Official After Sales Network Pydos ECU flash and instrument cluster update 21 June 2019 25



Campaign code.

To:

Date:

Pages

Subject:

<u>L73X-A.03.19.</u>

Subject.

Pydos ECU flash and instrument cluster update.

Model. Aventador.

Model year. MY 17 to 19.

Special or Limited Versions. All except Centenario

Markets. All.

VIN Identification. From HLA05555 to KLA08508.

<u>Warning</u>: 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 DIGITS | VIN | | |
| MODEL N | AME | | |
| Start Warranty | | | End Warranty |
| DD/MM/YY | YY | | DD/MM/YYY |
| Outstand | ling Campaigns | | |
| Code Ty | fing Campaigns De | Description | Bulleting Proc. |
| Code Typ LXX- A.XX.XX | fing Campaigns De CAMPAIGN NA | Description ME | Bulletin Proc. |

i NOTE:

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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 S.p.A. has discovered that the Pydos system may not be accurate in detecting the car tilt level. The root cause of this problem is the wrong parameter setting and the scope of this service is to reparametrise the Pydos ECU with the aid of a specific tool. If not repaired the system could be activated also when tilt level does not require the activation. The campaign will be open until all vehicle will be updated.

Field solution

Update the Pydos ECU software and the instrument cluster software.

Spare parts.



IMPORTANT:

Do not start the service campaign in case you have not received the tool described in the "NECESSARY TOOL/MATERIAL" section.

The below spare part must be ordered and installed <u>ONLY</u> if the vehicle is fitted with the Pydos control unit that has the 470907721D part number and it <u>RE-</u><u>OUIRES</u> to be flashed.

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

- **Operation B** & C Label installation

| P/N | Description | Q |
|-----------|-------------|---|
| 470698993 | Label | 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 : 3.25 hours
- Operation C : 2.5 hours
- Operation D : 1.9 hours
- Operation E : 1.2 hours

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 .

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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 .

| Header | | | |
|-----------------|----------|-----------------------|---|
| 22 | ٠ | ۵ | |
| Proble A-Test 1 | Cost Cos | e 50 Service Campaign | • |
| B-Test 2 | | | |
| C-Test 3 | | | |

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

- OPTION B: Check Pydos part number and if 470907721D flash the ECU updating also the control unit 17 SW. *Steps to perform: I, II, III, IV, V, VI, VII and VIII.* manpower: *3.35 hours;* spare parts: 470.698.993
- OPTION C: Check Pydos part number and if 470907721D flash the ECU updating also the control unit 17 SW. *Steps to perform: I, II, III, IV, V,VI, VII and VIII.* manpower: 2.6 *hours;* spare parts: 470.698.993
- **OPTION D:** Update the SW of the control unit 17 *Steps to perform: I, II, III, VI, VII and VIII.* manpower: *1.9 hours;* spare parts: *n/a*
- **OPTION E**: Update the SW of the control unit 17 Steps to perform: I, II, III, IV, VI, VII and VIII. manpower: 1.2 hours; spare parts: n/a



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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.

| Services Beck Worped Services Unrests + Rater | Service/Service Service/Service Service Service |
|--|--|
| Numerikumer Numerikumer Numerikumer | Na med Vilawrer Na med Vilawrer Sa med Same |
| BenyDenankOetallina/Isaba | Owenite construction and a second and a se |
| Adder nach and Maganelandelann Meder Construction and an annual annual Nacha resonant He | Detainsprachene/Besenstreichener Inderer Bezug Zuber der Kosanstein Freierer Bezug Zuber der Kosanstein Inderer Bezug Zuber der Kosanstein |
| Brinklan der Kolonstroklander / follsame per in Derenkonen Prome / Volenahelt / follsame / Signalen / Signalen / Signalen / Signalen / Forma | сказали на сооказакана / Арутали на ни числумината / Соча в тих Виене Попол или если если (Околании / Околему или и Сочанията и На по / Околеми / Околеми / Брупски / Брупски / Оринов / Попол |
| Several Service Bernard Bernar | ServiceShrvite Bolt roman |
| Narmen/Narrier Narmen/Narrier Narme | |
| Date/Decov Deve/Serve/Serve | Batelbaran/SocioPecia |
| | Mediated (Inflamentation |

Necessary tools/material.



