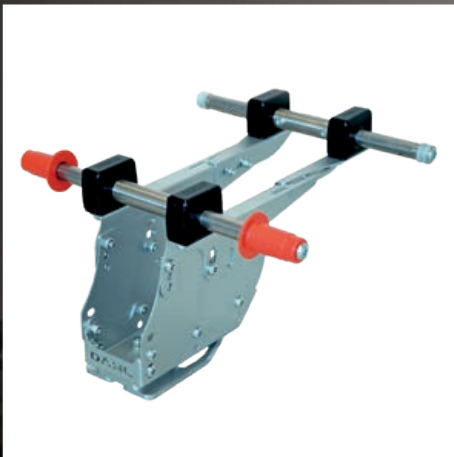


# PRODUCT CATALOGUE

ENGLISH



# Content



## DAHL ENGINEERING

About Dahl Engineering.....	4
Safety .....	5

## DOCKING SYSTEMS

Tested wheelchairs and adaptation kits.....	6
Dahl MADS™ .....	7
Dahl VarioDock™ .....	10
Design examples for anchoring seats – Dahl VarioDock™ .....	11
List of vehicles with approved installation kits .....	14
Dahl VarioDock™ - Approved installation kits, for wheelchairs ONLY.....	18
Dahl Docking Station MK II.....	32
Accessories .....	34
Dahl Docking Station MK II - Approved installation kits .....	36
Tool for installing seat belt anchorage kits .....	48

## CAR SEATS

Dahl COMFORT Seat .....	49
Dahl COMFORT Seat - Approved installation kits.....	50
Dahl HYBRID Seat .....	51
Accessories .....	52
Dahl Low Floor System .....	53

## 4-POINT WTORS

List of vehicles with approved installation kits – 4-point WTORS.....	57
Approved 4-point WTORS installation kits:	60
CLASSIC LINE 85kg.....	63
EVOLUTION LINE 85kg.....	69
HEAVY DUTY LINE 200kg .....	81
Spare parts: safety equipment for wheelchair users.....	86

## OTHERS

Cover for safety belt buckle.....	89
Special seat bases for original passenger seats .....	90
Cargo Tie-Down Equipment.....	91
Adapters and accessories for cargo tie-down .....	92
Terms of sale and delivery.....	93



Dahl Engineering was founded by Claus Dahl Pedersen, who has more than 30 years' experience in the field of development, safety testing and production of seats and safety equipment for the automobile industry.

Dahl Engineering is a specialized business enterprise that offers development, safety tests and production of various special products and equipment for vehicles for the disabled, private cars, vans, buses, racing cars, ambulances, police cars, military vehicles as well as aids and appliances for people with disabilities.

In 2005 Dahl Engineering established a 900 m<sup>2</sup> factory building, containing Denmark's only test facility for dynamic tests (crash tests), a hydraulic tensile testing facility, a prototype workshop and production facilities for research, product development and manufacturing. In 2006, 2011 and 2018 the building was extended so that there now are 2.100 square meters under its roof.

Dahl Engineering is recognized as national test laboratory by the Danish Road Safety agency (Færdselsstyrelsen). Certification tests in accordance with EU directives and international safety standards, supervised by the accredited test institute TÜV Rheinland can also be performed on the company's test facility.

## New areas of focus for safety

Safety in motor vehicles is continuously developing. New issues will always continue to appear, for which new solutions and technologies will need to be found. Most wheelchairs and mobility aids for the handicapped are unable to withstand the loads they are subjected to during a road traffic accident. For wheelchair users transported by vehicle, this represents a considerable safety risk that only until recently has been the subject of only minor interest. Due to the introduction of EU-framework directive 2007/46, EU-regulation 2018/858, Annex II, Part III, Appendix 3, which addresses procedures for test and approval of restraining equipment and safety belts, new standards for the safety of wheelchair users in vehicles have been set.

