

L624-
A.05.15

To: Official After Sales Network
Subject: AC System software update
Date: 02/20/2015
Pages: 19



Subject

AC System software update

Model

All Lamborghini Huracán 2015 Right Hand drive starting from VIN 00163 to FLA01968

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 enhance the air recycle functionality.

Field solution

Update software that manage air conditioning/Klima

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.05.15
Campaign Des.: AC System software update
Cost code: 50
Component code: CCA05154
Trouble code: 220
Labor code: CA0515100
Labor Time: 0,7h

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

Workshop instructions



The instructions contained in this bulletin are based on ODIS Service diagnosis software updated to release 2.2.3 and database Lamborghini 19.63 (see information bulletin BI.16.14)

Preliminary operations:

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

<http://mirrorserver/welcome>

or under:

http://IP_address/welcome

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



IMPORTANT

Make sure the last synchronization has been done after the 21st January 2015.

Rev.01

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doc. nr: L/V6_M06 Rev.[02]

1/19



Congratulations

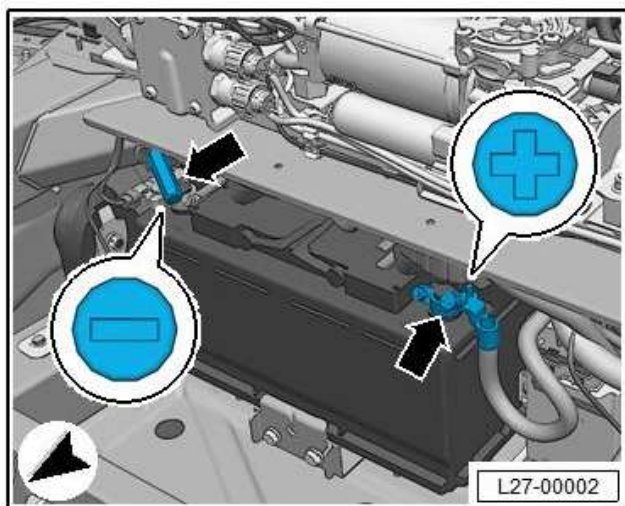
You have successfully installed your MirrorServer2 NOS-Box.

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

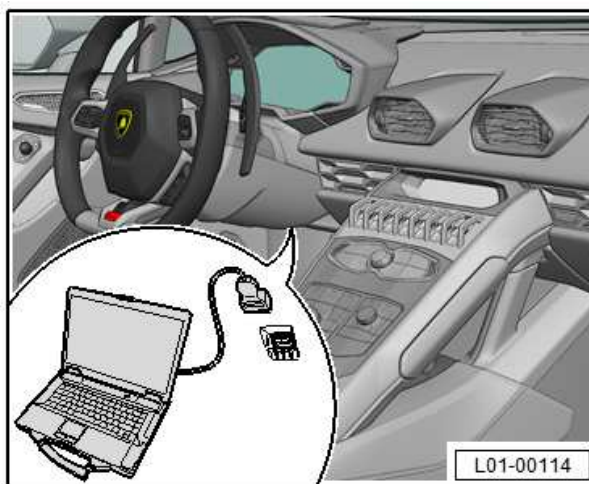
Configuration	
Base path	/var/www/desert
Provider URL	https://altair.mirrorserver2.net/deployment
Repository URL	https://altair.mirrorserver2.net/storage
Feedback URL	https://altair.mirrorserver2.net/health
Proxy	http://svc_blackbox? @10.46.167.43:8080
Key file	/var/www/desert/certs/userkey.pem
Certificate	/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	26-01-15 at 22:34:06

Update procedure:

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



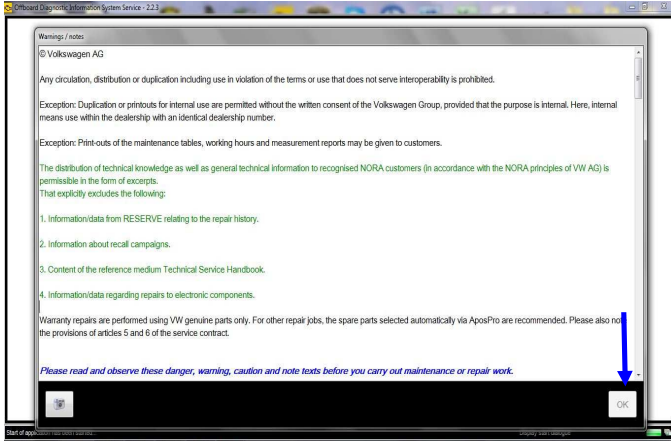
- Please connect the VAS5054 interface to the vehicle's OBD plug and to the diagnostic laptop.
Turn the ignition ON



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



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

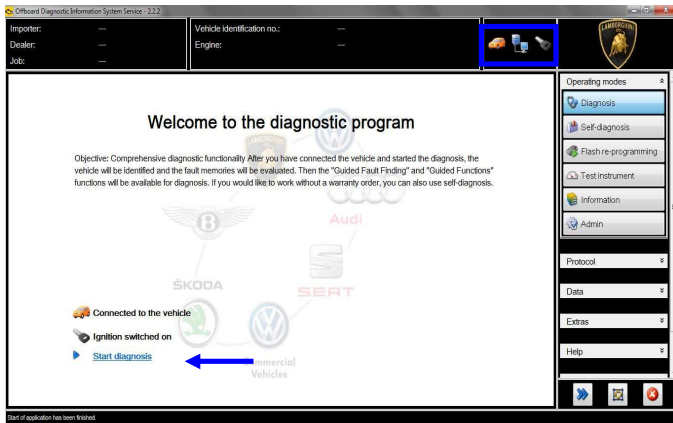


6. Select “Start diagnosis”.



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

Click “cancel” to each eventual Login to group systems.

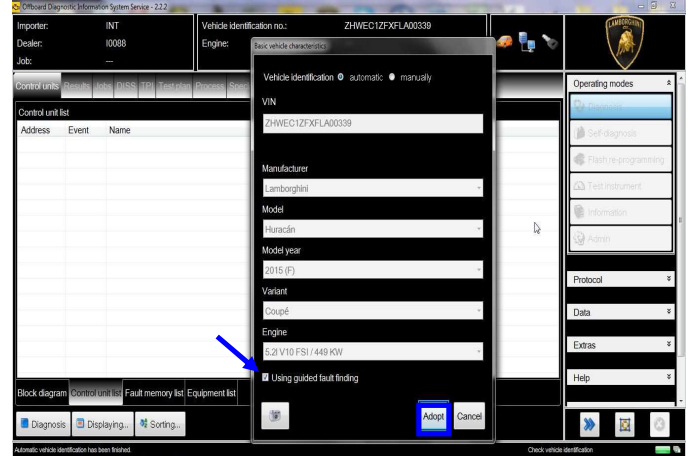


7. Check the vehicle identification on the window “Basic vehicle characteristics”.

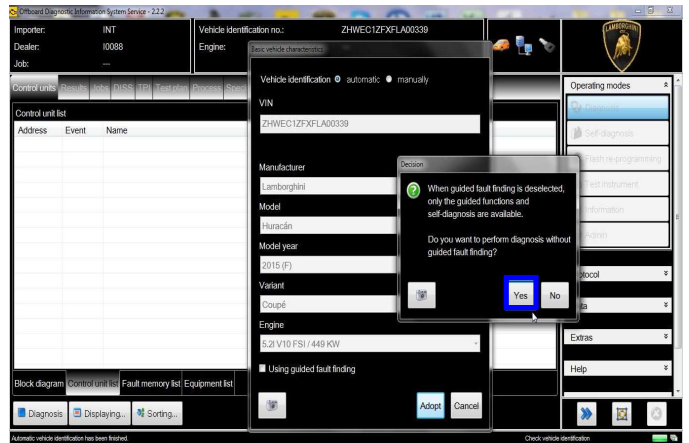
Select the Variant in the related menu

Deselect the checkbox “Using guided fault finding”

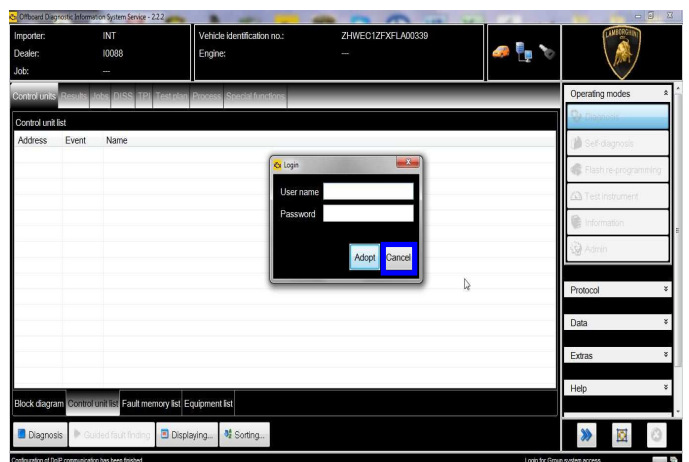
Click “Adopt”



8. Click “Yes”



9. Skip the Login window by clicking “Cancel”

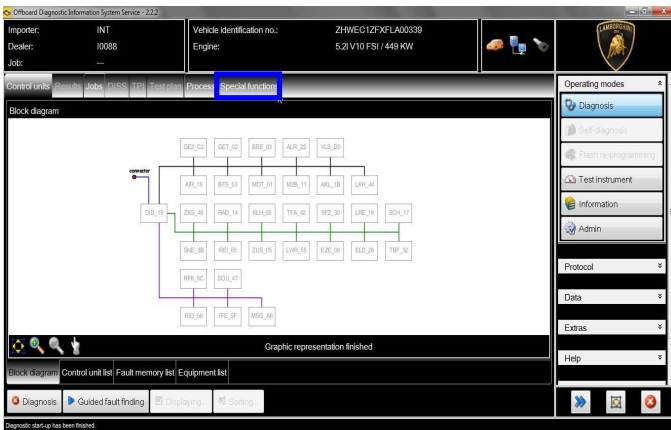


L624-
A.05.15

To: Official After Sales Network
Subject: AC System software update
Date: 02/20/2015
Pages: 19

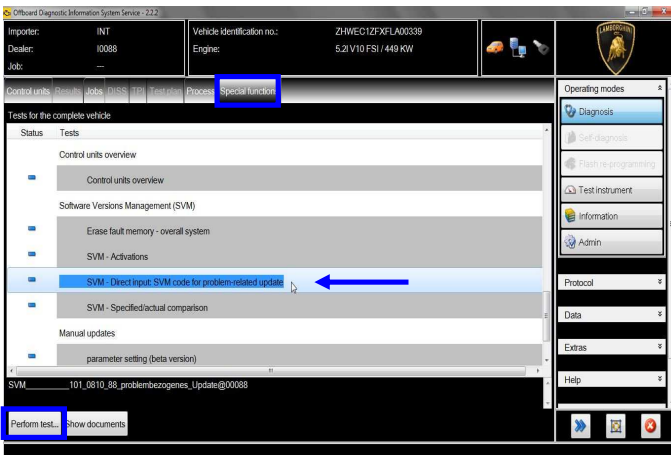


10. At the end of start-up procedure (see status in the progress bar bottom right), move on the ODIS tab “Special functions” now available.



