

BRANTZ Rallymeters

Pt Code: BR1

Universal Speedometer

Cable Sensor



Fitting & Installation Guide

www.brantz.co.uk

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The BR1 Sensor fits in the length of almost any speedometer cable and is designed to work with our full range of Brantz Tripmeters & Retrotrips. N.B. Some older cables may require the hole in the sensor rotor to be slightly enlarged e.g. with a small hand drill.

1. Wiring

BR1 Speedo Sensor (3 Spades)		
Brown (5v Power)	Blue (Speed Pulses)	Green (Neg Earth)
^	^	^
Brown	Blue	Green/Yellow
Grey Cable from Tripmeter (3 Core)		

2. Test (prior to fitting to the vehicle)

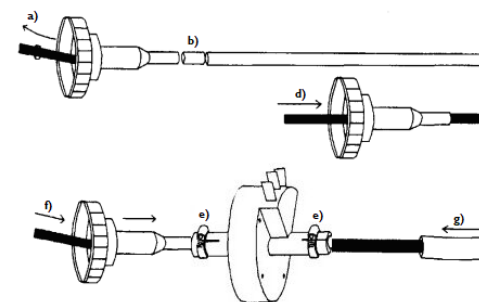
- Connect the Tripmeter to the sensor and a power supply.
- Set the calibration figure to 009 and turn the Tripmeter on.
- Push a small screwdriver / rod through the sensor (ensuring it is gripping the rubber ring inside the sensor) and rotate.
- Assuming the Tripmeter is free to count, the digits should increase with the rotation of the screwdriver / rod.
- Now the sensor can be fitted to the vehicle.

3. Fitting

- Remove the inner rotating core of the speedo cable.
- Cut through the outer cable (sheath) at the location you wish to fit the sensor, 2 cuts approx. ½ inch (13mm)
- With a fine file, remove any burrs from the outer cable and clear any excess grease or metal debris from the inner and outer cable.
- Re-insert the inner cable through the first section of outer cable.
- Place a metal band clamp (provided) loosely on each end of the sensor.
- Insert the inner cable into the sensor, starting from the side furthest from the spade connectors and push firmly through the sensor rotor. See white arrow for direction.
- Fit the remaining outer cable and tighten the clamps moderately, not

too tight as to restrict the Speedo cable itself. N.B. If the outer cable is too small to be easily clamped by the sensor it can be built up in diameter with aluminium tape.

- Ensure the rotor inside the sensor spins freely and puts no additional strain on the speedo drive; however excessive end thrust could affect the sensors life span i.e. fitting the sensor on a bend in the cable.



4. Calibration

You can now calibrate your tripmeter. Please see the instructions for your specific tripmeter.

Notes:

Do not run the grey sensor cable near any ignition leads or other sources of EMI such as the alternator/dynamo or fuel pump etc.

If you are getting too many pulses to calibrate i.e over 999, you can purchase a **Pulse Reducer (BR5)** from Brantz Rallymeters.

If you are getting too few pulses you can purchase a **Pulse Doubler (BR52)** from Brantz Rallymeters.