

**Campaign code:**

L73X-A.04.18

Campaign description:

TSU Update

Model:

Aventador S Coupè equipped with telemetry system

Model year:

From 2017 to 2018

Special or Limited Versions:

All

Markets:

All

VIN identification:From **HLA04772** to **JLA07435**

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

- Before starting this update verify if the car is in the VIN list of campaigns “L734-A.01.18” or “L73X-A.02.18”.
- 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:

As a result of continuous product monitoring, Automobili Lamborghini Spa has released a new software update to activate the Android Auto interface.

Field solution:

Update the car following the herein reported instructions.

Spare parts:

Order the following part number which are connected to the operation required:

- Operation B – TSU Update

P/N	Description	Q
n/n	n/n	0

Replaced parts management:

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

Labour time:

- SW update : **0,5 hour.**

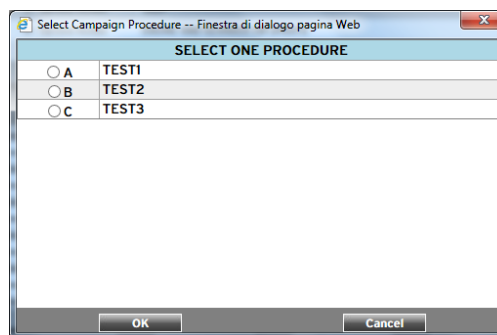
Substituted former Bulletins:

None.

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, TSU Update
manpower: 0.5 hours
spare parts: none,



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
-		



IMPORTANT:

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 inserting 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 28th of May 2018.

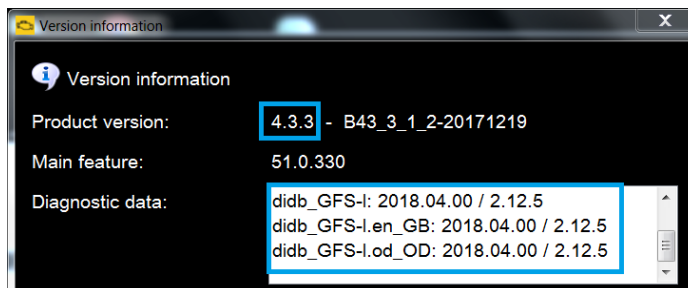
MS/2 Diagnosis

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	not used
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	18/05/28 21:01:14
Start tests	

Work instructions:

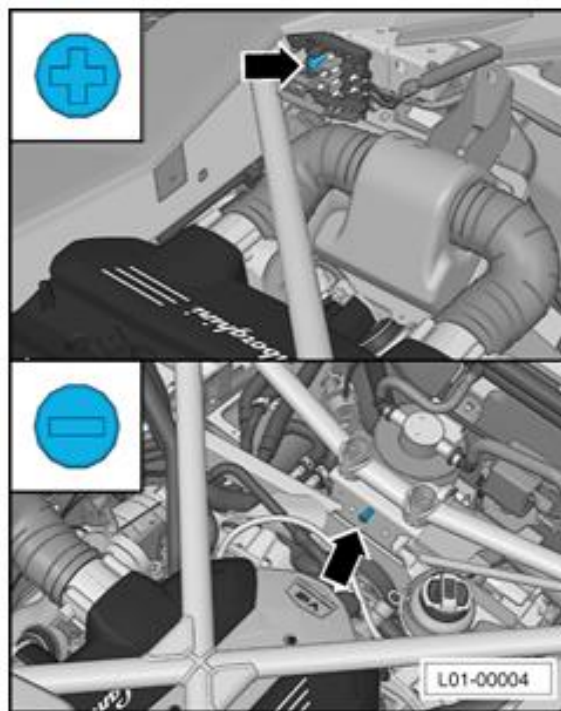


The instructions contained in this bulletin are based on ODIS Service diagnosis software updated to release 4.3.3 (or following) and database Lamborghini 2.12.5 (please refer to BI.07.15 and be sure that ODIS service on your laptop is up-to-date)



Updating Procedure:

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



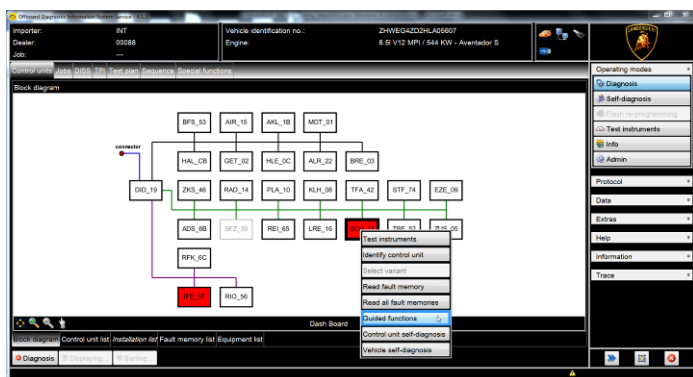


TSU Update:

