

Recipients :	Stoneridge Importers and Workshops
Release date :	December 8th, 2023
Updates :	Initial release
Object :	After Market Smart 2 Retrofit Kit for VOLVO FE/FL and RENAULT D installation

Objective: install the Smart 2 Tachograph system in VOLVO/RENAULT Medium Duty trucks

VEHICLE MANUFACTURER	RENAULT	VOLVO
MODEL	D	FE and FL
VOLTAGE	24V	24V

STONERIDGE SMART 2 TACHOGRAPH SYSTEM FOR AFTER MARKET RETROFIT

SMART 2 RETROFIT KIT NON ADR 24V	
SE5000 Smart 2, non ADR	900773R/35
24V DSRC module	900620/40
DSRC cable	C2-CAN cable 6810-034
DSRC cover	104171
Sensor	23.8mm

SMART 2 RETROFIT KIT ADR	
SE5000 Smart 2, ADR	900773R/36
24V DSRC module	900620/40
DSRC cable	C2-CAN cable 6810-034
DSRC cover	104171
Sensor	23.8mm

System installation:

Installing the DSRC Module and a Smart 2 Tachograph is a “system installation”, requiring a full inspection to be run after installation.

Installing the DSRC Module:

- The field of view opening angle shall be 45 degrees horizontally and vertically in the forward direction of the vehicle:
 - Allowed deviation vertically: ± 10 degrees
 - Allowed deviation horizontally: ± 5 degrees

Any material in front of the DSRC module must not contain any metal or carbon content.

- Using the double-sided tape supplied, install the DSRC Module at the chosen location.
 - the printed side must face the driver,
 - and the other side must face the road
- For RENAULT D, Recommended installation is inside the LPOS or FLC bracket, in lieu of the existing DSRC Antenna. Use the tape to hold the DSRC in position, laser-mark facing the driver

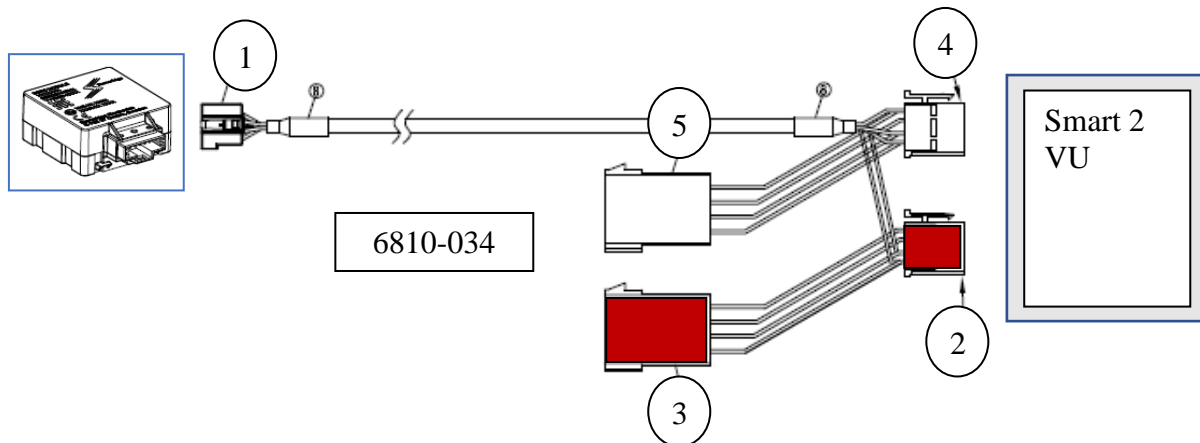


- Alternatively, use the Stoneridge DSRC Cover and tape to affix the module directly on the windscreen, with the second double-face tape fixing the cover on the module side with the laser-mark text



Installing the VU and cable:

- Remove the existing Tachograph
- Route the DSRC cable 6810-034 from the VU to the DSRC Module through the upper gasket
 - Connect the 6-way-connector (1) to the DSRC Module.
- Connect the truck-end D- & B-plug to the back of the VU.
- Connect the DSRC Cable 6810-034 C-plug (2) to the Smart 2 VU. Connect the former truck-end C-plug (if any) to the DSRC cable red receptacle (3).
- Connect the DSRC cable 6810-034 A-plug (4) to the back of the Smart 2 VU. Connect the truck-end A-plug to the DSRC cable white receptacle (5).



Replacing the sender:

- Follow the manufacturer's instructions to replace the Kitas4 sensor with a LESIKAR or Kitas4 R1.21 or above. Caution: a VDO Kitas4 sensor can only be paired with 1 single VU. Therefore, make sure you have fully tested your set-up before activating the VU, or use a LESIKAR sensor
- Use a T-marked 1C seal, available in boxes of 100 using part number 6810-019, to seal the sensor to the gearbox. **Non T-marked seals are illegal** since March 1st, 2022

Configuring the VU:

- Using the Optimo SE5000 Configuration Station application, select the **RENAULT** truck make and model **D NON-ADR 2023ON** to configure the new Smart 2 VU. Or use the **VOLVO > FL/FE NON-ADR 2023ON** configuration. If your Optimo does not yet offer those options, request a **UGC** file from your Stoneridge distributor

Configuring the truck:

- As such, the VU will not be recognised by the VOLVO/RENAULT Tech Tool. This has no functional impact on the truck performance. VOLVO/RENAULT will be releasing shortly a vehicle ECU update. Please contact your VOLVO/RENAULT dealer to update the truck ECU.

Performing an inspection and creating the calibration plaque:

- Follow your country's legal requirements for inspecting the tachograph system, treating it as an Installation Inspection
- Share Stoneridge user [manuals](#) with the driver

Whilst we have endeavoured to ensure the accuracy of the information supplied, Stoneridge Electronics cannot be held responsible for any errors or omissions. It is the installer's responsibility to ensure compliance with specific vehicle manufacturers repair procedures, especially with regard to the procedure for disconnection/reconnection of the battery. Failure to comply with the vehicle manufacturers instructions may result in personal injury and/or component damage/data loss.