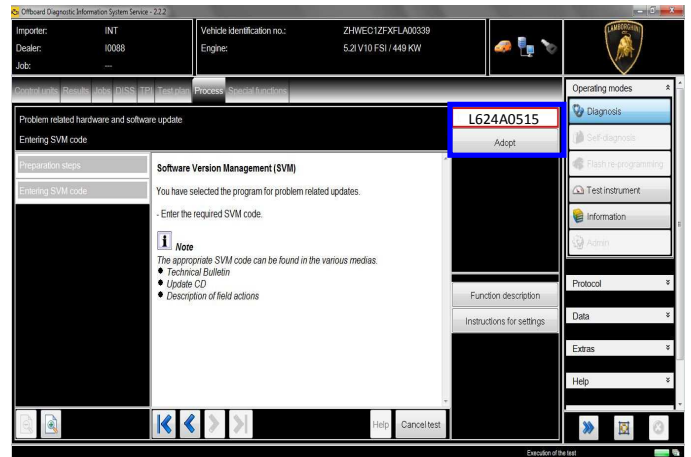
11. Select “SVM – Direct input: SVM code for problem related update” by clicking the related row with the mouse.

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



12. Insert in the upper box with the cursor the code **L624A0515**

Click “Adopt”



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



14. Click on “Done/Continue” to start the data acquisition from all the vehicle’s ECUs.

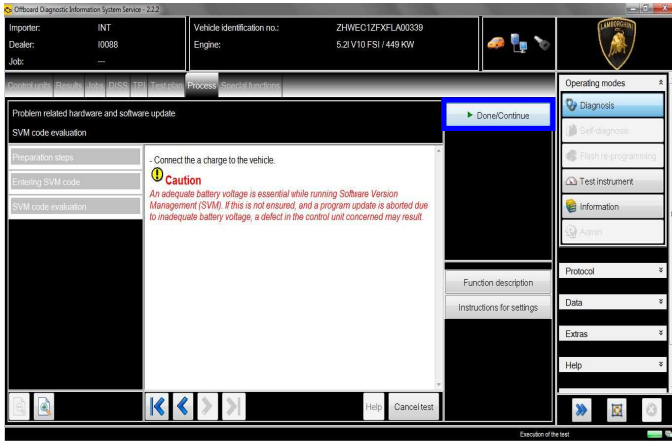


IMPORTANT

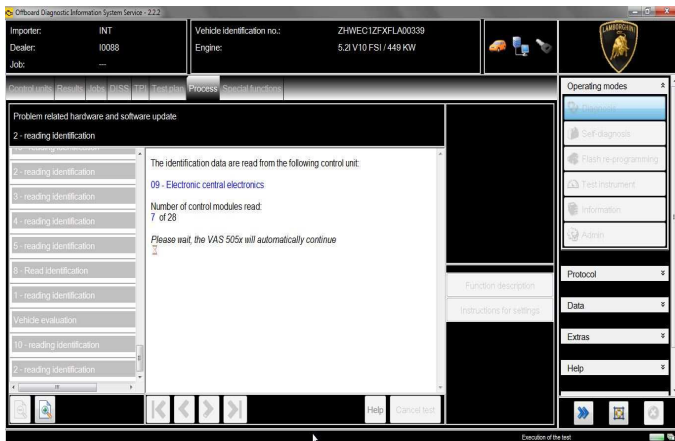
Connect always a battery charger during the SVM function

L624-
A.05.15

To: Official After Sales Network
Subject: AC System software update
Date: 02/20/2015
Pages: 19



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



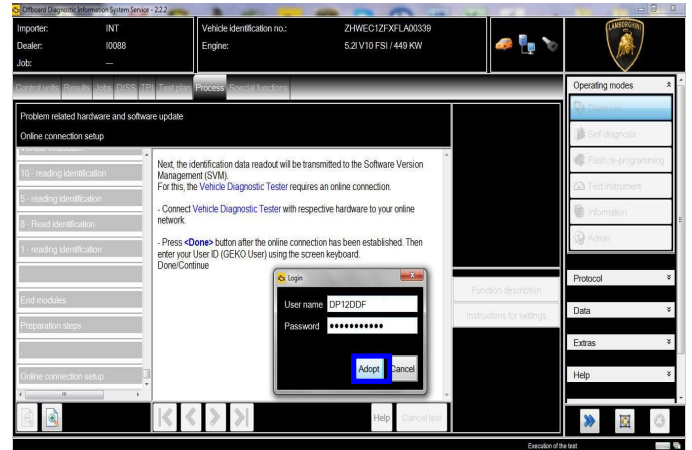
16. For the online authentication a valid GeKo account is necessary.

Be sure that your internet connection is working properly.

Click on “Done/Continue” to access the Login window.

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

Then confirm clicking on “Adopt”.

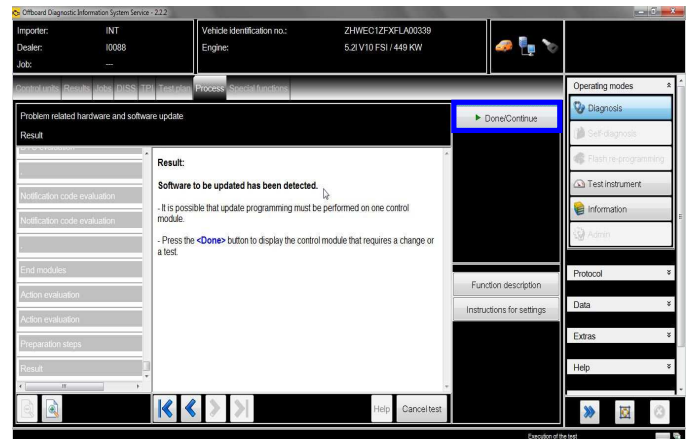


17. The communication is then established with the central server.

At the end of communication you receive following feedback:

“-software to be update has been detected (on 1 control unit).”

Click “Done/Continue”.



18. AC System Software Update

The example in the figure below refer to software part number and version of the Air conditioning control unit Software.

4T0820043A; 0120

Rev.01

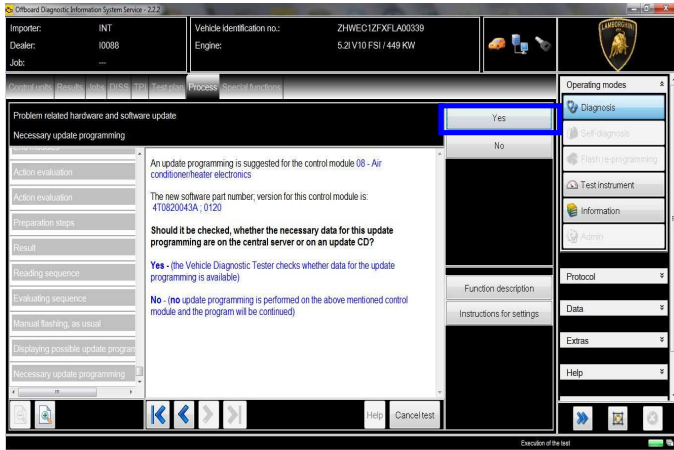
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doc. nr: L/V6_M06 Rev.[02]

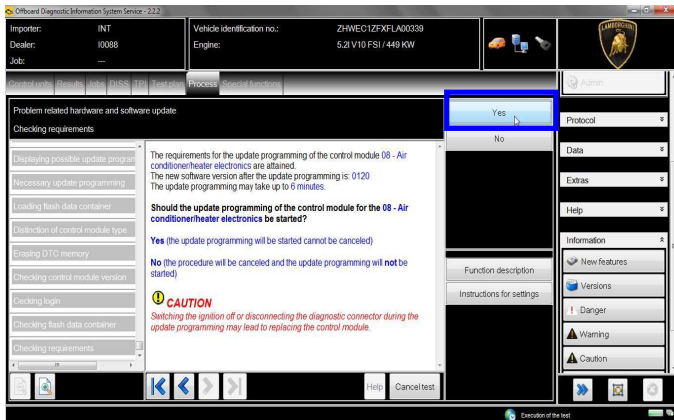
5/19



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



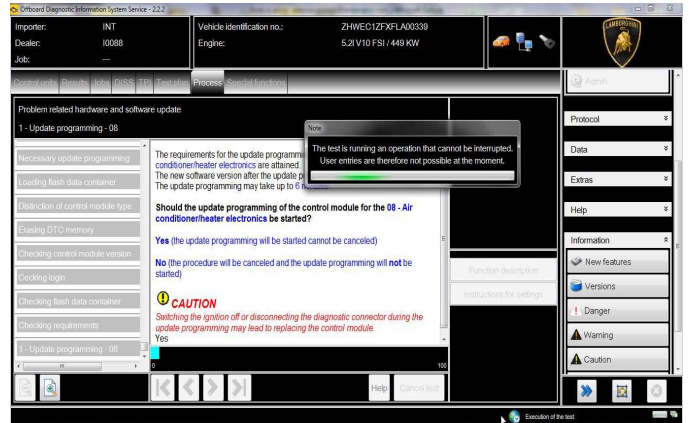
19. Verify the new software data on the AC system ecu and click “Yes” to update.



