

# ALTERNATOR POWERED IGNITION SYSTEM FOR TRIUMPH/BSA 3 CYLINDER RACING MOTORCYCLES (NOT FOR KICK STARTING)

## FITTING INSTRUCTIONS FOR 3 CYLINDER ALTERNATOR POWERED IGNITION SYSTEM WITH ELECTRONIC ADVANCE/RETARD.

### COMPRISING:-

- a) IGNITION ELECTRONICS BOX
- b) STATOR PLATE (round printed circuit board)
- c) MAGNETIC ROTOR (plated steel unit with three magnets)
- d) TWO COIL LINK WIRES
- e) 1.25x0.25"CAP HEAD SCREW AND WASHER
- f) 6xFEMALE SPADE, 2xMALE SPADE, 6xMALE BULLETS, 4xFEMALE BULLETS, 1x6.5mm RING TERMINALS.

YOU WILL ALSO REQUIRE 3 off 6 VOLT IGNITION COILS LUCAS TYPE 17P6 OR EQUIVALENT. 4 VOLT COILS CAN ALSO BE USED WITH THIS SYSTEM.

A WHITE LIGHT STROBE LAMP WITH A 12 VOLT BATTERY OR IT CAN BE POWERED FROM THE RED IGNITION BOX WIRE WHEN THE ENGINE IS RUNNING.

- 1) MOUNT THE IGNITION BOX IN A COOL POSITION THIS CAN BE OUT OF THE AIR FLOW BUT NOT IN FOAM RUBBER.
- 2) WIRE UP AS PER THE DIAGRAM USING ONLY GOOD QUALITY AUTOMOTIVE CABLE. LOOME UP ALL WIRES AND RUN THE TWO STATOR WIRES APART FROM THE MAIN WIRING. (black-white/black-yellow)
- 3) SET THE ENGINE ON ITS FULL ADVANCE TIMING POINT (38deg.BTDC) MOUNT THE ROTOR AND STATOR AS PER FIG 2 & 3 CHECK THE VALVES ARE CLOSED AS THE UNIT FIRES EVERY 120deg.CAMSHAFT EVERY 240 deg.CRANKSHAFT THIS MAKES EVERY SECOND TIMING MARK A NON FIRING POINT.
- 4) STROBE TIME AT 5000 RPM. ANTICLOCKWISE ADJUSTMENT OF THE STATOR ADVANCES THE TIMING.

Fig. 2 The magnetic rotor

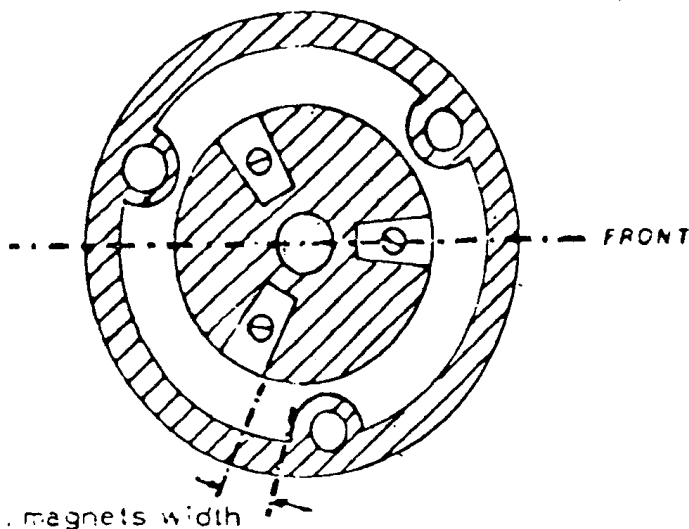
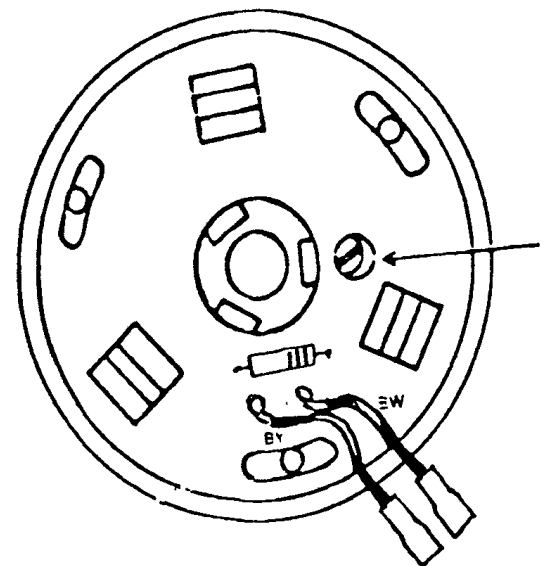


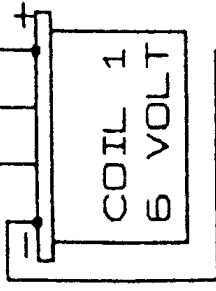
FIG. 3

A MAGNET RETAINING SCREW IN THIS POSITION SHOULD BE VISIBLE THROUGH THE TIMING HOLE



HT. OUTPUT  
1

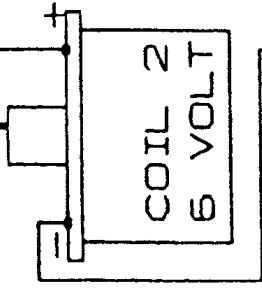
RED



COIL 1  
6 VOLT

2

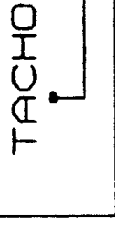
BLUE



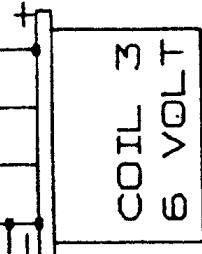
COIL 2  
6 VOLT

3

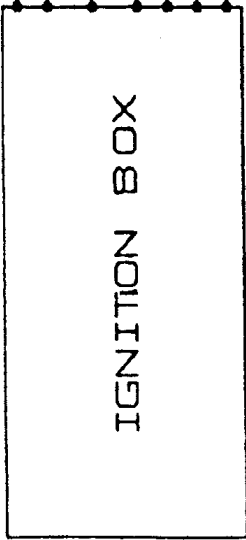
TACHO



KILL SWITCH

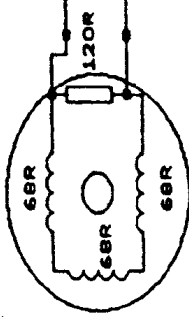


COIL 3  
6 VOLT



IGNITION BOX

IGNITION STATOR

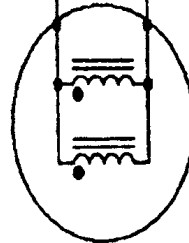


BLACK-WHITE

BLACK-YELLOW

YELLOW

YELLOW



ALTERNATOR

BLACK

CHASSIS NEG. EARTH

BOYER BRANSDEN ELECTRONICS LTD.

FRINDSBURY HOUSE

COX LANE

DETLING MAIDSTONE

KENT ME14 3HE

TITLE: 3 CYL ALTERNATOR POWERED IGNITION UNIT

SIZE: Document Number

REV: A TRIPALIGN.MIR

Date: January 10, 1990 Sheet 1 of 1