In the past years there has emerged an increased focus on security when wheelchairs are used as seats in vehicles. This has i.a. led to wheelchair-tenderings requiring that the **wheelchair and restraint system is crash tested together and thus lives up to ISO 7176-19**. We receive an increasing number of enquiries about which wheelchair models are tested with our Docking system, and how the Docking system is correctly installed on the wheelchair.

We experience that car converters and occupational therapists want to assure themselves, that **they do not invalidate the CE label when mounting the Docking system**, which they do, if they do not follow the instructions of the wheelchair manufacturer.

With more than 25 years' experience in the development, safety testing and production of automotive equipment, Dahl Engineering possesses a wealth of knowledge in this area.

As a supplier of components, we are also able to offer close co-operation with regard to the development and testing/certification of components in the conjunction in which they are to be used.

Dahl Engineering is specialized in the supply of certified equipment that is tested such that international safety standards and EU safety requirements in motor vehicles are satisfied. This applies regardless of whether the products are for disabled or non-disabled use – where this is possible – with due consideration of the design and function of the aid and appliance concerned.



## Dahl Docking Station

The safety standards for restraint equipment for wheelchairs are not as strict as the safety requirements for other equipment used in motor vehicles. Restraint equipment, according to the current ISO standard, only has to be able to withstand the load from a wheelchair with a weight of 85 kg.

At Dahl Engineering, we think that these requirements are inadequate, and have therefore developed the safest and most thoroughly tested system on the market. Dahl's Docking Station is supplied with the most comprehensive documentation material on the market, and is the first system to be tested and TÜV certified in a large number of vehicles for wheelchairs weighing 200 kg + user. We offer over 55 vehicle specific fitting kits.

Dahl Engineering is specialized in providing restraint equipment for wheelchair users, that meet the strict EU M1 safety requirements for cars in accordance with ECE regulations 14 and 17 (relating to the anchorage of seats and safety belts in motor vehicles) where this is possible – with due consideration of the design and function of the aid and appliance concerned. At the time of writing, we have also tested the Mercedes Sprinter 907/910, Freightliner Sprinter, and VW Crafter (-2016) according to FMVSS/CMVSS 207/210.



ECE regulation 17  
H-point measurement

## 4-point WTORS

We have performed more than 150 tests of Dahl's 4-point WTORS in vehicles according to EU-regulation 2018/858, Annex II, Part III, Appendix 3, as well as ISO 10542-1:2012 and 7176-19:2022. Based on the number of tests, we have obtained TÜV approval for more than 85 vehicle specific fitting kits from 85 kg to 200 kg. Thus, Dahl Engineering's 4-point wheelchair restraints are at the very forefront of the latest EU safety requirements for wheelchair users in motor vehicles.



ECE regulation 14

## Car conversion

We offer car converters to cooperate in tests, where our products are being used, so that the converted vehicle meets applicable safety requirements. We can perform fatigue tests of the vehicle body according to TÜV Merkblatt 751. The purpose of the test is to determine if the vehicle's load carrying components will crack or collapse under the stresses it will be exposed to during years of use. The converted vehicle body can be exposed to 150.000 test cycles. Based on the tests performed, vehicle converter can then apply for acceptance of the conversion at the car manufacturer to obtain a so called "No objection certificate".



## Dahl Engineering sets again new standards for flexibility and safety!

We are happy to announce that we can now offer two different types of docking stations, which can be used for numerous different transportation needs. Almost all the wheelchairs, which have been tested with our Dahl Docking Station MK II, are compatible with Dahl VarioDock™.



### Dahl VarioDock™

Our electrically height-adjustable Docking Station, enables fastening of wheelchairs with different ground clearances and seats with an integrated 3-point belt.

- Complies with ISO 10542-1, ISO 7176-19 and the strict test requirements in accordance with ECE Regulations 14 and 17 regarding test of seats and belt anchorages in vehicle category M1.
- Electrical height adjustment (from 61-91 mm).
- Tested for wheelchairs weighing up to 200 kg plus user.
- Approved for anchoring Dahl COMFORT Seat
- Crash tested and CE marked with approx. 160+ wheelchair models.