IMPORTANT

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

20. Wait until the update programming of the Air conditioning system ECU is completed.

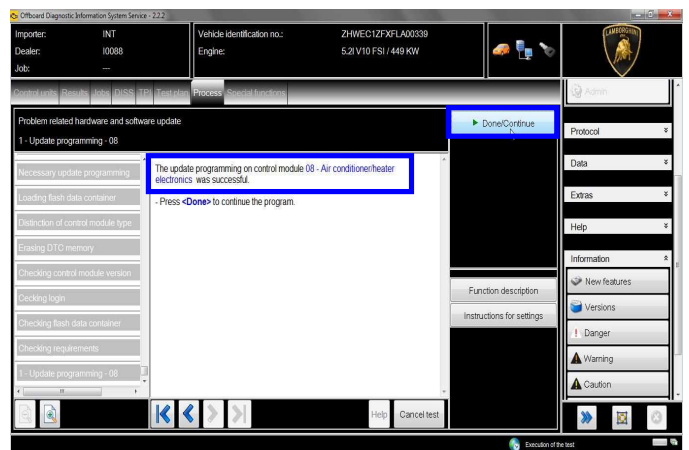


21. Once the update programming has been completed successfully a feedback as in the picture below is displayed.

Click “Done/Continue”.

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

- turn the ignition OFF;
- wait 1 minute before turning the ignition ON again;
- if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step 11.



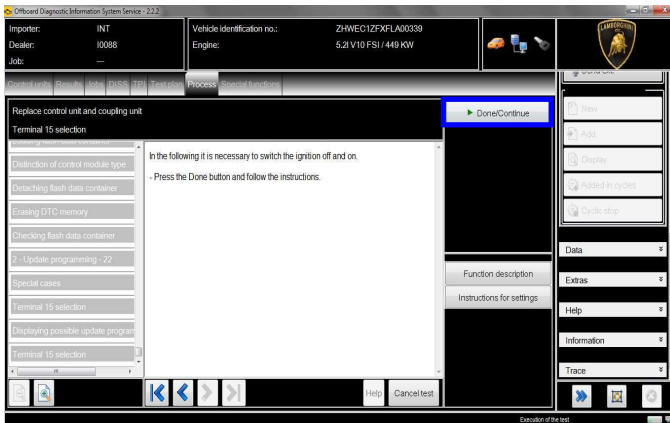
L624-
A.05.15

To: Official After Sales Network
Subject: AC System software update
Date: 02/20/2015
Pages: 19



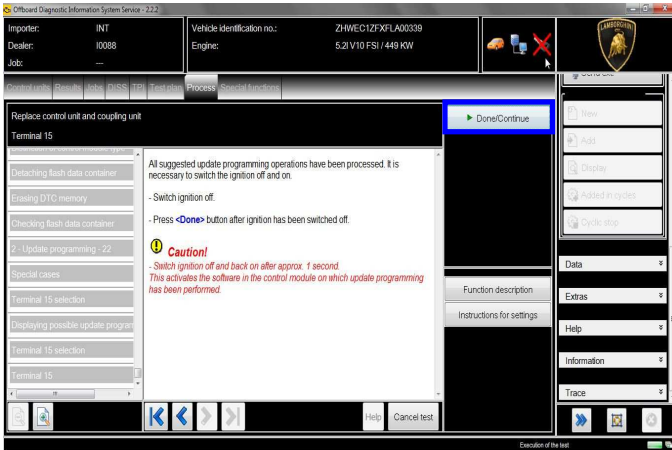
22. In the following an ignition OFF – ON cycle is necessary to restart the ECU.

Press “Done/Continue” to continue.



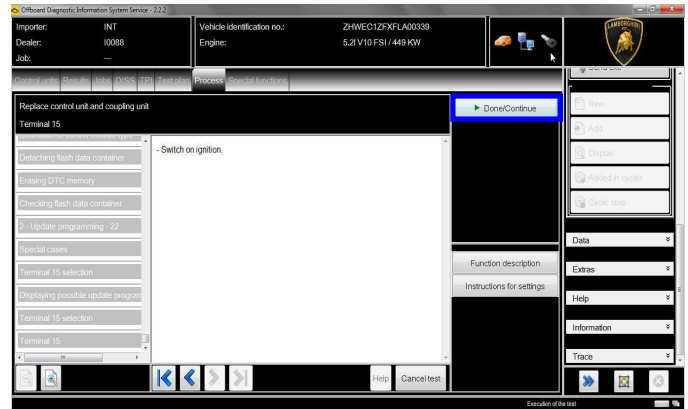
23. Switch the ignition OFF.

Press “Done/Continue”.



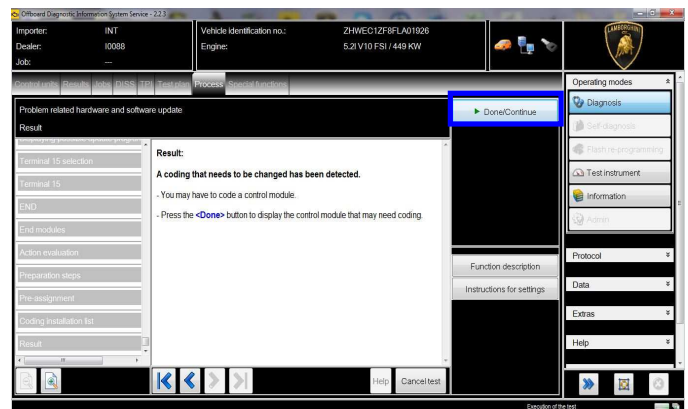
24. Switch the ignition ON.

Press “Done/Continue”.



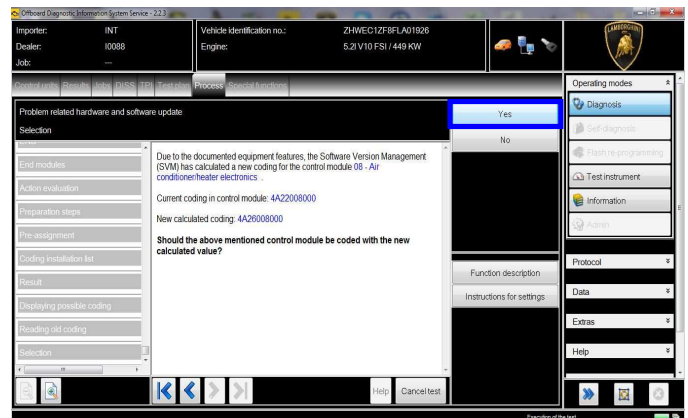
25. New coding has been detected.

Click “Done/Continue”.



26. New coding has been calculated on the 08 – Air conditioning system and must be written in the control unit.

Click “Yes”.



Rev.01

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doc. nr: L/V6_M06 Rev.[02]

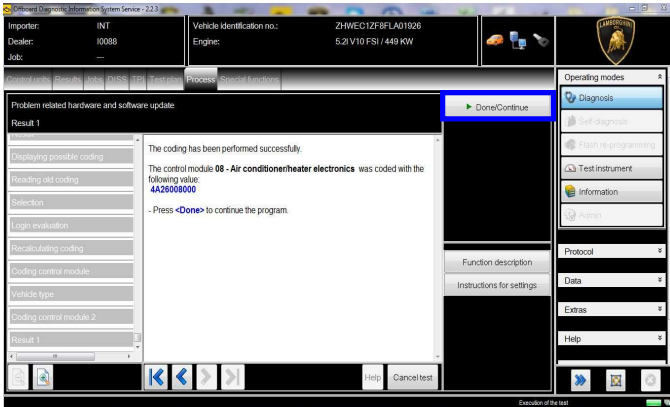
7/19

L624-
A.05.15

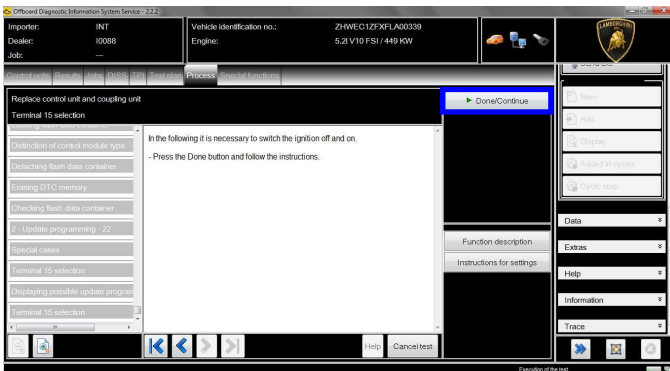
To: Official After Sales Network
Subject: AC System software update
Date: 02/20/2015
Pages: 19



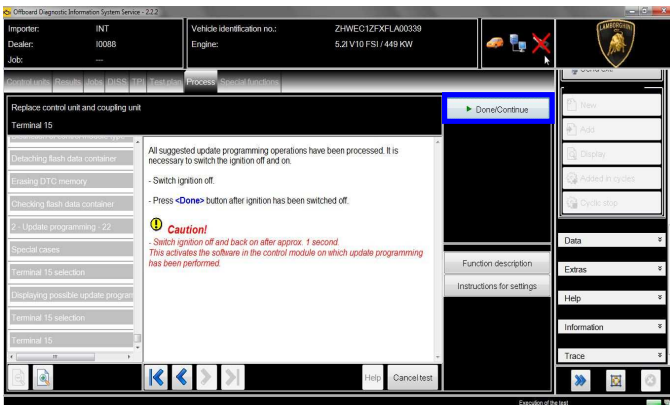
27. At the end of the coding update a feedback is displayed as in the below figure.
Click “Done/Continue”.