OTE:

The special tool in the below table for the Pydos control unit flashing should already been received by every Authorised Lamborghini service. In case you have not yet received it please contact the technical support.

| P/N | Description | Q |
|-------------|--------------------|---|
| 61653001466 | Pydos Special Tool | 1 |

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Work instructions

The update procedure here described includes the following steps:

- I. **Preliminary operations;**
- II. **Preconditions check;**
- III. Save a diagnostic log;
- IV. Check of the Pydos control unit index;
- V. Flash of the Pydos control unit index "D" with the service tool 61653001466;
- VI. Software update of the control unit 17;
- VII. Configuration of the expiration date of the Pydos control unit;

VIII. Erase fault memory

Preliminary operations I.

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

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

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



Make sure the last synchronization has been done after the 19th of June 2019.

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 |
| Ргоху | not used |
| Key file | /var/www/desert/certs/userkey.pem |
| Certificate | /var/www/desert/certs/usercert.pem |
| Tests | |
| Local file/directory permissions | ок |
| Disk space | ок |
| Provider reachable | OK (altair.mirrorserver2.net) |
| Repository reachable | OK (altair.mirrorserver2.net) |
| Feedback reachable | OK (altair.mirrorserver2.net) |
| Provider WebDAV access | OK (https://altair.mirrorserver2.net/deployment |
| Repository WebDAV access | OK (https://altair.mirrorserver2.net/storage) |
| Feedback WebDAV access | OK (https://altair.mirrorserver2.net/health) |
| Successful package downloads | 8 |
| Failed package downloads | 0 |
| Last Sync | 19/06/19 21:01:40 |
| Start tests | |



The instructions contained in this bulletin are based on ODIS Service diagnosis software updated to the release 5.1.5 (or following) and database Lamborghini 2.19.0 (please refer to BI.07.15 and be sure that ODIS Service on your laptop is updated).



2. Take note of the distance and the days remaining until the next service by reading the values from the menu on the instrument panel. For additional information on how to check the maintenance intervals, please refer to the Lamborghini LUM supplied with your car.

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



II. Preconditions check

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4. The first check to perform is to verify the status of the Pydos warning light (component A1 in the following image). If the warning light A1 is blinking it is necessary to replace the Pydos control unit, therefore order the correct control unit before to proceed in performing this service campaign.



IMPORTANT:

The Pydos control unit malfunction can be detected by the type of flashing of the warning light A1 on the passenger/driver side handles and acoustic beeps as described in the following table:

| | State | LED: Driver Side | LED: Passenger Side | Internal buzzer |
|------------|---|------------------------|---------------------------|--------------------|
| | Internal Emergency Supply Failure | Flashing 3 | Flashing 3 | OFF |
| | System OUT of WORK | Flashing 1 | Flashing 1 | ON |
| OLS | Lamp Check at KL15 On | ON for 2 sec. | ON for 2 sec. | OFF |
| gnosis err | Left inner/outer door handle switch failure | Flashing 1 | OFF | OFF |
| Dia | Right inner/outer door handle switch failure | OFF | Flashing 1 | OFF |
| | Left screw failure | Flashing 2 | OFF | OFF |
| | Right screw failure | OFF | Flashing 2 | OFF |

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The flashing modes of the LEDs are shown in the following table:

| Flashing 1 | Flashing 0,5 sec ON - 0,5 sec OFF (frequency = 1 Hz) |
|------------|--|
| Flashing 2 | Flashing 1 sec ON - 1 sec OFF (frequency = 0,5 Hz) |
| Flashing 3 | Ciclically 4 flesh in 2 sec. than 2 sec. OFF |

III. Save a diagnostic log

5. Before to start any other activity save the diagnostic protocol as described in chapter: **10.00.ODIS Saving the diagnostic protocol.**



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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 that you can find under the Portal, Warranty section).

IV. Check of the Pydos control unit index

6. Remove the rear bench to access the Pydos control unit.

To perform these operations, follow the instructions given in the repair manual at the following path:

08 Body→68 Interior trim→Rear bench liner→Disassembly/Assembly

7. Check the index of the Pydos control unit.



8. Read the production data on the Pydos control unit fitted in the car and note it down.



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The service tool 61653001466, is intended exclusively for updating the parameters of the Pydos control unit part no. 470 907 721 D (without any rework label, refer to the following image with the gree label "02S").

