

## Digi fitting instructions

(Part No. 03000000) For use with motorcycles fitted with electronic speedometer

### Understanding how the system works

Before you start!

- Installing this product involves interfacing with the wiring system of the motorcycle. We advise this product is fitted by someone with good knowledge of motorcycle electrical systems. Datatool cannot accept any responsibility for damage that may be caused by incorrectly fitting this product.
- The DiGi works by computing two sets of pulses to both the Speedometer and the tachometer. The difference between these two sets of pulses indicates the difference between road speed and engine speed - and therefore the gear in use.
- The DiGi will need to learn this data from the motorcycle. To do this you must run the engine whilst each gear is selected. If the speedometer is driven from the rear wheel you can use the centre stand or a secure paddock stand to keep the rear wheel clear of the ground. This is obviously potentially dangerous! Make sure the bike is safely secured before starting.
- If the speedometer is driven from the front wheel the motorcycle will need to be ridden to programme the DiGi. We advise this procedure is not done on a public road.
- Ensure the motorcycle engine is at normal running temperature before commencing programming.
- If during the procedure you make an error, simply hold the orange wire to ground until the "P" flashes in the display then start over.

### Mounting the Display

Choose your mounting location, making sure that it is clearly visible and doesn't interfere with the function of the motorcycle. The mounting surface must be clean and free from grease. Make sure that the display is angled to avoid reflective sunlight. Locate your DiGi with the contact pad supplied. Gently heat the adhesion area to make a stronger bond. Allow 24 hrs for the adhesive to mature fully. If you choose to attach the display to a tube, handlebars perhaps, attach the cable anchor to the display and secure with cable ties provided.

### Connecting the Wiring

It is important to use the motorcycle wiring diagram in conjunction with these instructions to correctly identify the wiring points on the bike. All connections **must be soldered and insulated** or the system will not work correctly. An electrical test meter can be used to help you identify the correct wiring points. You should also make sure the orange cable remains accessible to programme the DiGi to the motorcycle.

### Examples of where to wire the DiGi to the motorcycle

-  **Black;** Earth - connect to an earth wire within the motorcycle wiring harness
-  **Red;** 12 volt switched live – connect to an Ignition switched live supply
-  **Yellow;** Engine speed pulse (RPM) – connect to a tachometer pulse wire, crankshaft pick up coil, a phase from the 3 phase alternator
-  **Green;** Speedometer pulse (MPH/KPH) – connect to the speedometer signal wire or directly to the motorcycle speed sensor
-  **Brown;** Neutral Light – connect between the neutral light and the neutral switch
-  **Orange;** Learn/set up – leave this wire accessible to programme the DiGi

Pay particular attention to the wiring. A correctly fitted DiGi is a happy DiGi!



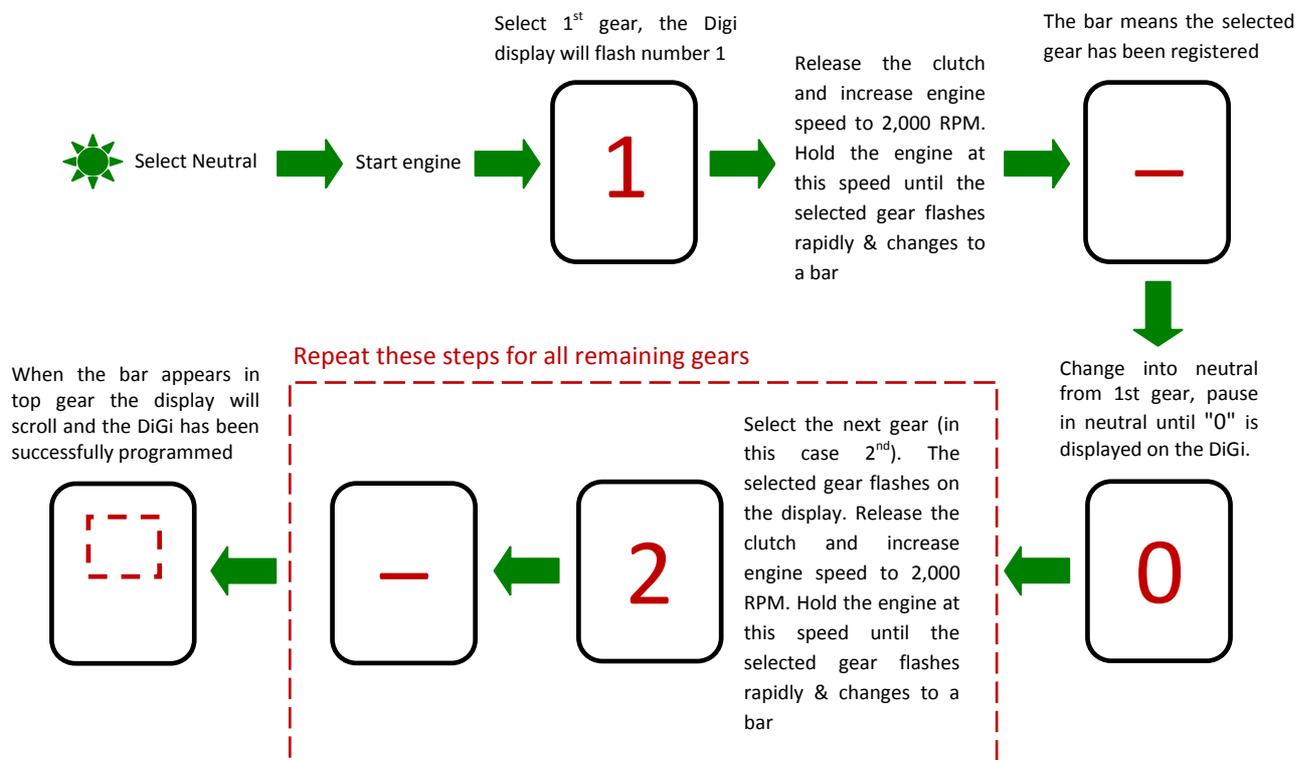
## Start by telling the DiGi how many gears the motorcycle has

To see a step by step programming video please visit [www.datatool.co.uk/consumer/support/how\\_to.php?id=digi](http://www.datatool.co.uk/consumer/support/how_to.php?id=digi)

- 1, Select neutral, check the engine kill switch is in the run position and turn the ignition ON
- 2, Touch and hold the Orange wire to earth until "P" flashes on the Digi display. This may take up to 60 seconds
- 3, Remove and remake the orange wire to earth, the display will change to a flashing "1"
- 4, Remove and remake the orange wire to earth, the display will change to "2"  
(Repeat this step for the number of gears the bike has)
- 5, Isolate the orange wire

## Teaching the gears

Follow the below steps to programme the Digi to the gears



## Troubleshooting

- If the display doesn't illuminate make sure that the DiGi has a power feed and ground when the ignition is on
- If the "0" symbol doesn't appear check that the brown wire is connected between the neutral light and the switch. If it's connected between the ignition switch and the neutral light, it won't register correctly
- If the programming procedure doesn't work first time, re-read the instructions carefully and try again
- If you can't get the system to programme at all, there is an error in one or more of the connections. Recheck all electrical connections and make sure that you have selected the correct locations on the motorcycle

## Guarantee

This product comes with a 12 month guarantee for the original purchaser. Datatool do not warrant any claims for labour