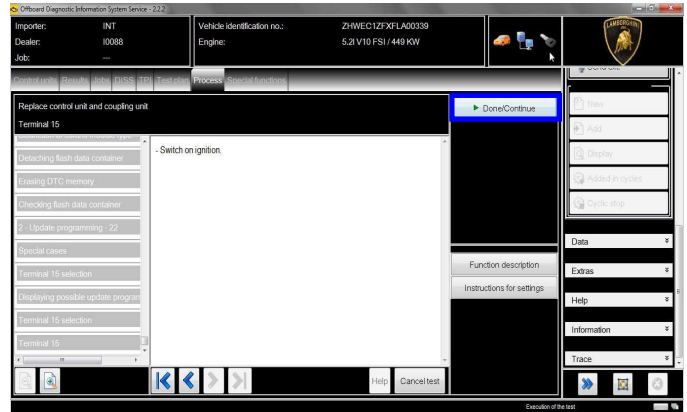
28. In the following an ignition OFF – ON cycle is necessary to restart the ECU.
Press “Done/Continue” to continue.



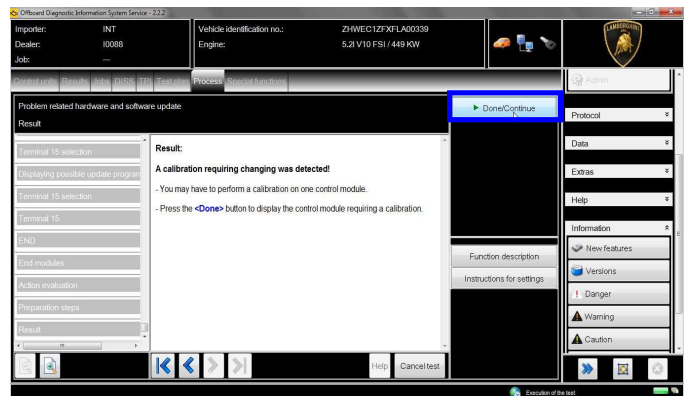
29. Switch the ignition OFF.
Press “Done/Continue”.



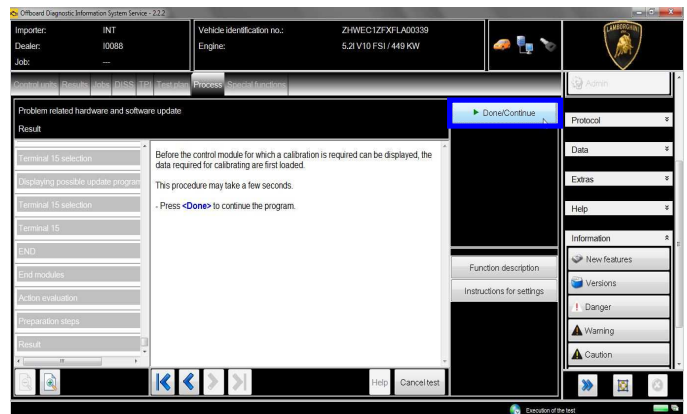
30. Switch the ignition ON.
Press “Done/Continue”.



31. New calibration has been detected.
Click “Done/Continue”



32. Wait few seconds in order to allow the download of all calibrations data.
Click “Done/Continue”.



Rev.01

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doc. nr: L/V6_M06 Rev.[02]

8/19



33. Continue with the calibration of the control unit
08 – Air Conditioner/Klima

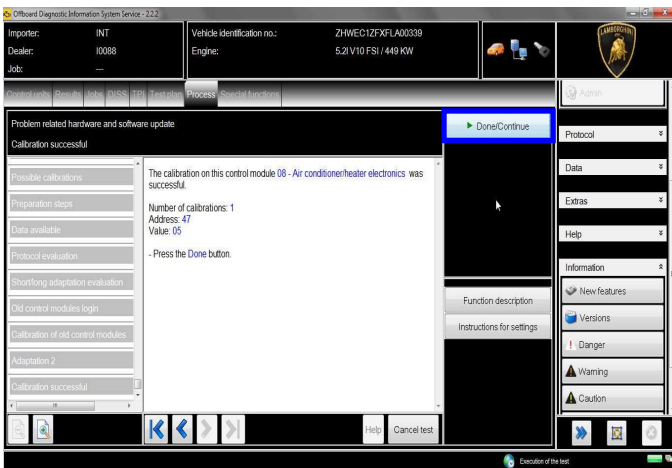
Click “Done/Continue” to continue with the calibration of each parameter.

There is **1** parameter to be calibrated.

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

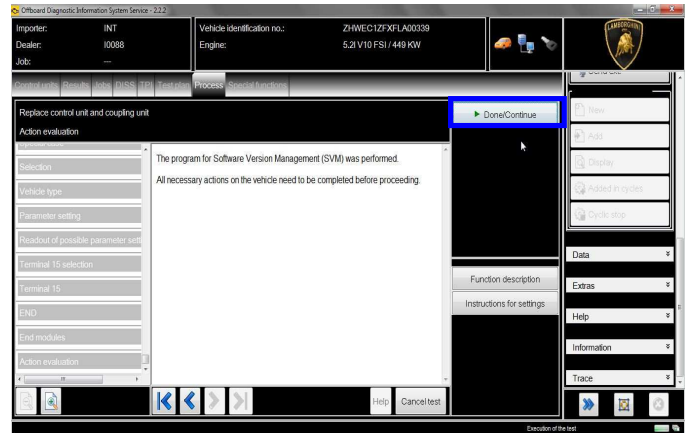
- turn the ignition OFF
- wait 1 minute before turning the ignition ON again

If offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step **31**



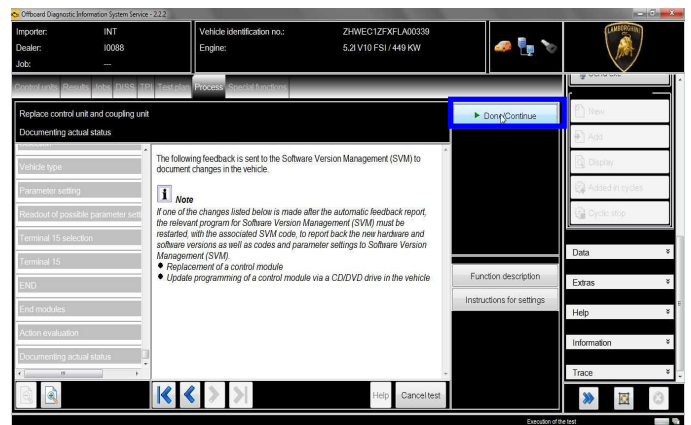
34. Complete the SVM function

Press “Done/Continue”.

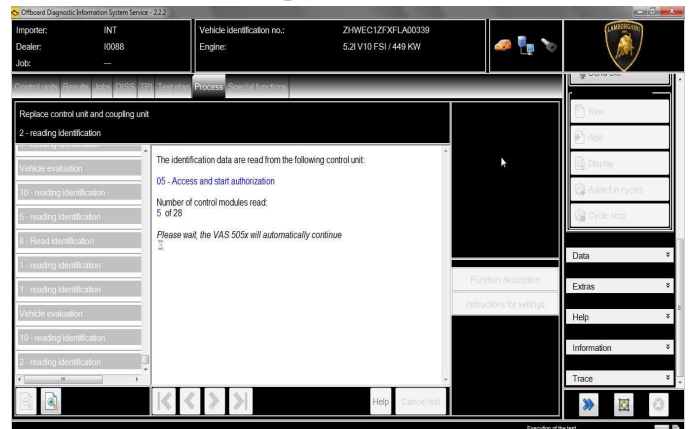


35. SVM can be completed after data acquisition from all ECUs.

Click “Done/Continue”.



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

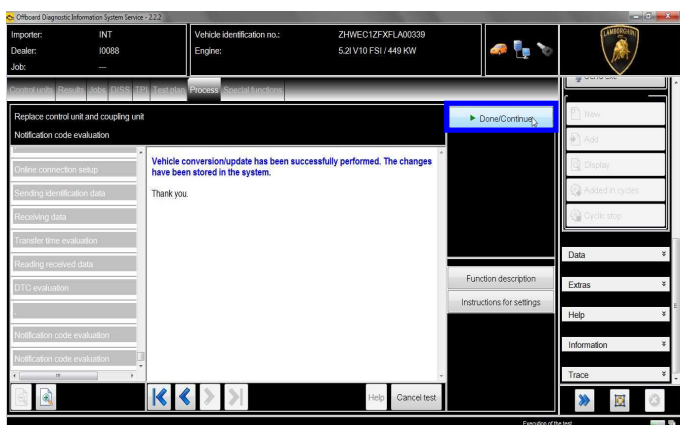




37. Once the data report has been sent to the servers a feedback as in the picture below is displayed.

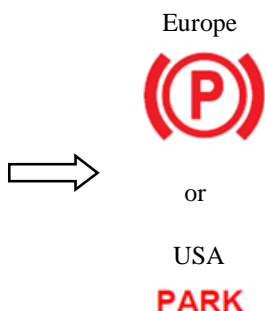
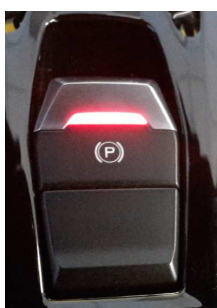
The software update of Air conditioner/Klima Ecu has been completed successfully and all the information have been stored in the system.

Press “Done/Continue” to exit the program.



38. Once finished the update and quitted the software update (SVM) function, bring the car in sleep mode.

Activate the electronic parking brake EPB on the car, in order to display the EPB lamp on the Instrument Cluster.

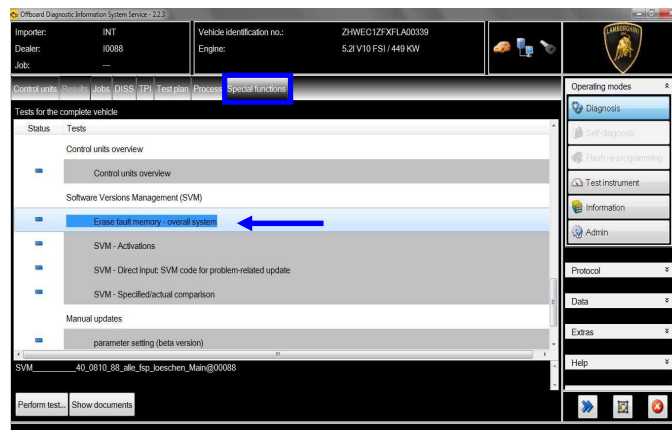


Switch ignition OFF.