- If the Pydos control unit fitted in the car has the following part no. 470 907 721 D, perform the instructions from the step <u>V. Flash of the Pydos control unit</u> index "D" with the service tool 61653001466.
- 10. If the Pydos control unit fitted has an index different from "D", or if your Pydos control unit with index "D" is provided of the following label (refer to the following image with the gree label "02S"), perform the instructions from the step <u>VI. Software update of the control unit 17</u>.



The green label "02S" indicates that the control unit is already updated, therefore if the Pydos control unit fitted in your car has the same label the flash procedure with the service tool 61653001466 is not needed.

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V. Flash of the Pydos control unit index "D" with the service tool 61653001466

This step includes the following actions:

- Disconnect the battery and discharge the SCAP;
- Cigarette lighter disconnection (only for Aventador SVJ);
- Disconnect the wirings of the Pydos control unit;
- Connect the service tool 61653001466 to the Pydos control unit;
- Connect the battery and charge the SCAP;
- Flash procedure through the service tool 61653001466;
- Apply the label on your updated control unit to certify the update;
- Disconnect the battery and discharge the SCAP;
- Disconnect the service tool 61653001466 from the Pydos control unit;
- Connect the wirings of the Pydos control unit;
- Reassembly of the rear bench;
- Battery reconnection.

Carefully follow the instructions below to flash the Pydos control unit index "D".

11. Disconnect the battery and discharge the SCAP.

To perform these operations, follow the instructions given in the repair manual at the following path:

09 Electrical system→15 Battery→58Ah/340A battery→Removal/reinstallation

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12. The service tool 61653001466 requires a $12V_{DC}$ power supply, if the car inside is provided with it, connect to it, otherwise provide an alternative $12V_{DC}$ power supply.



13. Disconnect the wirings of the Pydos control unit.



14. Connect the service tool 61653001466 to the Pydos control unit.



IMPORTANT:

Make sure that the pins are correctly connected and close the green lid and the red button.



15. Connect the battery and charge the SCAP.

To perform these operations, follow the instructions given in the repair manual at the following path:

09 Electrical system→15 Battery→58Ah/340A battery→Removal/reinstallation



Since during the procedure the battery must be disconnected and reconnected again, it is sufficient to perform the individual operations for connecting the 58 Ah / 340 A battery and connecting and recharging the supercapacitor, without performing the other final operations indicated in the manual.

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16. Flash the Pydos control unit through the service tool 61653001466.

For an appropriate use of the service tool 61653001466, refer to the instruction manual attached in the "Appendix" section of this document. Then perform the following operations in sequence:

- Check of the control unit: To perform this action please refer to the instructions in: Appendix \rightarrow 5. *Check option*
- Flash of the control unit: To perform this action please refer to the instructions in: Appendix \rightarrow 4. Update the parameters of the car
- Final check of the control unit: To perform this action please refer to the instructions in: Appendix \rightarrow 5. Check option



The correctness of the check and update procedure with the service tool can be detected by the type of flashing of the warning lights on the service tool 61653001466, as described in the appendix.

17. Apply the label on your control unit to certify the update.



18. Disconnect the battery and discharge the SCAP.

To perform these operations, follow the instructions given in the repair manual at the following path:

09 Electrical system \rightarrow 15 Battery \rightarrow 58Ah/340A bat $tery \rightarrow Removal/reinstallation$



NOTE:

Since during the procedure the battery must be disconnected and reconnected again, it is sufficient to perform the individual operations for disconnecting the 58 Ah / 340 A battery and disconnecting and discharging the supercapacitor, without performing the other final operations indicated in the manual.

19. Disconnect the service tool 61653001466 from the Pvdos.



20. Connect the wirings of the Pydos control unit.

IMPORTANT:

Make sure that the pins are correctly connected and close the green lid and the red button.

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21. Disconnect the power supply from the service tool 61653001466.



22. Reassembly the rear bench.

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To perform these operations, follow the instructions given in the repair manual at the following path:

08 Body→68 Interior trim→Rear bench liner→Disassembly/Assembly 23. Connect the battery and charge the SCAP.

To perform these operations, follow the instructions given in the repair manual at the following path:

09 Electrical system→15 Battery→58Ah/340A battery→Removal/reinstallation

VI. Software update of the control unit 17

To correctly update the control unit refer to the procedure in the workshop manual regarding "*Implementation of an SVM code*".



IMPORTANT:

Improper use of this function can cause damage to the ECUs.

