




FITTING INSTRUCTIONS – **TACHOGRAPH**

TACHOGRAPH KIT PART NUMBER:	M1/N1 A2C59517032
VEHICLE MANUFACTURER:	Various
MODEL:	
TRANSMISSION:	Manual/Automatic
YEAR:	2006 on
ENGINE:	
VOLTAGE:	12v
V5 8-8-18	
	<i>Whilst every effort is made to ensure the accuracy of the information given herein, Continental Automotive Trading UK Ltd cannot be held responsible for any errors or omissions. Ultimately, the installer must ensure compliance with the specific vehicle repair procedures laid down by the vehicle manufacturer; particularly with regard to battery disconnection/reconnection procedures. Failure to comply with the vehicle manufacturer's instructions may result in personal injury and/or component damage/memory loss.</i>

As from 1st October 2012 According to Regulation (EU) No 1266/2009 (Annex1b) it is a legal requirement that an independent motion signal is connected to an activated DTCO, Therefore for this digital installation a DTCO Geoloc is required part number A2C59514979-R*

There is no Tachograph included in this kit, please see kit details at the end of the instructions and other possible extras that may be required.

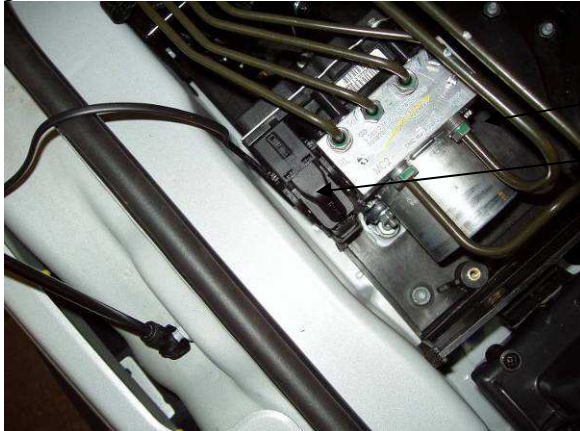
FITTING INSTRUCTIONS Discovery 3 / Range Rover Sport up to 2009

Locate the speed signal by removing the large black cover under the bonnet, driver side



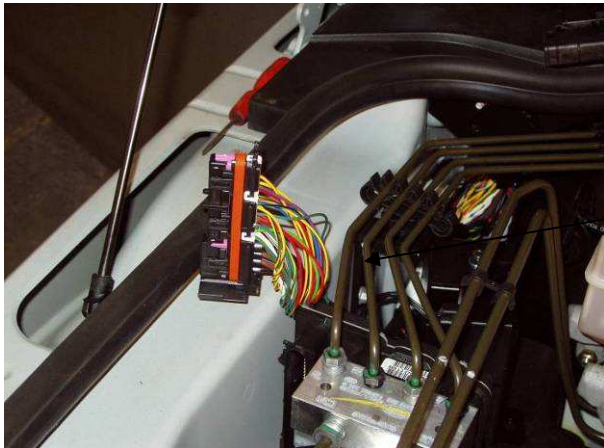
FIT039

The speed signal is found on the black plug which is located next to the ABS unit, pin 33 green wire.



ABS Unit

Black Plug



Pin 33 Green Wire

The Tachograph can be mounted in various positions, In between the driver and passenger cup holder, roof lining or if the vehicle has no satellite navigation mount between the two air vents



Install the adaptor in the engine compartment next to the ABS unit

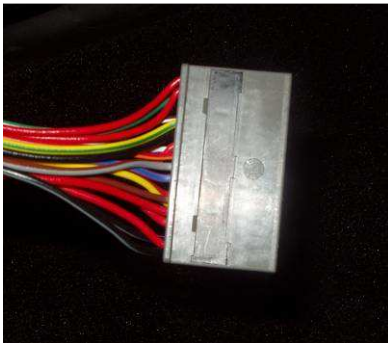




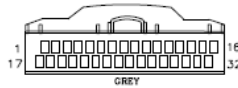
FITTING INSTRUCTIONS – TACHOGRAPH

FITTING INSTRUCTIONS Discovery 4 up to May 2014

The speed signal is found underneath the glove box passenger side. In a grey 32 way plug position 30 red wire



