Simple transistor-based interface
to connect an
electronic speedo sender pulse stream
to a Terratrip 202+ or 303+

Total parts cost: AUD 1.00 or less

Solder 10k resistor to base lead of BC548, then solder three different coloured insulated wires to the resistor and the two other transistor leads. Record which colour is connected to which lead. Then cover interface assembly with heat-shrink tubing, and connect the three wires to the vehicle speedo pulse cable and to the Terratrip 12 pin plug.

Caution:
Pinout for BC548 *et al* varies depending on package - this front view assumes the package is TO92 type 72 (std) which is C-B-E when looking at front face as shown. Check your BC548 with a transistor-checking multimeter.

BC548
NPN

C B E   NPN equivalents: BC547, BC107, BC108

Collector
from Terratrip
pin 1 (+ve)   Base

Emitter
to Terratrip
pin 2 or 4 (-ve)

Use pin 2 for
probe 1 input
or
use pin 4 for
probe 2 input

10k resistor

From vehicle
speedo pulse
sender cable to
base lead via ¼W
metal film resistor

Suggest use a shielded cable for the connection from the
speedo pulse cable to the resistor. Connect shield to pin 11 of
the Terratrip 12 pin plug.

H M Corbould 16-Apr-06