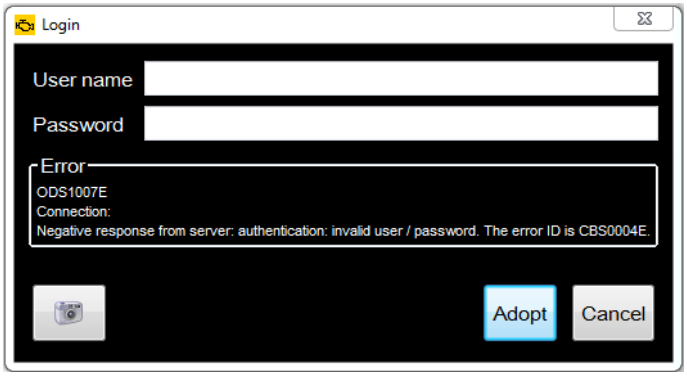
D. If the loss of connection happens during the target/actual comparison during SVM procedure:

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



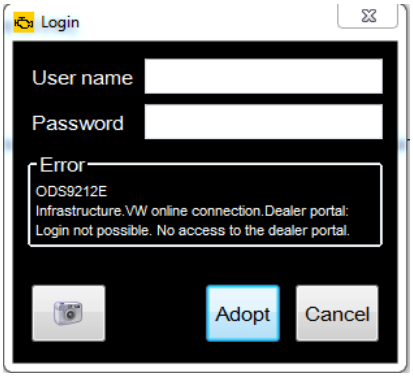
E. If the incorrect identification message is shown as in the picture below (error code: ODS1007E):

- 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” (*)).



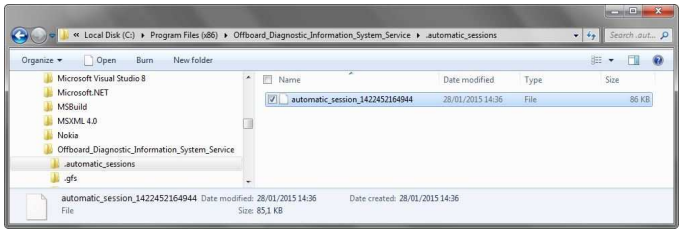
F. If the infrastructure error message is shown as in the picture below (error code: ODS9212E):

- 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:
- Network connection available;
- ODIS connection set on “Internet”;
- Retry the application test and the SVM with your GeKO Token.

IMPORTANT REMARK

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

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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
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.

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