Chheda Electricals & Electronics Pvt. Ltd.

Product Category: **ELECTRONIC IGNITION UNIT**

Application:

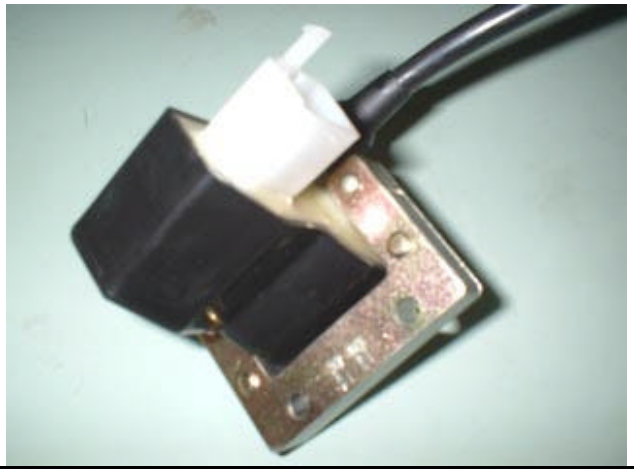
BAJAJ M-80

OEM Part No: **16111124**
Ordering Part No: **E105**

Also referred to as:

- "Igniter"
- "Two-In-One"
- "Combined CDI & HT Coil"

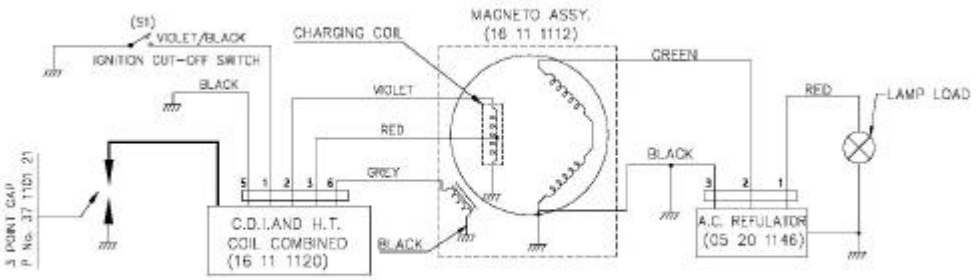
PRODUCT PHOTO



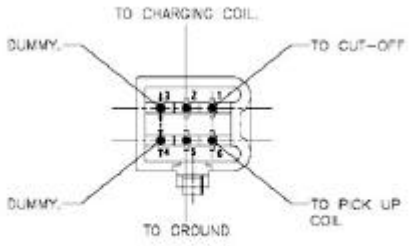
Advantages :

1) Reduced Costs due to reduced inputs as compared to separate CDI and HT Coil.
2) Improved productivity and lower labour costs due to lesser number of operations for fitment.
3) Higher reliability due to elimination of potential failure modes.
4) Fail safe circuits against faulty connections .

APPLICATOIN DETAILS



APPLICATION CIRCUIT DIAGRAM



COUPLER CONNECTIONS

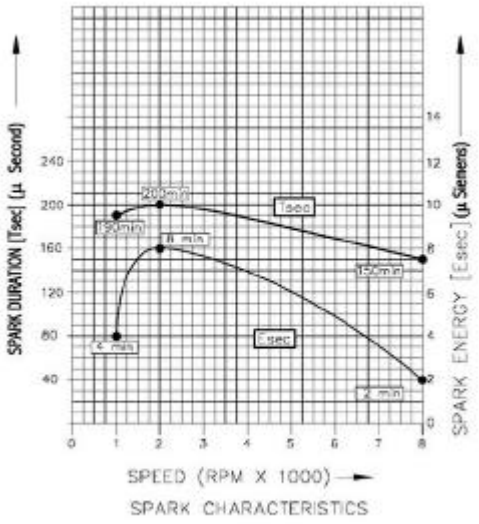
SPECIFICATIONS

1.0 GENERAL SPECIFICATIONS:

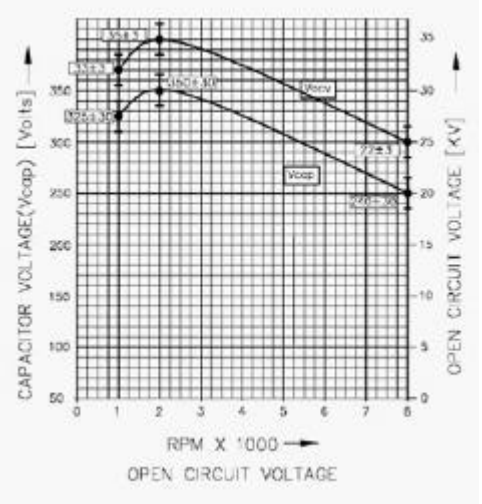
SR. NO.	ITEM	SPECIFICATIONS
1.1	TYPE	CAPACITIVE DISCHARGE IGNITION UNIT WITH H. T. COIL
1.2	SPEED RANGE	350 TO 8000 RPM
1.3	IGNITION SYSTEM	AC
1.4	NUMBER OF SPARKS / REVOLUTION	1
1.5	WEIGHT	300 GMS. APPROXIMATELY
1.6	OPERATING TEMP. RANGE	-10°C TO +85°C
1.7	STORAGE TEMP.	-40°C TO +85°C
1.8	OPERATING ENVIRONMENT	DRY OCCASIONAL SOAKING OF DUST/WATER/MUD/OIL
1.9	ASSOCIATED COMPONENTS	A) MAGNETO ASSEMBLY (16 11 1112 B) A. C. REGULATOR (05 20 1145)

