

**Campaign code.**

L734-A.01.18

Subject.Telemetry and CarPlayActivation**Model.**Aventador S Coupè equipped with telemetry system;**Model year.**

2017, 2018

Special or Limited Versions.All;**Markets.**

All.

VIN Identification.From HLA04772 to VIN JLA06883.

Warning: before starting with the repair, log to the Warranty portal and check through VIN Info:

- The vehicle is effectively involved by these bulletin instructions; some cars may not be included even when they are in the VIN range.
- The procedure identified by a letter (e.g. A, B or C....etc. whose differences are explained below in this bulletin), taking care to order and use the parts corresponding to the assigned procedure.

Example

VIN	17 DIGIT VIN	Model	MODEL NAME	Warranty Start Date	DD/MM/YYYY	Warranty End Date	DD/MM/YYYY	
Total days of workshop repairs: 0								
Prior activated CPO list								
CPO	Validity months	Classification	Mileage	Insertion date	Approval date	Start date	Expire date	Claim status
Page 1 of 0 Rows								
Available Campaigns								
Campaign Code	Campaign Type	Procedures	Campaign Description	Campaign Starting Date	PDF	AV		
LXX-A-XXXX	A - Service Action	B	CAMPAIGN NAME	DD/MM/YYYY				

**Note**

Procedure A will be available only when the instructions require to carry out a preliminary control to determine whether or not a vehicle needs to be updated.

Information to the field.

Automobili Lamborghini Spa has released a software that will activate the telemetry and will also update or activate the CarPlay depending on whether it is already working on the car.

Field solution

The instruction herein detailed describes the following procedure:

- B, CarPlay and telemetry activation,
- C, telemetry activation Only.

Spare parts.

Order the following part number which are connected to the operation B.

P/N	Description	Q
470012788QA	manual	1

Replaced parts management.

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

Labour time

- Operation B : 2,1 hours;
- Operation C:0,75

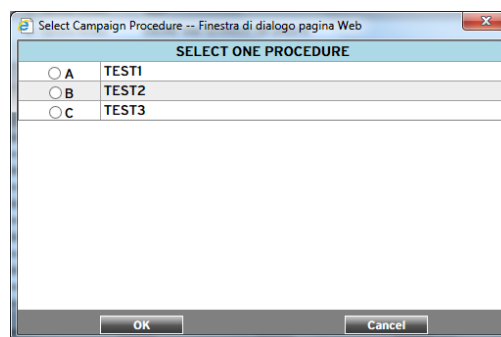
Substituted former Bulletins.

L734-A.07.17.

Warranty Claim instructions

To claim the reimbursement log into the warranty system management on the Lamborghini Portal and consults the manual "W.Claim " available on the portal for the download .

Select the desired campaign and go on with the claim insertion, read carefully the windows message content and choose the option button corresponding to the operation performed .



On the base of the chosen option the reimbursement will be:

- OPTION B, car play and telemtry activation

manpower: 2,1

spare parts: 470012788QA;



- OPTION C, telemtry activation
manpower: 0,75
spare parts: -n/a



ATTENTION!

Attach all documents produced during the vehicle visit that show evidence of the work performed such as repair order, software protocols or acquisitions...etc.; the lack of one or more of those, may deny the reimbursement.

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
n/a		



IMPORTANTE:

Before you follow the instructions in this service campaign, you need to install the SD-Creator program. The instructions for installing SD Creator are contained in the bulletin: "[BI.09.17 \[ENG\] SD-Creator installation package procedures](#)".

Preliminary operations:

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

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

or directly insterting your Btac-box IP address:

[http://\[IP_address\]/maintenance/diagnosis.py](http://[IP_address]/maintenance/diagnosis.py)

if you have not previously set up the mirror-server IP alias.

(e.g. <http://12.34.567.890/maintenance/diagnosis.py>)



IMPORTANT

Make sure the last synchronization has been done after the 12th of September 2017.

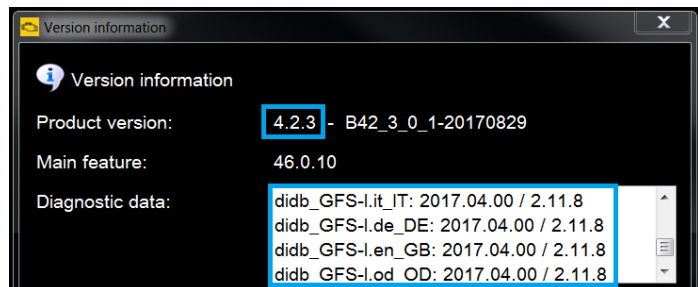
MS/2 Diagnosis

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	9
Failed package downloads	0
Last Sync	17/09/12 19:01:53
Start tests	

Work instructions



The instructions contained in this bulletin are based on ODIS Service diagnosis software updated to release 4.2.3 (or following) and database Lamborghini 2.11.8 (please refer to BI.07.15 and be sure that ODIS service on your laptop is up-to-date)



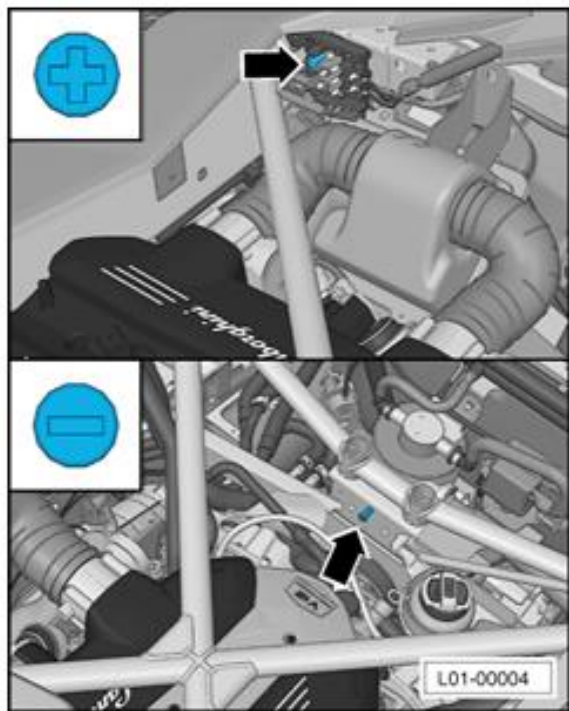
IMPORTANT

Instrument cluster ECU might need updating. In this case it is necessary to take note of distance and days to next service, shown in the instrument cluster menu. (e.g. 3400 km and 200 days)



Updating Procedure:

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





MMI Update

3. The following table contains the various software versions and control units and USB-sticks/ SD cards related part numbers.

You can verify the ECU part Number of the MMI through Odis Service. (5F_MMI - Guided Function – Identification).

ECU P/N	SW Pre update	SW Post update	SD card P/N	USB key P/N
470.035.662.E	0338	0343	61653000940	61653000945
470.035.664.E	0213	0219	61653000943	61653000945
470.035.666.E	0212	0218	61653000939	61653000945
470.035.678.E	0238	0243	61653000941	61653000945
470.035.754.G	0212	0218	61653000939	61653000945
470.035.756.A	0215	0220	61653000942	61653000945
470.035.774.B	0538	0543	61653000944	61653000945

For example, in order to update the software of the MMI ECU with part number 470.035.662.E, make sure that the SD card part number is 61653000940.



IMPORTANT

Below are listed all MMI software versions that do not need to be updated.

If your software version of the MMI already coincides with the “software column” you do not need to update it. So skip to step 18.

ECU P/N	Software
470.035.662.F	0343
470.035.664.F	0219
470.035.666.F	0218
470.035.678.F	0243
470.035.754.G	0218
470.035.756.B	0220
470.035.774.V	0543

4. Access into update menu with the SETUP + RETURN key combination.



5. When you enter the update menu you will see the version of the software currently installed on the control unit.

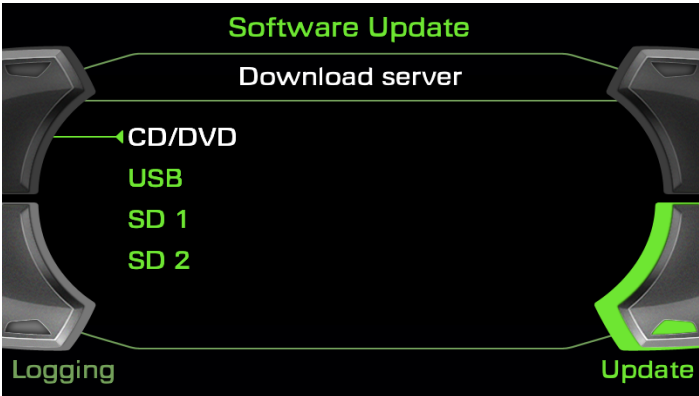


Note:

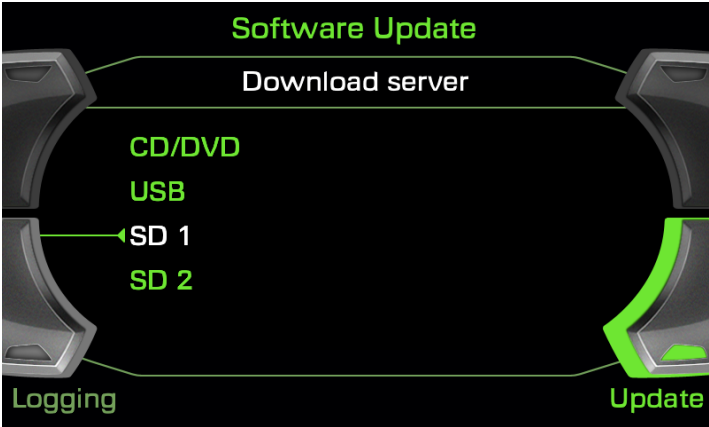
The software version shown below is an example. Values may differ depending on the vehicle market.