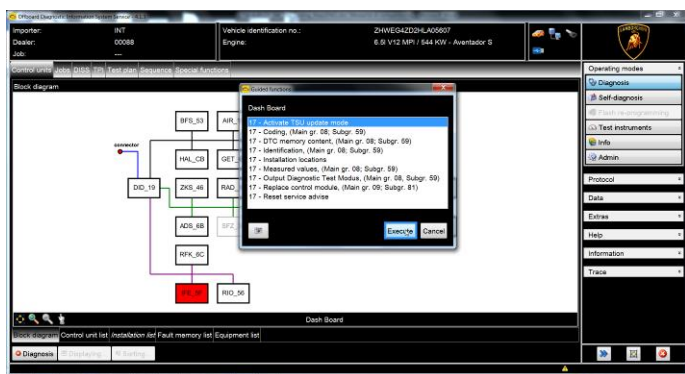
- Before starting this update verify if the car is in the VIN list of campaigns “L734-A.01.18” or “L73XA0218”.

Direct Update (Single Step):

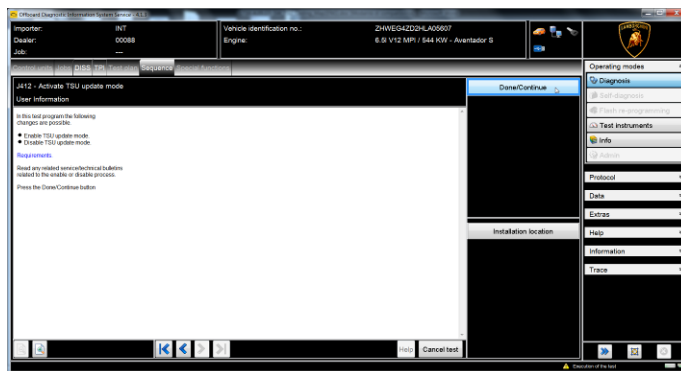
- Right click on dashboard ECU (SCH_17) and select “Guided Functions”.



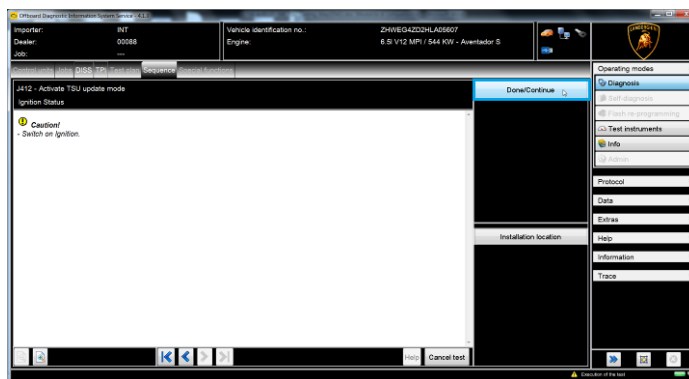
- Select “17 - Activate TSU update mode” and click “Execute”.



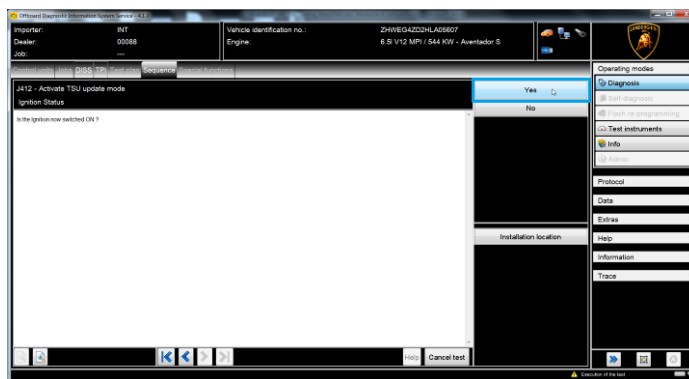
- Click “Done / Continue”.