24. Select the function "17 - Identification" from the "Guided functions" of the control unit 17 to check if this operation is needed for the vehicle.



IMPORTANT:

The software update procedure is needed only if the software version installed on the control unit 17 of the vehicle is less than "0022" for Aventador S and less than "0013" for Aventador SVJ.

25. To start the procedure to execute an SVM code, select the "Special functions" tab in ODIS Service.

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26. Click on "SVM - Direct input: SVM for problemrelated update" and then on "Perform test".

| C Officiard E | hagnostic Information System Service - 4.3.3 | - 0 | A D Downeys Long Widday Rule Long | | |
|---------------|---|-------------------------------------|---|------------------------|-------------------------|
| Importer: | | Vehicle identification no.: | ZPBEA1ZLXKLA00104 | 2 📭 🨪 | (LAWEED COLUMN) |
| Dealer: | 00088 | Engine: | 4.01 V8 FSI / 478 KW | | \ 👰 / |
| Job: | | | | • | |
| Control un | its Jobs DISS TPI Test plan Sequence Special function | ins | | | Operating modes * |
| Tests for | the complete vehicle | _ | | | 🖓 Diagnosis |
| Status | Tests | | | * | 🍅 Self-diagnosis |
| | 0019 - Flight mode deactivation | | | | Flash re-programming |
| | 0019 - Transport mode activate/deactivate | | | | Test instruments |
| | 0021 - Enable/disable 48V system | | | | 😜 Info |
| | 0837 - Battery (12 V), check | | | | Admin |
| | Beta report Powertrain | | | | Protocol * |
| | * * - Immobilizer status of all control units | | | | General |
| | 0001 - Engine Electronics - immobilizer overal | status | | | To Puint |
| | 0002 - Gearbox electronics - immobilizer over | all status | | | Diagnostic protocol |
| | 002B - Steering column lock control unit - imm | obilizer overall status | | | 🥱 Send |
| | 0046 - Convenience system central module - immobilizer overall status | | | | 📄 Сору |
| | Software Versions Management (SVM) | | | | Send ext. |
| | Erase fault memory - overall system | | | = | Self-diagnosis protocol |
| - | SVM - Direct input: SVM code for problem-rela | ted update | | | D ANK |
| - | SVM - Specified /Actual Comparison | | | | Display |
| < | | п | | | C Arided in cycles |
| SVM - Di | rect input: SVM code for problem-related updateThe SV | M - Direct input: SVM code for prob | iem-related update is applied when a specific change to | control units is to be | Gi Cyclic stop |
| Perform | test Show documents | | | | » 🛛 🔾 |
| | | | | | |

27. Enter the campaign code "L73XA0319" in the appropriate space at the top right and click "Adopt".



- 28. The SVM code entered is again displayed in the dialog box. If the entered code is correct, click on "Yes", otherwise click on "No" to cancel the SVM procedure.
- 29. Wait for data to be acquired from all the control units. This operation requires few minutes.



30. To run the SVM function and access the Lamborghini servers, you must have a valid GeKo account. Ensure that the laptop is correctly connected to internet. Enter your GeKo username in the "User name" field and the PIN 1324 + the 6-digit code currently displayed on the GeKo token in the "Password" field.

| Ken m the | 1 uss word | 110 | nu. |
|----------------|------------|-----|--------|
| 🗢 DMS-BB logon | distant 1 | | X |
| User name | DPxxxxx | | |
| Password | ••••• | | |
| | | | |
| | Ado | pt | Cancel |
| | | | |

Click "Adopt" to confirm.

- 31. The SVM function will automatically continue with identification of the control units of the vehicle.
- 32. It might be necessary to perform one or more of the following operations in the SVM procedure:
 - Coding;
 - Parameterization;
 - Calibration.

To perform these actions, it is necessary to click on "Done/Continue" where requested following the instructions directly provided on the ODIS dialog screens.

33. Click "Done/Continue" until the control unit 17 updating procedure is completed.

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- 34. At the end of the function, switch the ignition OFF for few seconds, to allow the reset of the vehicle's on-board network.
- 35. Switch the ignition ON.
- 36. Select the function "17 Identification" from the "Guided functions" of control unit 17 and click "Execute".



37. At the end of the update procedure it is necessary to set the maintenance intervals previously annotated. Select "Self-diagnosis" from the "Operating modes".