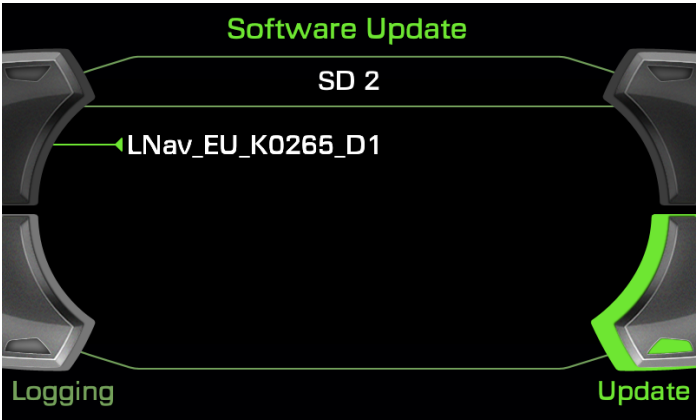
6. Click on “Update” section using the corresponding button.



7. Insert the SD card containing the software to be updated into one of the two SD slots. Then, you shall select the support (SD 1 or SD 2) where you have inserted the SD card.



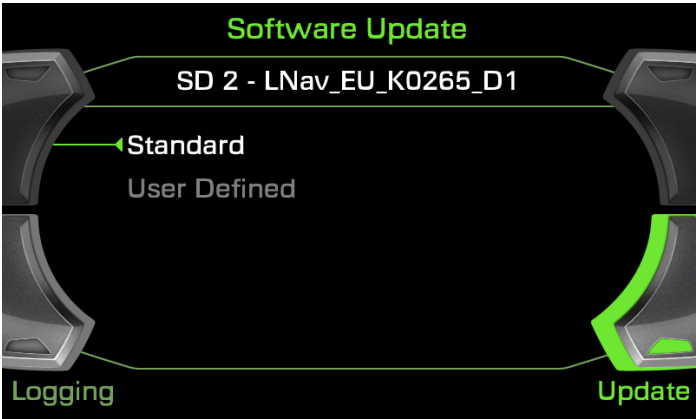
8. The name of the software to be installed is shown. Press the Main Knob selecting the software to update.



Note:

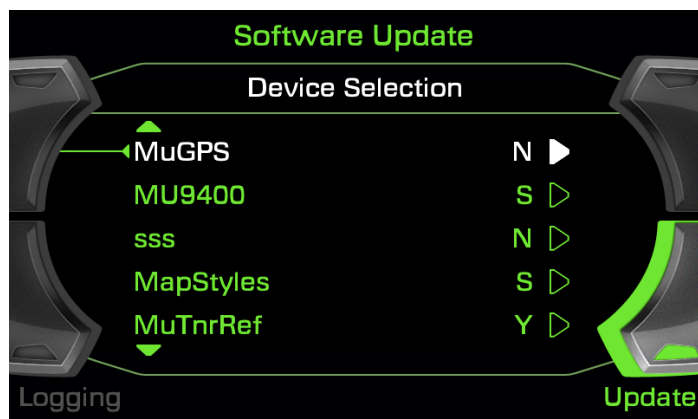
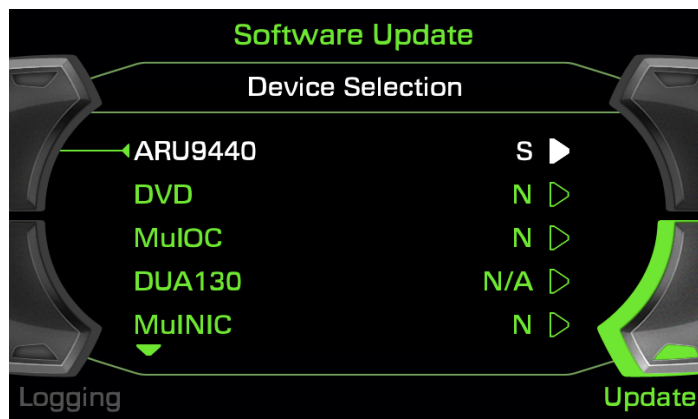
The software name shown “LNAV_EU_K0265_D1”, is an example. Name may differ depending on the vehicle market.

9. Select “Standard” using the Main Knob.





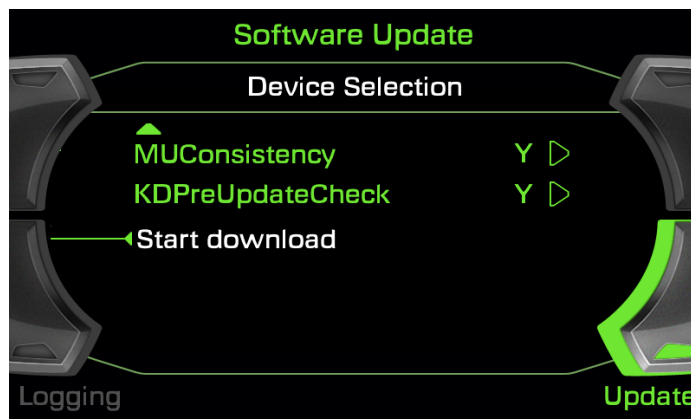
10. At this point, you will see a list of components that may be updated.
Those followed by letter S or letter Y will be updated.
Those followed by letter N will not be updated
Those followed by N/A cannot be upgraded.



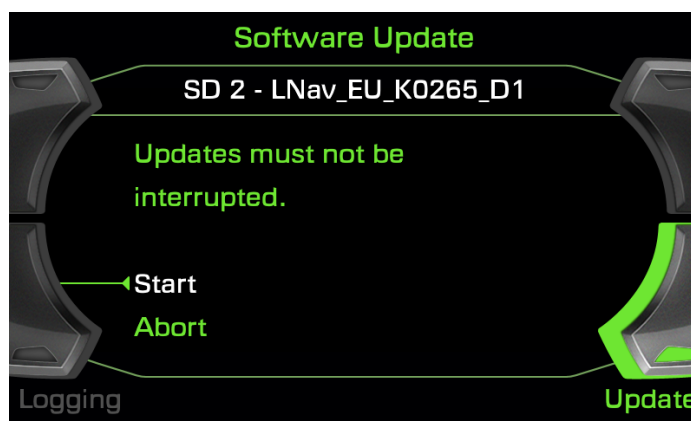
IMPORTANT:

Do not change the default settings of this list.

11. Scroll down rotating the main knob to "Start download" and press the center button.



12. Select "Start".



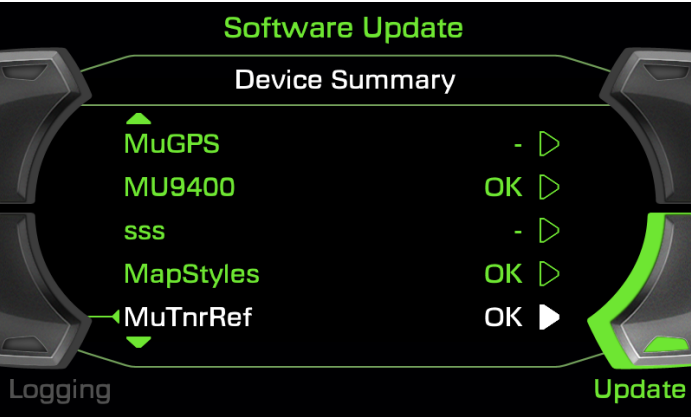
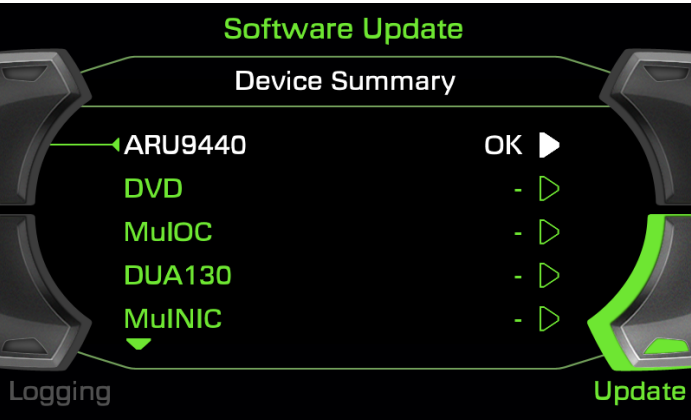
At this point, MMI restarts and then software update starts automatically.



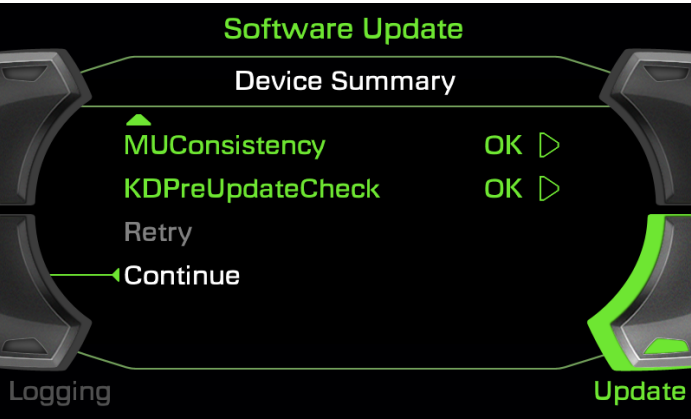
IMPORTANT:

MMI software update is an operation that takes several minutes. Make sure the car is connected to a battery charger and that the update is not interrupted.

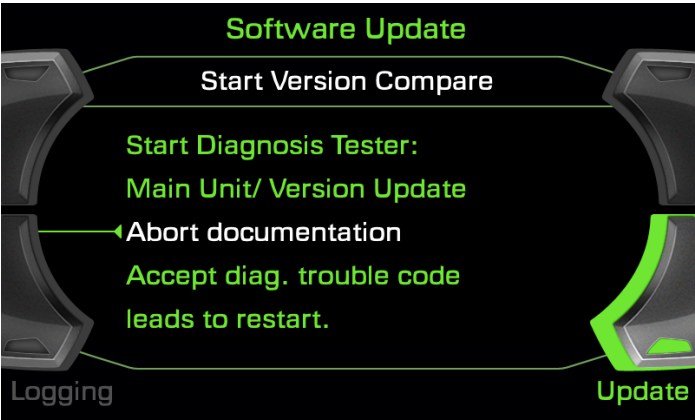
13. After MMI restarts, all updated items are followed by an "Ok".