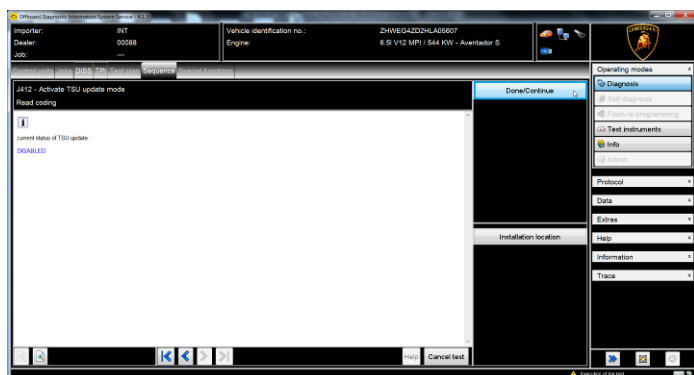
- Click “Done / Continue”.



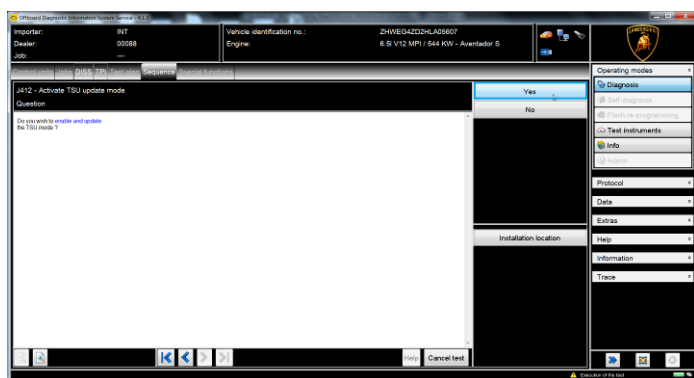
- Click “Yes”.



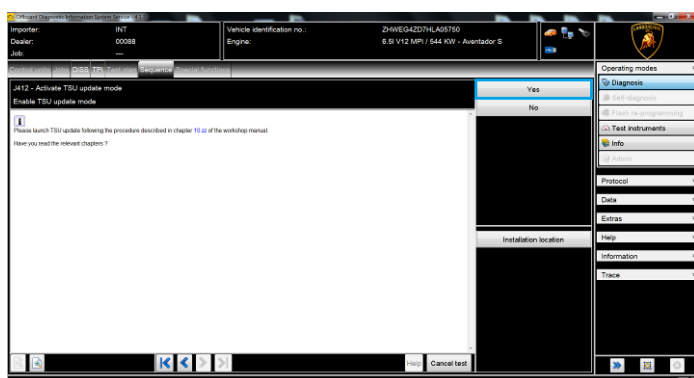
9. Click “Done / Continue”.



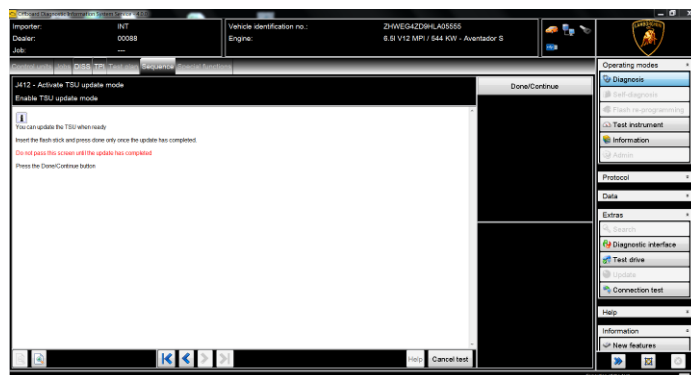
10. Click “Yes” in order to enable TSU Update Mode.



11. Click “Yes”.



12. 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 it is necessary to complete the operation in ODIS.

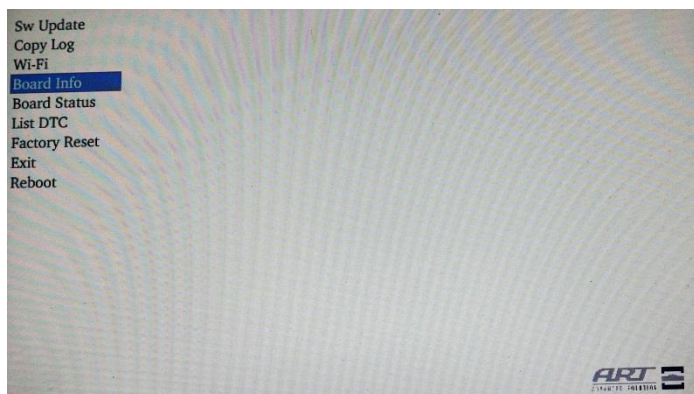
13. From this point continue the procedure in the car using the buttons in the central tunnel. Enter into “TSU Engineering Menu” pressing simultaneously CAR + NAV buttons.



