

GENERAL SPECIFICATIONS

Name: Flywheel Magneto

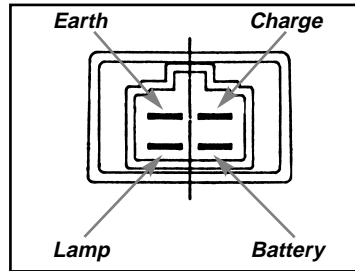
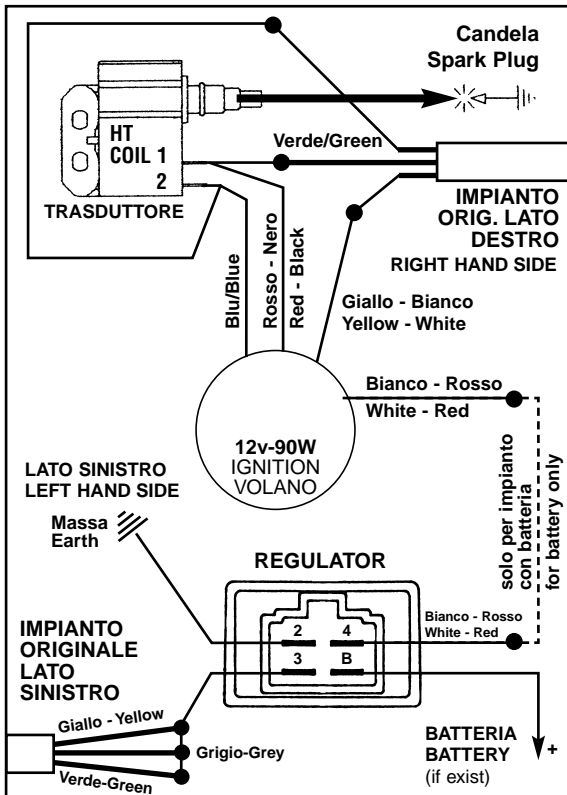
MECHANICAL SPECIFICATIONS

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 umbalance 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 coating 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



MEANING OF SYMBOLS

$\Rightarrow n$ Supplied power
 θ Ignition timing before top lead dead center
 N r.p.m.
 V_o Secondary voltage 50pF loaded
 NOTE The core of the stator must be at earth potential with the engine

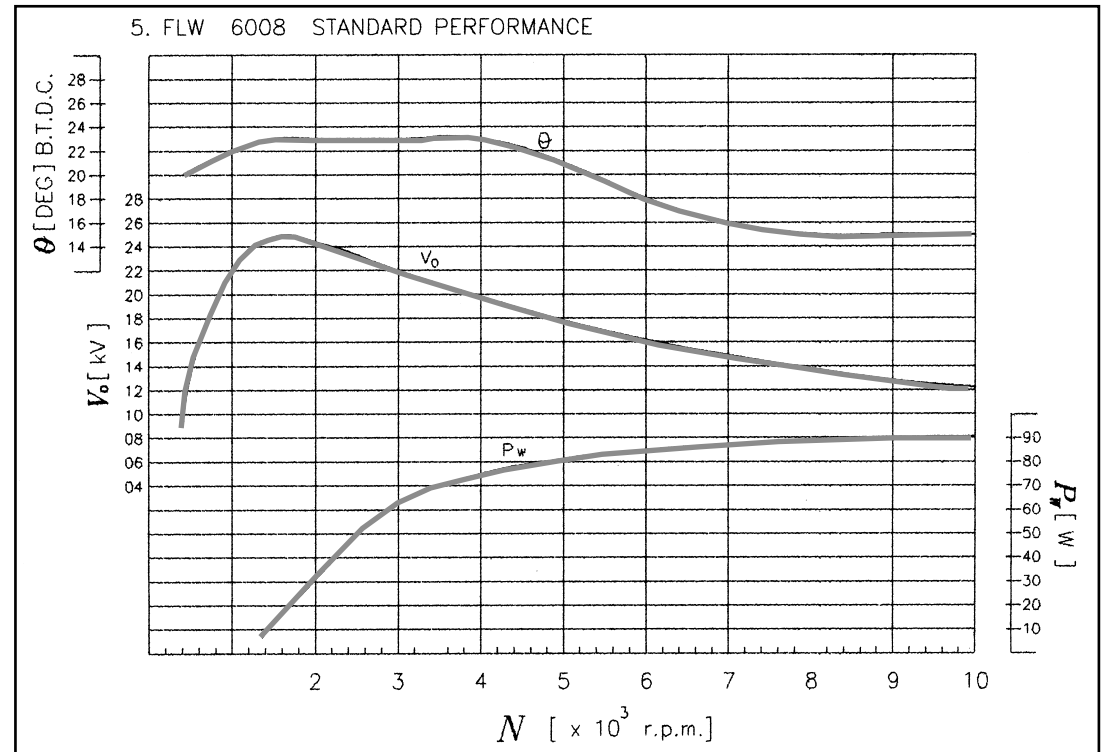
RESISTANCE VALUES OF COILS (AT 20°C)

Measuring place	Resistance value (OHM)
GREEN/EARTH	290 ±20%
YELLOW/EARTH	0.4 ±20%

HANDLING PRECAUTIONS FOR FLYWHEEL

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

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. coefficient max ±8mV/°C)
 Regulate voltage (DC) 14.5 ±0.5 Vrms (Battery full day circuit, 5000 rpm Ta=25°C Temp. coefficient max ±12mV/°C)

Leak current Max 0.1 mA
 Insulating resistance Min 50MΩ

RELIABILITY

Satisfy with the electrical characteristics 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 OFF.
 - Salt spray 5% salt water immersion 96 hours
 - Weight 48 g