14. Scroll down the Main Knob and select "Continue" .



15. Select "Abort Documentation".



16. MMI automatically restarts.

17. By re-entering the Engineering Menu you can check that the software has been updated correctly.





18. Once MMI software update procedure has been completed, start ODIS service and complete the preliminary operations as described in chapter **10.00.ODIS preliminary operations**.



IMPORTANT:

Please correctly identify the vehicle selecting the right Variant (Coupè) and Engine Type (544 kW - Aventador S).

Leave the checkbox “Using guided fault finding” marked.

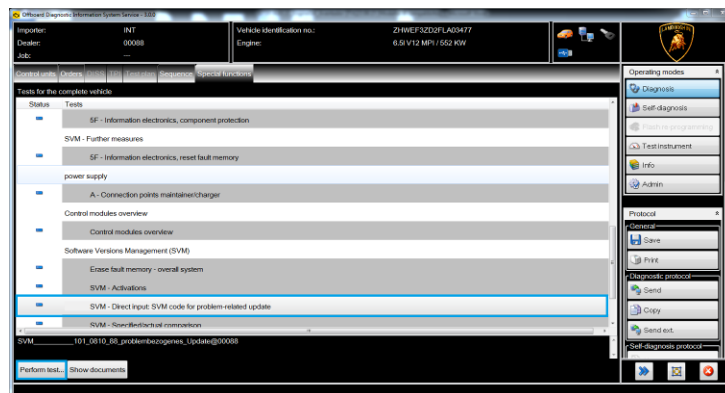
Kombi Update

19. Move on the ODIS tab “special functions”.



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

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

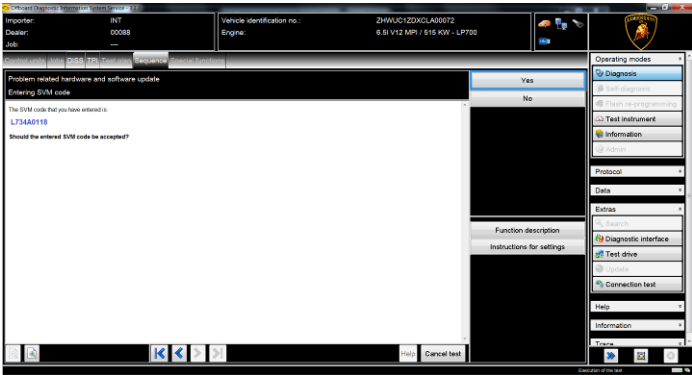


21. Insert in the upper box with the cursor the code:
L734A0118

Click “Adopt”.



22. Click “Yes” to confirm the code inserted is correct and follow the instructions.



The complete guide in order to perform an SVM code is available in the workshop manual, chapter **10.00.Running an SVM code.**

Please note that an Instrument Cluster software update might be necessary. This is a quite delicate and long operation: be sure that ODIS service is the only application running on the diagnosis laptop.

After ECU update, **Coding** and **Calibration** operations could be needed.



IMPORTANT

Always keep a battery charger connected during the SVM function.



TSU Update

The software update version will depend on the version of the software currently present on the TSU; in one case, you can perform a direct upgrade, and in the other you will need to perform an intermediate update. Below are the possible software update solutions in accordance with the currently available version.

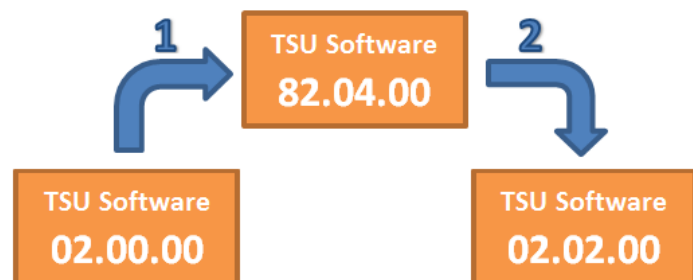
Direct Update (Single Step):

Step	Current Vers. Sw	Update Ver. Sw
1°	99.xx.xx (e.g: 99.09.03)	02.02.00



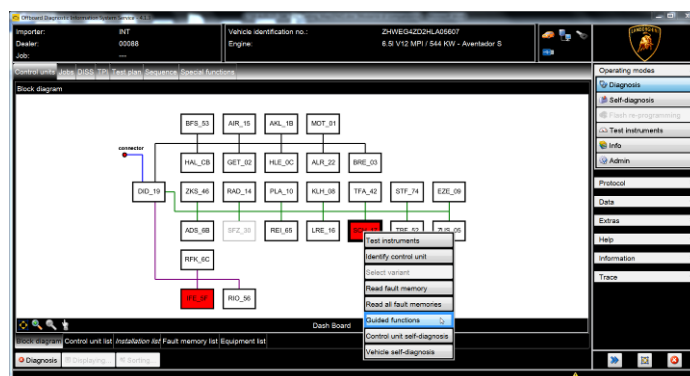
Intermediate update (Two Flash Steps):

Step	Current Vers. Sw	Update Ver. Sw
1°	02.00.00	82.04.00
2°	82.04.00	02.02.00

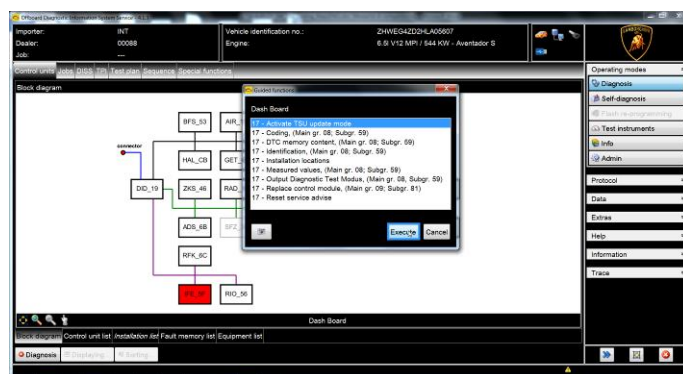


Therefore, you have to check the software version that is present on the TSU.

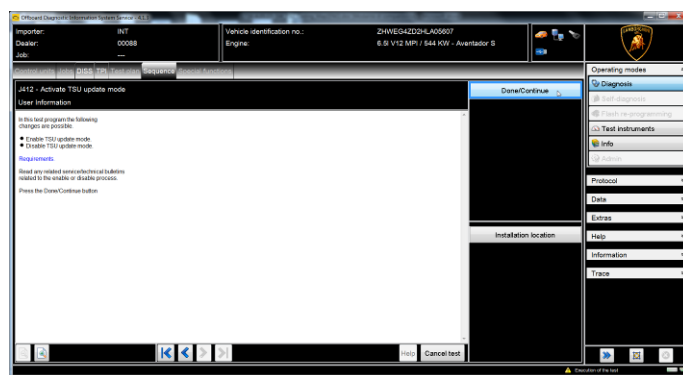
23. Right click on dashboard ECU (SCH_17) and select “Guided Functions”.



24. Select “17_Activate TSU Update Mode”.

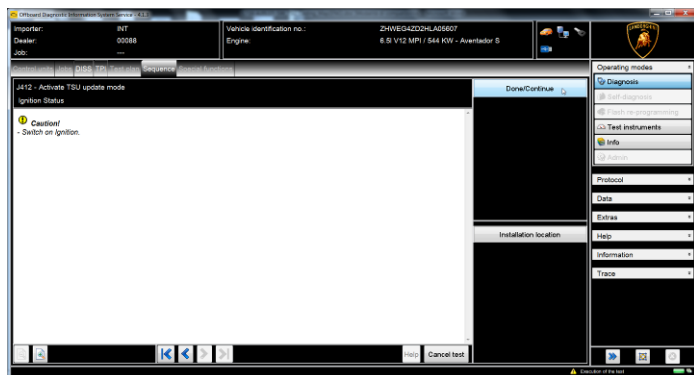


25. Click “Done / Continue”.

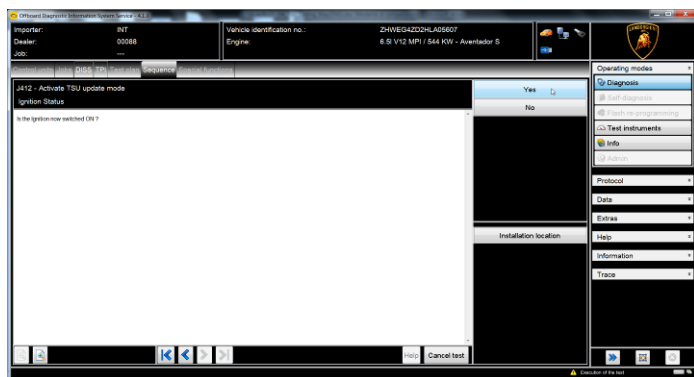




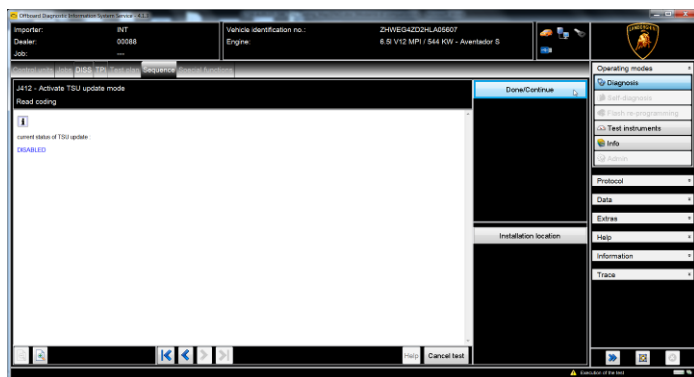
26. Click “Done / Continue”.



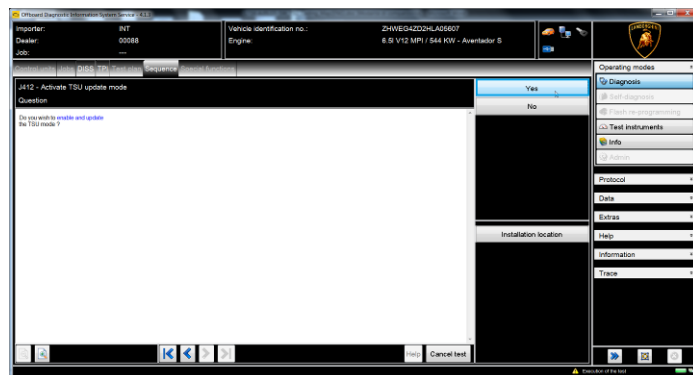
27. Click “Yes”.



