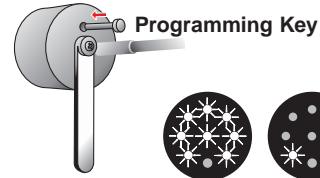


3 - TEACHING THE PD8... We recommend that the engine is at normal operating temperature and the idle speed is correct

We highly recommend that you programme the PD8 with the example programme shown in Section 4 and test the motorcycle. When you are familiar with the programming sequence, you can re-programme the PD8 with your own requirements at any time.

First, you must teach the PD8 your motorcycles idle speed and 3000RPM indication:

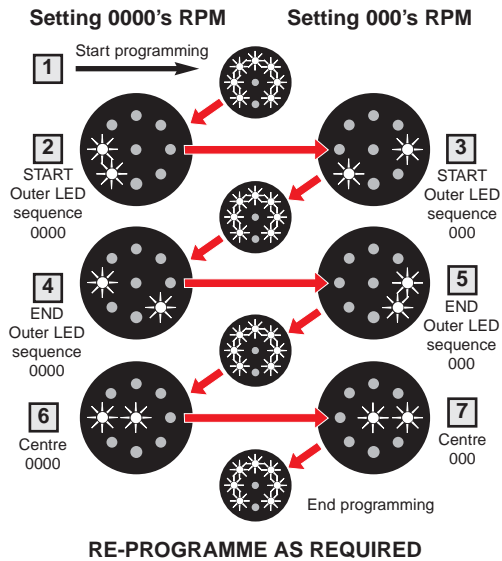
- Start the motorcycle, insert the programming key in the rear of the PD8 and press and hold for approx. 10 seconds, the LEDs will scroll for approximately 1.5 seconds then stop at LED 1.
- With LED 1 flashing and the motorcycle idling, insert the programming key again and press once. The LEDs will scroll and stop at LED 3.
- With LED 3 flashing increase RPM to 3000 (as accurately as possible), with the RPM stable at 3000 insert the programming key again and press once, the LEDs will scroll and stop. **LED 1 and 2 will stay on. You now have 30 seconds to go to step 2 in SECTION 4 and start programming.**



'Teaching the PD8' is required for installation purposes only, TO PROGRAMME OR RE-PROGRAMME THE PD8 GO TO SECTION 4

4 - PROGRAMMING OR RE-PROGRAMMING THE PD8...

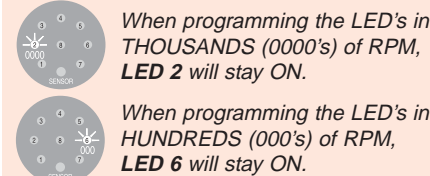
The Outer LED ring **MUST HAVE** at least 300RPM between the start [2] and the end [5] RPM settings



Understanding the Example Programme:

When programming, the start and stop point of the LEDs can be set in units of thousands (0000) and units of hundreds (000).

The example programme shows the first LED (1) being set at 2400RPM and the last LED (7) being set at 3500RPM (min. 300RPM difference). The unit will automatically illuminate the LEDs between the first and last relative to the RPM. The Centre LED is programmed to illuminate at 2900RPM.



To set an LED with 0 RPM, press and hold the programming key until the next LED illuminates.

if no activity is detected for 30 seconds during programming, you must start programming again.

Example Programme for outer LED ring:

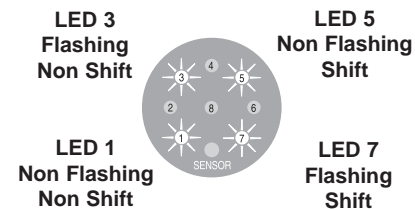
- The LED's will scroll.
- LED 1 and 2 will stay on.** (LED 1 shows you are programming the start of the sequence and LED 2 shows you are programming in 0000's) Press the programming key 2 times (2000RPM), LED 2 will go out with each press. Wait 3 seconds.
- LED 1 and 6 will stay on. (LED 6 shows you are programming in 000's) Press 4 times, (400RPM), LED 6 will go out with each press. The LED's will scroll.
- LED 7 and 2 will stay on. (LED 7 shows you are programming the end of the sequence and LED 2 shows you are programming in 0000's) Press the programming key 3 times (3000RPM), LED 2 will go out with each press. Wait 3 seconds.
- LED 7 and 6 will stay on. (LED 6 shows you are programming in 000's) Press 5 times (500RPM), LED 6 will go out with each press. The LED's will scroll.

Example programme for Centre LED:

- Centre LED and LED 2 will stay on (0000). Press the programming key 2 times (2000RPM), LED 2 will go out with each press. Wait 3 seconds.
- Centre LED and LED 6 will stay on (000). Press the programming key 9 times (900RPM), LED 6 will go out with each press. The LED's will scroll and stop.

To re-programme the PD8 with your own requirements, insert the programming key in the rear of the unit, press and hold for 2 - 4 seconds, this will take you to step 1.

5 - CUSTOMISE LED's



Insert the programming key in the rear of the unit and press once (do not hold or you will enter programming).

Using the programming key, move the illuminated LED to the customised setting required, after 3 seconds the LEDs will scroll and go out.

Shift = all LEDs come on at once
Non Shift = LEDs come on in sequence

Both can be set for flashing or non flashing



INSTALLATION AND SETUP

Acumen Electronics Ltd
PO Box 6230
Basingstoke
RG25 2WA
United Kingdom
www.acumen-electronics.co.uk

North American Distributors
ActionStations Inc
(888) 922 9269
www.ActionStation.com
www.RiderStation.com

1 - BEFORE YOU START...

