

# PR003 Installation Guide

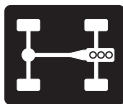
monit | rally

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PR003-EN  
ABS Sensor Interface

For vehicle's with unused  
ABS Wheel Speed Sensors.



## Warning:

The Monit ABS Interface is intended for use in competition and prototype vehicles ONLY. It must NOT be used in any vehicle that still uses its Wheel Speed Sensors for any safety related functions. Failure to follow this advice may result in serious damage to your vehicle and/or personal injury in the event of a safety system failure.

## Operating Principle

The Monit ABS Interface takes the signal produced by an ABS Wheel Speed Sensor and converts it into a format that can be used to operate a Monit Rally Computer. It will work with most types of two wire sensors that generate an analogue output signal.

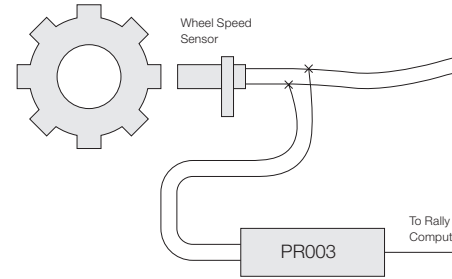
## Step 1:

Locate your vehicle's Wheel Speed Sensor. This is normally fitted to the wheel hub just behind the brake disc.

- Use the sensor on a non-driven wheel to reduce the effects of wheel-spin.
- If your vehicle does not have a suitable sensor, you will have to fit a Monit Wheel Probe (PR001) instead.

## Step 2:

Connect the ABS Interface to the Wheel Speed Sensor as follows.



- The polarity of the connections does not matter.
- Keep the wires between the ABS Interface and the Wheel Speed Sensor short.
- Mount the ABS Interface in a location where it will be protected from excessive moisture and debris.

## Step 3:

Connect the ABS Interface to the Rally Computer wiring loom using the dedicated connector.

- Do not route the cable near high voltage ignition leads.
- If the cable is too short an extension pack can be ordered. Contact your Monit dealer for details.

## Step 4:

Apply power to the Rally Computer. Take the vehicle for a test drive and check that the distance increments when the vehicle is moving.

Installation is now complete.

*Note: The speed and distance measurements will not be accurate until the system has been calibrated.*

## Troubleshooting

### The distance does not increment

Check all your connections. Use an oscilloscope to check that the signal produced by the Wheel Speed Sensor is a clean sinusoidal waveform with an amplitude and frequency proportional to vehicle speed.

### The distance is inaccurate / increments when stationary

This is normally caused by interference from other parts of the vehicle's electrical system.

- Check that the wire between the ABS Interface and the Wheel Speed Sensor is as short as possible.
- Check that none of the cables are routed close to any sources of interference. Take particular care with parts of the ignition system.

## Technical Specifications

Hysteresis Voltage	200mV
Max. Input Frequency	4kHz
Input Impedance	100Kohm
Operating Temperature	-20C to 125C