### Dahl Docking Station MK II

is our second generation Docking Station, which enables the tiedown of wheelchairs from many different wheelchair manufacturers.

- Complies with ISO 10542-1, ISO 7176-19 and the strict test requirements according to ECE regulations 14 and 17 regarding testing of seats and seat belt anchorages in vehicle category M1.
- Height adjustment through use of spacers
- Tested for wheelchairs weighing up to 200 kg plus user
- Crash tested and CE marked with approx. 160+ wheelchair models.



## Approved wheelchairs with our docking systems

According to the EU's medical directive, a wheelchair is classified as medical equipment class 1, and must be CE-marked and approved as such. Whoever installs or adapts non-approved equipment or installs the system in a way that falls outside the wheelchair manufacturer's specifications, breaks the CE-approval, and is considered a responsible manufacturer and is therefore responsible for the equipment's quality, safety, performance, and technical documentation according to requirements in the regulation on medical equipment.

If our docking systems are installed on a wheelchair that has been tested and approved by the wheelchair manufacturer, its CE-approval remains intact. It is strongly advisable, that the instructions in the wheelchair manufacturer's manual are followed closely.

Our new docking adaptation system for manual wheelchairs, the Dahl MADSTM, (Multi Adjustable Docking System) has currently passed testing according to ISO 7176-19:2022 with the following wheelchairs: ETAC Cross 6, R82 Kudu.

At time of writing, the wheelchair manufacturers documentation including user and installation instructions are in progress and the adaptation kits are therefore not yet for sale. As soon as the documentation and MADSTM kits will be available for sale, the part no., crash test video and user and installation instructions can be found on our homepage.

Videos of crash-tests, as well as the wheelchair manufacturers' user and service manuals are available on our website.

Please contact the wheelchair manufacturer regarding approved equipment and ground clearance to ensure compatibility with our Dahl Docking Systems.

POWER WHEELCHAIR - Make & Model	Possibility of fitting the docking lock plate is standard feature on wheelchair	Retrofittable adaptation kit available from Dahl Engineering	Retrofittable adaptation kit available from Wheelchair manufacturer	Adaptation kit CANNOT be retro fitted. Adaptation kit only available from wheelchair manufacturer if ordering option with wheelchair.	Compatible with VarioDock
Baldertech F380 (280) Finesse tiltstol			Balder#HP20071413		✓
Baldertech F380 Recaro Finesse tiltstol			Balder#HP20071413		✓
Baldertech F390 (290) Finesse ståstol			Balder#HP20071413		✓
Baldertech J335 (235) Junior tiltstol			Balder#HP20071413		✓
Baldertech J340 (240) Junior ståstol			Balder#HP20071413		✓
Baldertech Liberty RWD			Balder#HP20071413		✓
Degonda T4 2x2		#503213			✓
Degonda T4 Compact		#503213			✓
Dietz Power Sango Advanced FWD SEGO			Dietz#5001168		✓
Dietz Power Sango Advanced MWD SEGO			Dietz#5001168		✓
Dietz Power Sango Advanced RWD SEGO			Dietz#5001168		✓
Dietz Power Sango Slimline FWD SEGO			Dietz#5001169		✓
Dietz Power Sango Slimline MWD SEGO			Dietz#5001169		✓
Dietz Power Sango Slimline RWD SEGO			Dietz#5001169		✓
Glide CentroGlide		#502237			✓
Invacare AVIVA RX				Invacare #SP1653422	✓
Invacare FDX					✓
Invacare FX 40 Modulite		#501540			✓
Invacare Storm4				#ATZ1450	✓
Invacare Storm4 Xplore				#ATF1450	✓
Invacare TDX SP2 (WB)				#SP1564843	✓
Invacare TDX SP2 (NB)				#SP1564807	✗
Invacare TDX SP2 MBL Tilt-Lifter (WB)				#SP1564843	✓
Invacare TDX SP2 MBL Tilt-Lifter (NB)				#SP1564807	✗
Karma Leon FWD Kameleon			Karma#19170000061		✓
Karma Leon FWD Versus			Karma#19170000061		✓
Karma EVO Altus / Lectus-LR		#503194			✓