Aventador central tunnel.



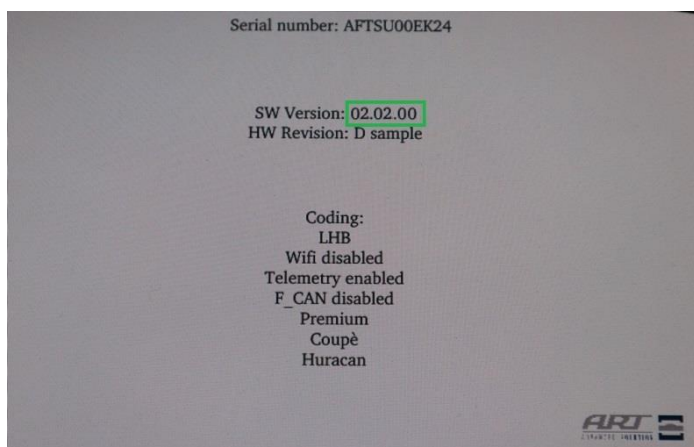
14. On the MMI screen the following page will be shown. Select "Board Info", using the main knob, and check the TSU software version.



IMPORTANT:

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

15. If the TSU current version is 02.02.00 you can execute the "Direct Update", otherwise follow the indications previously mentioned at the point 3.

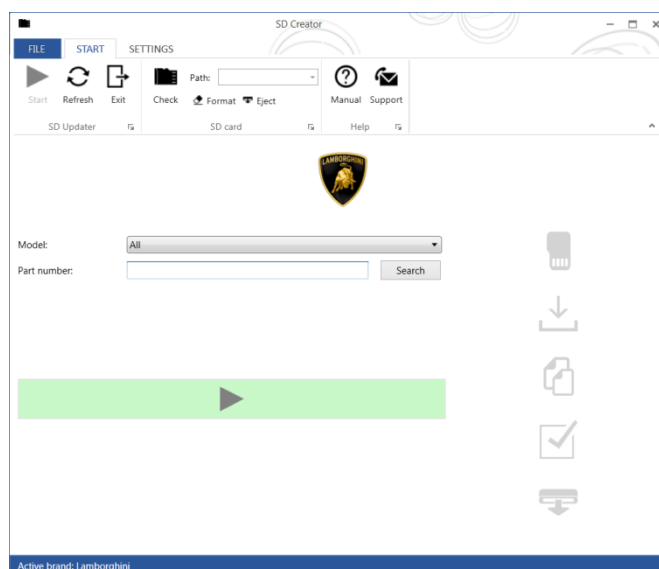
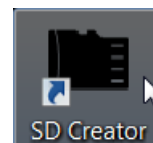


To exit the "Board Info" page press the "RETURN" button in the central tunnel.

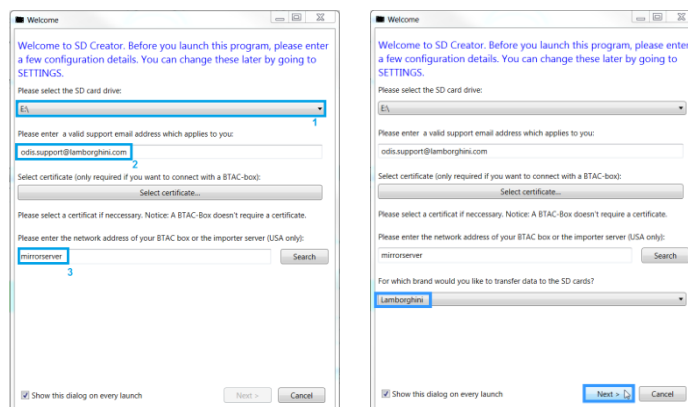
SD-Creator:

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

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



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





18. 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 616.530.012.43

Through this Part Number, the TSU software version 03.00.00 will be downloaded. Then, click “Search”.

