



Caerbont Automotive  
Instruments

*"The original makers of SMITHS instruments"*

## Instructions for Semi programmable Tachometer

**Petrol Engines only**

### Caution

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

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Terms and conditions apply.

For further information go to the Caerbont  
Automotive website "[www.caigauge.com](http://www.caigauge.com)"

Products designed and manufactured under  
ISO 9001:2000 quality standard.

## Installation Instructions

GUAGE TO BE FITTED TO NEGATIVE EARTH VEHICLES only

### Application Notes

OPERATING VOLTAGE: 11-17VDC:

NOTE: instrument is equipped with a 12v lamp  
INPUT SIGNAL:-

Contact breaker ignition (coil).  
ECU tachometer output

COMPLIES WITH 95/54/EC,ISO7637 & ISOTR 10605

### Installation

When mounting the gauge in an instrument panel, cut a hole  
in the instrument panel suitable to fit the diameter of the  
gauge and clearance for the depth and wires.

Mount the tachometer in the instrument panel and connect  
the wires as below:

Green Connect to switched ignition power source.  
(+ve) via 3A fuse  
Black Connect to ground. (- ve))  
Red/White Connect to dash lamp power  
Brown/slate used only for hour meter of Tacho with  
hours counter

### Signal Input alternatives

The circuit diagram shows all alternatives, only one is  
needed.

White/Black Connect to Tacho output of electronic  
ignition  
Red/Blue Connect to negative side of ignition coil  
(distributor side)

## Calibration

The electronic tachometer is calibrated (programmed) by  
setting a combination of four switches found on the rear of  
the instrument. To gain access to these switches, remove  
the hole plug.

Set the switches prior to installing the instrument.

**Note:-** The switch setting must be done with the power  
"off"

**Calibration Procedure:-** Set the switches to the  
Correct values for the number of cylinders.

(Refer to the table below)

Locate the setting, then set the switches marked "O" to  
"OFF" (down).

### Calibration Switch Settings: (petrol engines)

No of cylinders	Pulses/rev	Sw 1	Sw 2
8 cylinders	4	ON	OFF
6 cylinders	3	OFF	ON
4 cylinders	2	OFF	OFF
2 cylinders	1	ON	ON

### Switch 3:-

**OFF, unless**

Tacho outputs on some ECU'S and some sensors require  
resistive load to 12 volts to operate (open-collector output)  
Turning Switch 3 ON will provide this.

### Switch 4:-

**NOT used for calibration and should be  
Switched 'OFF'**