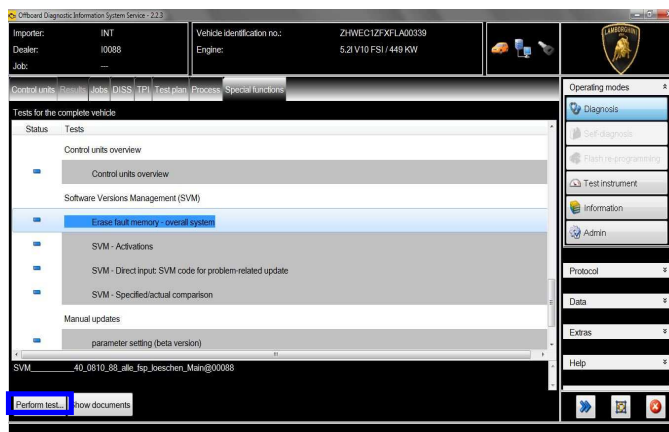
Close all the doors.

Wait about 5 minute, till the switch off of the instrument cluster and to the switch off of the electronic parking brake lamp.

39. Switch ignition ON and in ODIS go back to the tab “Special functions” to select “Erase fault memory – overall system”: it is necessary to clear all the faults stored because of the recent software update.



40. Execute the program “Erase fault memory – overall system” clicking on “Perform test...”

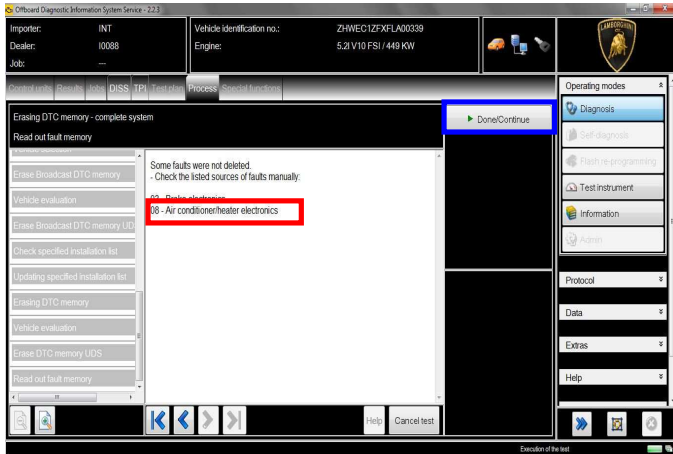


41. Eventual static errors won't be deleted.



IMPORTANT

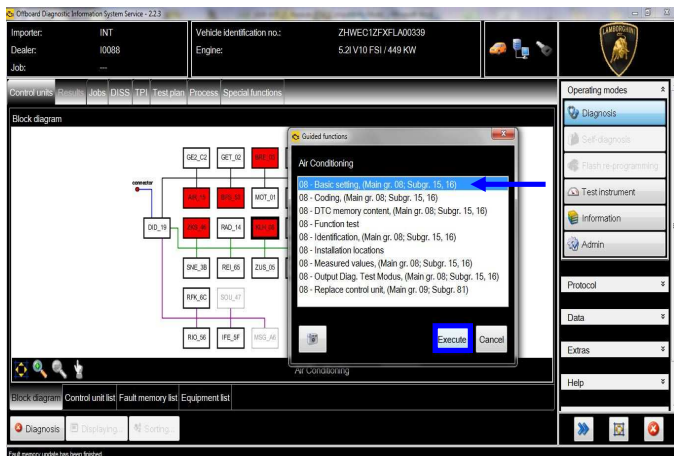
To remove the errors present on the Air Conditioner control unit, Klima Basic Settings have to be performed.



Click “Done/Continue”.

42. Basic Settings ECU 08 – AC System

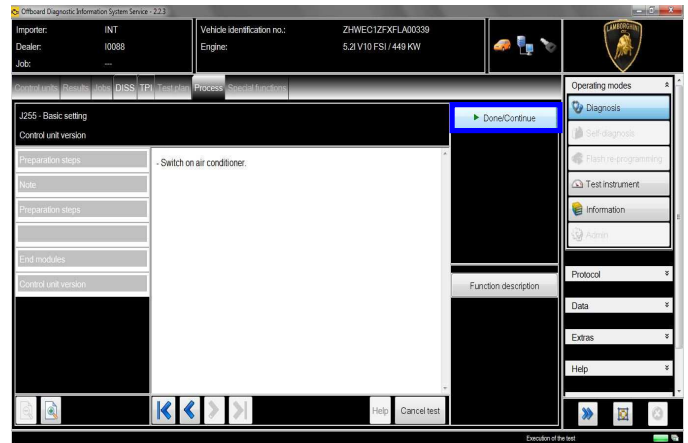
Select 08 – Basic setting to execute the Air Conditioning basic settings.



Click “Execute”.

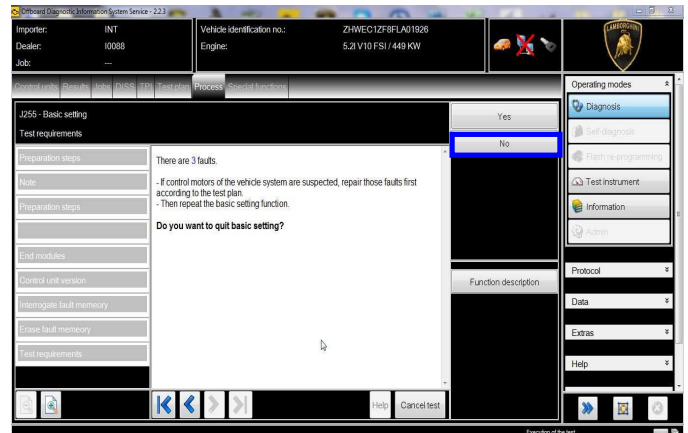
43. Make sure AC System is active, pressing the AC pushbutton top-right on the Air Conditioning panel.

Click “Done/Continue”.



44. In the case there are errors stored in the memory of Air Conditioning ecu, when requested to quit the Basic Settings, answer “No”.

In the case no errors are stored in the memory of Air Conditioning ecu, the tester will go directly to next step 45.



45. Execute the air conditioning basic settings following this order:

Basic setting 4 to perform the auto-addressing of the servomotors

Basic setting 1 to perform the self learning of the positions max and min of the flaps servomotors

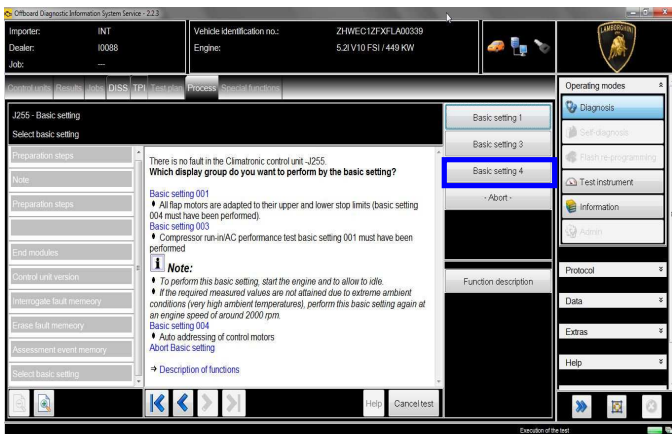
Basic setting 3 to perform the performance test of the A/C compressor

L624-
A.05.15

To: Official After Sales Network
Subject: AC System software update
Date: 02/20/2015
Pages: 19



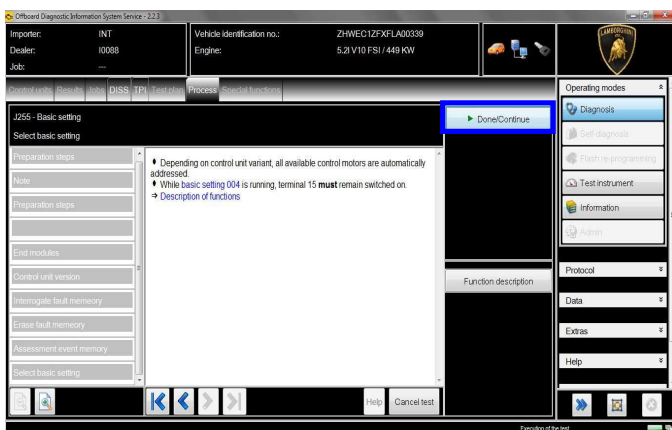
Click “Function description” to read all the informations about these basic settings and about the meaning of the measured values. During the Basic Settings the AC led on the air conditioning ecu panel must flash.



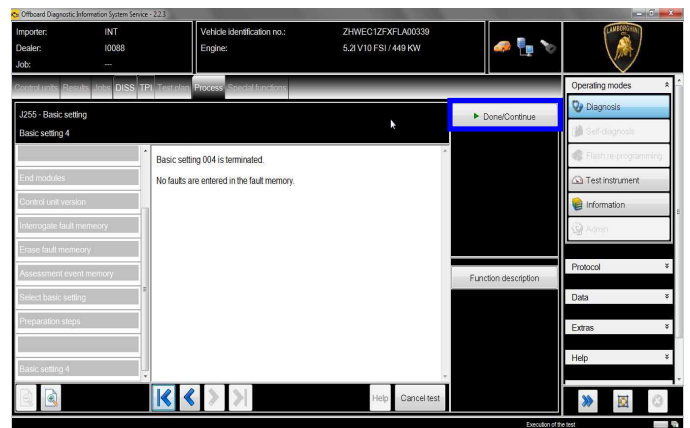
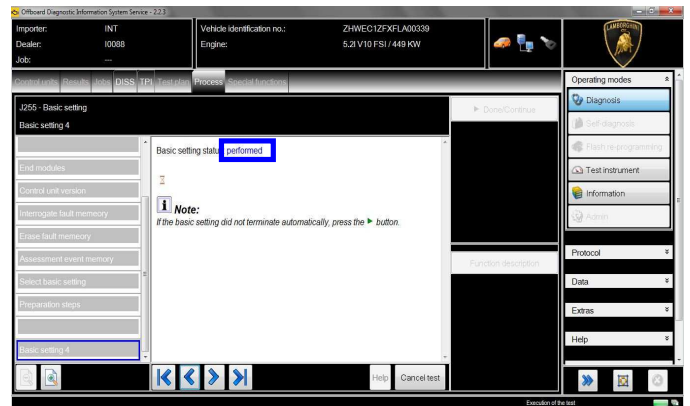
Click “Basic setting 4”

46. Basic setting 4

Make sure to switch ignition ON
Click Done/Continue to execute basic setting.