SR. NO.	ITEM	SPECIFICATIONS
2.1	IGNITION TIMING	22±2BTDC
2.2	IGNITION ADVANCE CHARACTERISTIC	FIXED
2.3	LOW SPEED TRIGGERING (SPARK GAP=8±0.1 mm)	475 RPM Max.
2.4	TRIGGER INPUT (FROM PULSER COIL	REFER DRG. 16 11 1115 (FIG 1) POSITIVE TRIGGER FOR PULSER COIL CHA
2.5	SPARK DURATION (T sec) (NOMINAL) (SPARK GAP=8±0.1 mm)	200 µSEC. Min @ 2000 RPM (REFER FIG. 4)
2.6	SPARK ENERGY (E sec) (NOMINAL) (SPARK GAP=8±0.1 mm)	7 µ SIEMENS. Min @ 2000 RPM (REFER FIG. 4)
2.7	CAPACITOR VOLTAGE (Vcap) (NOMINAL)	350 V NOM. @ 2000 RPM (REFER FIG. 5)
2.8	OPEN CIRCUIT VOLTAGE (Vocv) (NOMINAL)	35 V NOM. @ 2000 RPM (REFER FIG. 5)
2.9	RISE TIME OF SECONDARY VOLTAGE	15 Micro Seconds @ 1500 RPM

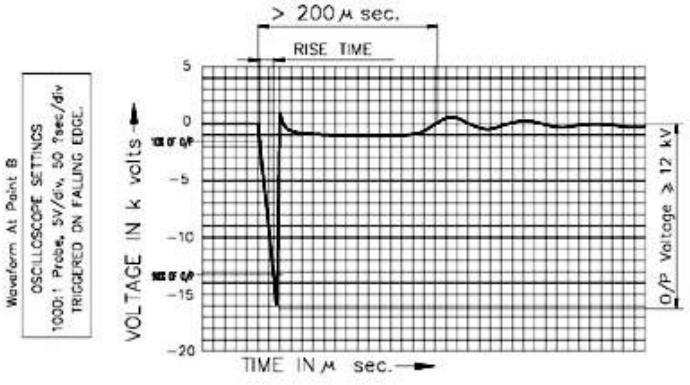
PERFORMANCE GRAPHS



SPARK CHARACTERISTICS

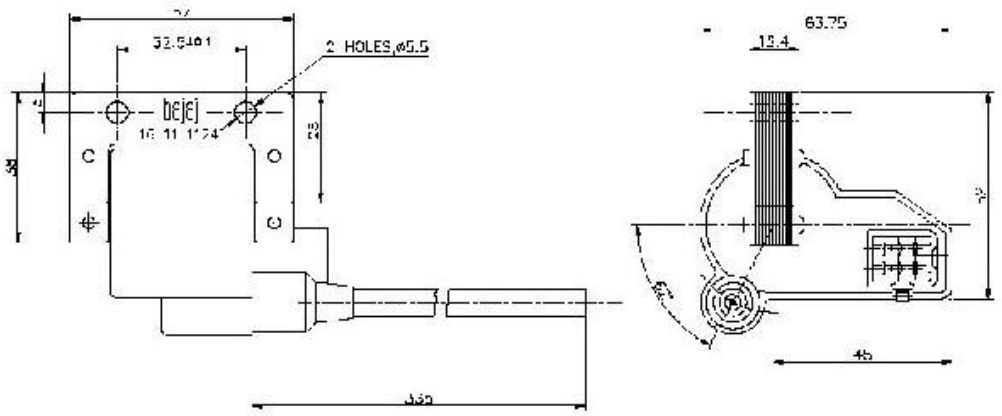


OPEN CIRCUIT VOLTAGE



WAVEFORM FOR TRIGGER START RPM & SPARK DURATION

DIMENSIONS



CONTACT

Chheda Electricals & Electronics Pvt.Ltd.,
14, Hadapsar Industrial Estate, Pune 411013, INDIA
Ph : 91-020-6817780, 6876950
Fax : 91-020-6876948
Email : ignition@vsnl.com
Website : www.masterignition.com