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38. Select the dashboard control unit, ECU 17 and from the drop-down menu select "Adaption", then click on the green arrow to start the function.



39. Enter "52" in the text box at the top right and click on "Select Channel" to select the channel to set the remaining kilometers to the next service.



40. Enter in the "Input" box the km read from the instrument cluster and previously annotated. The next service must be entered in "km" and divided by 100 (E.g. if the initial value was 2500km, enter the value 25, i.e. 2500/100). Click on the "Apply" button to set the entered value.



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If previously the value read was expressed in miles before proceed please convert the value into kilometres. The next service must be entered in km. Clicking the "Adopt" button it is possible to check if the value updates correctly, both from the instrument cluster and from the "Value" field of the Odis Service dialogue screen.

41. Enter "54" in the text box at the top right and click on "Select Channel" to select the channel to set the remaining days to the next service.



42. In the "Input" box, enter the days read from the instrument cluster and previously annotated. To the next service (E.g. 365 = 365 days) and click on "Apply".



NOTE:

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After clicking the "Adopt" button it is possible to check if the value updates correctly, both from the instrument cluster and from the "Value" field of the Odis Service dialogue screen.

VII. <u>Configuration of the expiration date of the Pydos</u> <u>control unit</u>

The configuration of the expiration date of the Pydos control unit is necessary for all the vehicles involved in this campaign.

43. From the guided function of the control unit 17 select the function "17 - Pydos ECU replacement" and click "Execute".



44. Click the "Done/Continue" button to continue.

| Criticard Diagnostic Informat | ion System Service - \$ 0.6 | | | | |
|---|--|-----------------------------|---------------------------------------|-------|---------------------|
| Importer: | INT | Vehicle identification no.: | ZHWEM6ZD1KLA07277 | 🧢 🛼 🍗 | (LINE COLD TO THE |
| Dealer: | 00088 | Engine: | 6.5I V12 MPI / 586 kW – Aventador SVJ | | 、 帰 / |
| Job: | | | | | |
| Control units Jobs DISS | S TPI Test plan Sequence | Special functions | | _ | |
| J285_47_XXXX_1_041 | 8_88_set_Pydos_data | | | • | Done/Continue |
| Introduction | | | | | W |
| In this test pr steps are run • PYDOS ECU | ogram the follo through: J replacement | wing | | ~ | |
| Preconditions • Refer to the | s: workshop manua | l, chapter 09.81 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | Main Correl Inc. | i | * |
| | | | Hep Carteries | | 0 |
| | | | | A De | culture of the test |

45. Click the button -2- and perform the manual operation.

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NOTE:

The expiry of the Pydos battery must be set according to the production year of the Pydos control unit fitted in the car and previously annotated. Refer to the following image to identify the position of the production data label.



46. Click on "-1-" (Yes) and proceed with the manual procedure.



47. Check the date and time of the instrument cluster. Click on "Yes" if the date and time of the instrument cluster are correct, otherwise click "No" and set the correct values as described in the car's use and maintenance manual.

| Cribeand Dispropole Importer: Dealer: Job: | formation System Service = 5.0.6 INT 00068 | Vehicle identification no.: Engine: | ZHWEM6ZD1KLA07277 6.5I V12 MPI / 588 kW – Aventador SVJ | |
|--|--|--|--|---------|
| Centrol units Jobs J285_47_XXX_1 Display time data | DISS TPI Test alan Sec _0418_88_set_Pydos_dat | <mark>vence</mark> Special functions | | Yes D |
| Instrument | cluster -J285 tir | ne and date is now displayed. | | . 10 |
| 28.01.201 | 9 | | | |
| Is the time | e and date in Ins | strument cluster -J285 corr | ect? | |
| | | | | |
| | | | | |
| | | 14 4 5 51 | | - |
| <u>e</u> | | | Help Can | Celtest |

48. Click the "Done/Continue" button to initialize the expiration of the Pydos battery.

| OTDoard Diagrees | intornation Section Service - 3.01 | | | | |
|------------------|------------------------------------|-----------------------------|---------------------------------------|----------|----------------|
| Importer: | INT | Vehicle identification no.: | ZHWEM6ZD1KLA07277 | a 🖡 🍗 | (Linescente m) |
| Dealer: | 00008 | Engine: | 6.5I V12 MPI / 568 kW – Aventador SVJ | 16 B | |
| 306 | and some statements of | | | | \sim |
| Contraction and | 0.038 15 10 10 10 15 | Colorite Indestruktion | | _ | |
| Battery zero va | _1_0418_88_set_Pydos_c | lafa | | ► Dan | e/Continue 🐎 |
| 0.1.1.1 | | | | 14 | |
| Safety ch | eck. | | | | |
| The PYD | OS battery data i | is now stored to 0. | | | |
| | | | | | |
| Press Do | ne/Continue to c | ontinue | | | |
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| and a local | | COMPANY AND A STATE | | | |

49. Check the production date indicated on the label of the Pydos control unit and insert it in the appropriate field on the ODIS screen, then click on "Adopt".