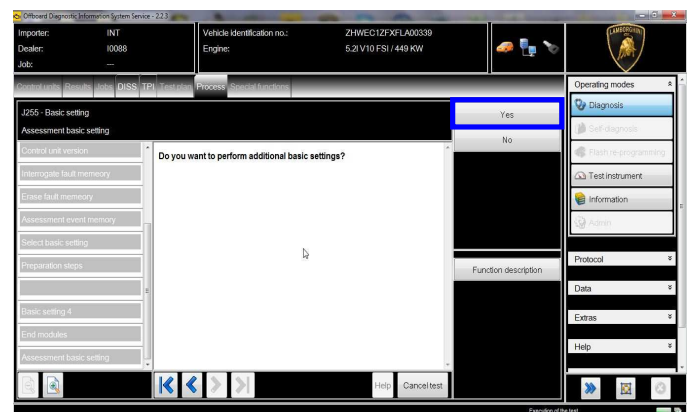


47. Make sure Basic Setting status passed to “performed”



Click “Done/Continue”

48. Click “Yes”



Rev.01

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12/19

doc. nr: L/V6_M06 Rev.[02]

L624-
A.05.15

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Date: 02/20/2015
Pages: 19

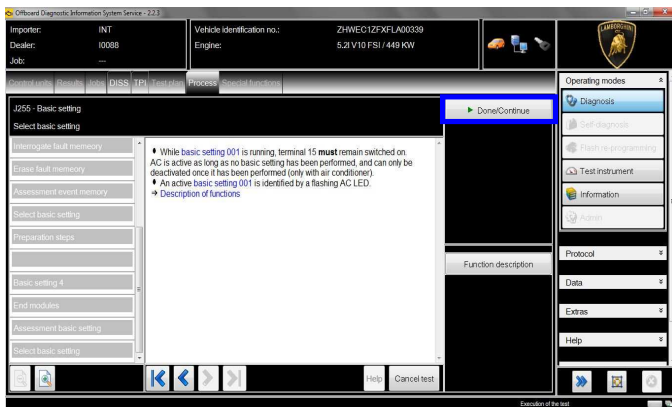


49. Click "Basic setting 1"

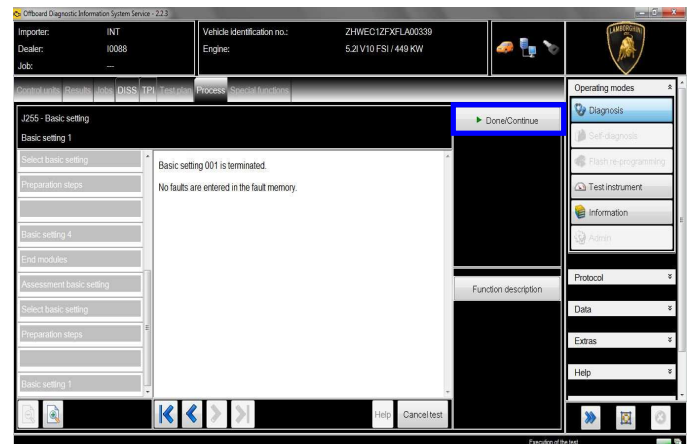
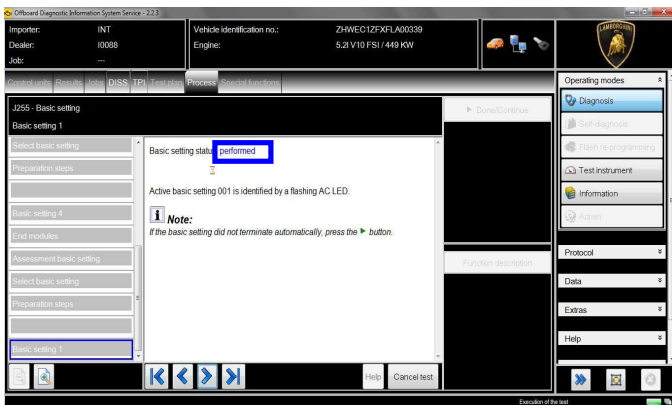


50. Basic setting 1

Make sure to switch ignition ON
Click Done/Continue to execute basic setting.
Note the AC led flashing on the clima panel.

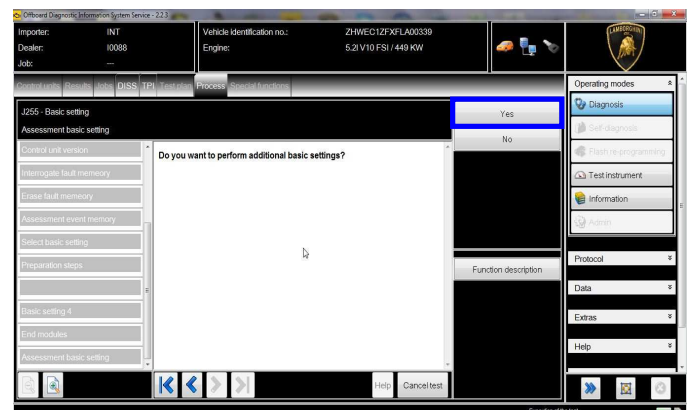


51. Make sure Basic Setting status passed to "performed"

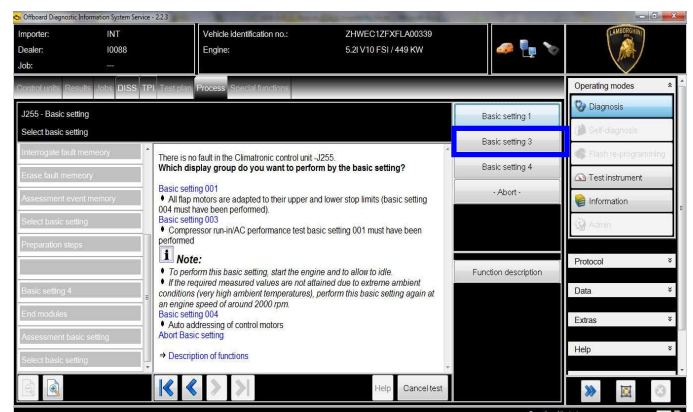


Click "Done/Continue"

52. Click "Yes"



53. Click "Basic setting 3"



Rev.01

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13/19

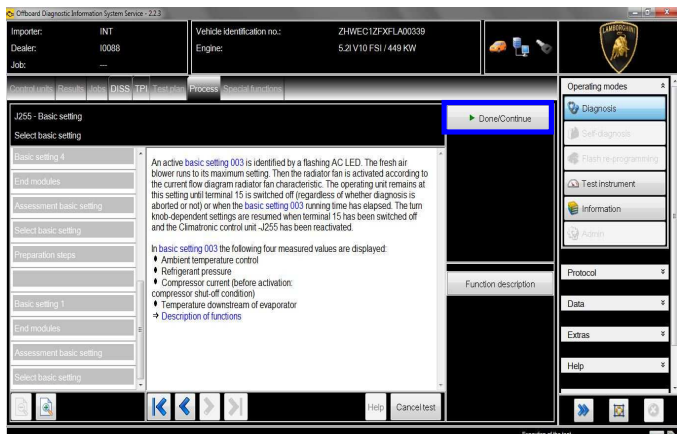
doc. nr: L/V6_M06 Rev.[02]

L624-
A.05.15

To: Official After Sales Network
Subject: AC System software update
Date: 02/20/2015
Pages: 19



54. Basic setting 3



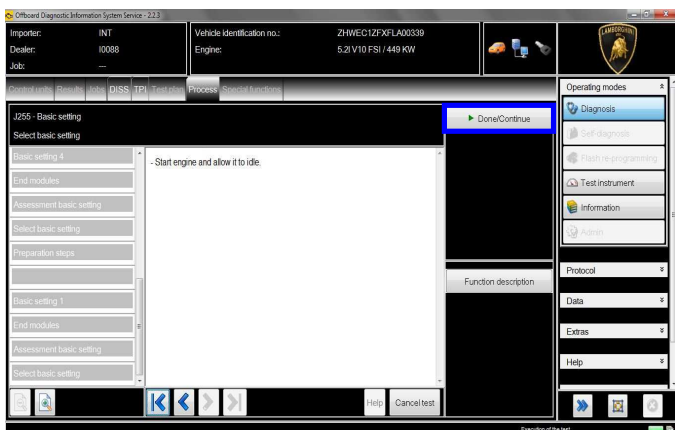
This basic setting has to be performed with engine ON.

During the Basic Settings the AC led on the air conditioning ecu panel must flash.

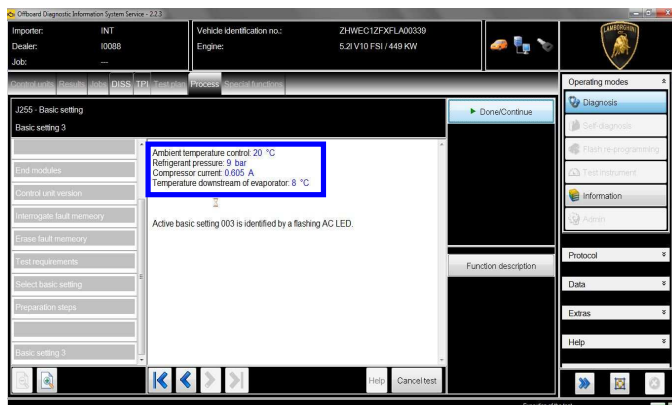
Click Done/Continue to perform the basic setting.

