Vespatronic

variable electronic ignition

Indispensabile per chi pretende affidabilità e prestazioni, raccomandata dai migliori meccanici, restauratori ed elaboratori. Date due ali in più alla vostra Vespa!

Irrinunciabile per chi vuole avere **una Vespa performante**, affidabile ed ecologica, sicura di giorno e di notte, senza più problemi di anticipo, puntine e condensatore.

- **Regolazione automatica** dell'anticipo con curva predeterminata (gap 8°)
- Masse rotanti con accuratezza di bilanciatura; l'assenza di vibrazioni aumenta il comfort, la vita dei cuscinetti e non sottrae potenza.
- **Ventola in nylon caricato,** leggera ed ad alta portata per un sicuro raffreddamento del gruppo termico con lo stesso convogliatore originale. Questa ventola non produce cavitazione.
- **Elevata potenza 12V/90W,** quindi accensioni pronte e prestazioni superlative in ogni condizione.
- Regolatore di tensione **efficiente e compatto** quindi sistemabile in qualunque posizione; fornisce corrente stabilizzata per assicurare **lunghissima durata alle vostre lampadine**. Uscita per caricare la batteria o per collegare telefonino, PC, ecc.
- La potenza del generatore consente una efficiente illuminazione anche a bassi giri e l'adozione anche di **lampade da 35W** o alogene. **Sicurezza** sia di giorno che di notte.
- **La doppia scintilla** consente di bruciare i residui di gas incombusti ancora presenti nel cilindro quindi ecologica.
- **Intercambiabile,** montaggio e manutenzione facilissima anche per i non professionisti, senza chiavi speciali. Schema elettrico, estrattore e chiave inclusa.
- Sostituzione del gruppo elettronico con solo **due viti** senza bisogno di nuove messe in fase o saldature
- **Protezione totale** dagli spruzzi d'acqua e dall'immersione (in acqua pulita).

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

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

- ***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. Spanner and puller included*
- *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.*

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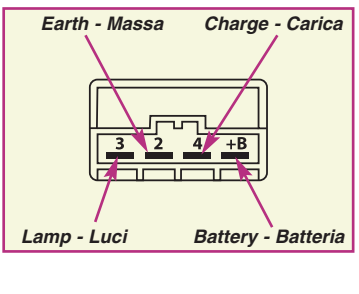
12V 90W

GENERAL SPECIFICATIONS
Name: Flywhell Magneto

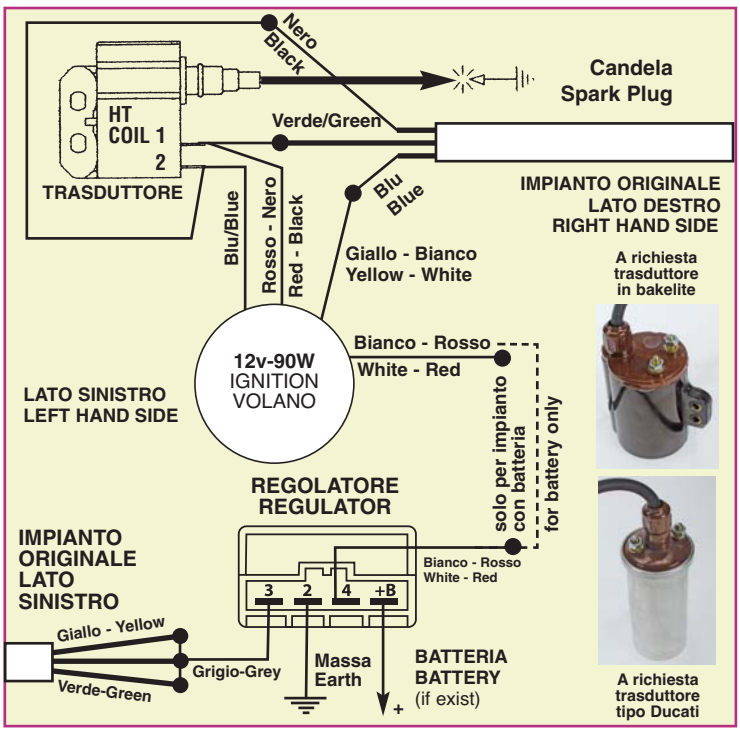
MECHANICAL SPECIFICATIONS
Direction of rotation: Counterclockwise (viewed smaller taper side
Range of revolution: 500 rpm ~ 12000 rpm
Guaranteed Revolutions: The deformation of outside diameter must be 0.05 max under 14000 rpm
Test for 3 minutes
Limit of umballance: By static ballance <10 g cm or less
Momenti di inerzia: 12 Kg cm²
Total weight: 1566 g
Stator 517 g
Rotor 1050 g
Air Gap: Between stator and rotor 0.55 mm
Min
Surface treatment: Yellow electroplated coatng of zinc (Tmin guaranteed = 150° C)

ELECTRICAL SPECIFICATIONS
Ignition method: C.D. Ignition system (Thyristor)
Number of sparks: 2 sparks per revolution at 180°



ACTUAL CIRCUIT

PX SCHEME - SCHEMA PX



MEANING OF SYMBOLS
- ⊃n Supplied power
- ϴ Ignition timing before top lead dead center
- N r.p.m.
- Vo Secondary voltage 50pF loaded
- NOTE The core of the stator must be at earth potential with the engine.

