1. Digital Gear Indicator (DiGI) - Installation Instructions

**IMPORTANT ALL CONNECTIONS MUST BE SOLDERED**

DiGI is suitable for use on motorcycles equipped with an electronic speedometer and electronic tachometer. The system relates the electronic pulses between the two and once installed and set up, indicates the gear ratio selected. To install, you must correctly identify the cables carrying the signal to the speedo and tachometer. These cable colours can be found in the wiring diagram for your motorcycle. This is the easiest and most effective way to determine this information. A guide to cable colours is shown below and on the enclosed Application List.

1. If you cannot access the rear wiring diagram use a multi-meter to identify the correct cables.
2. Take care that the connecting cables to the motorcycle or indicator do not short or ground at any time. This may damage the motorcycle or the indicator.

To attach to a flat surface, use the 3M Dual Lock provided.

Select a location where the DiGI will not impede the control or function of the motorcycle and the display will be easy to read in strong light conditions.

1. Gear the attached flat surface and the selected face of the DiGI with the surface cleaner wipe provided and attach Dual Lock to each.
2. Ensure the DiGI is mounted the correct way up, as the cables leaving the housing towards the top!
3. Press the two Dual Lock pads together firmly.

To attach to handlebars or other tubular parts, attach either of the plastic mounts to the selected face of the DiGI and secure with cable ties provided.

**DiGI cable connections**

<table>
<thead>
<tr>
<th>Cable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>Speedometer Pulse</td>
</tr>
<tr>
<td>RED</td>
<td>Tachometer Pulse</td>
</tr>
<tr>
<td>BLUE</td>
<td>Neutral Light</td>
</tr>
<tr>
<td>YELLOW</td>
<td>Learn/Set Up</td>
</tr>
<tr>
<td>GREEN</td>
<td>ORANGE</td>
</tr>
</tbody>
</table>

**Points to note**

1. DiGI works on a relationship between the speedometer/road speed and tachometer/engine speed. If you slip the clutch when setting off, or rev the engine between down shifts, the system will not recognise the data and may briefly scroll, or give a false indication. If the system is not working correctly, the display should read '0'.
2. When choosing the location for your DiGI, make sure that the display is angled downward slightly, otherwise it may be hard to read in bright sunlight.
3. If you change gear ratios, sprockets, wheel diameters or tyre sizes, you may need to reprogramme the DiGI.

2. Digital Gear Indicator (DiGI) - System Setup

To perform effectively, DiGI needs to acquire data individual to your motorcycle model. To achieve this, follow the steps outlined below which involves running the engine whilst in gear.

To avoid injury or damage, you must use a secure paddock stand. If you do not have access to a paddock stand or lack adequate technical knowledge/equipment, the system must be fitted by a qualified dealer or installer.

**Please note**

- You must engage neutral before restarting the ratio learning process and between first and second gears.
- You cannot restart the learning process at any time, by earthing the orange Set Up cable.
- Programming the system may take more than one attempt.

First you must tell the system how many gears your motorcycle has.

- Engage neutral, switch on ignition and ensure engine kill switch is in the run position.
- Touch the orange Set Up cable to ground (eg, engine or frame bolt); hold it there until the display flashes P (programme). This may take up to 1 minute.
- With the Pi flashing, remove and replace the orange cable to a suitable ground on the motorcycle; you will see the display change to 1.
- Each time you touch the orange cable to the motorcycle earth, you will see the display change through 2, 3, 4, 5...
- When you reach the number of gears relevant to your bike, remove the orange cable and wait for the display to flash 0. This may take up to 1 minute.
- Insulate and secure the orange cable.

Now teach the system your gear ratios, so that it can indicate the gear selected.

DiGI will generally only learn gear ratios if you exceed 2000 RPM in each gear. Some lower gears may be learned at lower revs, but may need to rev higher for the higher gears.

- Engage neutral and set the motorcycle engine.
- Select first gear and release clutch.
- At approx. 2000 RPM, the display will begin to flash the figure 1, the flash will increase in frequency until a single bar - appears.
- The system has now acquired the data for 1st gear.
- Change slowly from 1st to 2nd gear with a pause at neutral so the DiGI has received the neutral light signal.
- The number 2 will appear in the display. As you release the 2 it will flash more quickly until the bar - appears.
- The system has now acquired the data for 2nd gear.
- Repeat this process, exceeding 2000 RPM until the bar - appears in the display, in each remaining gear.
- When the figure relating to top gear stops flashing, programming is complete.

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