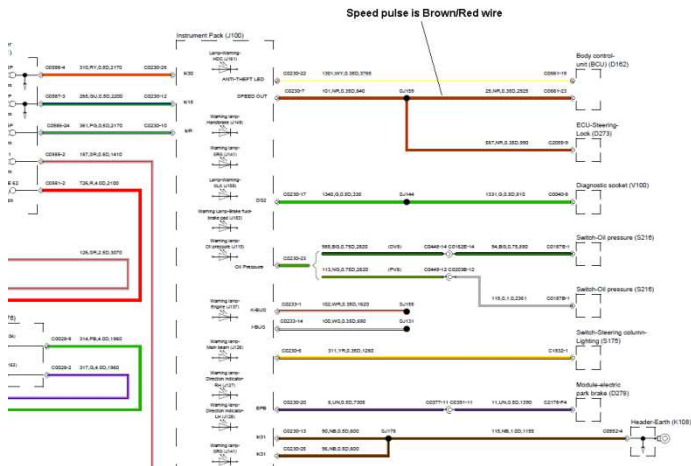
C0580 - YPC803100
[AH22-14401-ZD FACIA HARNESS]
FUSEBOX PASS 1



If the signal is not working a 21700504 speed modification lead is required

Please see last page for wiring diagram

FITTING INSTRUCTIONS Range Rover 2007



The speed Pulse can be found behind the instrument cluster brown wire with red trace

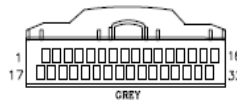
FITTING INSTRUCTIONS Range Rover 2010

The speed signal is found underneath the glove box passenger side. In a grey 32 way plug position 30 red wire



C0580 - YPC803100
[AH22-14401-ZD FACIA HARNESS]
FUSEBOX PASS 1

Position 30 red wire

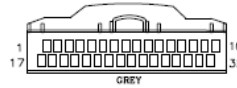


FITTING INSTRUCTIONS Range Rover Sport 2010

The speed signal is found underneath the glove box passenger side. In a grey 32 way plug position 30 red wire



C0580 - YPC803100
[AH22-14401-ZD FACIA HARNESS]
FUSEBOX PASS 1

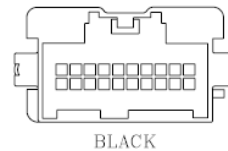


FITTING INSTRUCTIONS Freelander

The speed signal is found underneath the glove box passenger side. In a black 20 way plug position 14 Violet and orange



C1BP02H - YPC909300
[AG92-14335-YA ROOF HARNESS]
SJB ROOF CONNECTOR



Vauxhall Movano



Renault Master



Mounting DTCO®

Installation in the Radio Compartment



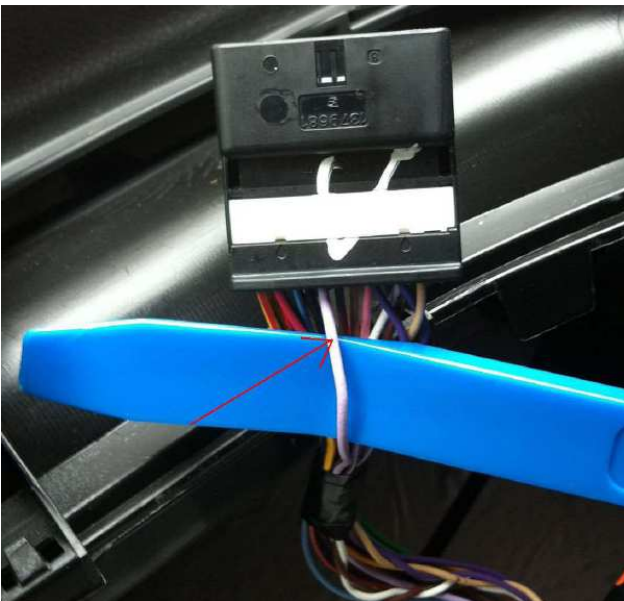
Connection v-Signal:



Remove the shelf above the glove box by pulling Remove.
Unclip the plug (see arrow).
Plug 24pole /Pin5 „Speed signal“ light purple cable with black stripes.



The colour of the speed pulse wire is light purple with a black trace a 21700504 speed modification lead is required to pull up the speed signal.