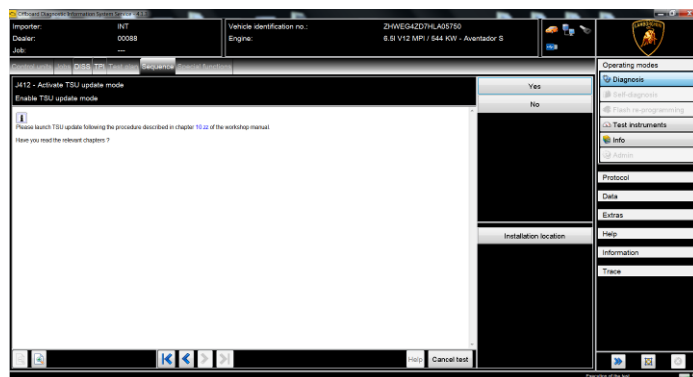
28. Click “Done / Continue”.



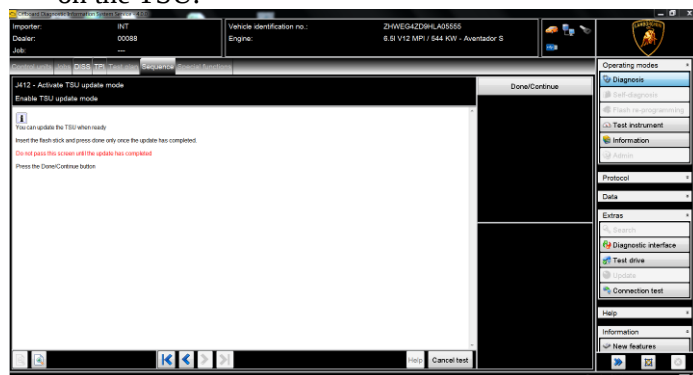
29. Click “Yes” in order to enable TSU Update Mode.



30. Click “Yes”.



31. At this point, before you insert the USB stick into the appropriate slot, you must check the software version on the TSU.



IMPORTANT:

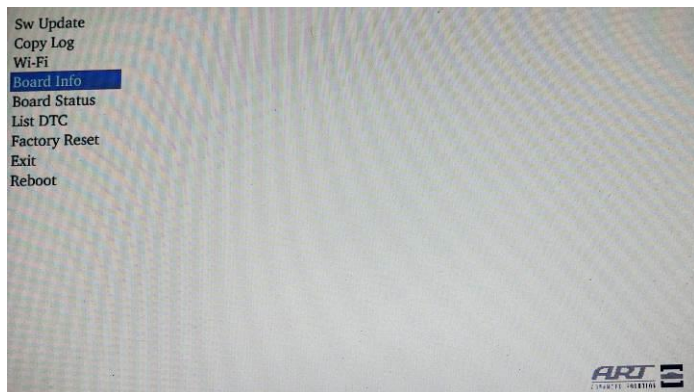
Keep the diagnostic Interface connected to the OBD socket and do not close ODIS Service program. Once the software update has been executed is necessary complete ODIS operation.



32. From this point continue the procedure using the buttons in the central tunnel. Enter into "TSU Engineering Menu" pressing simultaneously CAR + NAV buttons.



33. On the MMI screen will be shown the following page. Select "Board Info", using the main knob, checking the TSU software version.

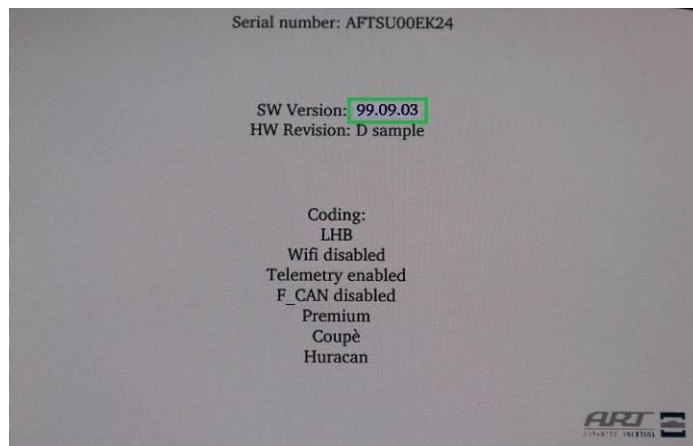


IMPORTANT

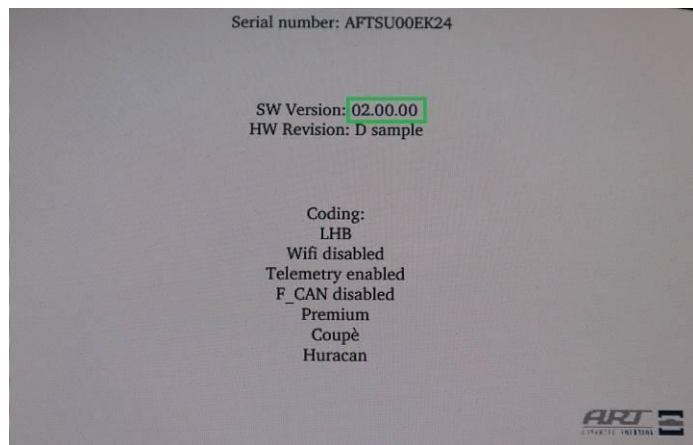
DO NOT select "Reboot" and "Factory Reset". These two options might result in the system failure.

34. If the TSU current version is 99.xx.xx (e.g.99.09.03) you can execute the "Direct Update".

Please skip to step 48.



35. If the TSU current version is 02.00.00 you shall perform an intermediate update, it means you have to flash twice the TSU.

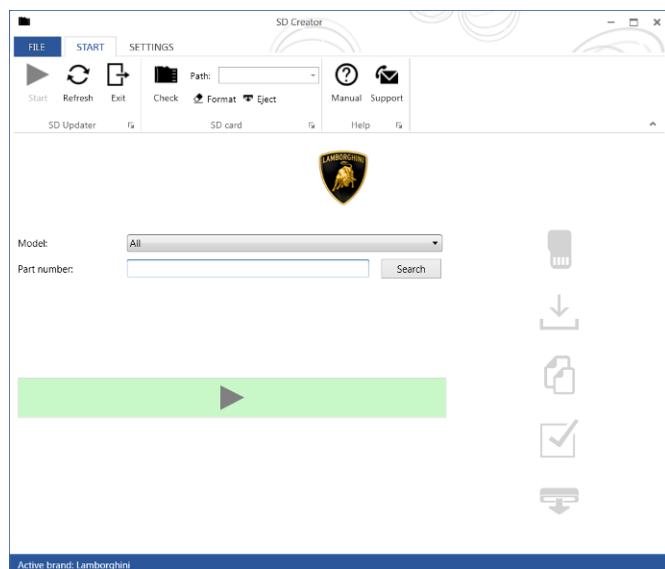




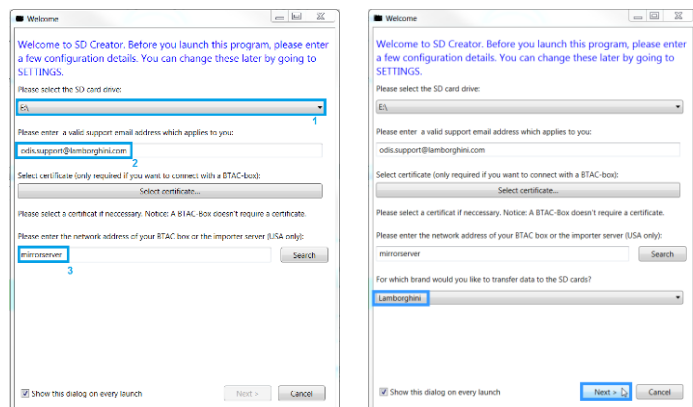
SD-Creator:

36. On your laptop, open SD-Creator by a double click on the program icon.

We remind you that you need a USB stick to download the TSU software.



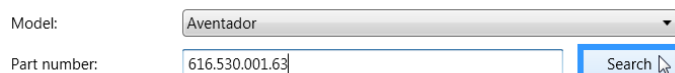
37. When the program starts, fill in the Windows screen fields as explained in the [“BI-09.17 \[ENG\] SD-Creator installation package procedures”](#)



38. In the main page of SD-Creator you shall fill out the Model and Part Number fields

- I. Select the Model, (Aventador)
- II. Insert the Part Number 616.530.011.63

Through this Part Number, TSU software version 82.04.00 will be downloaded. Then, click “Search”.



39. If the entered part number is correct, clicking the search button, the model name and the required size of the USB stick to generate the software will be shown.



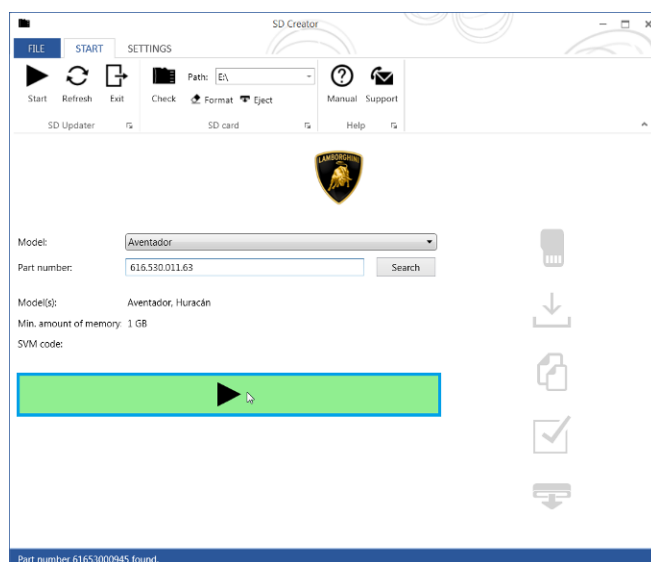
IMPORTANT:

Before You Begin Creating Your Software!