SCHEMA CONTROLLO DELLE BOBINE
RESISTANCE VALUES OF COILS (AT 20°C)

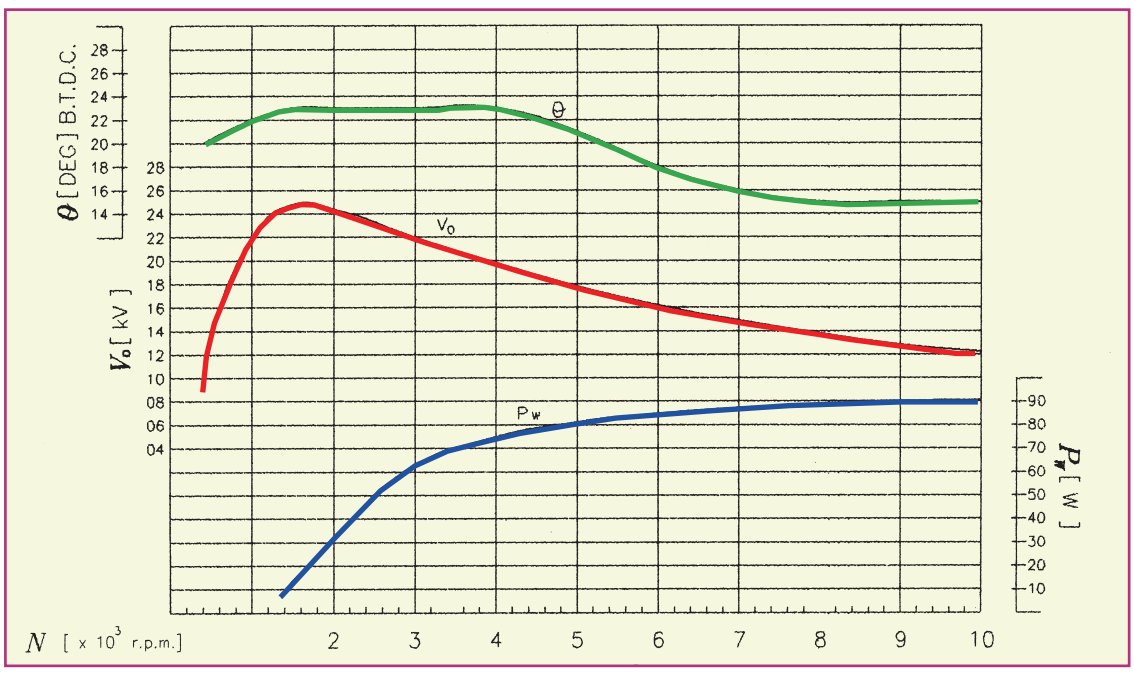
MEASURING PLACES PUNTI DA MISURARE	RESISTANCE VALUE (OHM) VALORE DI RESISTENZA
Red-White / Blu - Earth Rosso-Bianco / Blu - Terra	Less then 6 Meno di 6
Red-Black / Earth Rosso-Nero / Terra	290 ± 20%

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.

The fault of bearings and/or the twisting of the crankshaft can damage the stator and/or the rotor. The over revs, the poor quality of these parts the absence of manteinance can provocate the damage of the ignition unit.

La rottura dei cuscinetti e/o lo svergolamento dell'albero motore può provocare il danneggiamento dello statore e/o del rotore. I fuorigiri, l'insufficiente qualità di questi componenti, l'assenza di manutenzione può provocare di conseguenza il danneggiamento dell'accensione.

FLW 6008 STANDARD PERFORMANCE



SPECIFICATIONS
Storage temperature: -30 ~ +80°C
Operating temperature: -10 ~ +80°C
Allowable temperature: SCR (AC) Junction Max +125°
SCR (DC) Junction Max +125°
Condenser surface Max +105°
Maximum regulate current: (AC) Max 9 Aave
(DC) Max 5 Aave

ELECTRICAL CHARACTERISTICS
Regulate voltage: (AC) 12.7 ±0.5 Vrms (Battery full night circuit, 5000 rpm Ta=25°C
Temp. coefficiency max ±8mV/°C
Regulate voltage: (DC) 14.5 ±0.5 Vrms (Battery full day circuit, 5000 rpm Ta=25°C
Temp. coefficiency max ±12mV/°C
Leak current: Max 0.1 mA
Insulating resistance Min 50MΩ

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