# Adaptation kits for the wheelchair

POWER WHEELCHAIR - Make & Model	Possibility of fitting the docking lock plate is standard feature on wheelchair	Retrofittable adaptation kit available from Dahl Engineering	Retrofittable adaptation kit available from Wheelchair manufacturer	Adaptation kit CANNOT be retro fitted. Adaptation kit only available from wheelchair manufacturer if ordering option with wheelchair.	Compatible with VarioDock
Karma Leon RWD			Karma#15120000023		✓
Karma Mid Lectus		#503339			✓
Karma Morgan			Karma#4020169		✓
Karma Morgan Sling		#503339			✓
Karma Morgan M Versus		#503339			✓
LEVO LCM 2		#502322			✓
LEVO C3 Standup		#503030			✓
Magic Mobility 360		#501798			✓
Medema MC 1122	✓				✓
Medema MC 1124 Adult		#502378			✓
Medema MC 1124 Child		#502378			✓
Medema MC 1144 Adult		#503236			✓
Medema MC 1144 Child		#503236			✓
Meyra iChair MC2 1.611		#501909			✓
Meyra iChair MC2 1.611 / Electrical backrest		#503453			✓
Meyra iChair MC3 1.612			Meyra#1079816		✓
Meyra iChair McFront 1.613		#501619			✓
Meyra iChair McFront 1.613 / Electrical backrest		#501620			✓
Meyra iChair Orbit 1.618		#503657			✓
Meyra iChair Meylife 1.650		#503657			✓
Neatech EVO 1		#503340			✓
Neatech EVO 3		#502210			✓
New Live Magix			NewLive MA.O.P.01. AC.Z.800003		✓
New Live Magix II	✓				✓
NHD LS 300		#503341			✓
NHD LS300/45		#503341			✓
Otto Bock Juvo B4 RWD		#503184			✓
Otto Bock Juvo B5/B6 FWD		#503261			✓
Otto Bock Juvo B5/B6 MWD		#503261			✓
Otto Bock Juvo B5/B6 RWD		#503261			✓
Paravan Heavy Duty			Paravan#33187		✓
Paravan PR 25		#502064			✓
Paravan PR 40		#502064			✓
Paravan PR 50			Paravan#33187		✓
Paravan Piccolino			Paravan#33187		✓
Permobil F3 Corpus	✓				✓
Permobil F5 Corpus	✓				✓
Permobil F5 Corpus VS	✓				✓
Permobil M1	✓				✓
Permobil M3 Corpus	✓				✓
Permobil M5 Corpus	✓				✓
Permobil M5 Corpus VS	✓				✓
Quantum Rehab (Pride Mobility), Q6 Edge 2.0*		#502378			✓
Quantum Rehab (Pride Mobility), Q6 Edge 3.0*		#502378			✓
Roltec Boa 2		#503342			✓

\* Please inquire with the Pride/Quantum sales organization in your country regarding availability.

