digiDL

Installation Guidelines for Resellers

content overview

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Checking compatibility of vehicles:

Remote Download was introduced in 2009 so many vehicles from late 2009 onwards will have compatible Digital Tachographs however it can be a mixed picture depending on the vehicle and Tachograph manufacturers.

Stoneridge:

All revision 7.0 Tachographs onwards will support Remote Download.

VDO:

All 1.3 and 1.4 versions with significant exceptions.

In the case of VDO a Secondary CAN-Bus, required for Remote Download, was not included on every one of their models. Most Heavy Goods vehicles should be okay. This mostly effects specialist vehicles and 12 volt models fitted to large vans.

Please check www.Tachosys.com for the current exceptions list.

Vehicle Audit

As vehicle compatibility cannot simply be assumed we strongly advice creating a vehicle list to include; Vehicle registration, Model, Year and Tachograph Model Number.

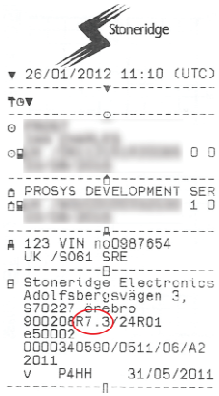
You can find the Tachograph Model number printed behind the removable printer tray on most Tachographs or at the rear of the unit. Alternatively you can perform a Technical Printout from the Tachograph unit.

If you are remote to the customers site then the easiest way to determine the Tachograph model number is to request a vehicle download file. Tachosys provide software called TachoFileViewer which allows you to view the contents of the file and to read out the Tachograph Model Number.

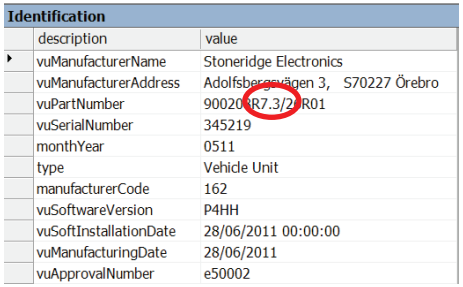
Please see opposite for guidance on how to find the Tachograph Model Number.

Checking Stoneridge Tachograph Model Numbers

Technical Printout



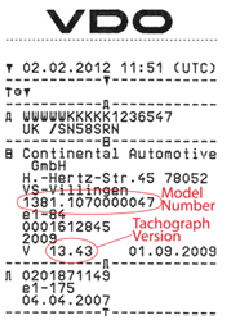
Tachosys Tachofileviewer



Identification

description	value
vuManufacturerName	Stoneridge Electronics
vuManufacturerAddress	Adolfsbergsvägen 3, S70227 Örebro
vuPartNumber	90020R7.3/24R01
vuSerialNumber	345219
monthYear	0511
type	Vehicle Unit
manufacturerCode	162
vuSoftwareVersion	P4HH
vuSoftInstallationDate	28/06/2011 00:00:00
vuManufacturingDate	28/06/2011
vuApprovalNumber	e50002

Checking VDO Tachograph Model Numbers



Identification

description	value
vuManufacturerName	Continental Automotive GmbH
vuManufacturerAddress	H.-Hertz-Str.45 78052 VS-Villingen
vuPartNumber	1381.1070000047
vuSerialNumber	1612845
monthYear	0909
type	Vehicle Unit
manufacturerCode	151
vuSoftwareVersion	1343
vuSoftInstallationDate	01/09/2009 13:06:46
vuManufacturingDate	01/09/2009
vuApprovalNumber	e1-84

VDO and secondary CAN-Bus enabling

Some vehicle manufacturers choose to have their VDO Tachograph delivered with the Secondary CAN-Bus disabled within the internal software configuration. The option can only be enabled with the use of a VDO CTC programmer. This requires a visit to a VDO Calibration centre. We currently know this applies to DAF LF models and some Renault models.

