



Model: Vespa Elettrica 45 km/h (USA/CANADA/LATAM)

Subject: New calibrations

Dear Dealer / Service Center,

We hereby inform you that a package of new calibrations dedicated to the models in question is available by downloading it from the P.A.D.S. diagnostic tool (update the tool to the latest version available).

The operation referred to above is to be included in the normal maintenance activities to be carried out at the same time as the pre-delivery, during the activities scheduled for services, or on the first convenient passage in the Workshop for vehicles in circulation.

- **BMS Battery Management System**

BMS map:

- **GU13FE_19**

Improvements introduced: Battery cell voltage reading improved.

- **EMD Electric Machine Device**

EMD map:

- **EVESPA_EMD_18.25**

Improvements introduced: Improved engine torque delivery.



- **Vehicle management ECU (VMS Vehicle management system)**

VMS map:

- **EVESPA_VMS_15.30**

Improvements introduced:

- Writing of the VIN (Frame Serial Number) in the ECU info of the VMS.
- Increase in the charging voltage of the service battery (12 Volt) from the DC/DC output.
- Increase in the charging current of the service battery (12 Volt) from the DC/DC output during network charging.
- Introduction of optimized charging of the service battery (12 Volt) during network charging.

- **Instrument cluster software update (DSB Dashboard)**

DSB map:

- **60-UD-83151.020**

Improvements introduced:

- modified management of the kilometer service (the next 5,000 km from the previous reset and no longer at fixed intervals).
- flashing of the battery icon added (1Hz, 50% duty) below the battery status threshold (SOC 10% activation, SOC 14% deactivation).



PROCEDURE

1. Update the P.A.D.S. to the latest version available.
2. Use the Bluetooth connection between P.A.D.S. and PC.
3. Perform the programming of the Battery Management System (BMS)
4. Perform the programming of the Electric Machine Device (EMD)
5. Perform the programming of the Vehicle Management System (VMS)
6. Perform the timing of the Electric Machine.
7. Perform the self-learning of the Demand Sensor.
8. Access the diagnosis of all control units in sequence (BMS-EMD-DSB-VMS) and delete the stored errors.
9. Write the VIN (Frame Serial Number) from the VMS adjustment section, if the system requires a password to be entered, and enter **Trai18**
10. Perform the network recharge test for at least 15 minutes.
11. Perform the road test.

Best regards,

Piaggio & C. SpA

Business Unit Aftersales

Operations & Technical Service