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## Tachograph Retrofit Guide 2024

VDO – A brand of the Continental Corporation

The light commercial vehicle (LCV) market saw a 25.8% increase in registrations compared to the same time in the previous year from 2022 to 2023, according to the Society of Motor Manufacturers and Traders (SMMT). The biggest growth was recorded in the 2.5 to 3.5 tonnes weight class, rising 34.1% in Jan 2023 against Jan 2022. These large increases appear to be set to continue throughout 2024.

According to the UK Department for Transport, in 2020, light goods vehicles up to 7.5 tonnes accounted for 86% of all goods vehicle traffic in the UK, suggesting that these types of vehicles are more widely used for commercial work.

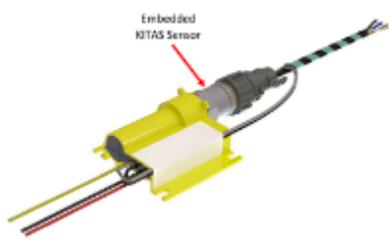
More of these LCV's will potentially come into scope of Tachograph regulations as we enter new phases of the EU mobility package:

## Timeline for the introduction of the second generation intelligent tachograph:



Before you fit a Tachograph to your vehicle, you must find out where the speed signal is going to be taken from and whether the vehicle can take a KITAS sensor?

- If so, a KITAS sensor must be fitted
- If not, an M1N1 adaptor like the one below needs fitting



Please note that there are growing number of electric van's now making up the UK vehicle parc, such as the Ford E-Transit. It is highly likely that a M1/N1 Smart Tachograph adaptor kit (part number 2910002352800) will be required for these, as it is unlikely for the electrified running gear that replaces the gearbox, engine and transmission to have an option where a KITAS sensor can be fitted.

If the speed signal is going to be taken from the CAN, then a CAN adapter (part number A2C5950761966) may be required.

Please be aware that as these electric vehicles tend to be heavier, the vehicle may need to be checked to clarify what it is classified as (if the maximum laden weight is 3.5T or above). If the vehicle does fall into the heavy goods vehicle category, then a KITAS speed sensor must be fitted.

In addition, a 3.0a or 4.1 tachograph must be purchased. These are sold separately to the kits. Below is a key to explain the variations available as you need to decide the zone required and if it needs CAN-R:

- Z1 – relates to an area in which an explosive gas atmosphere is likely to occur in normal operation
- Z2 – relates to an area in which an explosive gas atmosphere is not likely to occur in normal operation and, if it occurs, will only exist for a short time
- CAN-R – this relates to there being a resistor in the CAN line (not all vehicles require it). Please note: It does not directly relate to whether the tachograph is ADR (Dangerous Goods) approved or not.

Continental Kit Part Number	Fitting Kit Reference	Guide Price	Continental Kit Part Number	Fitting Kit Reference	Guide Price
2910002352800	M1/N1 Smart Tachograph without CAN interface^	On Request	TRK7	DE116376	On Request
2910002352900	M1/N1 Smart Tachograph with CAN interface^		TRK8	DE116376	
2910002371100	2910002371100		TRK9	DE116376	
2910002371200	2910002371200		TRK10	DE116363	
2910002371300	2910002371300		TRK11	StWe120723	
2910002371400	2910002371400				
2910002371500	2910002371500				
2910002371600	2910002371600				
2910002371700	2910002371700				
2910002371800	2910002371800				
2910002371900	2910002371900				
2910002372000	2910002372000				
2910002372100	2910002372100				
2910002372200	2910002372200				
2910002372300	2910002372300				
2910002372400	2910002372400				
2910002373700	2910002373700				
TRK1	DE116383				
TRK2	DE116383				
TRK3	DE116400				
TRK4	DE116400				
TRK5	DE116378				
TRK6	DE116376				

Key for application tables on pages 5 - 7:

\*Please note that some of the later Ford Rangers, specifically those with Automatic gearboxes, may not have a removable blanking plate where the KITAS sensor can be fitted, meaning an M1N1 kit would be required

\*\*Please see SIN100018 as there may be an issue with the fitment of some KITAS 4 sensors in the retrofit (updated May 2024)

^Ford Ranger conversion note for non-existent speed signal – As some vehicles may no longer have an analogue speed signal, the CAN signal should be used.