Model:

Part number:

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



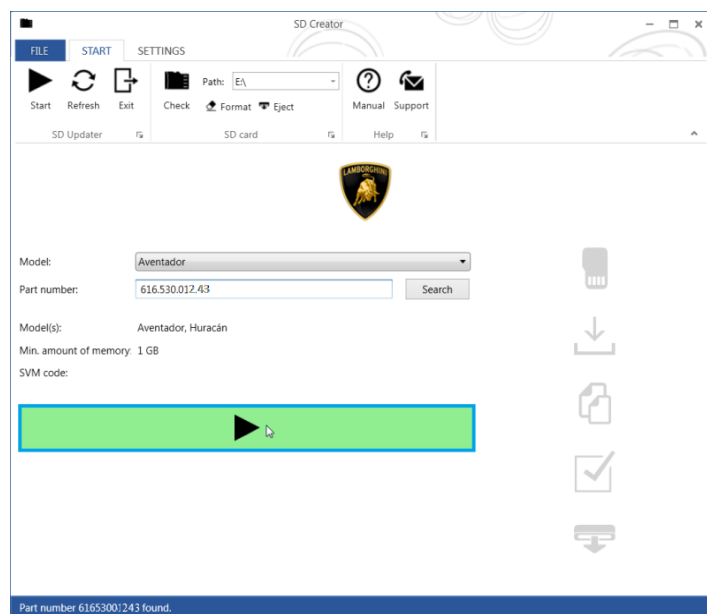
IMPORTANT:

Before You Begin Creating Your Software!

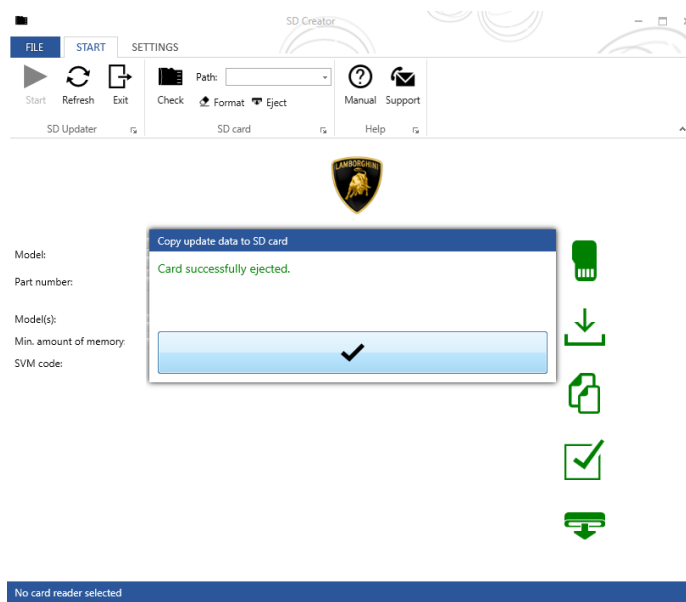
The process involves formatting the USB memory and deleting the files inside it.

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

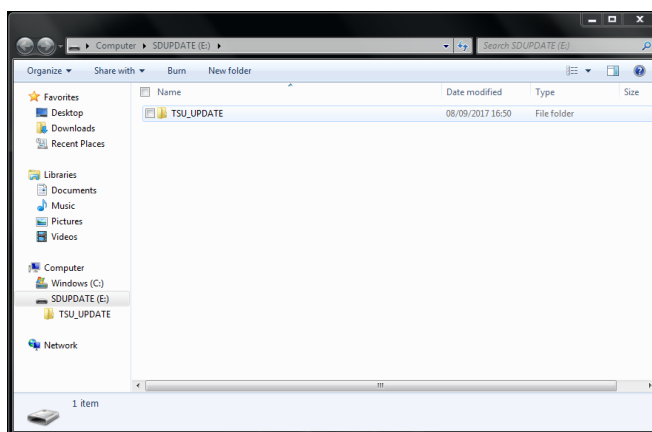
20. Click the Start Button, , to start the software download process. The software will be automatically saved in the USB memory stick.



21. 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 memory stick is automatically unplugged from your laptop



22. To verify the success of the operation, extract and reinsert the USB stick and make sure that the software required to update the TSU is present.



At this point the software 03.00.00 is downloaded and in the USB memory and it is possible flash the TSU.

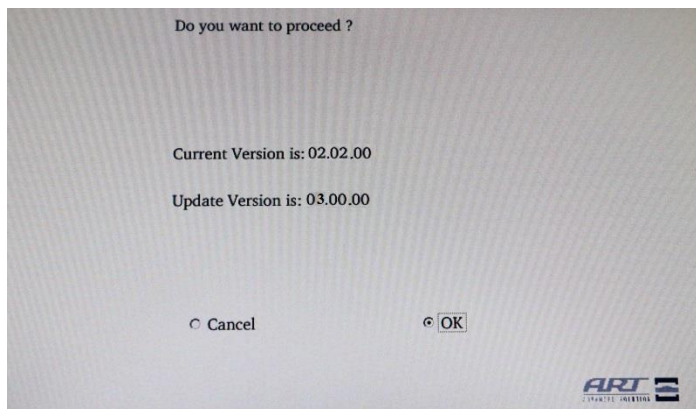


23. Move on the car and insert the USB memory stick containing the downloaded software in the USB port.

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



25. 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. (02.02.00).