55. Start the engine at idle.

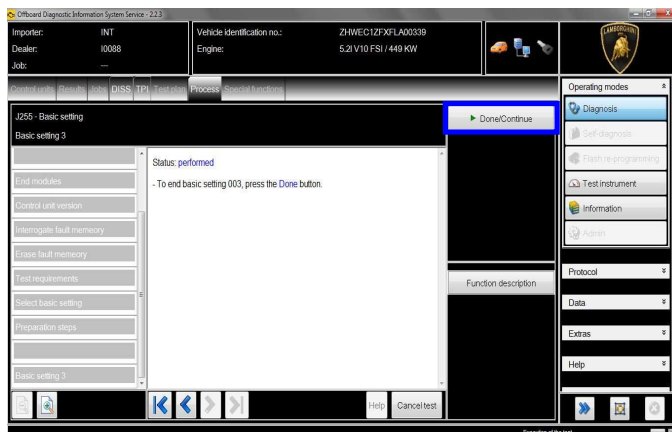
Click "Done/Continue"



56. Check the values of the air conditioning parameters and wait some minutes.



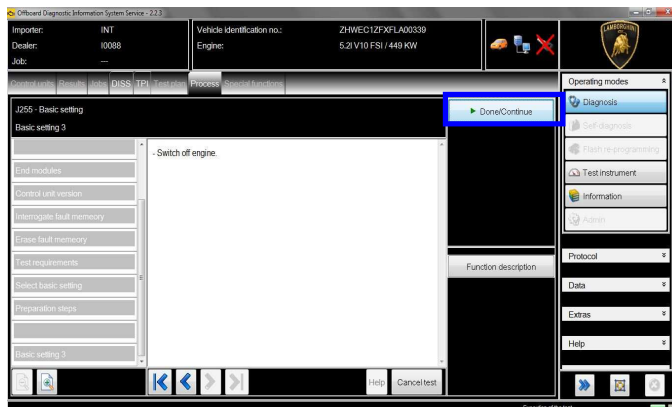
57. Make sure Basic Setting status passed to "performed"



Click "Done/Continue"

58. Switch OFF engine.

Click "Done/Continue"



Rev.01

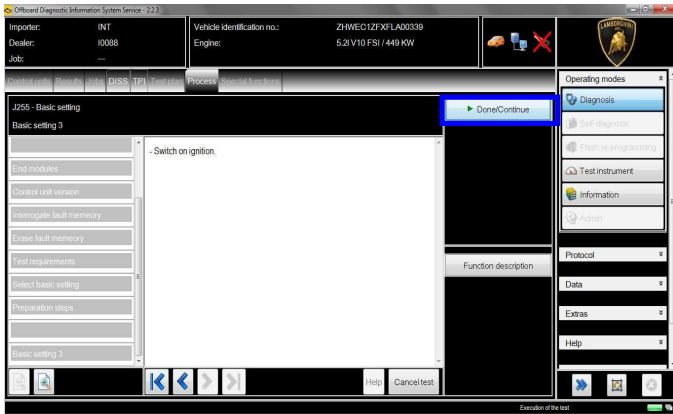
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14/19

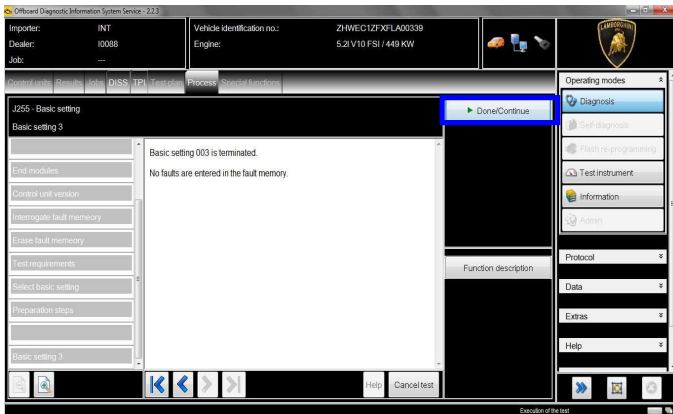
doc. nr: L/V6_M06 Rev.[02]



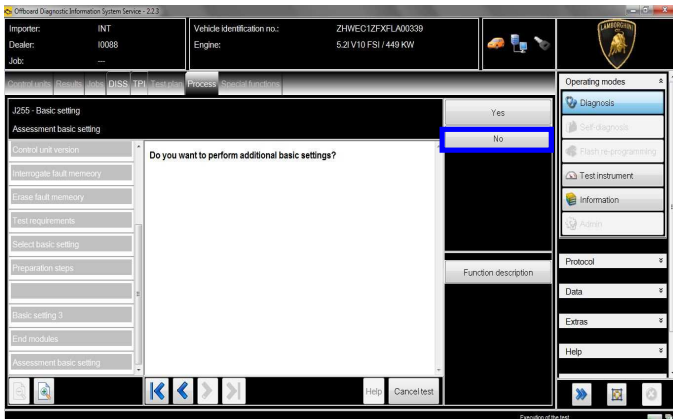
59. Switch ignition ON.
 Click “Done/Continue”



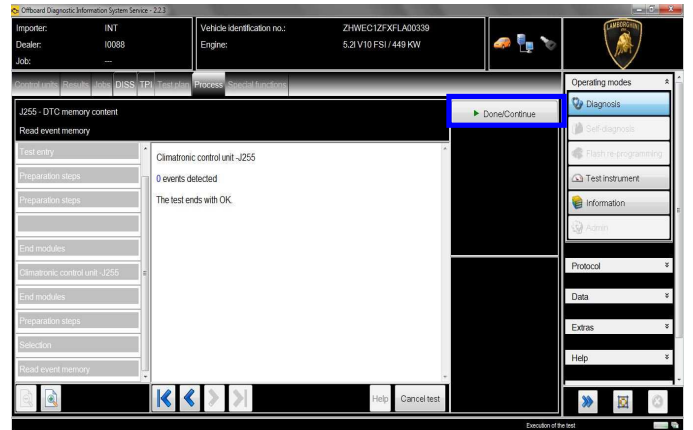
60. Click “Done/Continue” to end the basic setting.



61. Answer “No” to exit the program.



62. Check that all errors are erased on the Air Conditioning control unit. In the case still remain some sporadic errors, erase again.



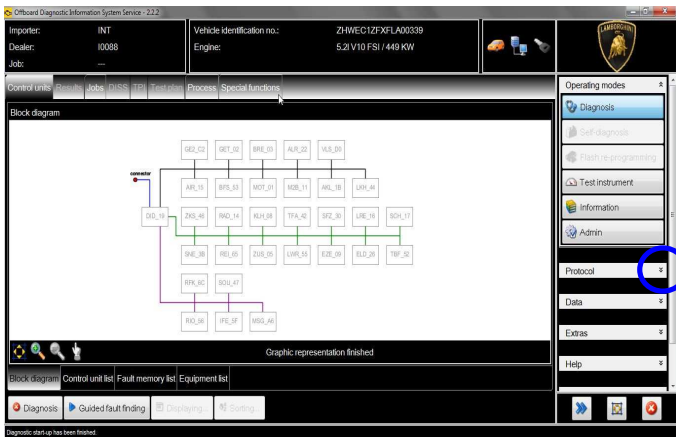
IMPORTANT

In the case still remain static errors at the end of the Air Conditioning software update, and even after having performed the basic settings, restart the procedure from step 38.



Diagnosis Protocol Saving procedure:

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

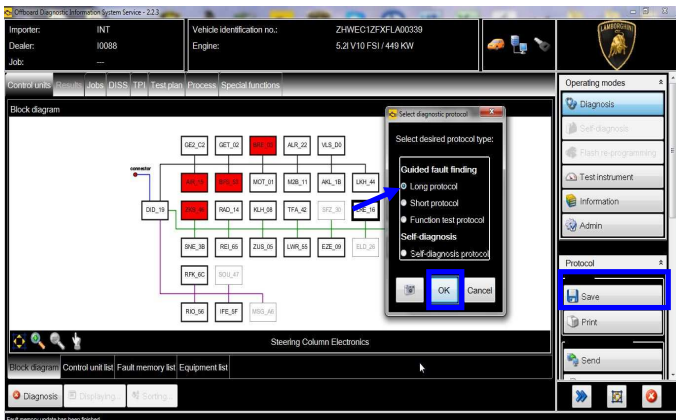


- Click "Save" in the subgroup of buttons "General".

In the diagnosis protocol window under GFF select:

- Long protocol.**

By clicking on it. Then click "OK".



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

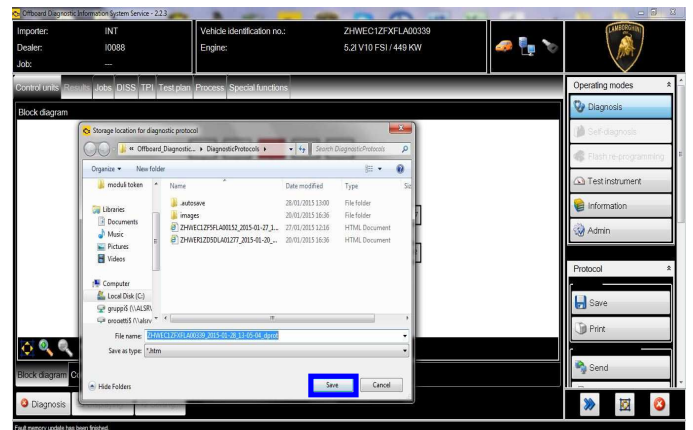
(default path can be changed under Admin and is set under ODIS Service installation folder).

Diagnosis protocol format is internet (.htm).

Click "Save" to save the protocol.



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



- 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).