The process involves formatting the USB Key and deleting the files inside it.

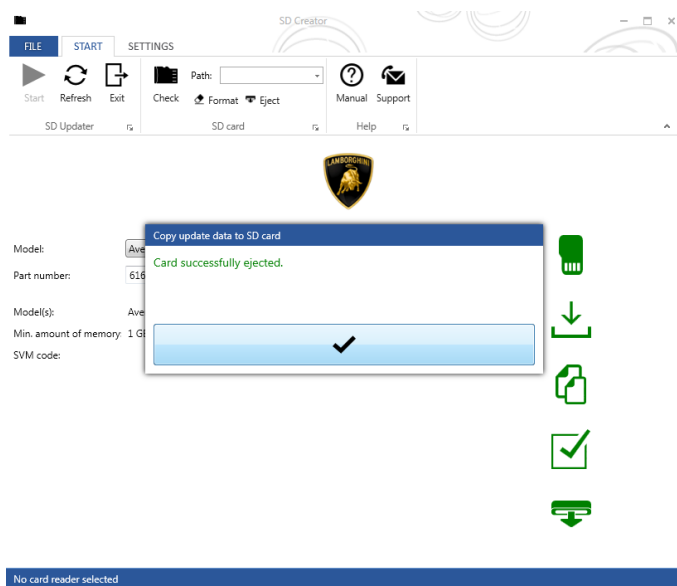
In order to do not lose your data, it is advisable to use empty USB keys.

40. Click the Start Button, , to start the software download process. The software will be automatically saved in the USB stick.

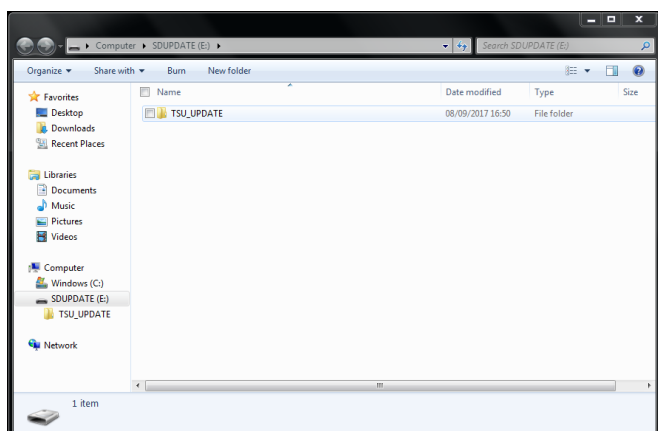




41. At the end of the process, green icons will appear on the right and positive feedback will be displayed indicating the success of the operation. Click on the Bar “” in order to finish the download process. The USB stick is automatically unplugged from your laptop



42. To verify the success of the operation, extract and re-insert the USB stick and make sure that the software required to update the TSU is present.



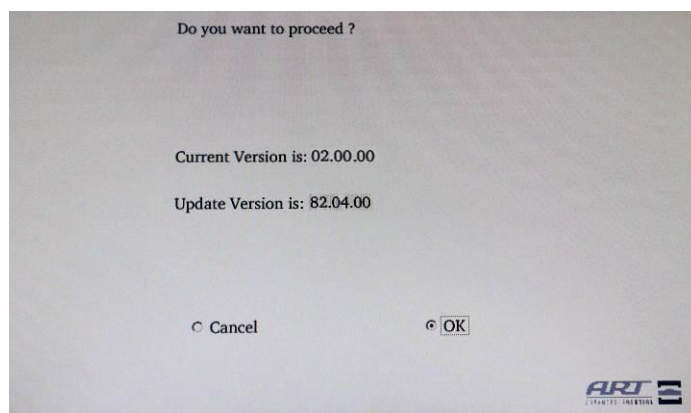
At this point the software 82.04.00 is downloaded and it is possible to flash the TSU.

43. Move on the car and insert the USB stick containing the downloaded software in the socket fitted in the front area of the central tunnel passenger side.

44. On MMI display, from TSU Engineering menu select "Update Sw", using the main knob.



45. Using the Main Knob select “OK” in order to start the TSU software update.



Note:

“**Current Version**” is the software already present on TSU control unit.

“**Update Version**” is the software that is going to be installed on TSU control unit.



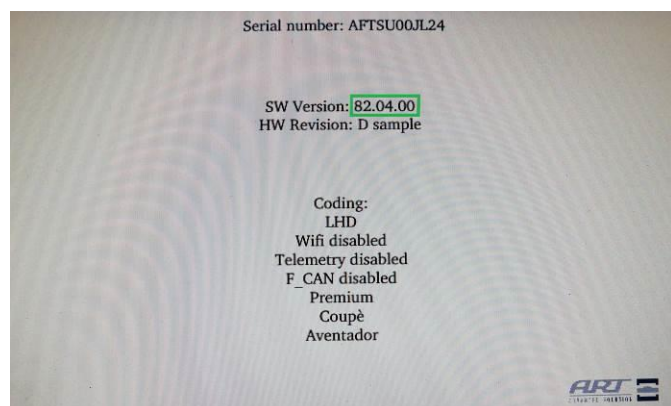
46. Please wait. The procedure ends when the second bar reaches 100%.



When the procedure is over the TSU automatically restarts in a few seconds.

Then wait one minute and access again into “TSU Engineering Menu” pressing simultaneously CAR + NAV buttons.

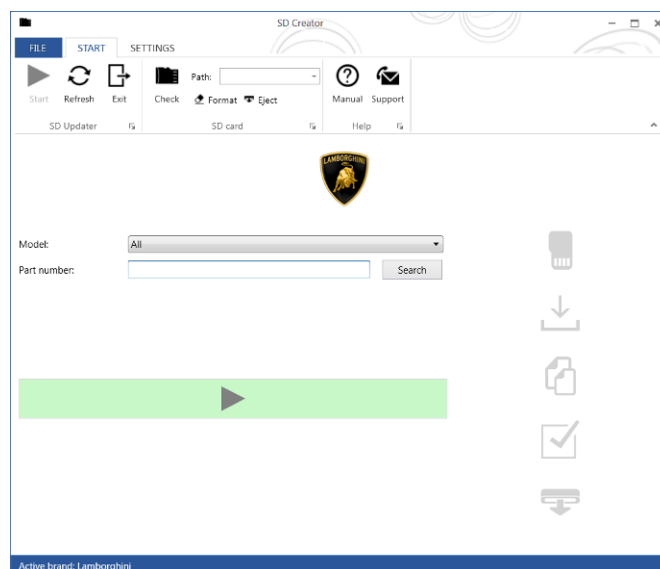
47. In the main page scroll down the list and select “Board Info” to verify if the software version previously update is the 82.04.00.



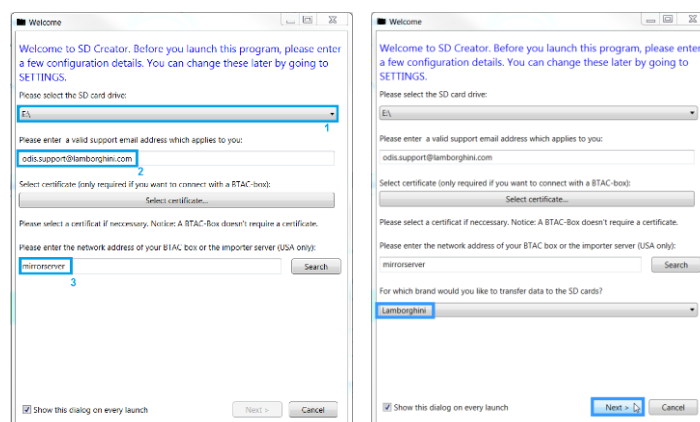
If the software version is 82.04.00 as shown in the picture quit the “TSU Engineering Menu” using RETURN button, otherwise execute again the software update procedure.

48. On your laptop, open SD-Creator by a double click on the program icon. . (If you have already opened it skip to point 50)

We remind you that you need a USB stick to download the TSU software.



49. When the program starts, fill in the Windows screen fields as explained in the “BI-09.17 [ENG] SD-Creator installation package procedures”





50. In the main page of SD-Creator you shall fill out the Model and Part Number fields

- I. Select the Model, (Aventador)
- II. Insert the Part Number 616.530.011.64

Through this Part Number, version 02.02.00 of TSU will be downloaded. Then, click "Search".

Model:

Part number:

51. If the entered part number is correct, clicking the search button, the model name and the required size of the USB stick to generate the software will be shown.



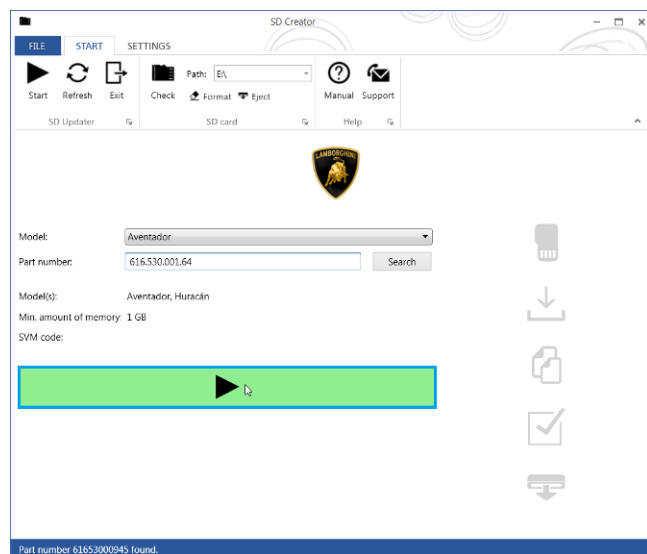
IMPORTANT:

Before You Begin Creating Your Software!