You will find the following equipment in the PD8 box:

- Programmable Display
- Installation kit - mounting arm, screw, washer, programme key and cable ties
- Filter and Facia kit - 4 filters (blue/yellow/red and diffusing) and spare facia
- Installation and setup instructions
- Popular motorcycle fitting information

Should you have any doubts or problems with the installation process, it is highly recommended that you consult your dealer BEFORE removing any panels or cutting any wires.

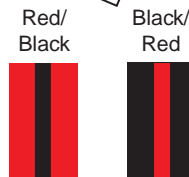
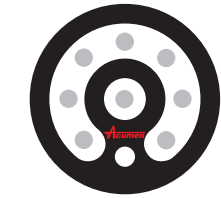
Additional equipment is required for the installation process:

- Basic tools to remove motorcycle panels
- Soldering equipment
- Insulating tape
- A test meter may be required to identify required wires within the wiring harness

The popular motorcycle fitting information will help you to identify the connections to make on a range of motorcycles. Manufacturers can change their specifications so this information is supplied for guidance only. If your motorcycle is not listed, or differs from the information in the leaflet, contact your dealer or visit our web site for the latest information.

Alternatively you may need to identify a wire which carries an electric pulse relative to engine speed, ensuring it is not a high voltage output such as spark plug connections. The motorcycle wiring diagram and a test meter will help you to identify the relevant wires.

Understanding wire colours! If the fitting information sheet asks for a connection into the Red/Black, ensure you do not connect to the Black/Red. The first colour is the bulk of the wiring colour, the second colour is usually a thin stripe.

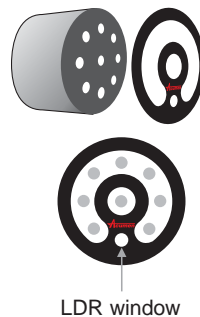


IMPORTANT NOTE: Outer Cover and Colour Filters

The PD8 is factory set for white displays. If you intend to customise the display with the colour filters or the light diffusing filter supplied, make sure the LDR (light dependant resistor) is not covered and is clearly visible through the single window in the cover. (other filters are available in photographic shops)

Make sure the PD8 is set up and operating the way you want it to before finally fitting the outer cover. Constant removal of the cover will break down the glue holding it in place, or, if left alone over a period of time, the glue will become stronger and removal will inevitably damage it. For this reason a second cover has been included with the kit.

New filters and outer covers are available from Acumen Electronics Ltd:
Replacement outer cover - part no. C-02-0003
Replacement filter and outer cover kit - part no. C-03-0015



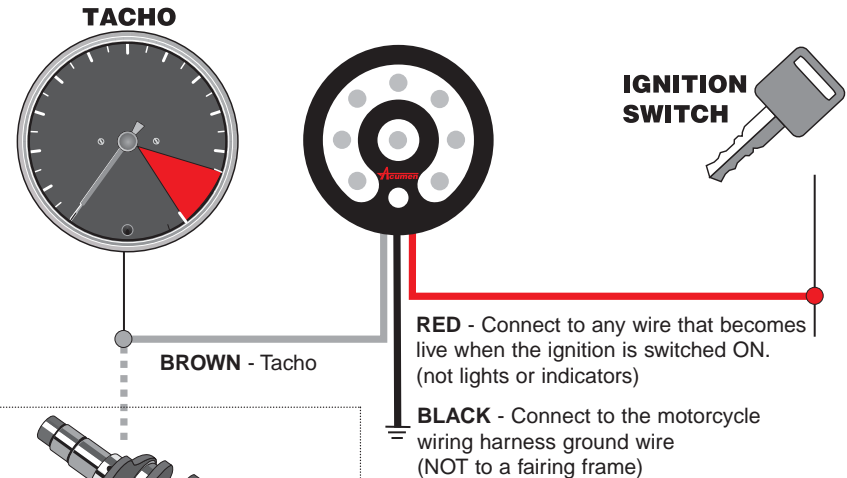
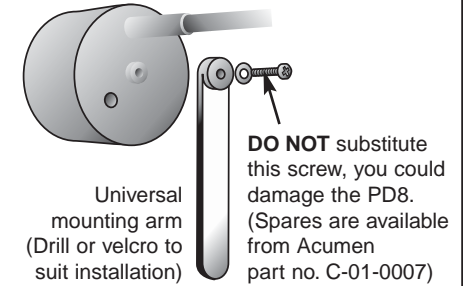
2 - INSTALLATION OF DISPLAY AND WIRING...

Before starting the wiring process, position the PD8 display unit in its final fixed location on the motorcycle.

The display can be flush mounted on the instrument panel, or alternatively velcro or drill the universal mounting arm to suit. (you will need access to the rear of the unit for programming).

Remove any panels and identify and confirm all wiring connections.

PLAN YOUR INSTALLATION BEFORE YOU START...



BROWN ALTERNATIVE

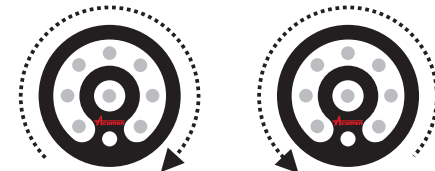
the brown wire may be connected to the engine - crankshaft sensor, hall effect trigger or coil low-tension wire

The cable length can be cut to suit your installation.

Ensure the wiring harness is taped/cable tied away from moving parts and excessive heat.

ALL CONNECTIONS MUST BE SOLDERED

IMPORTANT - The PD8 can be programmed as many times as you like in any number of different ways, so before you start programming (Section 4), keep in mind the following:



The outer ring of LED's can be programmed to work clockwise or anti-clockwise



LED 1 can be programmed as the start point, or the end point

The Central LED can be programmed for any RPM irrespective of how the outer LED ring is programmed