# ovafv012-20201201

MY21 U5 1.5.0 software upgrade service action Theme://a Vehicle:///// U5 EU Release : OV? 2020.11.13 MY:OVAIV Effective : 0V2 2021 2020.11.20 LVXMAXBA3LR900532 **Bulletin No. :** Range : to LVXMAXBA9LR900633 US-ST-A18-20-009 (250 vehicles) **Replace :** Marketing : EU None

### 1. Technician Level and High Voltage Certification

This is the minimum tech	nnician level required:		0120
AIWAYS Standard	DGUV 200-006 Standard (BGI/GUV-I 8686 E)	Related Operations	0120
outstun 1	Stage 1	Disconnect Service Switch	0120

This is the minimum technician level required:

L1 level certification is required for this operation. In order to ensure that the high-voltage battery will not be affected by sudden flashing, it is necessary to disconnect the service switch according to the prompts of IVHM before reprogramming the high-voltage module.

The L1 certified by AIWAYS is equivalent to the corresponding level standard of DGUV.

### 2. Update Content

Through this software upgrade, vehicle stability and user experience are improved. In particular, APA function is added and motor protection caused by long-time high-speed driving is improved

ECUatvo	12-20201201 Modification fv012-2020120
APA	Activate APA, add Auto Park function
BCM	High & Low Beam optimization; TPMS self-learning optimization.
BMS	DC/AC Calculation Time; Balance function improve; Thermal runaway module optimization.
CCM	When the car driving, single air conditioning refrigeration with the compressor speed limit.
EPS	Diagnosis for EPS fault optimization(Only for Repair)
	12-20201201 ovatv012-20201201





Optimization of derating scope; MCU Repair false alarm over temperature during Ignition ON PLG VCU

Avoid MCU reset and false failed Fix some vehicles occasionally have anti pinch sound when the tail door rises to the top; Fix tail door closed, press and hold the inner switch of the tail gate for 3s, there is probability that the tail gate cannot be opened.

Repair of power curtailment caused by long time maximum speed drive; The max speed of gear R is changed to 38kph from 45kph; ADAS SLF limit changed from 130kph to 160kph; Optimize driving strategy.

### 3. Reminder

1. The upgrade lasts about 25 minutes. It is recommended to provide additional power to the 12V battery during the upgrade process.

2. This service action is carried out through IVHM online flash function. You can reprogram the vehicle through the diagnostic VCI. After the completion of the program, please submit the health report under the following path to the relevant person in charge of AIWAYS. C:\Vehicle Report

3. The upgrade action is 1.5.0, but the IVHM write version number is 1.5.1, which does not affect the normal use of the vehicle.

4. In this upgrade, IVHM requires a database version no earlier than aiway\_2020011.

Exit G Select a diagnostic package for installation Application OV A VU Main database Diagnostic package selection The following diagnostic packages After confirming the selection, the diagnostic packages are imported are installed in PRODIS.Runtime Version Name Name V Desc... Aiway 2020010 (13-Oct-2020) Install Information Installing XML document package... **ODX** Update **Download Descriptors** Install deliverable circuit diagram 5. This upgrade might result in the loss of the tailgate learning value. After the implementation, please

instruct the customer to relearn his/her habitual position of the tailgate according to the owner's manual.

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## ovafv012-2020120 ovafv012-2020120 ovafv012-2020120

4. Sub-Version Info 2-20

**BVO** 

From this table, you can know the target version of each ECU for this upgrade

, ,	U	10	
ECU	Туре	Version	Way
APA	Part Number	861944101_020	
0100	Application Number	861978093_013	IVHM
BCM	Part Number	861911201B_100	
	Application Number	861975013_100	VHM O
BMS	Part Number	861134211F_004	ZV IVHM ZV
ovati	Application Number	861979023F_004	
ССМ	Part Number	861931151_016	IVHM _
ovativ	Application Number	861975033_016	
EPS	Part Number	861633100A_005	IVHM
ovatv	Application Number	861978033_005	
MCU	Part Number	861120501B_008	IVHM
ovatv	Application Number	861979043B_008	20 IVHM 20
PLG	Part Number	861919323_011	IVHM
ovatv	Application Number	861975053_011	-20 IVHM 20
VCU	Part Number	861110100D_007	IVHM
ovatv	Application Number	861979013D_007	-20 IVHM 20

### ovafv012-20201201

### 5. Tools

	12- <u>Name</u> 01	20Number	ovafv(Function20201	20
EE0001	12-IVHM201	2011	Upgrade the Vehicle	
o <del>v</del> afv0	Computer	2011	Install the IVHM application	

ovafv012-20201201 ovafv012-20201201

## ovafv012-20201201 ovafv012-20201201

### 6. Operation procedure

# 1. Please ensure that the surrounding network environment is good before software upgrade;

- 2. Run IVHM sync client;
- 3. Update the diagnostic package. After downloading, the system will try to restart the application automatically to complete the installation. If your program fails to restart automatically, please restart the computer and complete the installation; Note: after the installation is

successful, your diagnostic package version should be: AIWAY\_2020011

 Diagnostic instrument page: read VIN and confirm → manual vehicle selection → advanced diagnosis → click

> icon Q; ovafv012-20

- 5. Select "Vehicle Health Report" and read it.
- 6. Select "Campaign"
- 7. Select next step according to the reminder ;

12-2020	VCI Selection Session History	
		DSA GmbH (Aachen, Germ
Health Report"		ovatv012-2
10.0000	Select an entry on the diagnostics n	nenu to continue
IZ-ZUZU	Vehicle Diagnosis	
gn";	Vehicle state of health	Vehicle DTC
	Vehicle Health Report	VCI Log
iccording to the	TSP Report	1 Campaign
12-2020	1201	
12-2020	1201	
12-2020	1201	ovafv012-2



Use a valid VIN to continue or use the

al vehicle selection

LVXMAXBA3KS700080

Exit

V...