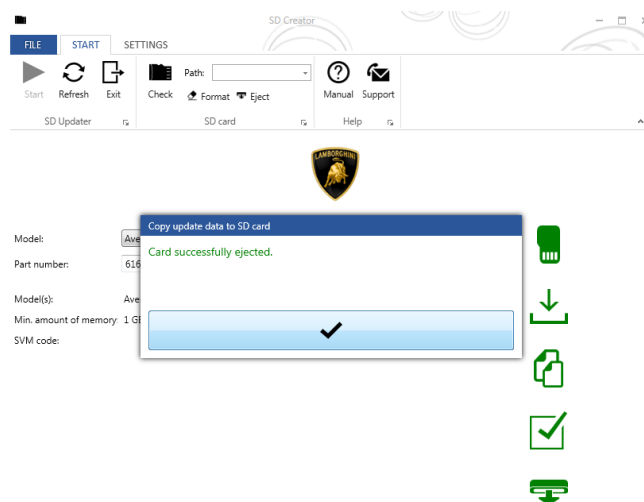
The process involves formatting the USB Key and deleting the files inside it.

In order to do not lose your data, it is advisable to use empty USB keys.

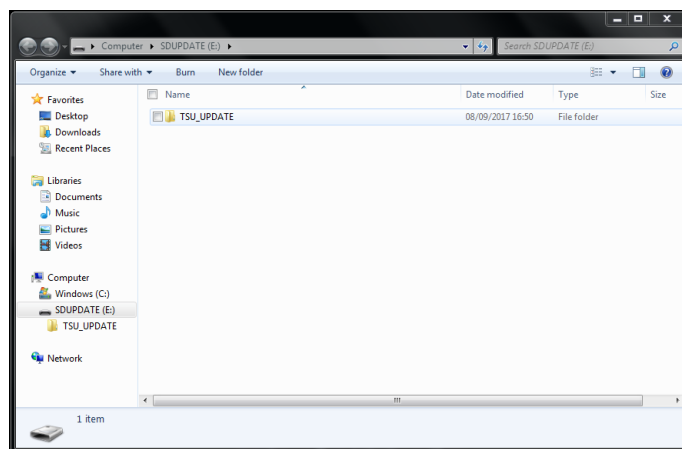
52. Click the Start Button, , to start the software download process. The software will be automatically saved in the memory of the USB stick.



53. At the end of the process, green icons will appear on the right and positive feedback will be displayed indicating the success of the operation. Click on the Bar "" in order to finish the download process. The USB stick is automatically unplugged from your laptop

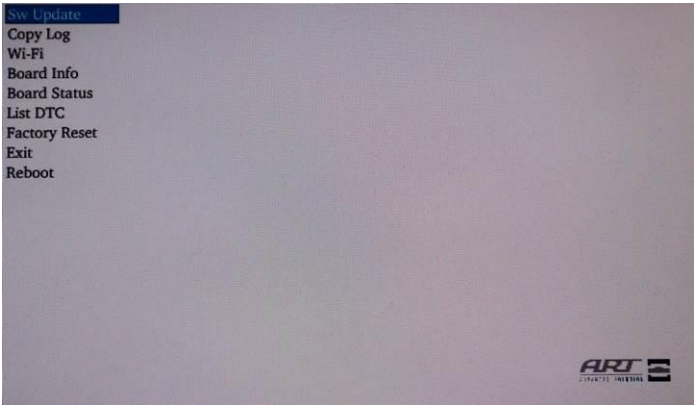


54. To verify the success of the operation, extract and re-insert the USB stick and make sure that the software required to update the TSU is present.

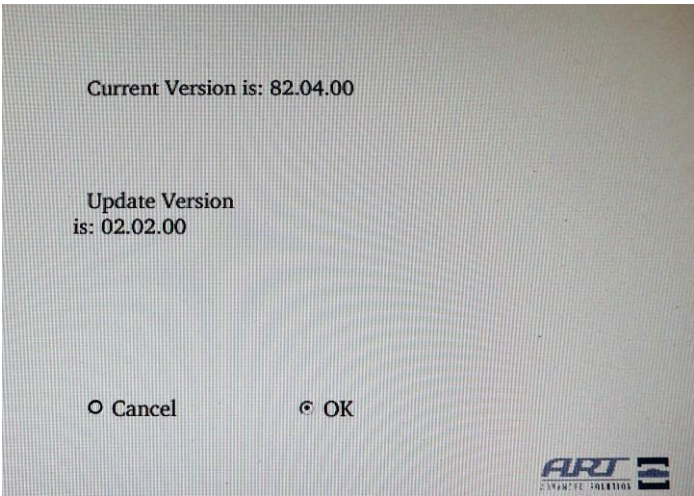


At this point the software 02.02.00 is downloaded and it is possible to flash the TSU.

55. Move on the car and insert the USB stick containing the downloaded software in the socket fitted in the front area of the central tunnel passenger side.
56. On MMI display, from TSU Engineering menu select "Update Sw", using the main knob.



57. Using the Main Knob select “OK” in order to start the TSU software update.



Note:

The current version in case of Direct Update is different from the picture above.

“**Current Version**” is the software already present on TSU control unit.

“**Update Version**” is the software that is going to be installed on TSU control unit.

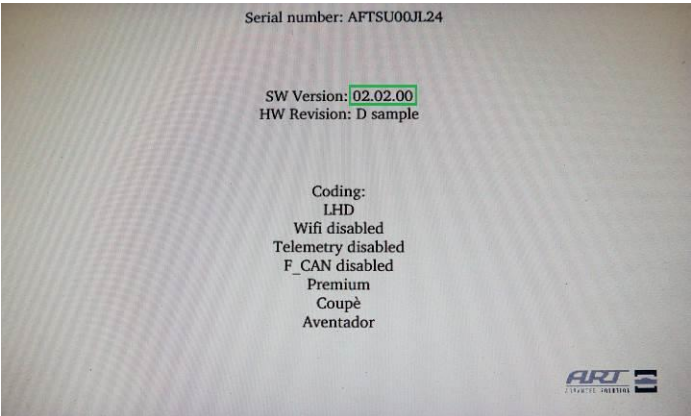
58. Please wait. The procedure ends when the second bar reaches 100%.



When the procedure is over the TSU automatically restarts in a few seconds.

Then wait one minute and access again into “TSU Engineering Menu” pressing simultaneously CAR + NAV buttons.

59. In the main page scroll down the list and select “Board Info” to verify if the software version previously update is the 02.02.00.

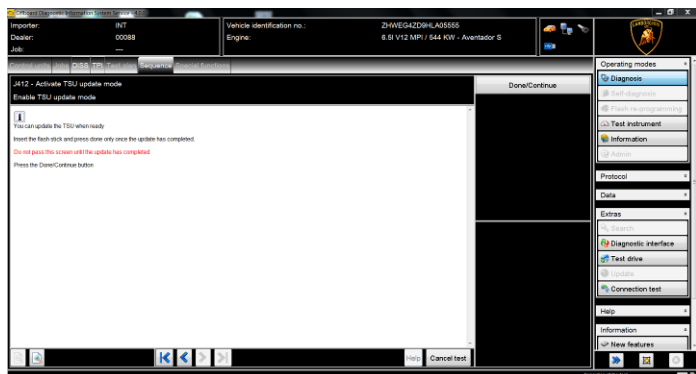


If the software version is 02.02.00 as shown in the picture quit the “TSU Engineering Menu” using RETURN button, otherwise execute again the software update procedure.

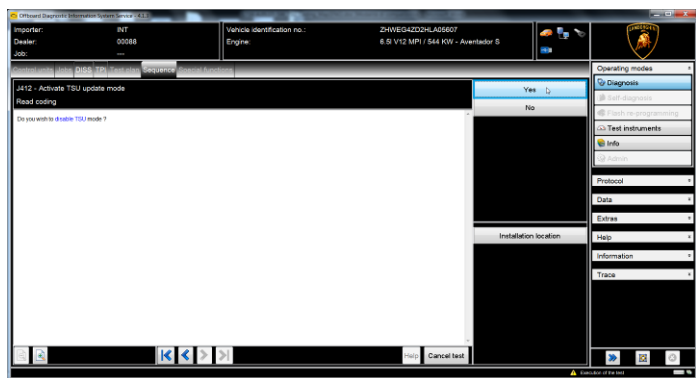


60. Once TSU has been updated correctly continue the procedure following ODIS instructions in order to disable TSU Update Mode.

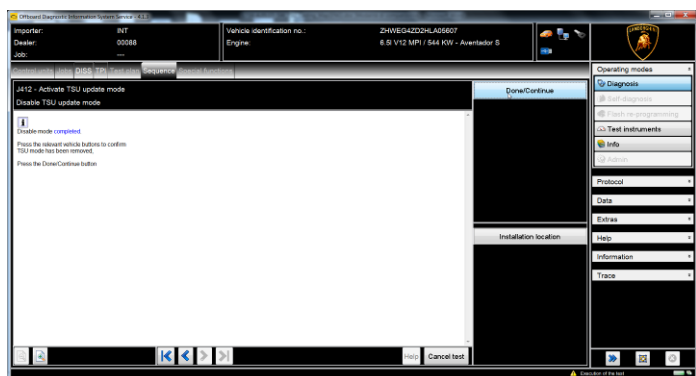
Click “Done Continue”.



61. Click “Yes” in order to disable TSU Update Mode.



62. Click “Done/Continue”.

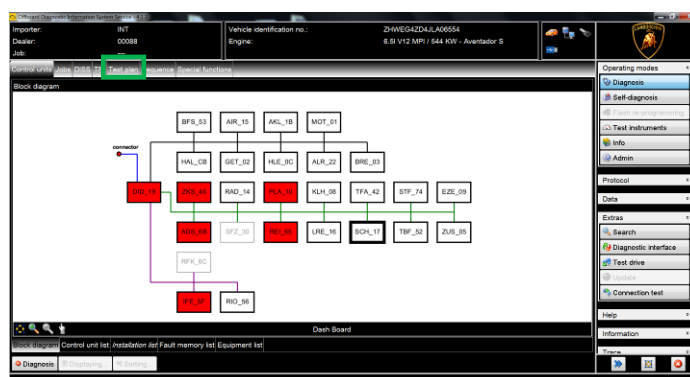


63. Note:

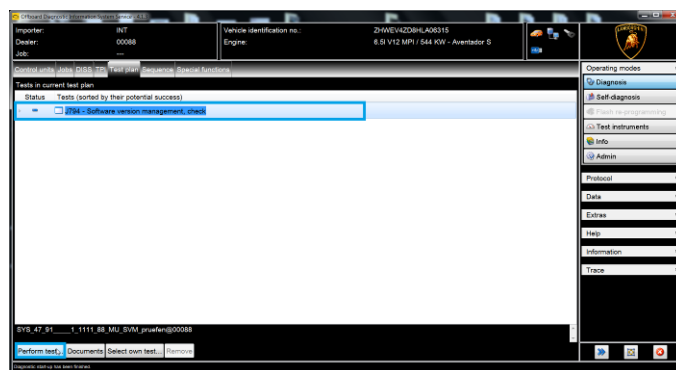
Steps 64-73 are mandatory in case of MMI update (see table of step 3).

