



# HM GP Wiring Guide

**RED** : Switched 12V Power feed

**BLACK**: Ground (this needs a good ground path, so connect to an earthing common point or a good connection to the chassis).

**GREY**: This is an output, it can be configured via the GP Shifter software tool as one of the following:

- High Power Ignition Coil or Injector driver (like our PLUS shifters)
- Low power signal output (like our PC / MOTOx shifters)
- Blipper signal output

## PIN 1 of three way connector (YELLOW):

**RPM**. This must **ONLY** be connected to the Crank Position Sensor. Most Crank Position Sensors have two wires, ground and signal, it is the signal wire that you need. If you are not sure, try one then the other. The GP Shifter has a very high impedance input on this wire so it will not affect the running of the engine in any way.

## PIN 2 of three way connector (BLUE):

**Speed Signal Input**. Connect this to the Rear Wheel Speed Signal Sensor signal wire. Typically most VSS (Vehicle Speed Sensors) have three wires, 12v, ground and signal. It is the signal wire that you need to connect to.

## PIN 3 of three way connector (WHITE):

This is the secondary output and can be programmed with the GP Shifter tool as one of the following:

- LIN BUS
- Shifter Signal (with programmable pull up)
- Blipper Signal (with programmable pull up)

One connected, simply run the GP Shifter software tool to assert if RPM and Speed are working correctly. Gear calibration is automatic.

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HONDA RPM is Yellow. NOTE: One the CBR1000RR this is usually in a RED two way connector that resides on the main brace between the frame near to the rear shock top mount. One the CBR600RR this is usually in a back two way connector that is clipped near the rear of the airbox seam on the right hand side of the bike above the throttle bodies.

SPEED is a PINK/GREEN (VSS three pin connector) NOTE: The connector for the SPEED sensor is usually directly on the speed sensor which is located on top of the gear box (directly under the tank) to the rear of the engine.

YAMAHA RPM is GREY, SPEED has a WHITE/YELLOW trace.

SUZUKI RPM is GREEN/WHITE SPEED is PINK NOTE: The Suzuki usually has two pink wires, one for the gear position, the other for the speed sensor. The speed sensor wire is usually in a black flat three connector under the throttle bodies.

**If you need any assistance please call out Tech Team on +44 (0)1795 429168  
or email [info@HMQuickshifter.com](mailto:info@HMQuickshifter.com)**