



Caerbont Automotive
Instruments

"The original makers of SMITHS instruments"

Instructions for 80mm/100mm 12volt Smiths MotorSport Prosport Tachometers

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

Caerbont Automotive Instruments Ltd
Abercrave, Swansea, SA9 1SH,
United Kingdom.

Tel: +44-1639-732200
Fax: +44-1639-732201

Terms and conditions apply.

For further information go to the Caerbont
Automotive web site "www.caigauge.com".

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

INSTRUCTIONS

Prosport Plus - featuring max revs recall.
Prosport F1 - featuring max revs recall and shift LEDs.

USE ON NEGATIVE EARTH VEHICLES ONLY

INSTALLATION

To fit the tachometer, either an 80mm or 100mm clearance hole is required—appropriate to the model. A suitable location must be selected to fit the programming switches and their labels—2 holes 6.35mm (1/4") are required in a flat area large enough for the legend labels (enclosed). Ensure orientation of the toggle switch is correct (see diagram).

The harness provided should be connected as follows.

- Green - connect to switched positive 12 volt supply.
- Black - connect to ground.
- Red/White - connect to dash lamp power.
- White/Black - connect to switched side of ignition coil of contact breaker ignition system. OR
- Red/Blue - Connect to ECU or electronic ignition tachometer signal.

OPERATION

1. Set the number of engine cylinders.

For conventional ignition systems, 1 coil and 1 distributor:

With the ignition switched off, press and hold the menu/select button. (Keeping the button pressed) switch on the ignition. Release the button and the pointer will move to the factory setting of 4 cylinders. Each subsequent press of the menu/select button will increment the pointer by 1000rpm (or 1 cylinder), up to a maximum of 12 cylinders. When the number of cylinders exceeds the full scale then the pointer will move backwards with each minor chaplet (scale mark) representing a 1 cylinder increment. If 12 cylinders is exceeded, then the sequence will restart at 1 cylinder (1000rpm).

For lost spark ignition systems:

These systems have two double ended coils and no distributor. Connect the white/black lead to one coil only. The procedure is as above but the values must be halved, so for 4 cylinders the setting will be 2000rpm (not 4000).

When the pointer is at the correct cylinder number, press the toggle switch to the set/adjust position to store the set up and return to normal operation.

For other ignition systems please contact our technical support team at technical@caigauge.com

2. Shift LED Threshold Setting (F1 model).

Each shift LED is independently adjustable within the limits of the non-compressed scale. To alter the settings at any time (engine running or not) press and release the menu/select button once.

The green LED will illuminate first and the pointer will move to the current green LED threshold setting. To raise the threshold, press the set/adjust toggle switch—either hold down to increase at a constant rate, or press and release to move in tiny steps. If the maximum is exceeded then the setting will cycle back to the minimum.

To adjust the amber LED, press the menu/select button again, this time the amber LED will illuminate with the pointer indicating the amber LED setting. Adjustment is as described for the green LED.

Press the menu/select button again to adjust the red LED. After setting each value, press the menu/select button once to move to LED intensity setting or press twice to return to normal operation.

3. Shift LED Intensity Setting

Following the threshold setting of the red LED (as described in item 2. above), the next (fourth) press of the menu/select button will illuminate all three of the LEDs. The intensity of the LEDs can be increased by pressing the set/adjust toggle switch. The intensity will increase while the switch is pressed, up to a maximum level. Once the maximum level is reached the illumination cycles back to minimum.

The final press of the menu/select button will store the last setting and return the unit to normal operation.

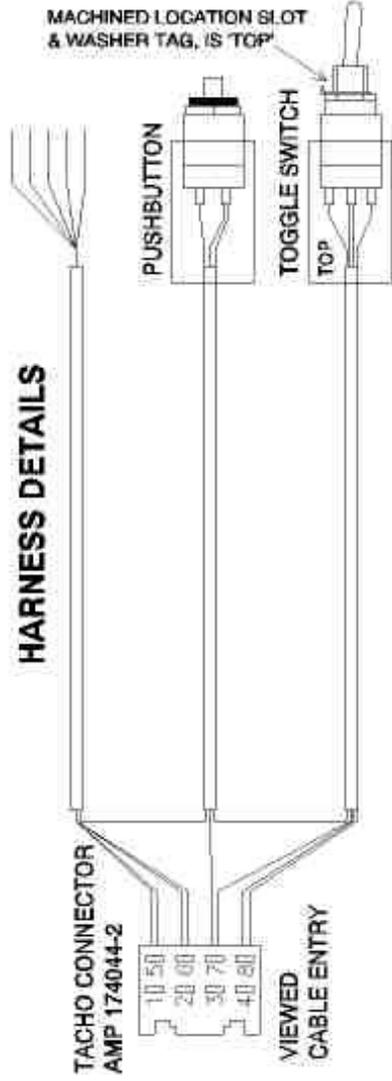
4. Recall Max Engine Speed.

Simply press RECALL. The pointer will move to the previous maximum revs. This value is retained with the ignition off.

5. Recall Reset.

Press RECALL three times to clear the previous maximum revs. After each press of the RECALL toggle switch, wait for the pointer to indicate the maximum revs before repressing. If the RECALL has been pressed twice and then the previous maximum revs has been exceeded, three more presses will be required to reset. Once ignition is switched off, three more recalls will be required to reset when ignition is switched on.

HARNES DETAILS



PUSHBUTTON



TOGGLE SWITCH
(TOP)



LEAD	COLOUR	FUNCTION
1	GREEN	SWITCHED POSITIVE 12V SUPPLY
4	RED/WHITE	ILLUMINATION SUPPLY
5	BLACK	GROUND
6	WHITE/BLACK	TACHO SIGNAL (CONTACT BREAKER)
7	RED/BLUE	TACHO SIGNAL (ECU, MSD, ETC)