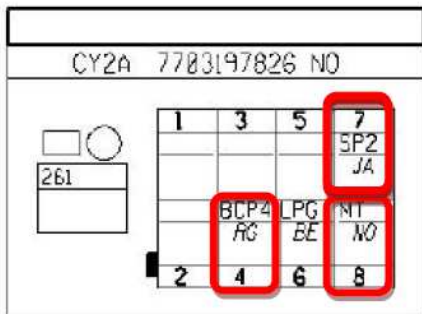


Renault Traffic



Connection of the speed signal and the power supply:

The speed signal and the power supply can be connected at the radio connector (261):



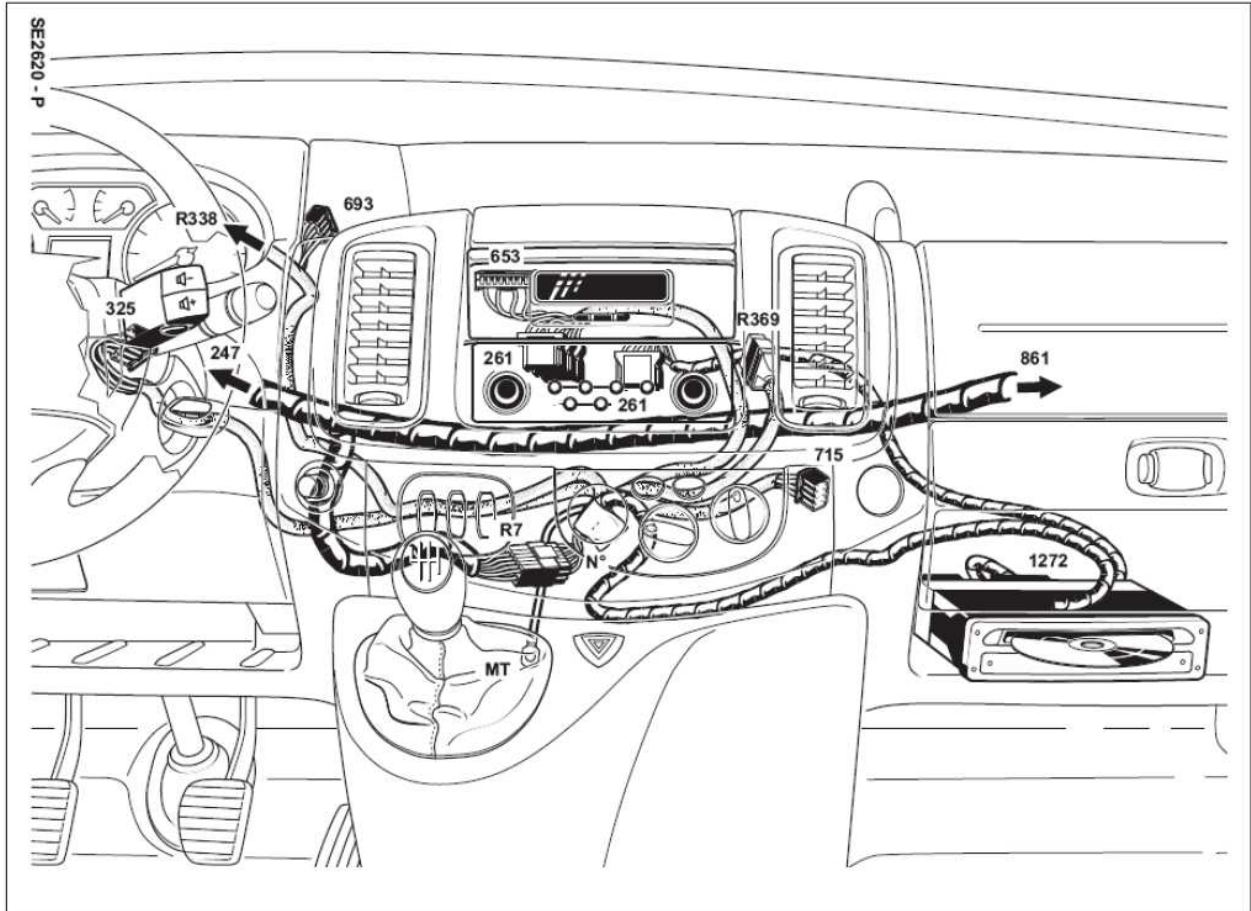
261

v-Signal:

- Pin A 7 Clamp 15:
- Pin A 4 Clamp 30:
- Pin A 8 Clamp 31:

261 RADIO LNC/SSNAV/SRDPRO/XUCEH1

N°	mm²		... → ...	
1	0.5	47F	SIGNAL DRIVING SPEED	CY2A
4	1.0	BCP4	CARRY CURRENT VIA INTERRUPT RELAIS FUSED WITH CUTOUT STORAGE FUNCTIONS	CY2A
6	0.35	LPG	+ PARKING LIGHT LEFT FUSED	CY2A
7	1.0	SP2	+ ACCESSOIRES FUSED > RADIO	CY2A
8	3.0	MT	ELECTRONIC MASS AUDIO	CY2A



**Nissan Navara**

Speed signal connection

Connect the yellow wire from the M1/N1 Adaptor to instrument panel right white 40 way connector position 6 light blue or light green **if wired**. Or radio white 10 pin connector position 9 light blue or light green for this you may need a 21700504 speed modification wire.