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The format of the date to be inserted is the one shown in the example, and require to input only the year, e.g. "2018".

50. Click on "Yes" if the inserted date is correct, "No" to interrupt the procedure.



51. The number of days for the Pydos battery validity is displayed. Click "Done/Continue" to complete the Pydos battery life setting procedure.

| Criticalia Diagnoso (Pr | providion Sastein Service - 3.0.6 | | | | and the second |
|--------------------------|-----------------------------------|--------------------------------|---------------------------------------|----------|----------------|
| Importer: | | Vehicle identification no.: | ZHWEM6ZD1KLA07277 | an 🖡 🍗 | (LANSON LE TO |
| Dealer: | 00088 | Engine: | 6.5I V12 MPI / 588 kW - Aventador SVJ | | |
| Job: | | | | | |
| Control/Lente (Abba | DSS TPI Terraine Si | Clerce Scecial functions | | | |
| J285_47_XXXX_1 | 0418_88_set_Pydos_d | ata | | ► Done | Continue N |
| Battery adaption n | nanually | | | | |
| The PYDO | S battery data is | s stored correctly. | | ·*. | |
| The num | ber of davs be | fore the PYDOS battery needs r | eplacing is 2190 | | |
| | loor or adjo bo | | opidening to 2 100 | | |
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| | | | | | * |
| D. D. | | 10.0 | | - | H |
| 33 | | 16 6 2 2 | Help Carv | cel test | 0 |

VIII. **Erase fault memories:**

52. Once the previous steps has been completed, go back to the tab "Special Functions" and select "Erase fault memory - overall system" to clear all the faults stored. The complete guide in order to erase all fault memories is available in the workshop manual, chapter 10.00.B: Deleting the data in the fault memory of control units.

/* Diagnosis protocol saving */

At the end of the procedure, 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 */

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



- If the error message regarding the VAS5054 interii. face 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 installa-_ tion following the procedure (*) "VCI Manager v2.0", by entering in the menu "Extras" on the right side and clicking on "Diagnostic interface".

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- *iii.* 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".





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

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



- *v.* 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_SV M_2.0" (*)).

| 🔁 Login | | X |
|---|---|-------------|
| User name | | |
| Password | | |
| ODS1007E Connection: Negative respons | se from server: authentication: invalid user / password. The error ID i | s CBS0004E. |
| | Adopt | Cancel |

- *vi.* 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" (*)

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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_Syst em_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.



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



- *vii.* 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

- 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 | ок | |
| Disk space | ок | |
| Provider reachable | OK (altair.mirrorserver2.net) | |
| Repository reachable | OK (altair.mirrorserver2.net) | |
| Feedback reachable | OK (altair.mirrorserver2.net) | |
| Provider WebDAV access | OK (https://altair.mirrorserver2.net/deployment | |
| Repository WebDAV access | OK (https://altair.mirrorserver2.net/storage) | |
| Feedback WebDAV access | OK (https://altair.mirrorserver2.net/health) | |
| Successful package downloads | 8 | |
| Failed package downloads | 0 | |
| Last Sync | 19/06/19 21:01:40 | |
| Start tests | | |



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

MIMPORTANT 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

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APPENDIX



Technical data of the Service tool 616543001466

| Supply | $12 V_{DC} \pm 10\%$ |
|---------------------|-------------------------|
| Power consumption | Max. 4 A |
| Input consumption | Max. 50 W (short time) |
| Dimensions (B/H/T) | 90 mm x 36 mm x 108 mm |
| Weight | 328 g |
| Storage temperature | -20°C until 80°C |
| Working temperature | 5°C until 40°C |
| Safety type | IP40 |
| Serial interface | RS232C 19200 Baud (8N1) |

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1. Description of the device

This appendix contains all the information according to Section 3 of The Equipment Safety Act "Requirements and regulations for introducing a product onto the market" (in conjunction with The Machinery Directive 2006/42/EG in its latest, valid edition). It is intended for people who are employed on/with the machine, system, device (in the following mentioned as **MSD**) as described here.

