




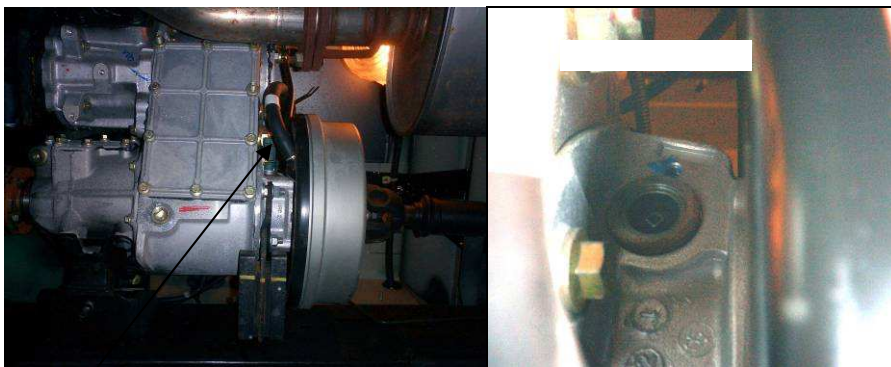
FITTING INSTRUCTIONS – **TACHOGRAPH**

TACHOGRAPH KIT PART NUMBER:	13810521
VEHICLE MANUFACTURER:	Land Rover
MODEL:	Defender
TRANSMISSION:	Manual
YEAR:	98 on
ENGINE:	Diesel
VOLTAGE:	12v
V7-05-03-13	
	<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

FITTING INSTRUCTION

Remove original speed sensor, and cable tie the speedometer cable (without the original sender unit attached) securely away from heat sources.



Original speed sensor



Replace the original speedometer with intermediate cable part number 60730412 drill a 2mm hole in the existing bolt and retain with sealing plate 60755357. Attach cable to cable union and install KITAS sender unit

Fix bracket 60730413 supplied using existing 17mm nut.



The DTCO can be mounted in the glove box which is positioned between the driver and passenger seat



The system must be sealed from the retaining bolt through cable union and sender unit



Connect the frequency stabiliser.

The instrument cluster will be driven via B6 of the digital Tachograph through a frequency stabiliser connect the frequency stabiliser using the following instructions

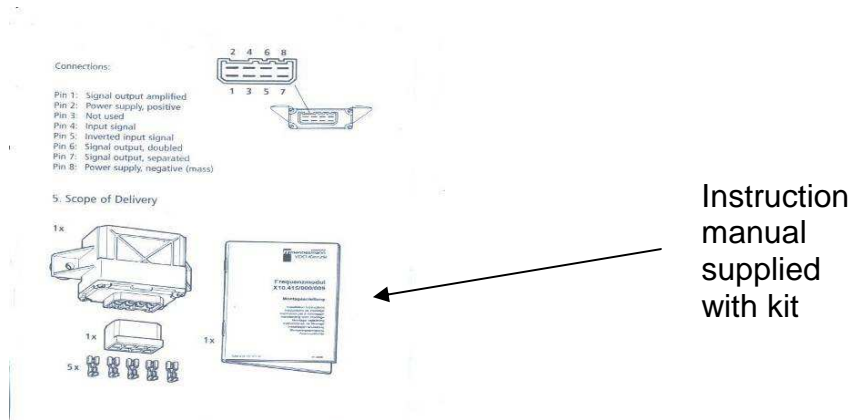
When connecting to the frequency stabiliser please use pin connections on the box and not on the plug.

Pin 2 +12v

Pin 4 connect to B6 of the Tachograph

Pin 7 For vehicles up to 2006 connect to the black and red wire position 2 of the pink connector at the rear of speedometer for Vehicles 2007 on connect to the black red wire position 13 of the grey connector at the rear of the speedometer.

Pin 8 Negative



Fitting Kit 13810521 consists of:-

QUANTITY	PART DESCRIPTION	PART NUMBER
1	DTCO TACHOGRAPH	1381-0051000005
1	PLUG & HARNESS	1318-90100000
1	SENDER UNIT	2171-01000001
1	SENDER CABLE	21700432
1	INTERMEDIATE CABLE	60730412
1	BRACKET	60730413
1	CABLE UNION	1040-1300-009-001
1	SEALING FORK	60755357
1	FREQUENCY STABILISER	X10-415-000-009
1	DTCO INSTALLATION HOUSING	X39-140-000-011
1	DTCO OPERATING INSTRUCTIONS	BA00-1381-00110102

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)