With the vehicle ignition ON check that the Green CAN-Bus LED on the digiDL illuminates. If it does not and the Tachograph model number is valid then it is likely that the secondary CAN-Bus is programmatically disabled.

digiDL Connections and Indicators

Components

- digiDL
- Tachograph cable form
- Antenna

digiDL connections and indicators

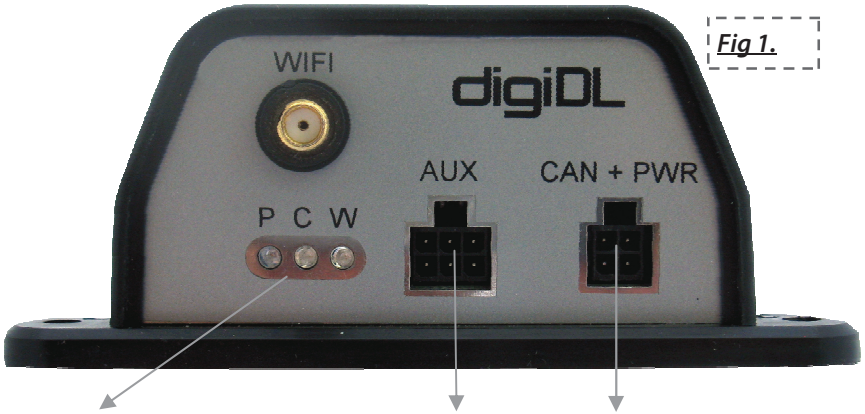


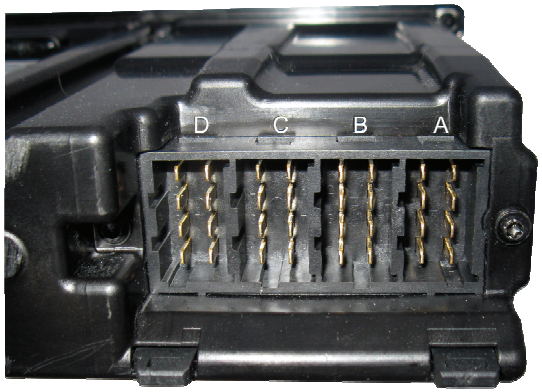
Fig 1.

Activity Indicators

1) Configuration Port or Auxillary

2) VU Rear-Connection (C)

Vehicle Unit Rear Connections



A	CAN-Bus - A
B	Speed Sender
C	CAN-Bus - C. For use with digiDL.
D	Serial Outputs. Not used in this context.

Fig 2.

Cable form supplied with digiDL

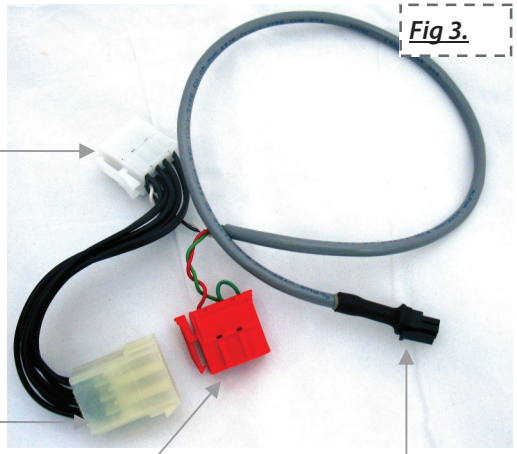


Fig 3.

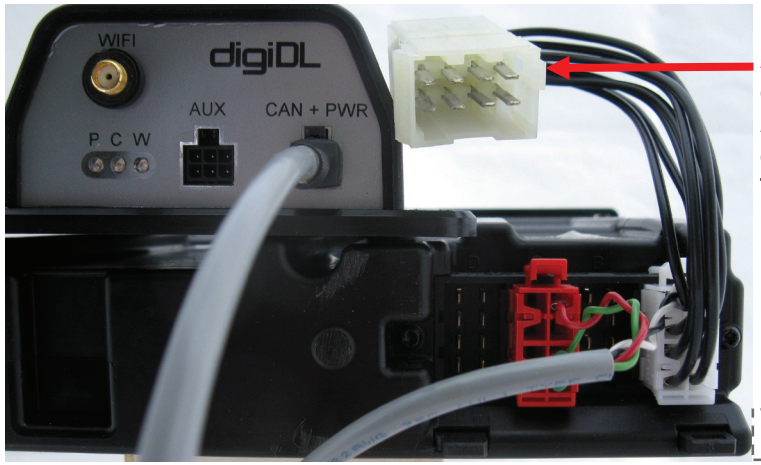
digiDL Power; place in socket A at the rear of the Tachograph. Replace existing cable.

