

## SMITHS PROGRAMMABLE TACHOMETERS

### MGB 12 VOLT NEGATIVE EARTH APPLICATIONS

Part Number: **37H4320**

#### Caution

**Disconnect the negative battery cable prior to any installation**

#### INSTALLATION GUIDE & APPLICATION NOTES

- For fitment to negative earth vehicles only.
- Operating voltage: 11 – 17volts DC
- Input signal:

Petrol Engines

- Contact breaker ignition (coil)
- ECU tachometer output

Harness connections		
Wire Colour	Pin No.	Connect to
Brown/slate	1	Pull up for open collector ECU output
Red/white	2	Illumination 12volt supply (side light feed)
Red/blue	3	Tacho output from ECU or contact breaker or alternator 'W' terminal
White/black	4	If your tacho fails to operate smoothly, the signal may be of a high sensitivity. Use the white/black wire <i>instead</i> of red/blue wire (above).
Black	5	Ground/Chassis or battery negative
Green	6	Switched ignition positive 12volt supply (via 3A fuse)

#### QUALITY PARTS AND ACCESSORIES



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## CALIBRATION

The tachometer is calibrated/programmed by setting a combination of seven switches located under the grommet on the back case. Remove the grommet to access the switches.

Notes:

- The switch setting must be completed with the power off.
- Set the switches prior to installing the tachometer.

The table overleaf shows the switch settings relative to the number of pulses per engine revolution.

To assist with the switch setting, the table below shows the number of pulses per engine revolution versus the number of cylinders for both single spark and 'wasted' spark ignitions.

### Petrol Engines Only

Number of Cylinders	PPR - Pulses per Revolution	
	Single Spark Ignition	Wasted Spark Ignition
1	0.5	1
2	1	2
3	1.5	3
4	2	4
6	3	6
8	4	8
10	5	10
12	6	12

## WARNING LIGHTS

The HIGH BEAM Light is white/blue wire, to be connected to the +12V side of the high beam circuit. The black wire to true 0 volts.

The IGNITION Light is brown/yellow wire, to be connected to the alternator charge warning light output. The green wire goes to +12v.

Included with the gauge is a 68 Ohm 5 watt resistor. Some alternators require a load resistance to get them to charge. The wire colours of the resistor are matched to the gauge wiring colours, green=12V & brown/yellow to the alternator charge warning light output. If required, connect one end of the resistor to the warning light output on the alternator and the other end of switched 12 volts.

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