# Adaptation kits for the wheelchair

POWER WHEELCHAIR - Make & Model	Possibility of fitting the docking lock plate is standard feature on wheelchair	Retrofittable adaptation kit available from Dahl Engineering	Retrofittable adaptation kit available from Wheelchair manufacturer	Adaptation kit CANNOT be retro fitted. Adaptation kit only available from wheelchair manufacturer if ordering option with wheelchair.	Compatible with VarioDock
Roltec Moveo		#501819			✓
Roltec Viper			Roltec#70658		✓
Roltec CT4 RWD / Vision			Roltec#70658		✓
Scout Mobility X10 FWD		#503366			✓
Scout Mobility X10 MWD		#503366			✓
Scout Mobility X10 RWD		#503366			✓
SKS Swiss Viva Grand			SKS#22.0218		✓
SKS Swiss Viva Grand M		#503342			✓
Sunrise Medical Q100 R		#503259			✓
Sunrise Medical Q200 R		#503259			✓
Sunrise Medical Q300M Mini		#500094			✗
Sunrise Medical Q300 R		#503012			✓
Sunrise Medical Q400 F		#503637			✓
Sunrise Medical Q400 M		#503439			✓
Sunrise Medical Q400 R		#503637			✓
Sunrise Medical Q500 F		#503637			✓
Sunrise Medical Q500 H		#501798			✓
Sunrise Medical Q500 M		#503439			✓
Sunrise Medical Q500 R		#503637			✓
Sunrise Medical Q700 F		#501889			✓
Sunrise Medical Q700 M		#503439			✓
Sunrise Medical Q700 R		#503637			✓
Sunrise Medical Q700 UP F		#501889			✓
Sunrise Medical Q700 UP M		#503439			✓
Sunrise Medical QUICKIE Salsa M2		#501798			✗
Sunrise Medical QUICKIE Salsa R2		#501756			✓
TA Service IQ RWD		#503054			✓
TA Service IQ FWD		#503054			✓
TA Service IQ MWD		#503054			✓
TA Service Indoor Wave			TA #95255		✓
Wolturnus A-Run				Wolturnus #20778	✓
Wolturnus Rex 350				Wolturnus #20779	✓

MANUAL WHEELCHAIR - Make & Model	Removable MADS System	Retrofittable adaptation kit available from Dahl Engineering	Retrofittable adaptation kit available from Wheelchair manufacturer	Adaptation kit CANNOT be retro fitted. Adaptation kit only available from wheelchair manufacturer if ordering option with wheelchair.	Compatible with VarioDock
Schmicking X-Design	✓	#502898			✓
Sunrise Medical Exigo 30	✓	#502961			✓
Talart JT-Sparkle	✗		Talart #JT01154		✓
Wolturnus W5	✓	#502018			✓
Wolturnus W6	✗			#20776 / #20777	✓

All discontinued, but approved and tested wheelchairs, can be found on our homepage.

Dahl MADS™, short for **Multi Adjustable Docking System**, is our new patented docking adaptation system which makes it possible to dock and secure manual wheelchairs with fixed frames as well as folding frames into our docking station models MK II and the VarioDock™.

The Dahl MADS™ consists of a light weight subframe which can be adjusted in height, inclination, and length. Thus, it can easily be adapted to different wheelchair widths and will function together with a multitude of wheelchair settings, which are needed to obtain the individual user's optimal seating position.

By means of brackets fastened to the wheelchair frame and a simple and effective locking system, the subframe can quickly be attached and removed without any tools and stowed away when not in use. This feature is a must when collapsing a folding chair, but it is also built into the design for most fixed frame models.

During the past years, we have received an increasing number of inquiries for using our docking stations to secure manual wheelchairs. Requests came from private vehicle owners, nursing homes, and schools as well as public and private transport providers looking to replace the time consuming and work intensive 4-point wheelchair securement systems commonly used.

The MADS™ adaptation kits are tailor-made for the specific wheelchair make and model and are tested together according to ISO 7176-19:2022.

If your wheelchair model has not been approved for MADS™, we will be happy to work together with the wheelchair manufacturers to develop a kit.

Manufacturers of approved wheelchairs present on the European market have CE-marked their chairs for use with the Dahl MADS™. Consequently, the CE-marking and warranty of the chair will remain intact when installing the Dahl MADS™ adaptation kit in compliance with the wheelchair manufacturer's instructions.



## MULTI ADJUSTABLE • QUICK RELEASE



Our new Dahl VarioDock™ is not only the only power-height adjustable wheelchair Docking station, which facilitates securing wheelchairs with different ground clearances and vehicle passenger seats with integrated 3 point belt, but it is also the only system to meet standard ISO 10542-1, ISO 7176-19 and the strict M1 in-vehicle testing requirements for seats and seat belt anchorages according to ECE regulations 14 and 17.

