



Model: Aprilia motorcycle (various models)

Subject: Management and operation of the Li (Lithium) battery code 2D000579

Dear Dealer / Service Centre,

the ever-increasing use of Lithium (Li) batteries on Piaggio Group motorcycle and scooter models requires an in-depth examination of the specific manner in which this type of battery is handled and used.

In the specific case of the model in question, the reading, the understanding and the implementation of that specified in the paragraphs below will help to avoid situations of failed starts, vehicle immobilisation and battery deterioration due to incorrect management of the battery.

Storage of an Li (Lithium) battery

An Li (Lithium) battery must be charged at least every 6 months during the storage period.

First installation of an Li (Lithium) battery

Always carry out a charge of at least 4 hours, following the instructions in the chapter "Charging an Li battery" below, before installation on the vehicle.

Charging an Li (Lithium) battery

Only specific, dedicated chargers should be used to charge an Li (Lithium) battery .

The charging voltage must not exceed 15V (irreversible damage to the battery) or be less than 14V (failure to reach 100% of the possible charge) and the charging amperage must not exceed 2A.

The use of Pb acid battery chargers causes irreversible damage.

Do not use charge maintainers but charge the battery periodically for approximately 30 minutes every 2 months of inactivity of the vehicle it is fitted on.

The use of boosters to start the engine results in irreversible damage to the battery.



Using an Li (Lithium) battery

When starting the engine, each attempt must not exceed 5 seconds and an interval of a further 5 seconds must be observed after each attempt.

After 5 consecutive start attempts, it is necessary to wait 3 minutes before pressing the start button again.

An Li (Lithium) battery suffers a reduction in its starting capacity at ambient temperatures $<0^{\circ}\text{C}$ that may not allow the engine to start.

In such cases, the battery can be connected to the charger for 30 seconds or the vehicle headlights can be switched on for 1-2 minutes (battery warm-up).

The battery status can be checked by pressing the 'test' button on the battery.

Ready to use		
Charging suggested		
Charging necessary		
Abnormal		

Always attach a photo of the test result for any reports of battery problems.

Guides and manuals

We also invite you to consult the Li (Lithium) battery manufacturers' user guides for each vehicle/model, available in printed or electronic form in the packaging of the battery.

Please contact the Technical Help-Desk of our Technical Support Service for any queries or assistance.

Best regards,

Piaggio & C. SpA
Aftersales Business Unit
Operations & Technical Service