

# FITTING INSTRUCTIONS

## CAUTION

GAUGE TO BE FITTED TO **NEGATIVE EARTH VEHICLES ONLY**

DISCONNECT THE BATTERY CABLE PRIOR TO INSTALLATION

### GENERAL INFORMATION:

**OPERATING VOLTAGE:** 11-17VDC: NOTE-Instrument is equipped with a 12v lamp.

**INPUT SIGNAL:** Magnetic sensor, Hall effect speed transducer, Digital ECU

COMPLIES WITH 95/54/EC, ISO7637 & ISOTR 10605 for Electro-Magnetic Compatibility.

### CALIBRATION:

The Programmable speedometer is calibrated (programmed) by setting a combination of ten switches found on the rear of the instrument. To gain access to these switches remove the hole plug by pressing above the center to allow a small coin, screwdriver, etc. to be inserted in the slot behind the upper edge. The odometer and speedometer are electronically linked together and are both calibrated when the switches are set correctly. Set the switches prior to installing the instrument.  
**NOTE:** The switch setting must be done with the power 'OFF'.

### CALIBRATION PROCEDURE:

Calculate the "calibration number" from the appropriate formula below. (the number obtained must be within the range of 2500 to 135625 pulses/unit distance). Refer to the 'CALIBRATION SWITCH SETTING' table with this number. Locate the setting which is nearest to the calibration number, then set the switches marked with "0" to the "OFF" position (down).

**EXAMPLE:** Calibration number=18142: therefore, switches 1,2,3,5,6,7,8,9 are switched "OFF" (Switch settings 0001000001).

#### Calibration Number

(Unit distance = miles or kilometres)

1) Front wheel mounted slotted disc / tone wheel (visible through magnetic sensor threaded hole)  
 Calibration number =  
 Number of slots in slotted disc x (tyre revs/unit distance)

2) Propeller shaft / tail shaft mounted magnetic sensor (4 pole):  
 Calibration number =  
 (Tyre revs/Unit distance) x differential ratio x 4

3) sender driven from transmission cable drive:  
 Calibration number =  
 (Cable turns/unit distance) x (number of pulses/sender turn)

### INSTALLATION:

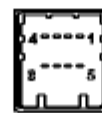
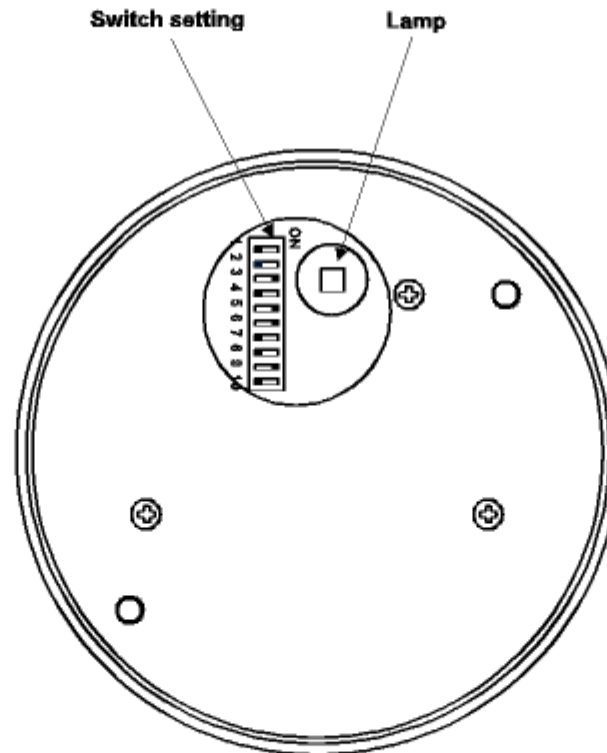
When mounting the gauge in an instrument panel, cut a hole in the instrument panel suitable to fit the rear of the gauge, with sufficient depth to accept the instrument and connector.

Connect the wires as described below with the power 'OFF', and the test before finally fixing into place.

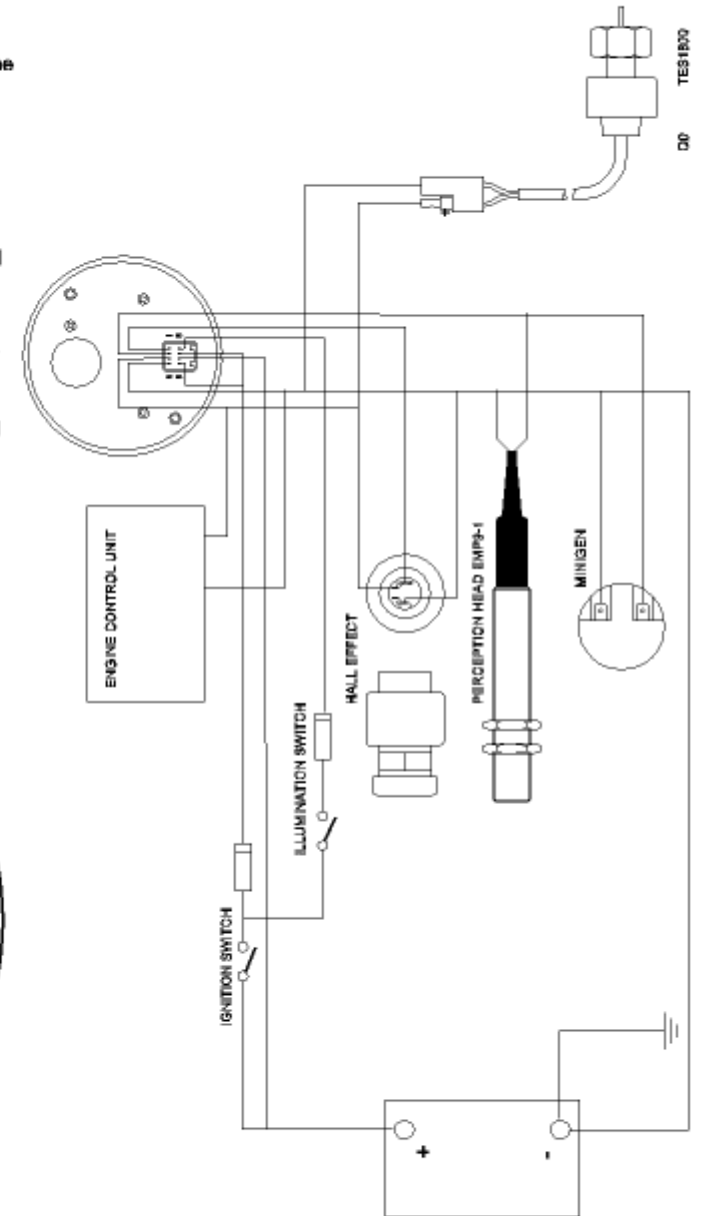
GREEN -Connect to ignition power source. (+ve)  
 BLACK - Connect to ground and sensor wire. (-ve)  
 BROWN/SLATE - Connect to battery. (+ve) if required, Lcd will be switched on when ignition is switched off.  
 RED/WHITE - Connect to dash lamp power  
 RED - Connect to ignition (+ve) if pull up input required

Sender unit connection options:-

WHITE/BLACK - Connect to ECU or Hall effect speed transducer (NOT both)  
 RED/BLUE - Connect to magnetic sensor input  
 LIGHT GREEN/PURPLE - Connect to 8v input on hall effect speed transducer.



1	GREEN
2	BROWN/SLATE
3	RED
4	RED/WHITE
5	BLACK
6	WHITE/BLACK
7	RED/BLUE
8	LIGHT GREEN/PURPLE



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