



Model: Vespa Elettrica 45 km/h

Subject: New software package - compatibility with 220 Volt 50 Hz and 110 Volt 60 Hz networks.

Dear Dealer / Service Centre,

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

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 those in circulation.

- **BMS map: GU13FE_13 (prior map GU13FE07- USA/CAN)**
 - BMS Battery Management System

Improvements introduced:

- Improved management of the switch closure during network charging
- Improved management of the capacitors pre-charge during network charging

- **EMD map: EVESPA_EMD_18.23 (prior map 18.18-USA/CAN)**
 - EMD Electric Machine Device

Improvements introduced:

- Improved delivery around 25km/h (15mph)
- Improved control of the over-revving



- **VMS map: EVESPA_VMS_15.30 (prior map 15.18-USA/CAN)**
 - Vehicle management ECU (VMS Vehicle management system)

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.

PROCEDURE

1. Update the PADS to the latest version available.
2. Use the Bluetooth connection between PADS 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/synchronization of the Electric Machine drive. (Mandatory after VMS remapping- performed under adjustments in VMS)
7. Perform the self-learning of the Demand Sensor. (Mandatory after VMS remapping)
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