



**Model:** Vespa Elettrica 25 km/h, Vespa Elettrica 45 km/h, Vespa Elettrica Motociclo 52 km/h, Vespa Elettrica 70 km/h

**Subject:** New calibrations

Dear Dealer / Service Centre,

Please note that a package of new maps for the models mentioned can now be downloaded from the P.A.D.S. diagnostic tool (update the tool to the most recent 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\_25** (*Vespa Elettrica 25 km/h, Vespa Elettrica 45 km/h, Vespa Elettrica Motociclo 52 km/h*) *New release*
- **CZ32RB\_17** (*Vespa Elettrica 70 km/h*) *New release*

Improvements introduced:

- Improved management of voltage equalization of the battery cells.

- **EMD Electric Machine Device**

EMD map:

- **EVESPA\_EMD\_19.25** (*Vespa Elettrica 25 km/h*) *Issued on 2/12/2019*
- **EVESPA\_EMD\_18.25** (*Vespa Elettrica 45 km/h*) *Issued on 2/12/2019*
- **EVESPA\_EMD\_20.25** (*Vespa Elettrica Motociclo 52 km/h*) - *Issued on 2/12/2019*
- **EVESPA\_EMD\_21.25** (*Vespa Elettrica 70 km/h*) *Issued on 11/06/2020*



Improvements introduced:

- Improved engine torque delivery.
- **Vehicle management ECU (VMS Vehicle management system)**

VMS map:

- **EVESPA\_VMS\_16.30** (*Vespa Elettrica 25 km/h*) Issued on 11/06/2020
- **EVESPA\_VMS\_15.32** (*Vespa Elettrica 45 km/h*) Issued on 11/06/2020
- **EVESPA\_VMS\_17.32** (*Vespa Elettrica Motociclo 52 km/h*) Issued on 11/06/2020
- **EVESPA\_VMS\_18.46** (*Vespa Elettrica Motociclo 70 km/h*) Issued on 11/06/2020

Improvements introduced:

- Error corrected that could lead to the non-entry of the VIN (Frame Serial Number) in the ECU info of the VMS. (*Vespa Elettrica 25 km/h, Vespa Elettrica 45 km/h, Vespa Elettrica Motociclo 52 km/h, Vespa Elettrica 70 km/h*)
- Improved off/on key management with reverse mode engaged (*Vespa Elettrica 25 km/h, Vespa Elettrica 45 km/h, Vespa Elettrica Motociclo 52 km/h, Vespa Elettrica 70 km/h*)
- Improved VMS fan diagnosis below 55° C during diagnostics (*Vespa Elettrica 70 km/h*)
- **Instrument cluster software update (DSB Dashboard)**

DSB map:

- **60-UD-83151.020** (*Vespa Elettrica 25 km/h, Vespa Elettrica 45 km/h, Vespa Elettrica Motociclo 52 km/h*) Issued on 2/12/2019  
(*Vespa Elettrica 70 km/h*) Issued on 11/06/2020

Improvements introduced:

- modified management of the kilometre 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 programming of the instrument cluster (DSB).
7. Perform the timing of the Electric Machine.
8. Perform the self-learning of the Demand Sensor.
9. Access the diagnosis of all control units in sequence (BMS-EMD-DSB-VMS) and delete the stored errors.
10. Write the VIN (Frame Serial Number) from the VMS adjustment section, if the system requires a password to be entered, and enter **Trai18**
11. Perform the network recharge test for at least 15 minutes.
12. Perform the road test.

Best regards,

Piaggio & C. SpA

Business Unit Aftersales

Operations & Technical Service