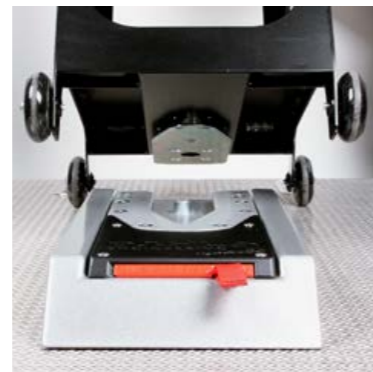
Thanks to the Dahl VarioDock™ system, securing wheelchair users and other seated occupants can be carried out with an unprecedented ease, speed and safety. The Dahl VarioDock™ docking system offers more flexibility and versatility than any other seat anchoring system because the seat and wheelchair layout can be changed very quickly with a minimum of effort and time consumption. A docking system also improves the working environment considerably for drivers, who often struggle with cramped spaces and bad working positions when tying down wheelchairs with 4 point strap systems.

- Power height adjustment from 61 - 91 mm.
- Time consumption only ¼ of tying down wheelchair with 4 point strap system.
- Tested for wheelchairs with a weight of up to 200 kg plus user.
- Approved for anchoring Dahl COMFORT Seat
- 4 step power tightening system to eliminate unwanted play.
- Opening time for lock selectable in 5 or 8 seconds intervals.
- "Maintenance required" warning in display
- Improves working environment for drivers.
- No tie down straps on vehicle floor to trip over.
- Crash tested and CE-marked with approximately 160+ wheelchair models





Dahl VarioDock™ can be used to secure manual and powered wheelchairs with a weight of up to 200 kg plus user, as well as our Dahl COMFORT Seat with integrated 3 point safety belt.



Contents of Dahl VarioDock™ base kit part no. 503600.



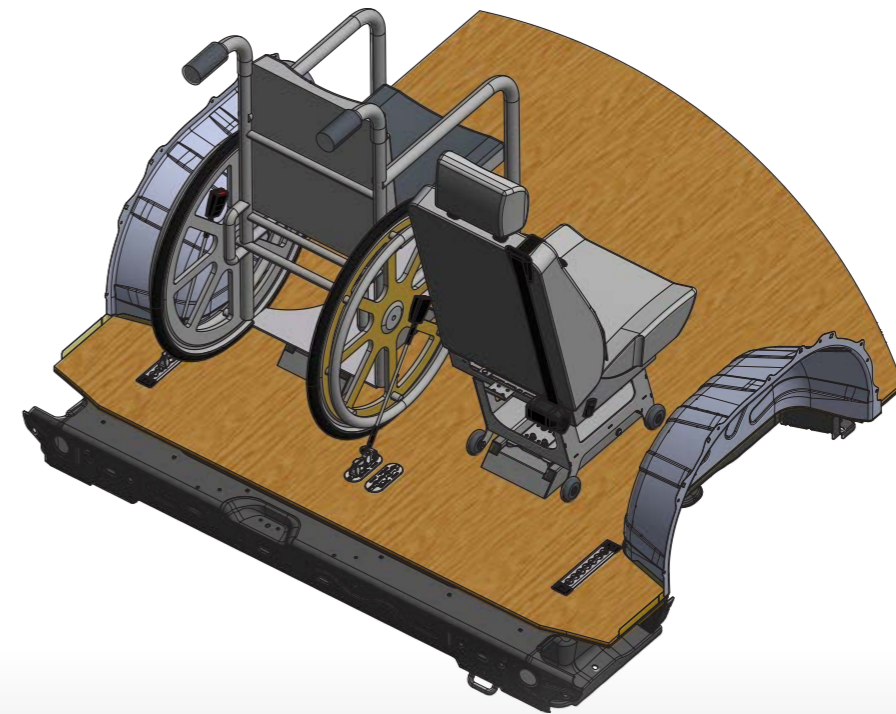
## Anchorage of Dahl COMFORT Seat with integrated 3-point seat belt

Dahl VarioDock™ has also been tested and approved for anchoring Dahl COMFORT Seat with integrated 3-point seat belt, placed on seat row 2 or behind, in a number of vehicle models.