This operating manual is part of the user's information for introducing an MSD onto the market and must be retained safely and be made accessible to the owner and operator of the equipment.

The operating manual must accompany the equipment when it is relocated.

1.2 Limitation of liability

Great care was taken when compiling these operating instructions. However, Löhnert Elektronik GmbH is unable to accept any liability for any errors contained in these operating instructions, or for the consequences of any such errors. Similarly, no liability will be accepted for any damage caused directly or indirectly as a result of improper use of the system or of use in a manner other than that intended.

1.2.1 Warranty

The warranty for this product is contingent on the contractually specified conditions.

If a declaration of conformity was issued it will be void if the operator has carried out modifications on the equipment.

1.2.2 Intended use

The service tool 61653001466 is intended for updating the parameters of the Pydos control unit, part no. 470 907 721 D, produced by Löhnert Elektronik GmbH. The parameters to be changed are the quiet condition limits of the control unit.



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Any other use or use going beyond this is not permissible and thus does not constitute intended use. For damage caused by unintended use the manufacturer cannot be held responsible. The risks involved in such use are the sole responsibility of the operator Intended use also includes following the operating instructions and the safety measures.

1.2.3 Prohibited use also intends

Prohibited use also intends:

- Unauthorized additions to or modifications of the tool;
- Improper use of accessories, apparatus and peripherals, etc.;
- Using operating material which has not been accepted by the manufacturer.

1.2.4 Copyright protection

These instructions are copyright-protected and only intended for use by Automobili Lamborghini S.p.A. and their authorized dealers.

Transmission of the instructions to third parties, reproduction of any kind and form – including in part – as well as utilisation and/or reporting of the contents are not permitted without written permission of the manufacturer, except for internal purposes.

In case of violations, we will claim compensation for damages. The right to make additional claims is retained.



NOTE:

The contents, information, texts, diagrams, images and other representations are copyright-protected and are subject to industrial property rights. Any infringement is punishable under the law.

1.3 Safety measures



The health and safety of employees can only be ensured if the safety measures described are observed during every phase of the system's life (construction, transport, installation, etc.).

Protective equipment must not be bypassed, removed or disabled.

The Service Tool shall only be used by persons who have been assigned to the task by their superior, have been instructed how to do it, and who are familiar with its operation.

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The information given in the operating instructions must be observed in all phases of operation. Please read the appropriate chapters in the manual carefully before beginning to work.

Operators and users alike are responsible for ensuring that the operating instructions are readily at hand when using the service tool 61653001466. In case of doubt, refer to the instructions for the correct operating procedure.

The operator is obliged to operate the service tool 61653001466 only in a perfect condition. Before use, the operator must check the condition of the tool and, if necessary, organize the replacement of the tool.

1.3.1 Residual risk

When observing the safety measures there will be no residual risk provided that the service tool 61653001466 is applied in accordance with its intended use.

2. Function

The service tool 61653001466 is intended for updating the parameters of the Pydos control unit part no. 470 907 721 D without any rework label, produced by the company Löhnert Elektronik GmbH. The parameters to be updated are the quiet condition limits of the control unit.



The service tool 61653001466 must only be applied on control units with the part no. 470 907 721 D.

3. Operation

Before disconnecting the Pydos for the flashing operation please check if the Pydos control unit is correctly working.



NOTE:

Refear to the table mentioned in the chapter II. **Preconditions check;**, to decript the meaning of the flashing of the Pydos warning light.

3.1 Connect the service tool 61653001466 with the car

3.1.1 Switch off ignition of the car

Wait for a time > 60 sec before disconnecting the Pydos control unit.

3.1.2 Disconnect the Pydos control unit



3.1.3 Connect the cable of the service tool 61653001466 with the Pydos control unit

Make sure that the pins are correctly connected and close the green lid and the red button.



Here follows two conditions NOT CORRECT to avoid.



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als. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make
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3.1.4 Connect the power cable with the cigarette lighter of the car





4. Update the parameters of the car

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Turn the ignition ON ("Key on"). The "Power" LED of the service tool is on, if not – see description of failures ($\boldsymbol{6}$. *Failure* description).