Make and Model	Year	Additional Information	Continental Fitting Kit Part No.
<b>BMW</b>			
X5	2017 ->	Manual/Automatic, Diesel (2.0 – 4.4), 12V	TRK 5
<b>Fiat</b>			
Ducato	2014 ->	Manual, Diesel (2.0/ 2.3), 12V	TRK 1
Ducato	2014 ->	Automatic, Diesel (2.0/ 2.3), 12V	TRK 2
Ducato	2019 ->	Manual, Diesel, 12V	2910002372100
Multijet	2019 ->	Manual, Diesel, 12V	2910002372100
<b>Ford</b>			
Ranger^	2019 ->	Manual, Diesel, 12V	2910002372000*
Transit	2019 ->	Manual, 5 speed FWD, Diesel (2.0 – 3.3L), 12V	2910002371200
Transit	2019 ->	Manual, 6 speed RWD / 4WD, Diesel (2.0 – 3.3L), 12V	2910002371100
<b>Isuzu</b>			
D-Max	2019 ->	Manual/Automatic, Diesel, 12V	2910002372400
<b>Iveco</b>			
Daily	2019 ->	Automatic, Diesel (2.3/ 2.8/ 3.0), 12V	2910002372300 / TRK3
Daily	2019 ->	Manual, Diesel (2.3/ 2.8/ 3.0), 12V	2910002371900 / TRK4
<b>JCB</b>			
Fastrac	2019 ->	Manual, Diesel, 12V	2910002371800
<b>Land Rover</b>			
Defender	2023 ->	Manual, Diesel, 12V	TRK11
Discovery 4	2017 ->	Manual/Automatic, 12V (if no sender unit location available)	2910002352800
Discovery 4	2019 ->	Automatic, Diesel, 12V	2910002371700
Discovery 5	-	Manual/Automatic, 12V (if no sender unit location available)	2910002352800
Range Rover	-	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900
Range Rover Sport	-	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900
<b>LDV</b>			
Maxus	2024 ->	Manual/Automatic, Diesel, 12V	-
<b>MAN</b>			
TGE	2019 ->	Manual, 6 speed FWD, Diesel (2.0), 12V – ML 410	TRK6
TGE	2019 ->	Automatic, 8 speed RWD, Diesel (2.0), 12V – AL550	TRK7
TGE	2019 ->	Manual, 6 speed 4WD, Diesel (2.0), 12V – MQ500	TRK8
TGE	2019 ->	Automatic, 8 speed FWD / 4WD, Diesel (2.0), 12V – AQ450-8	TRK9

Make and Model	Year	Additional Information	Continental Fitting Kit Part No.
<b>Mercedes</b>			
Sprinter	2019 ->	Automatic, RWD / 4WD, Diesel (2.0 – 3.0L), 12V	2910002371400**
Sprinter	2019 ->	Manual/Automatic, FWD, Diesel (2.0 – 3.0L), 12V	2910002372200**
Sprinter	2019 ->	Manual, RWD / 4WD, Diesel (2.0 – 3.0L), 12V	TRK10
Vito	2019 ->	Automatic, Diesel (109CDI / 111CDI / 115CDI) and Petrol (119 / 122), 12V	2910002371600
Vito	2019 ->	Manual, Diesel (109CDI / 111CDI / 115CDI) and Petrol (119 / 122), 12V	2910002371500
<b>Mitsubishi</b>			
L200	2017 ->	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900
Shogun	2017 ->	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900
<b>Nissan</b>			
Cabstar	2019 ->	Manual, Diesel, 12V	2910002372000
Navara	-	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900
<b>Renault</b>			
Master	-	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900
Maxity	2019 ->	Manual, Diesel, 12V	2910002372000
Trafic	-	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900
<b>Toyota</b>			
Hi-Lux	2017 ->	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900
<b>Vauxhall</b>			
Movano	-	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900
<b>VW</b>			
Amarok	2019 ->	Manual/Automatic, Diesel, 12V	2910002373700
Crafter	2019 ->	Automatic, Diesel, 12V (V2-08-01-20)	2910002371400
Crafter	2019 ->	Manual, Diesel, 12V (V1-20-09-19)	2910002371300
Crafter	2019 ->	Manual, 6 speed FWD, Diesel (2.0), 12V – ML 410	TRK6
Crafter	2019 ->	Automatic, 8 speed RWD, Diesel (2.0), 12V – AL550	TRK7
Crafter	2019 ->	Manual, 6 speed 4WD, Diesel (2.0), 12V – MQ500	TRK8
Crafter	2019 ->	Automatic, 8 speed FWD / 4WD, Diesel (2.0), 12V – AQ450-8	TRK9
T5	2019 ->	Manual/Automatic, Diesel, 12V	2910002373700

Make and Model	Year	Additional Information	Continental Fitting Kit Part No.
<b>VW</b>			
Touareg	-	Manual/Automatic, 12V (if no sender unit location available)	2910002352800 / 2910002352900

If you can't find what you are looking for then, please contact [UK@VDO.com](mailto:UK@VDO.com) and we can investigate it for you – whether that is an older model or brand new one!

*Please note: Whilst every effort is made to ensure the accuracy of the information given here, 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 regarding battery disconnection/reconnection procedures. Failure to comply with the vehicle manufacturer's instructions may result in personal injury and/or component damage/memory loss.*

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**For any Tachograph technical and service support, please email [tacho-support@continental-corporation.com](mailto:tacho-support@continental-corporation.com) or phone 0121 725 1366.**

For all other enquiries, a full price list or more information on the complete product range, please contact:

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- **Bob Greig - North of England, Scotland and Northern Ireland - 07557 179777**
- **Email [salesorders@continental-corporation.com](mailto:salesorders@continental-corporation.com)**

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