Alternately if no wire is there.

Use a CAN interface OBD plug CAN H Position 6 blue wire, CAN L Position 14 pink wire

Positive feed +30 white 6 pin connector bottom left of dashboard behind A pillar cover thick white wire

Negative 31a OBD connector position 4 black wire

Ignition feed 15 white 6 pin connector bottom left of dashboard behind A pillar cover black wire or Ignition switch white 6 pin connector white/green

VW Touareg 2010 Onwards



Connect the yellow wire of the M1/N1 adaptor to the CAN bus interface part number A2C59507619 using the CAN wires underneath the steering column CAN H orange and green CAN L orange and brown.



New Toyota Hi-Lux late 2016/2017

Speed signal can be found behind the instrument cluster on a white 40 way plug position 18 yellow wire



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New Mitsubishi L200 late 2016/2017

Speed signal can be found behind instrument cluster, 24 way connector Pin 17
Grey/black tracer



New Mitsubishi Shogun late 2016/2017

Speed signal can be found Behind cluster right hand side, 24 way connector Pin
15 White/ blue tracer

Installation of Geoloc

Installation instructions:

In order to prevent GPS sensitivity issues, the module needs to be installed in a position where the module has a clear view to the sky and satellites.

1. When installing the Geoloc module in a vehicle, make sure that there are as few obstructions as possible close to the unit since it has an internal GPS antenna. Any obstruction might block the 360 view to the horizon that is required for good operation. Ideally, nothing should block the antenna beyond 5 degrees above the horizon with the best location being on the windscreen.
2. The GPS receiver antenna (Patch-Antenna) is located underneath the type data plate. Therefore the data plate (antenna side of the module) should face upwards towards the sky (see image below).



Please Note: The Geoloc is equipped with a 120 Ohm Can Resistor. The CAN wiring to CAN1 or CAN2 must take this into account!



FITTING INSTRUCTIONS – TACHOGRAPH

GeoLoc to CAN2 of DTCO® 1381 Release 2.0a Plug Connections:

Cable Colour	Description	DTCO® Pin Connection
White	Ignition	A3
Black	Ground	A5
Red	Supply (9-36V)	A1

Geoloc - CTC II Programming

The source for the 2nd motion signal can be set in the path
PROGRAMMING/INSTALLATION DATA/IMS SIGNAL/SOURCE.

The following setting is for CAN2:
- CAN2 GEOLOG (external source e.g. GPS)

Fitting Kit A2C59517032 consists of:-




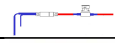

QUANTITY	PART DESCRIPTION	PART NUMBER
1	M1/N1 ADAPTOR	A2C59513046N
1	WARNING LIGHT	A2C59511755
1	PLUG & HARNESS	1318-90100000