New CAN-Bus A socket; Provides a new "piggy back" connector for the cable removed from connection A of the Tachograph.

CAN-Bus C; Place in socket C of Tachograph.

digiDL CAN + PWR; Place in digiDL socket 2.

digiDL with cable form in place



New Socket A for the original plug A at the rear of the Tachograph.

Fig 4.

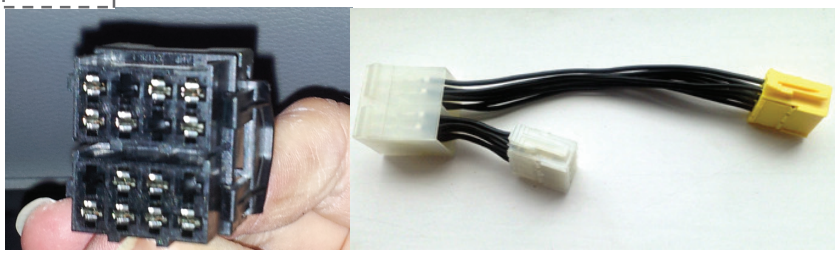
Please Note: The Speed sensor connection remains in the Tachograph Socket B, this is not shown. You have to remove the existing plug A from socket A of the Tachograph. The plug you removed from socket A must be placed in the new socket clearly visible at the top of *Fig 4*..

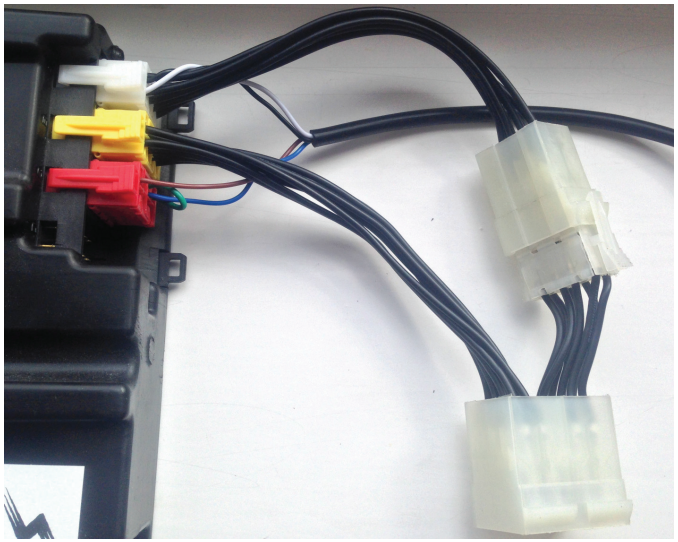
Volvo and Mercedes Cabling (plus ADR vehicles)

In the case of Mercedes and Volvo they combine their A and B Tachograph connectors which prevents the use of our standard cable set (see Fig 5).

In this case there is an optional cable with code DDLDP available from your Reseller. This cable is fitted in conjunction with the standard digiDL Cable.

Fig 5.



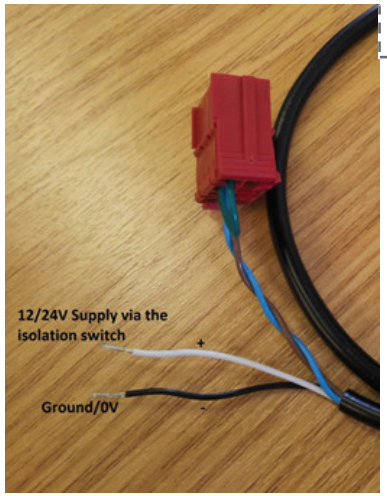


ADR / Hazchem Vehicles

In the case of ADR vehicles the digiDL must be wired to the vehicle's isolation switch as the unit is not intrinsically safe for hazardous areas and therefore must be powered down.

You can use the standard loom by removing the white plug and wiring to the black and white wires as shown in Fig 6.