"Update Version" is the software that is going to be installed on TSU control unit. (03.00.00).

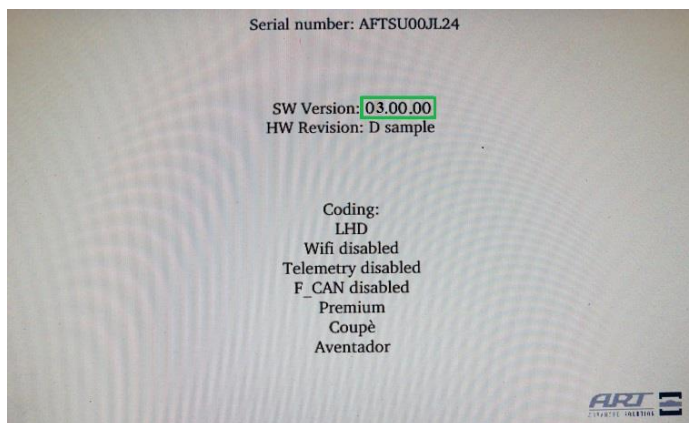
26. Please wait. The procedure ends when the second bar reaches 100%.



When the procedure is over the TSU automatically re-starts in a few seconds.

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

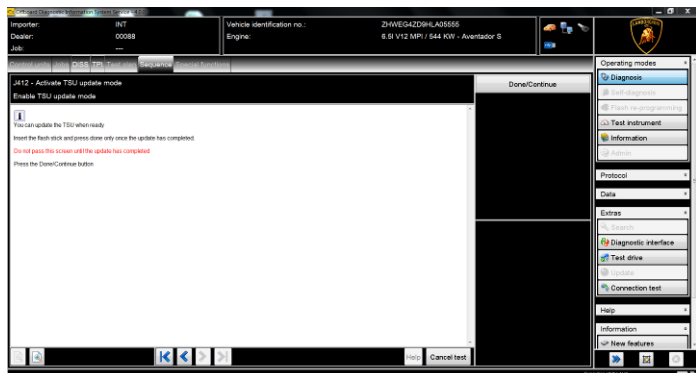
27. In the main page scroll down the list and select "Board Info" to verify if the software version previously update is the 03.00.00.



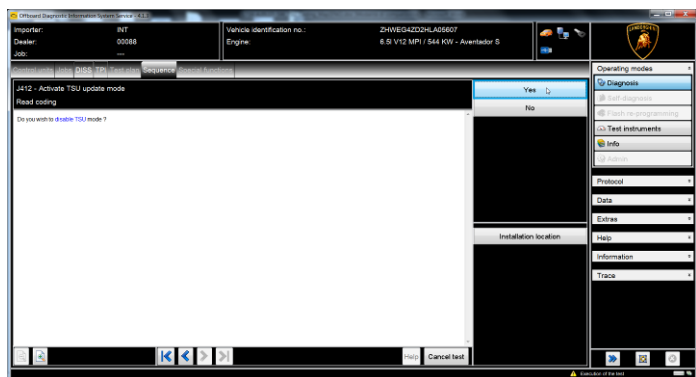
If the software version is 03.00.00 as shown in the picture quit the "TSU Engineering Menu" using RETURN button, otherwise execute again the software update procedure.



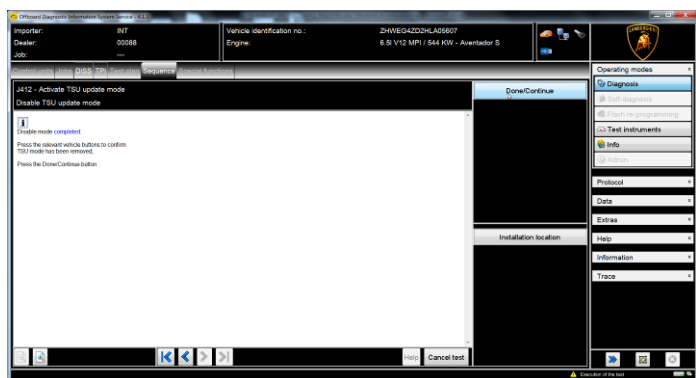
28. Once TSU has been updated correctly continue the procedure following the ODIS instructions in order to disable TSU Update Mode.
Click “Done/Continue”.



