

# Made in Italy for Vespa

## The unique electronic ignition system, 12v 90W with variale timing.



The ultimate for Lambretta owners who wish to use a reliable and efficient scooter, bright lights during the day and night, reliable running with no moving parts

The technical features are as follows:

- Timing adjusts automatically, with a pre programmed curve of up to 8 degrees
- Nylon fan, light with good air flow for cooling. Can be used with the standard cowls
- High power output, 12V 90W easy starting, greatly improved performance
- HT coil and regulator are both efficient and compact, can easily be fixed anywhere
- The regulator supplies a clean current assuring stable current for long life for bulbs and electrical systems
- Regulator can be used for both AC and DC, battery charge out will even allow you to run a PC or mobile phone!
- The power of the regulator is both powerful and strong, even at low revs there is enough power to run 35W halogen bulbs, giving safe riding night or day
- Twin sparks on each revolution also burns the waste gasses still in the cylinder, greatly reduces pollution
- The easy interchangeable nature of the system and its parts makes maintenance and repair very easy, without the need for specialist charges
- The electrical components can be replaced with just two bolts, with no need to reset or adjust the timing. All parts are checked and tested by us.
- All kits supplied complete including electrical diagram and securing spanner



12V 90

### **GENERAL SPECIFICATIONS**

Name: Flywell Magneto

## MECHANICAL SPECIFICATIONS

	Counterclockwise (viewed smaller taper side
	500 rpm ~ 12000 rpm
IS	The deformation of outside diameter must be 0.05 max under 14000 rpm Test for 3 minutes
	By static ballance <10 g cm or less
	12 Kg cm <sup>2</sup>
	1270 Kg
Stator	0.470 Kg
Rotor	0.800 Kg
Between s	tator and rotor 0.55 mm Min
fellow ele	ctroplated coatng of zinc (Tmin guaranteed = 150° C)
	is Stator Rotor Between s 'ellow ele

C.D. Ignition system (Thyristor)

### **ELECTRICAL SPECIFICATIONS**

Ignition method

Number of sparks 2 sparks per revolution at 180°







## MEANING OF SYMBOL

 $\neg n$  Supplied power

Ignition timing before top lead dead center

r.p.m.

θ

N

Vo Secondary voltage 50pF loaded NOTE The core of the stator must be at earth potential with the engine

## RESISTANCE VALUES OF COILS (AT 20°C)

Measuring place Resistance value (OHM)

GREEN/EARTH	290 ±20%
YELLOW/EARTH	0.4 ±20%

#### HANDLING PRECAUTIONS FOR FLYWHEEL

- 1. No use of hammer when mounting or removing from the engine
- 2. Use only the specified puller when removing from the engine
- 3. Every kind of impact must never be applied: the ferrite segments may be damaged.

## IMOLA RACING Tino Sacchi www.lambretta.it - Tel. / fax 02 90631759

## FLW 6008 STANDARD PERFORMANCE



## SPECIFICATIONS

Storage temperature Operating temperature Allowable temperature

Maximum regulate current

## **ELECTRICAL CHARACTERISTICS**

Regulate voltage

Regulate voltage

(AC) 12.7 ±0.5 Vrms (Battery full night circuit, 5000 rpm Ta=25°C Temp. coefficiency max ±8mV/°C (DC) 14.5 ±0.5 Vrms (Battery full day circuit, 5000 rpm Ta=25°C Temp. coefficiency max ±12mV/°C

-30 ~ +80°C

-10 ~ +80°C

(AC) Max 9 Aave

(DC) Max 5 Aave

SCR (AC) Junction Max +125°

SCR (DC) Junction Max +125°

Condenser surface Max +105°

Leak current Max 0.1 mA Insulating resistance Min  $50M\Omega$ 

## RELIABILITY

Satisfy with the electrical chracteristics each reliability testing - Mechanical shock 980m/s<sup>2</sup> (100G). Shocked two times in each or X,Y and Z directions.

**Dell'Acqua Engineering** 

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- Temperature cycling 100 cycles each consisting of +100°C 1 hour and -20°C 1 hour in atmosphere
- Vibration 196 m/s<sup>2</sup> (20G), 50 to 500 Hz/15 minutes log sweep for 4 hours in each of X, Y and Z directions
- Operate acceleration AC 5 Aave, DC 3Aave, 500 cycles each consisting of 30 min. ON/30 min OFT.
- Salt splay 5% salt water immersion 96 hours
- Weight 48 g