

Made in Italy for Vespa

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

Sostituendo l'albero motore del modello PX Can be fitted in all Vespa's engine from 1958 with PX's cranckshaft



The ultimate for Vespa owners who wish to use a performant 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 securing spanner and puller;
- On demand: programmable timing CDI by PC.



12V 90\

GENERAL SPECIFICATIONS

Name: Flywhell Magneto

MECHANICAL SPECIFICATIONS

| Direction of rotation | | Counterclockwise (viewed smaller taper side |
|--|---|--|
| Range of revolution | | 500 rpm ~ 12000 rpm |
| Guaranteed Revolutions | | The deformation of outside diameter must be 0.05 max under 14000 rpm |
| | | Test for 3 minutes |
| Limit of umballance | | By static ballance <10 g cm or less |
| Momenti di inerzia | | 12 Kg cm ² |
| Total weight | | 1566 g |
| | Stator | 517 g |
| | Rotor | 1050 g |
| Air Gap Between stator and rotor 0.55 mm Min | | stator and rotor 0.55 mm Min |
| Surface treatment | urface treatment Yellow electroplated coatng of zinc (Tmin guaranteed = 150° C) | |

C.D. Ignition system (Thyristor)

ELECTRICAL SPECIFICATIONS

Ignition method Number of sparks







MEANING OF SYMBOLS

 $\neg n$ Supplied power Θ Ignition timing be

Ignition timing before top lead dead center

r.p.m.

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.



Quattrini Engineering Made in Italy

FLW 6008 STANDARD PERFORMANCE



SPECIFICATIONS

Regulate voltage

Regulate voltage

Storage temperature Operating temperature Allowable temperature

Condenser surface Max +105° Maximum regulate current (AC) Max 9 Aave

ELECTRICAL CHARACTERISTICS

(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

(DC) Max 5 Aave

SCR (AC) Junction Max +125°

SCR (DC) Junction Max +125°

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

RELIABILITY

- Satisfy with the electrical chracteristics each reliability testing - Mechanical shock 980m/s² (100G). Shocked two times in each or X,Y and Z directions.
- Temperature cycling 100 cycles each consisting of +100°C 1 hour and -20°C 1 hour in atmosphere
- Vibration 196 m/s² (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