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



30. Click “Done/Continue”.



31. 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 the fault memory, the static DTC “Display unit button” could still be present:

Fault memory				
Dash Board (17 - Dash panel insert) (4T0920900D 1878 KOMBIINSTR. 4T0920900D 017)				
2750 14 Display unit button (Faulty static)				

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

/* Diagnosis protocol saving */

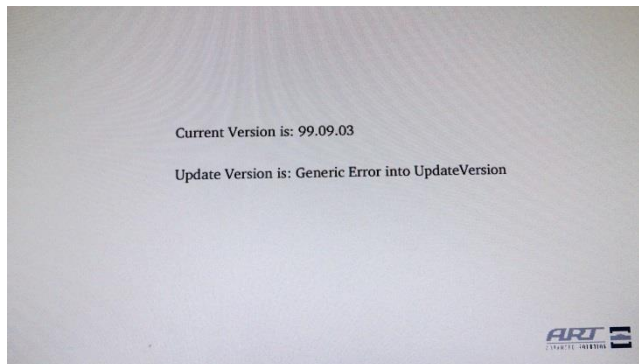
32. At the end of software updates, save the diagnostic protocol as described in chapter **10.00.ODIS Saving the diagnostic protocol.**

Please send the protocol to
servicedepartment@lamborghini.com



Trouble shooting:

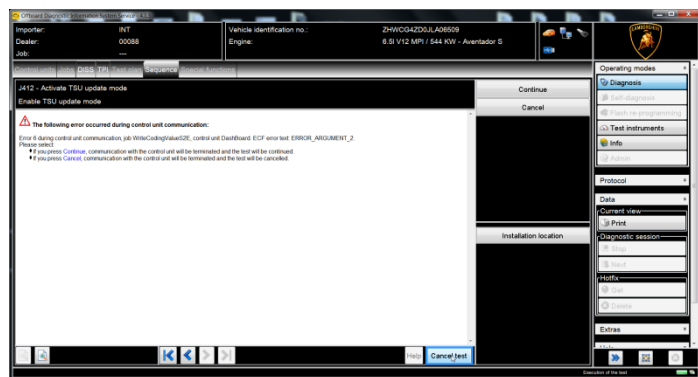
- A. During TSU update procedure, if the following page is shown in MMI display



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

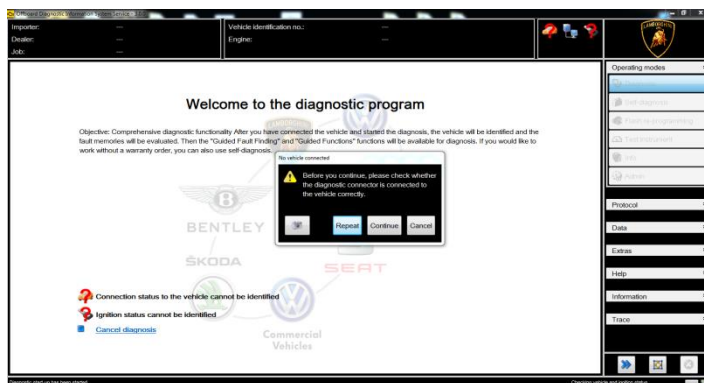
Then switch again ignition On, insert again USB stick into USB port and access again into TSU Engineering Menu.

