

**SERVICE BULLETIN****MAY 2009****Subject: Voltage regulator****Topic: Requests under warranty for inadequate charging of the battery**

Model	Model numbers
Derbi Mulhacén 125	E92N02*
Derbi Mulhacén 125 Café	E92N03*
Derbi Terra 125	E92H68*
Derbi Terra 125 Adventure	E92H70*
Derbi GPR 125 4T	E92H71*
Derbi Senda DRD R 125 4T	E92H76*
Derbi Senda DRD SM 125 4T	E92H77*

Dear Customer,

Please note that during the last few months we have received several requests for the replacement, under warranty, of the voltage regulator part number 486062 (relative to vehicles with a 125 c.c. 4-stroke 4v engine) because it does not charge the battery correctly. After having received and analysed the above-mentioned regulators, we have determined that they work properly.

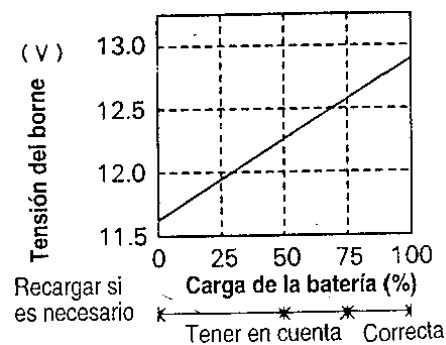
The right charge data are listed as follows:

Criterion to check	Value	Where to check
Regulator output voltage	13.8 to 15V at 6,000 rpm	Red and yellow / green cable
Alternator resistance Winding insulation	from 0.3 to 0.6 $\Omega$ :	Between the yellow cables Between the yellow cable and ground

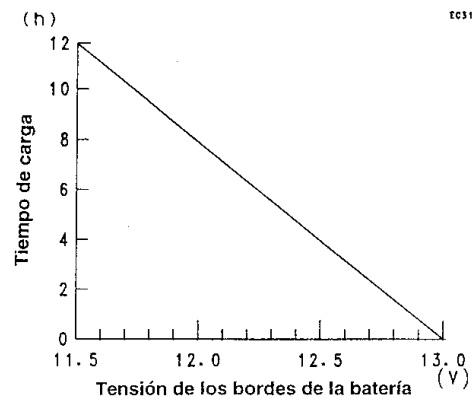
If charging problems persist even after having checked that the charge data are correct, you will find below the parts of the vehicle to be inspected in order to identify the possible cause of failure:

Criterion to check	Value	Where to check
Battery charge state	according to graph (1)	Between battery terminals
Current drain when vehicle is off	< 1 mA	Insert a milliampere meter between the system ground cable and the battery negative terminal

(1) battery charge state



Moreover, please remember how important it is to charge the battery correctly when it is new or when it needs recharging (as a general rule a charge has to be applied equal to 1/10th of the battery's capacity. **To comply with this it is essential to use a charger that is ideal for battery capacity**). An incorrect charge will alter the service life of the battery. Please find enclosed, for your information, an indicative graph featuring the standard charging values:



Finally we inform you that we are auditing (*Authority*) any new request under warranty received for this regulator. Therefore, for any additional requests you might be sending us in the future you will have to specify the charging values measured on the vehicle.

Thank you in advance for your cooperation.

Best regards,

Technical service  
Piaggio & C. S.p.A.  
"Brand Derbi"