



Caerbond 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 Caerbond
Automotive web site "www.caigauge.com".

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

Installation Instructions

GAUGE 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'**