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



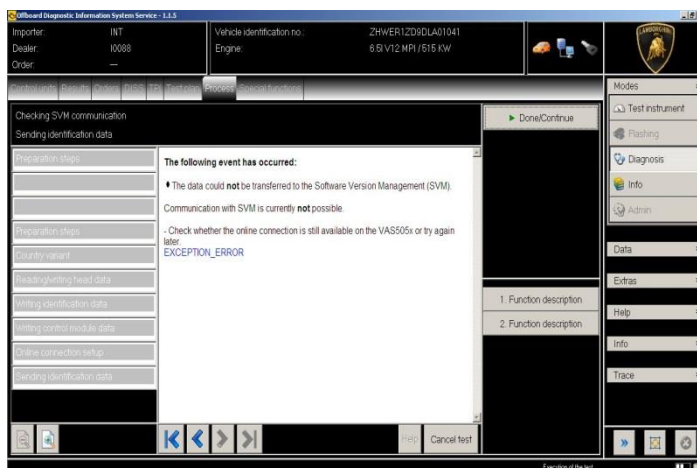
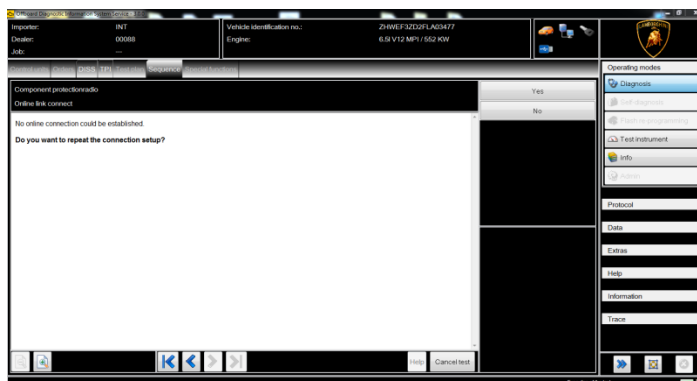
- C. If the error message regarding the VAS5054 interface and the two icons for status of on board connection and key ON are shown as in the picture below:

- Click “Cancel”;
- Repeat the VAS6154 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:

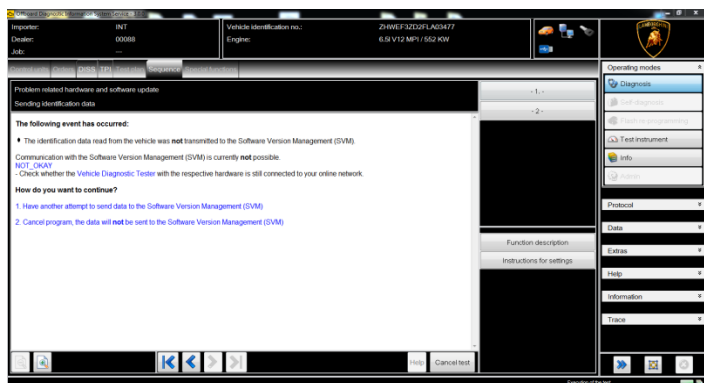
- It is not possible to establish a connection with the central server. Please check carefully that the diagnosis laptop is properly connected to the internet network and retry clicking “Yes” or “Done/Continue”.





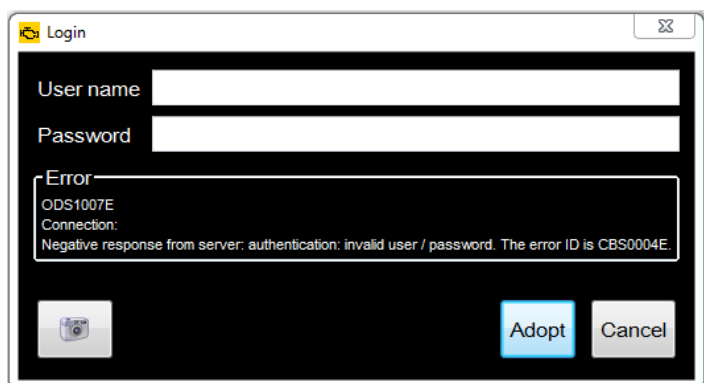
E. If the loss of connection happens during the target/actual comparison during SVM procedure:

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



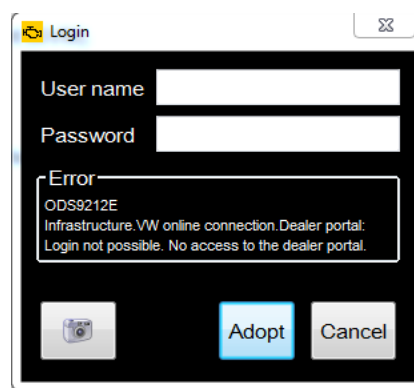
F. If the incorrect identification message is shown as in the picture below (error code: ODS1007E):

- 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” (*))

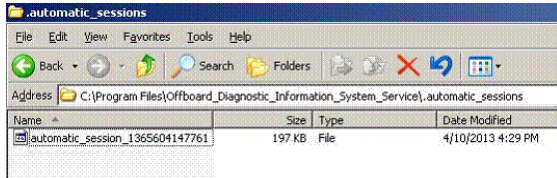


H. If the same error is present during the application test, try the following procedure:

- 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:**

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	not used
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	18/05/28 21:01:14
Start tests	

**NOTE.*)**

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

**IMPORTANT REMARKS:**

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.

Best Regards,
Customer Service.