If you did not update the MMI software please skip to step 74.

64. Once the TSU has been updated, select the tab “Test Plan”.

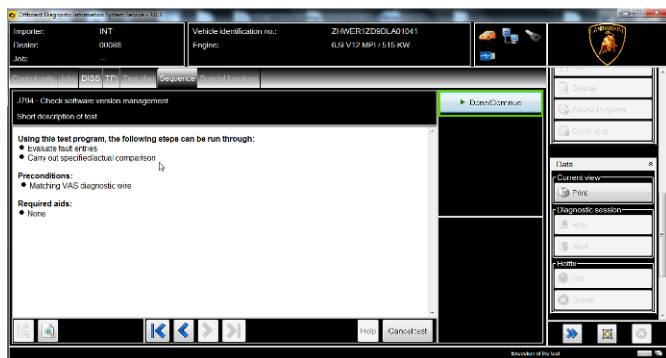


65. Select “J794 – Software version management, check” function and then click “Perform Test”.

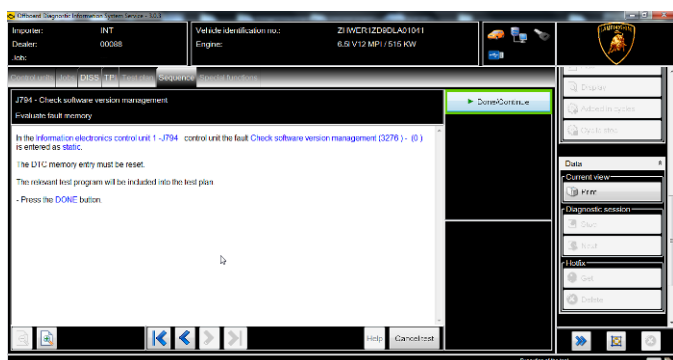




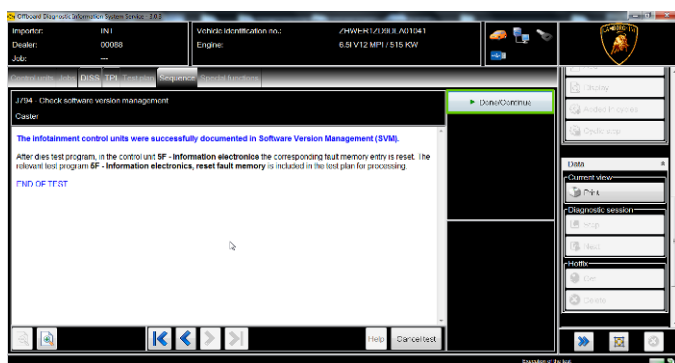
66. Click “Done/Continue”.



67. Click “Done/Continue”.

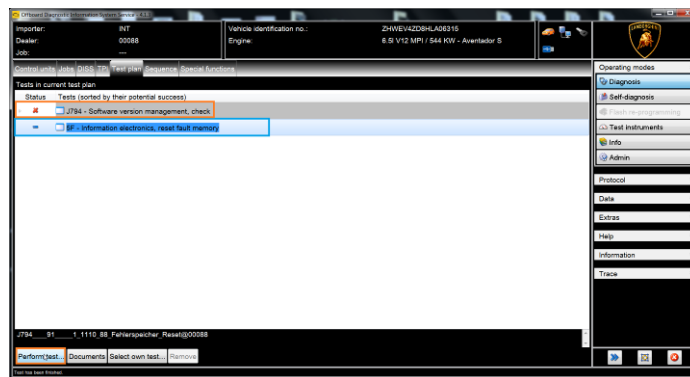


68. Click again “Done/Continue”.

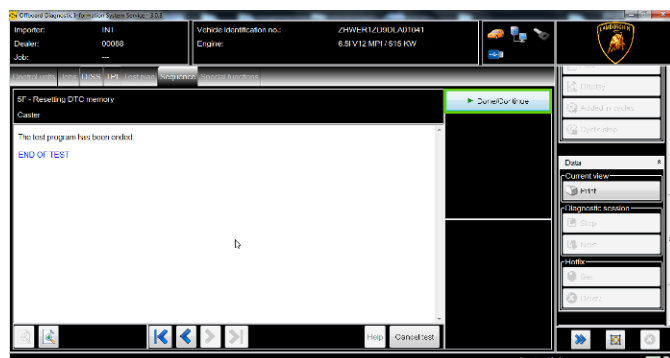
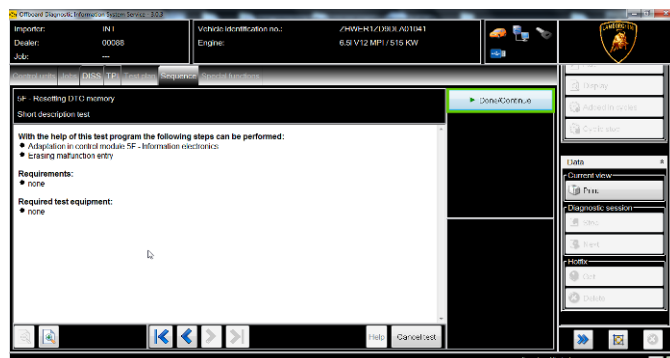


69. The process may not be successful. In this case next to the previous function appear the usual red cross and a new function is added to the “test plan”.

"5F - Information electronics, reset fault memory".
Select it and click on "Perform test".



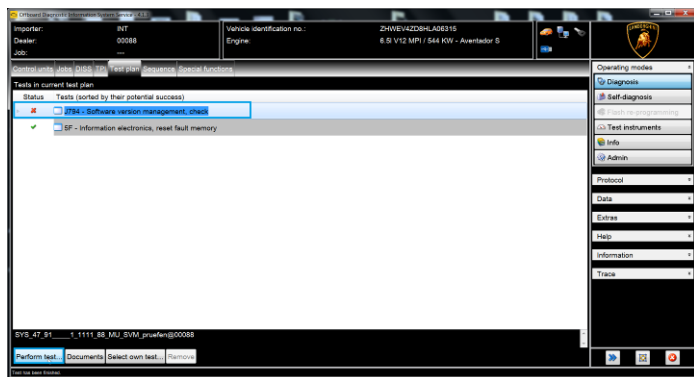
70. Click “Done/Continue” until the end of the procedure



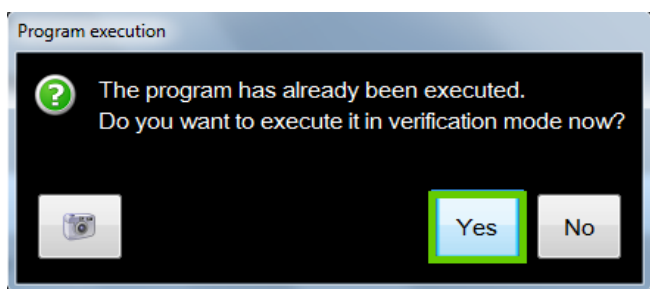


71. Go back in the Test Plan and select again:

"J794 - Software version management, check" and then click "Perform test".

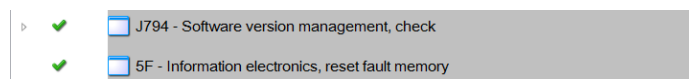


72. Click "Yes".



73. Proceed clicking "Done / Continue" until the end of the operation.

This time the process will be successful:



74. Go back to the "Special functions" tab and select "Erase fault memory – overall system" to clear all the stored faults.

The complete guide in order to erase all fault memories is available in the workshop manual, chapter **10.00.Deleting the data in the fault memory of control units.**



IMPORTANT:

After erasing faults memory, the static DTC "Display unit button" could still be present:



In this case launch the special function "Erase fault memory - overall system" again.

/* Adaptation After Software Updates */

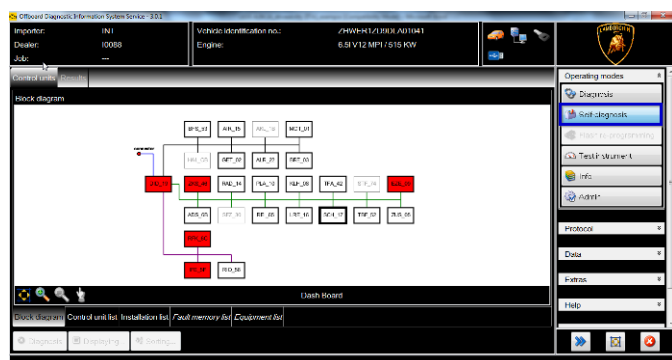


IMPORTANT:

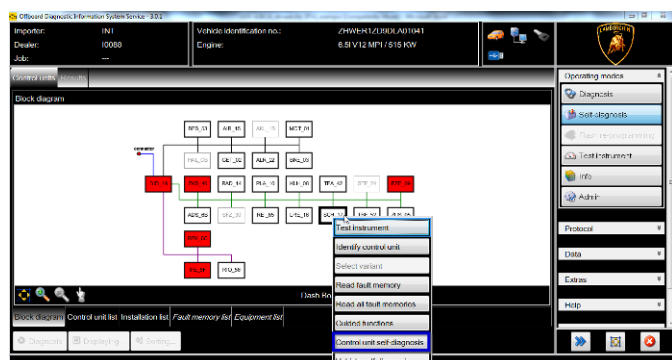
Adaptation is frequently necessary at the end of a control unit software update and following fault memories removal.