Main database

Name

The following diagnostic packages are installed in PRODIS.Runtime

Application

Desc...

Vehicle Identification

3

Navigation

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Click [Exitl] to quit, click [Next] to continue

Click [Exitl] to quit, click [Next] to continue

Click [Exitl] to quit, click [Next] to continue

ECU

 $\rightarrow$ 

861633100A\_004 ==> 861633100\_004

861983101A\_014 ==> 861983101A\_015 861953301B\_003 ==> 861953301B\_003 861562110\_007 ==> 861562110\_010

861524100\_003 ==> 861524100A\_005

Details

 $\leftarrow$ 

IVHM

262

EPS

GW EGS

ESC

BOOSTER

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EPS

APA CCM

PLG VCU

BMS

IVI version update : 1.4.5 ==> 1.5.1 Click "Next" to write IVI version.

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Follwing ECUs will be updated. The ECU will set to "No update" if is already up to date or partnumber cannot be read ECU will update automatically if the ECU meet the update condition.

Progress

8. Ensure the 1.5.1 version is the target program version ;

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Ensure the version of each ECU is correct and click "Next";

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10. The programming steps will be low voltage system ECUs => high voltage system ECUs => BCM.

> ovafv012-2020 ovafv012-2020

11. During the programming, if this dialog happened, it means the High voltage module need update, please following the next instruction to Power off the high voltage system;



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Campaign

Is flash?

Upgrade

Upgrade Not Upgrade

Upgrade Upgrade

Campaign

Statu

Flash successful

Flashing, please wait. Flashing, please wait.

Flashing, please wait. Flashing, please wait.

Flashing, please wait.. Flashing, please wait..

TO I

Replay Close Diagnostics

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### Power off process before HV system module flash.

- a. Click power off on the central control panel to set the vehicle power status to "Power off" state;
- Please open the front cabin before upgrading the highpressure parts;
- **12.** If BCM need update, it will be the last one, after BCM program finish, the vehicle will power off automatically.
- 13. Press the Brake pedal to power on the vehicle
- 14. Click Next when it told you wait in configuration

### Note:

a. Ignore the VIN fail, if it occurred in Coding

b. If IVI coding failed, it caused by the 12V battery disconnect. Try to recoding in the service and calibration interface, Select "configuration function" and "vehicle configuration validation" in the page;

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15. Use the configuration function to active the ADAS function.

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Vehicle ECUs configuration Validation -Close Diagnostics Click [Exitl] to quit, click [Next] to continue BCM coding finished with OK EPS coding finished with OK ESC coding finished with OK IBOOSTER coding finished with OK GW coding finished with OK IFC coding finished with OK IP coding finished with OK IVI coding finished with OK TBOX coding finished with OK VCU coding finished with OK Coding has finished. 4 Э B DSA @ TEST11 IVHM Navigation . -Close Diagnost Select an entry on the diagnostics menu to continue tics 🔂 O Services and calibration Configuration Function Vehicle configuration validation PLG configuration check IVHM 3-2 Navigation Close Diagnostics Select an entry on the diagnostics menu to continue O Services and calibration Configuration Function ADAS active Vehicle configuration validation ADAS deactive PLG configuration check -----**ADAS** activate Snapshot Close Diagno Replay Session Click [Exitl] to quit, click [Next] to continue ° F The ADAS will be actived. please make sure the vehicle configuration validation has been finished. <del>Ki</del>t °o DSA 🖬 Ali

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16. Clear all the DTCs of vehicle;
Note:
a. If APA Report C190F86 Invalid
Data from IFC Can be ignored.
b. If IFC report C1B4A96 FCR not
support required destination

Please do vehicle configuration validation. **17.** In the vehicle diagnosis

- interface, click "vehicle health report". If there is any fault code in the health report, it is necessary to clear the fault code manually;
- According to the vehicle diagnosis report, whether the current software version is upgraded successfully can be identified;
- 19. The health report is automatically stored in the default path and can be reserved for data backup;
  Patch:
  C:\Vehicle Report

20. This upgrade might result in the loss of the tailgate learning value. After the implementation, please instruct the customer to relearn his/her habitual position of the tailgate according to the owner's manual.



### 7. DTC code handle after program



DTC/21	ECU	ZUZUTZU Name OVATVU	∠_ Solution ∠
C190F86	APA2	2020 Invalid Data from IFC afv0	Ignore or vehicle fall asleep
C1B4A96	/0FC2	FCR not support required destination	Do vehicle configuration validation

### 8. Labor Time

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ovafv01tem20201201	CODE OVafV01Labor 0201201
A1820009 - V1.5.0 software upgrade 98	30010009 Vafv01 0.6 20201 201
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