Fig 6.



Rear security seal

In circumstances where a rear security seal is fitted to the Tachograph, normally where the speed is being taken from the Tachograph, this must be refitted and resealed. Resealing can only be performed by a calibration station. The seal is not required by law in the UK if the speed is being taken from a separate source. UK after market Tachograph are supplied by default without a seal. A secondary seal box can be used if the installer wishes to use the Tachosys plug and play cable and make tamperproof the A connection.

Please note that in Denmark and Spain the rear security seal must be refitted in all cases.

digiDL Configuration - Files

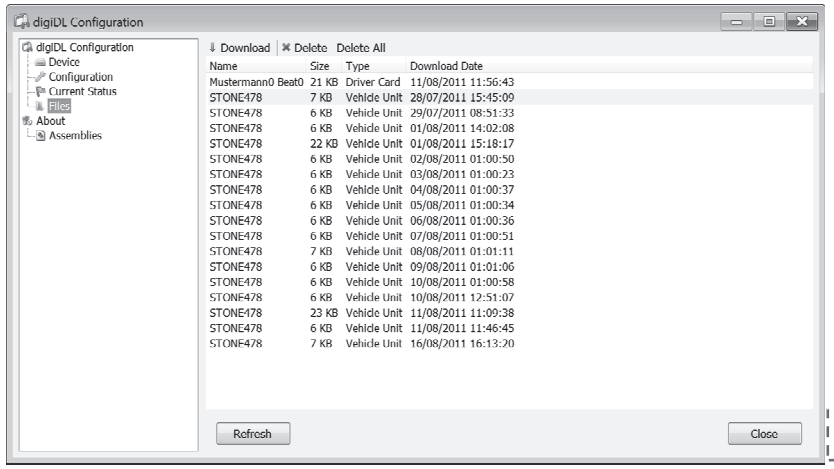


Fig 11.

The digiDL stores the files it downloads from the Vehicle Unit. As the unit nears its memory capacity it overwrites the oldest files. Whilst this storage provides some level of backup it is simply designed to deal with situations where the unit is offline for whatever reason. It also allows the unit to independently download and store files whether the vehicle is connected to the network or not provided it has received an authentication in the last 24 hours.

During installation testing or on retrieval of a unit from a vehicle you can view the current files on the digiDL (see *Fig 11.*). These files can be downloaded to your PC using the "Download" button. You can also Delete files from the device should you be installing in another vehicle for instance.

digiDL Indicator Lights

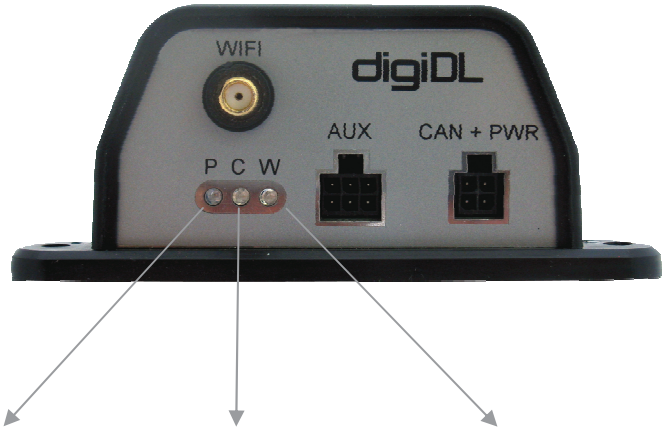


Fig 12.

P: Power Status

C: CAN-Bus C Status

W: WIFI or GPRS Status

The digiDL has three indicator lamps (see *Fig 12.)* each of which has one of three statuses; ON / OFF or Flashing. See the table below for details on the meaning of each light status.

LED	ON	OFF	Flash
P	Power Okay	No Power	Power okay and a Task is in progress
C	CAN okay	No CAN	Infers intermittent CAN connection
W	Comms okay	No Comms	Initiating Comms with GPRS or WIFI

Please note that when the power LED (Red) is on and the CAN-Bus LED (Green) is off it would suggest that either the CAN-Bus C connector is not connected correctly or the vehicle ignition is off.