4.1 Press Start button

To start the update procedure press the "Start" button, the car parameters (quiet condition limits) are updated.



This operation takes up to 105 s. During this time the "Flash" LED flashes yellow.



The Pydos-LED of the service tool flashes twice for about 1sec each during the flash operation.

After this "flashing" operation, the "OK" or "Error" LEDs of the service tool give the feedback of the updating procedure.

• 4.1.1 The green "OK" LED on the service tool is permanently ON

If the green "OK" LED is permanently ON, the updating procedure was successful.



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NOTE:

At the end of the flashing process the Pydos LED must be off.

• 4.1.2 The red "Error" LED is ON

If the red "Error" LED is permanently ON or blinkin, the updating procedure was failed, refer to the following table for the failure cause.



| Status of the red Error LED | Failure |
|--------------------------------|---|
| Blinking | Invalid CONTROL UNIT |
| Dormonontly on | Parameters could not be updated. Please |
| remanently on | see description of failure |

4.2.3 Flashing procedure was successful

Having successfully completed step 3.3.2 (green LED is on) the Pydos control unit is automatically switched off. Only then proceed with step 3.3.4.

Otherwise there will be an entry in the failure memory of the control unit.

4.2.4 Apply the label "Updated to 02S" to the Pydos control unit

Apply the label only if the Pydos flashing procedure ended with a positive feedback.





5. Check option

If you press the "Check" button the service tool tests if this control unit contains the correct parameters.



This operation is optional and takes up to 95 s. During this check operation the OK-LED and the Error-LED are flashing alternately.

Having completed the Check the LEDs give the following feedback:

5.1.1 The green OK-LED is permanently on

The Pydos control unit already contains the new parameters.

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|------------------|-----------------------------------|---|----------|
|------------------|-----------------------------------|---|----------|



Apply the label "Updated to 02S" to the Pydos control unit – see 4.2.4 Apply the label "Updated to 02S" to the Pydos control unit

• 5.1.2 The red "Error" LED is ON



5.2 Disconnect the service tool 61653001466 from the car It is fundamental that you follow the steps in the correct order to avoid damages to the Pydos control unit.

- Check that the Pydos LED of the service tool 61653001466 is off;
- Switch off ignition of the car;
- Disconnect the power cable of the service tool 61653001466 from cigarette lighter of the car;
- Check that the green "Power" LED on the service tool is off;
- Disconnect the cable of the service tool from the Pydos control unit;
- Connect the Pydos control unit correctly with the cable harness of the car;
- Switch on the ignition of the car ("Key ON");
- The Pydos control unit is updated and fully functionable.

6. Failure description

6.1 The green "Power" LED is not on

You connected the service tool with the cigarette lighter of the car and the green "Power" LED on the power supply side is not on. Please check:

- Ignition of the car is on "Key ON";
- Power cable is correctly connected to the cigarette lighter
- Service Tool is correctly connected to the Pydos control unit: Please check the correct latching of the connector and make sure that the green lid and the red button are correctly closed.

6.2 Safety fuse (8A) inside the connector of the power cable

Check if the safety fuse (8A) inside the connector of the power cable to the cigarette lighter is defect and must be replaced.



6.3 Safety fuse for the 12V socket

If you are using the 12V socket of the car and the service tool doesn't work, check if the safety fuse inside the cigarette lighter of the car is defect and must be replaced.

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|--------|--|--|
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Check the fuse of your specific model year on the fuse carrier ST4.

6.4 Red Error LED is blinking

If the red "Error" LED is blinking having pressed the "Check" or "Flashing" button it has the following cause:.

6.4.1 The Pydos control unit type is not correct

It is a Pydos control unit 470 907 721 B or C. Please proceed as follows:

- Please stop using the service tool.
- Disconnect the service tool from the power supply.
- Disconnect the service tool from the control unit.
- Connect the control unit with the harness of the car.
- Check if the control unit is functionable see 3.1.

6.5 Red Error LED is permanently on

If the red Error-LED is permanently on having completed the Check- or Flashing operation it may have the following causes:

6.5.1 The parameters are not updated (only valid for Check operation)

Press the "Start" button to start the flashing operation.

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6.5.2 The parameters could not be updated.

Check the connector of the service tool to the Pydos control unit and restart flashing.

If flashing is still not working please contact the Lamborghini technical support.