L624-
A.05.15

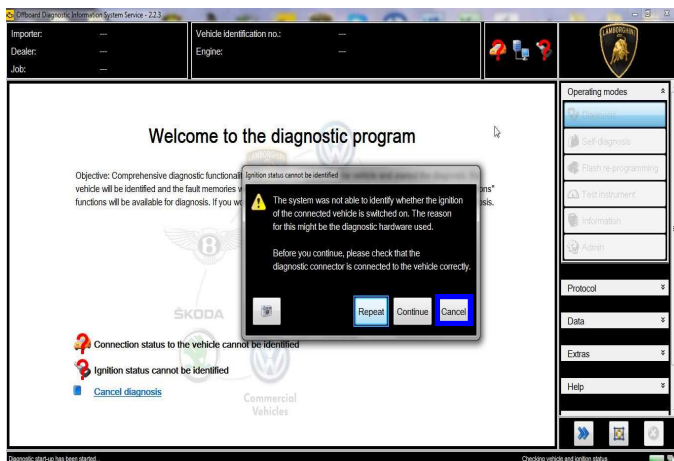
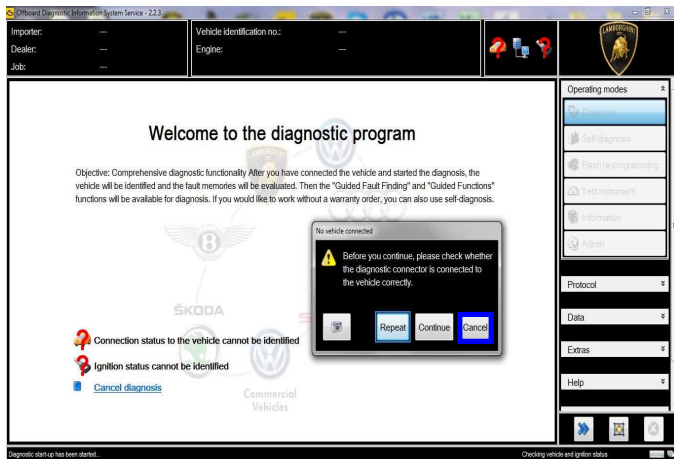
To: **Official After Sales Network**
Subject: **AC System software update**
Date: **02/20/2015**
Pages: **19**



Trouble shooting:

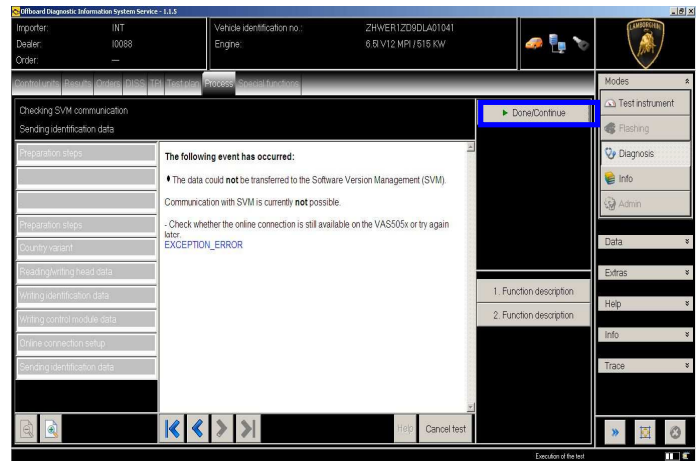
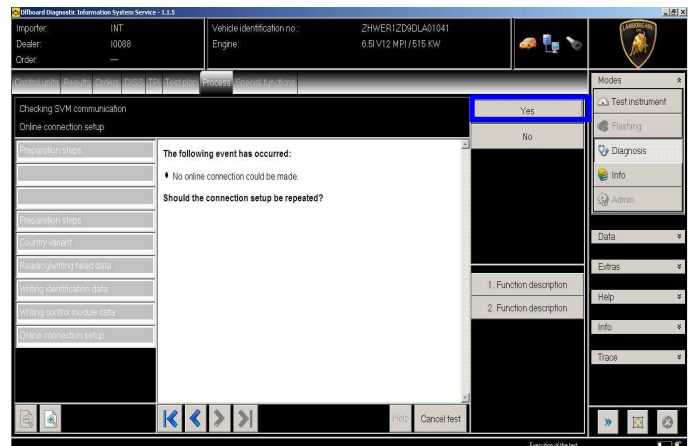
A. If the error message regarding the VAS5054 interface and the 2 icons for status of on board connection and key on are shown as in the picture below:

- Click “Cancel”;
- Repeat the VAS5054 HW interface installation following the procedure (*) “VCI Manager v2.0”, by entering in the menu “Extras” on the right side and clicking on “Diagnostic interface”.



B. If one of the connection errors screens is shown as in the pictures below:

- it is not possible to establish a connection with the central server. Please check carefully that the diagnosis laptop is properly connected to the internet network and retry clicking “Yes” or “Done/Continue”.



C. If the loss of connection happens during the target/actual comparison.

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

Rev.01

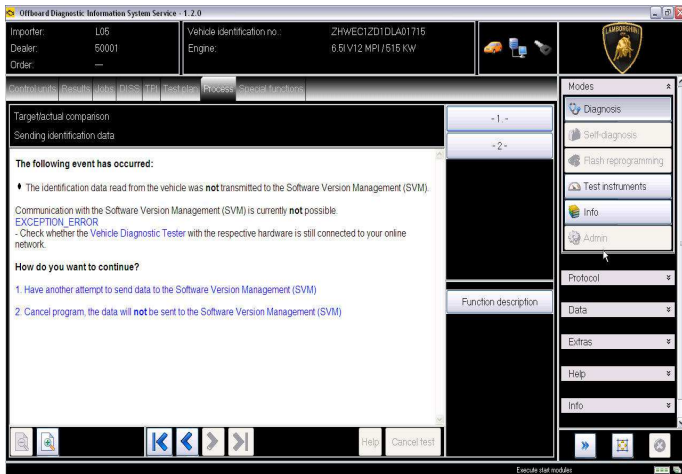
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doc. nr: L/V6_M06 Rev.[02]

17/19

L624-
A.05.15

To: Official After Sales Network
Subject: AC System software update
Date: 02/20/2015
Pages: 19

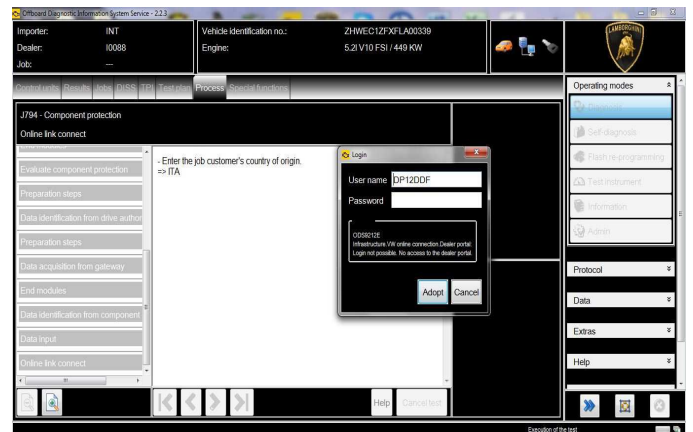


D. If the incorrect identification message is shown as in the picture below (error code: ODS1007E):

- be sure that your Geko account is valid;
- be sure that the label “Geko” is written on the token that you are using for the authentication;
- be sure the Password inserted is correct;
- click on Cancel and perform the application test (see document “ODIS_Checking_ConnectionServer_SVM_2.0” (*)).

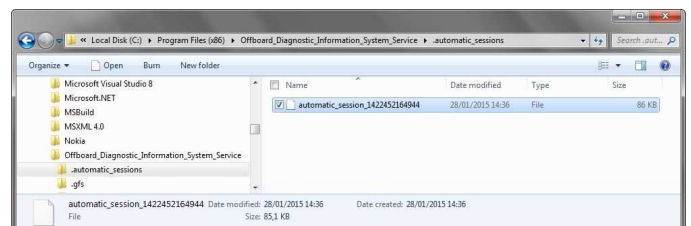
E. If the infrastructure error message is shown as in the picture below (error code: ODS9212E):

- be sure that your Geko account is valid
- be sure that the label “Geko” is written on the token that you are using for the authentication
- verify in ODIS settings you have “Internet” instead of “CPN” (see document “ODIS_Initial_Setup_2.0” (*))
- click on Cancel and perform the application test (see document “ODIS_Checking_ConnectionServer_SVM_2.0” (*))



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

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



Rev.01

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doc. nr: L/V6_M06 Rev.[02]

18/19

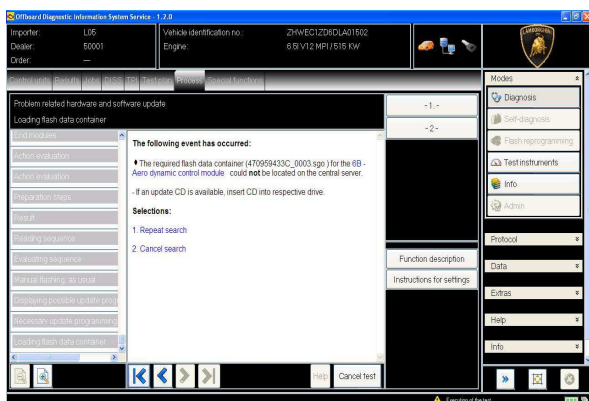


- delete the only file present in that folder
- re-Start ODIS Service under following conditions:
 1. Network connection available;
 2. ODIS connection set on “Internet”;
- Retry the application test and the SVM with your GeKO Token.



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

F. In the case the flash container is not detected (see figure):



- Make sure to be recently synchronized with Mirrorserver by checking the last date of Sync under:
<http://mirrorserver/welcome>
 or under
http://IP_address/welcome
 if you don't have previously defined the “mirrorserver” IP address alias.
- Make sure to be correctly connected with Mirrorserver.

Congratulations

You have successfully installed your MirrorServer2 NOS-Box.

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

Configuration	
Base path	/var/www/desert
Provider URL	https://altair.mirrorserver2.net/deployment
Repository URL	https://altair.mirrorserver2.net/storage
Feedback URL	https://altair.mirrorserver2.net/health
Proxy	http://svc_blackbox?@10.46.187.43:8080
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	26-01-15 at 22:34:06

NOTE:

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



IMPORTANT REMARK:

The documents to be mandatory attached to the claim are:

- Job order done;
- Diagnosis Protocol saved.

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

Your Area Manager is at full disposal for further information.

Best regards

Customer Service