Also Required

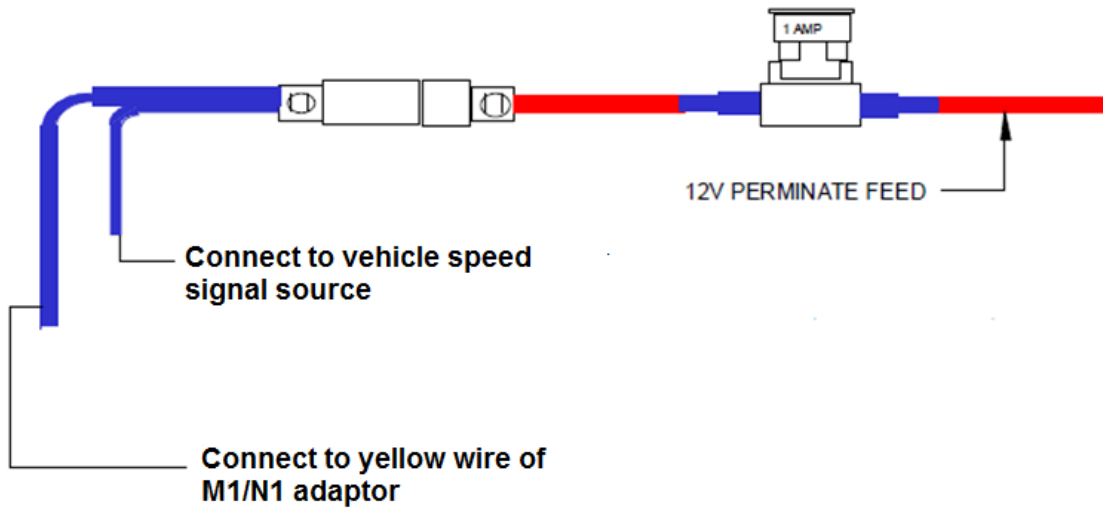
A2C1648490020 3.0 12v Tachograph

A2C59514979-R Geoloc

***Other parts that may be required which are not part of the kit**

QUANTITY	PART DESCRIPTION	Picture	PART NUMBER
1	DTCO/MTCO Installation Sleeve		1324-900010500
1	DTCO/MTCO Installation Housing		X39-140-000-011
1	DTCO/MTCO Installation Facia		13240211
1	Speed Modification Lead		21700504
1	CAN Interface		A2C59507619

Wiring details for 21700504 Speed modification lead

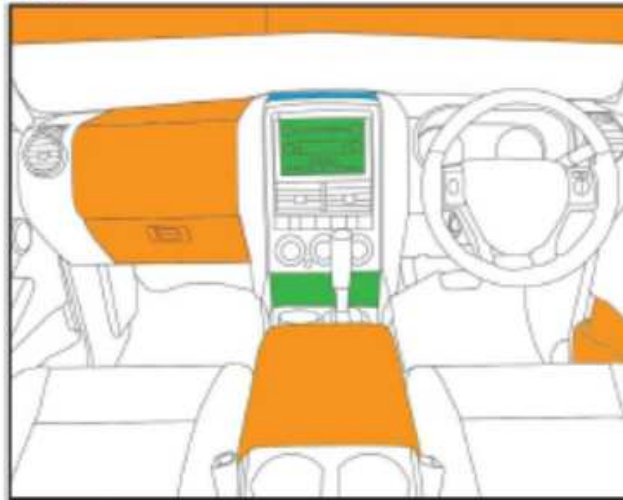


Location of the Tachograph
Please refer to DVSA special notice SN2 20



Guide to acceptable fitment location of digital tachograph vehicle units (VUs) in M1 / N1 vehicles

If you have been given instructions by the VU manufacturer, you should install the VU according to those. If not follow the guidance below:



An example of a typical M1/N1 front passenger compartment layout

General rule: The VU should be positioned in the vehicle in such a way as to allow the driver to access the necessary functions from his seat

EEC Legislation (Council Regulation EEC No 3821, Annex 1B) states:

"The recording equipment must be positioned in the vehicle in such a way as to allow the driver to access the necessary functions from his seat"

"Visual warnings shall be clearly recognizable by the user, shall be situated in the driver's field of vision and shall be clearly legible both by day and night"

"Visual warnings may be built into the recording equipment and/or remote from the recording equipment"

"In the latter case it shall bear a 'T' symbol and shall be amber or orange"

"Warning cause shall be displayed on the recording equipment and remain visible until acknowledged by the user using a specific key or command of the recording equipment." (This must be done at the first available opportunity after the vehicle has reached a safe location to enable this action to happen)

DVSA considers that the **amber** area is acceptable if the visual warning 'T' light is situated in the driver's field of vision and is clearly legible both by day and night

Fitment under the driver's or passenger's seat is unacceptable

DVSA considers that fitting a VU in any of the **green** areas in the drawing above is acceptable

DVSA considers that fitting a VU in the **blue** area in the drawing above is acceptable if the location does not obscure the driver's view of the road

Important:

The recording equipment must be positioned in the vehicle so that it does not:

- obscure the driver's view of the road
- impede the movement of anyone in the vehicle
- interfere or obstruct safety systems within the vehicle (i.e. airbag operation)
- increase the likelihood of injury to anyone in the vehicle

If after following this guidance you are still unsure about where a VU can and cannot be fitted, please contact the DVSA Speed Limit and Tachograph Team, email: tachoweb@vva.gov.uk, attaching pictures and a description of the proposed VU location, or alternatively call 0300 123 9000 for further advice