75. If the Instrument cluster software has been updated it may be necessary to restore service time and distance intervals:

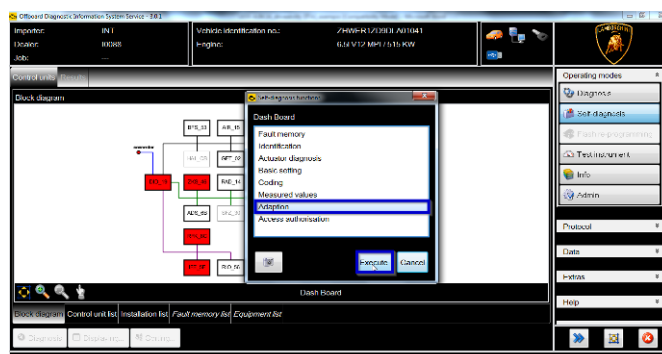
Select “self-diagnosis” in the right menu.



76. Right click dash board ECU and select Control Unit self-diagnosis.



77. In the following menu select Adaption and click “Execute”.



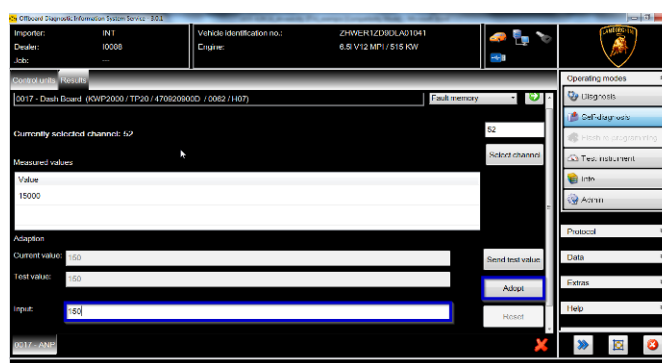
78. Write “52” in the channel box and click “Select channel” as shown in the picture.



79. Insert the distance to next service divided by 100 in the input box.

(e.g. write 150 for 15000 km to next service)

Click “adopt”.

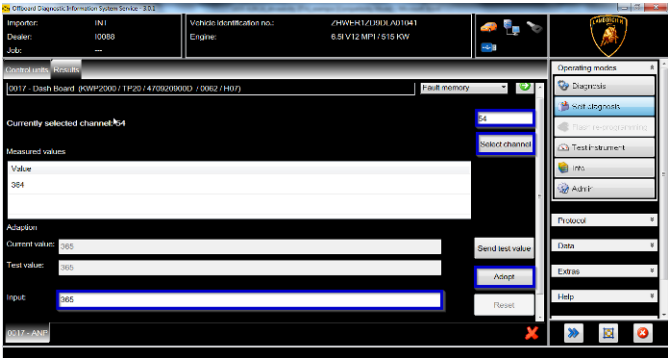


80. Write “54” in the channel box and click “Select channel”.

Then insert the days to next service in the input box.

(e.g. write 365 for 365 days to next service)

Click “adopt”.



/* Diagnosis protocol saving */

81. At the end of software updates, save the diagnostic protocol as described in chapter **10.00.ODIS Saving the diagnostic protocol**.



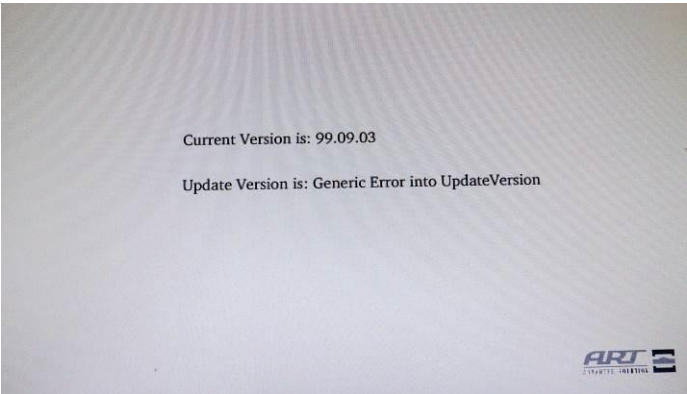
IMPORTANT

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

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

Trouble shooting

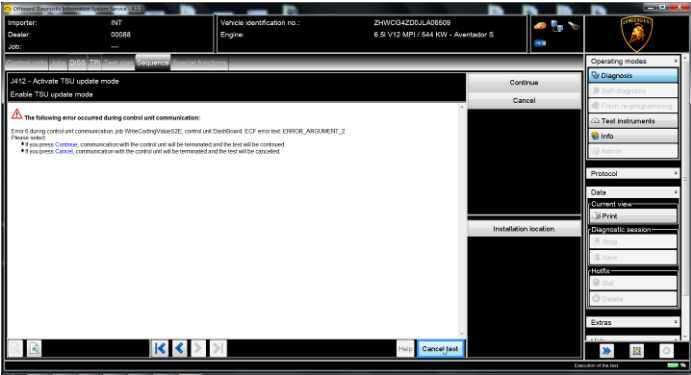
A. During TSU update procedure, if the following page is shown in MMI display:



Quit from “TSU Engineering Menu”, remove USB stick from USB port and then switch ignition off.

Then switch again ignition on, insert again USB stick into USB port and access again into “TSU Engineering Menu”.

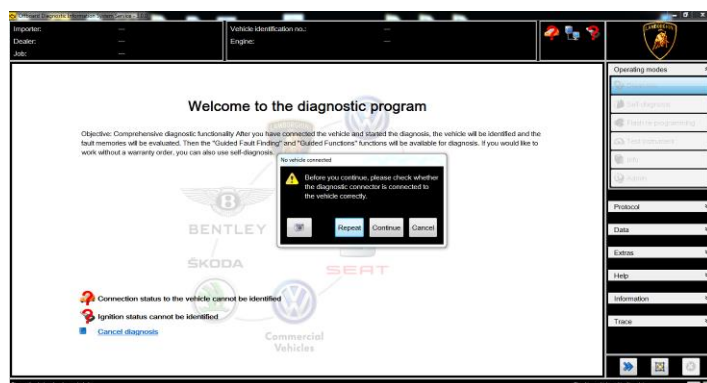
B. If the following error page is shown, you shall abort the procedure clicking on “Cancel Test” and contact the Technical Support.





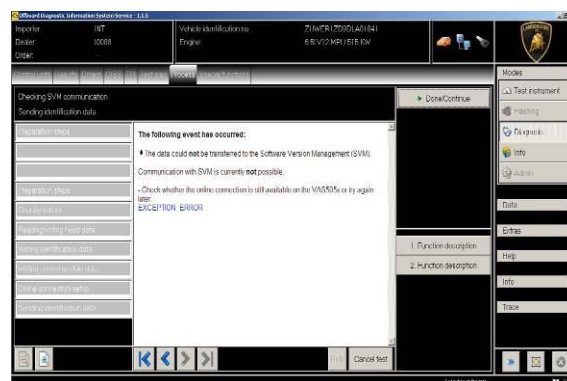
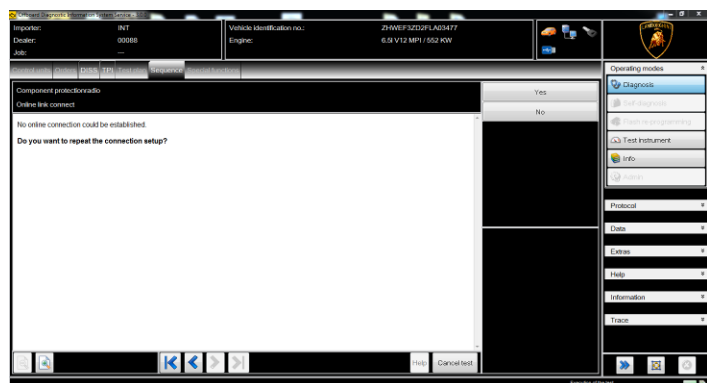
C. If the error message regarding the VAS5054 interface and the two icons for status of on board connection and key ON are shown as in the picture below:

- 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”.



D. 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”.



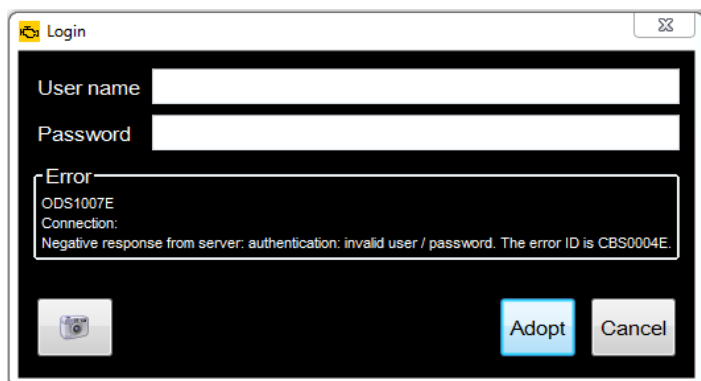
E. If the loss of connection happens during the target/actual comparison during SVM procedure:

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



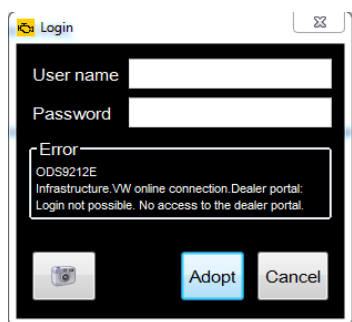
F. If the incorrect identification message is shown as in the picture below (error code: ODS1007E):

- 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” (*)).



G. 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”(*))



H. 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:

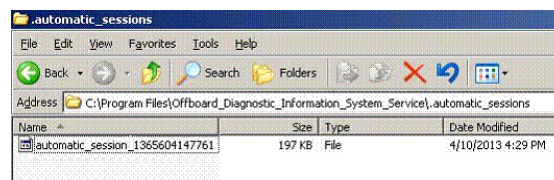
1. Network connection available;
2. ODIS connection set on “Internet”;

- Retry the application test and the SVM with your GeKO Token.



IMPORTANT REMARK:

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



I. 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/maintenance/diagnosis.py>

or under

[http://\[IP_address\]/maintenance/diagnosis.py](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	9
Failed package downloads	0
Last Sync	17/09/12 19:01:53
Start tests	



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 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