

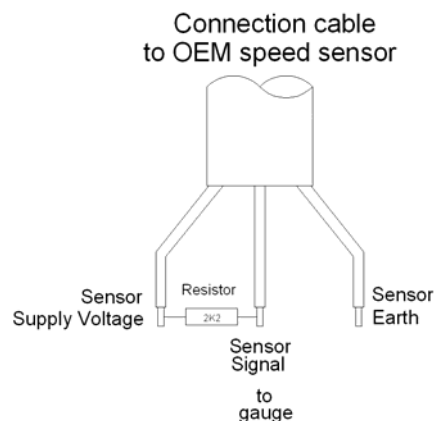
## Additional remarks for SureShift instruction manual

### Use of the vehicles OEM speedometer sensor

If your vehicle comes with a three wire OEM speedometer sensor which provides a output signal higher than +5V you can use the sensor with the SureShift.

A speedometer sensor with two connection wires is not compatible with the SureShift.

Connect Speedometer sensors signal cable with SureShift white connection cable. If the SureShift is not able to recognize a speed signal (as described below) the delivered load resistor has to be connected between OEM speed sensors supply voltage and signal cable. If this also not lead to success, your OEM speed sensor is not compatible with SureShift. You have then to use the motogadget speedometer sensor.



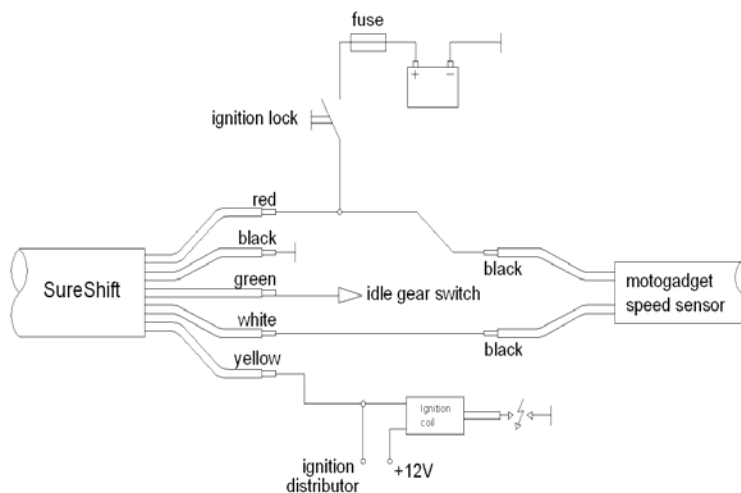
### Use of the motogadget speedometer sensor

The motogadget speedometer sensor is a reed sensor.

For signal triggering **both** delivered magnets must be attached to one wheel with epoxy glue.

It doesn't matter where the magnets will be attached (close to the centre or far from the centre). It is important that both magnets are aligned exactly in one line which leads through the wheel centre.

The speedometer sensor has to be attached to the vehicle by using a self made holding bracket. The sensor tip has to be fastened parallel to the magnet's surface. The gap between the magnet and the sensor must not exceed 5 mm and the sensor must not touch the magnet or any other rotating parts. The sensor holding bracket has to be made sufficiently stable in order to prevent any distance changes during any driving situations. The maximum mounting torque of the sensor nuts is 2 Nm. For secure mounting we recommend to use screw adhesive (medium strength). Subsequently, connect one cable of the speedometer sensor with +12 V ("switched plus") and the other one with the white cable of the SureShift. Polarity is not relevant.



### ATTENTION!

**IF ONE END OF THE DELIVERED SPEEDOMETER SENSOR IS CONNECTED WITH +12V AND THE OTHER OPEN END TOUCHING VEHICLE EARTH ACCIDENTALLY, THE SENSOR WILL BE DESTROYED. THE MAGNET WILL BE DEFECTIVE IF IT IS EXPOSED TEMPERATURES HIGHER THAN 100°C OR 212°F (I.E. HOT BRAKES).**

### Putting the instrument into the initial operation phase

To display the current gear vehicle speed signal and engine speed signal must recognize by the SureShift. If you finished all installation work check now if all incoming signals will be correctly recognized by the SureShift. Please go through following instructions step by step:

- Unplug the cable from idle gear switch at the gearbox and engage the idle gear.
- Switch vehicles power on, now the display of the SureShift must flash two times and then stay dark.
- Rotate the wheel which triggers the speed signal. Now a horizontal bar must appear at Sure Shift's display. If not, the speedometer sensor is not connected correctly or the speedometer is not compatible with the SureShift.
- Start the engine, now a horizontal bar must appear at the display. If not so, the RPM signal cable is not connected to the ignition coil correctly or the ignition system is not compatible with the SureShift.
- Switch vehicles power off and on again.
- Connect the idle gear signal cable back to the idle gear switch. Now all LED of the display must illuminate. If not, the signal cable is not connected correctly or the idle gear is not engaged.

If the test was successfully, you can start to adjust the SureShift. The test can only be done if the SureShift was never adjusted before. To perform an input signal test with an already adjusted device please follow the instructions in manual chapter 13.1.