Using VarioDock™ for anchoring the Dahl COMFORT Seat with an integrated 3-point seat belt requires a particularly strong reinforcement kit for the vehicle floor which is designed, tested and approved for the specific vehicle and installation position.

In the event of a collision, the vehicle's floor will be subjected to a much higher torque / load when using a seat with integrated seat anchorage points, than when using a wheelchair, where all seat anchorage points are rooted in the vehicle body and floor.

Please see the current delivery programme of approved and vehicle-specific anchoring kits in our product catalogue, which can be downloaded from our website <http://wtors.com>



### **WARNING!** Risk of death or serious injury

Do not use VarioDock™ to anchor Dahl COMFORT Seats or other seats with integrated seat belt anchor points, if the vehicle has not been fitted with an approved reinforcement kit for VarioDock™.

If a reinforcement kit that has been approved for this use has not been fitted, there is a risk that the user and other passengers in the vehicle may suffer serious or fatal injuries during a collision as a result of the vehicle floor being deformed severely or the anchoring points of the docking station being torn loose.

Therefore, ask your dealer if a VarioDock™ reinforcement kit approved for anchorage of Dahl COMFORT Seat has been fitted to the vehicle and mounting position prior to commissioning.

Here shown are approved design examples based on our COMFORT Seat and VarioDock™

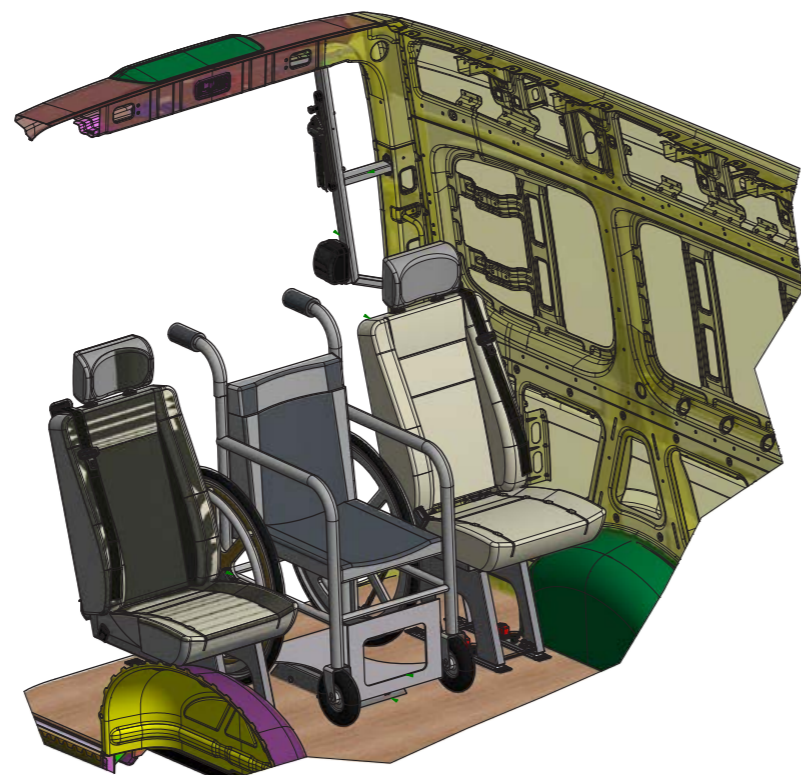
The Dahl VarioDock system provides more flexibility and versatility than any other fastening system on the market, as this is the only system approved for anchoring both seats and wheelchairs. In vehicles equipped with the VarioDock system, the layout and seat configuration can be changed faster than with any other fastening system and this requires less work and time consumption than any other system.

We have chosen to show one example per vehicle model, but there are countless options.

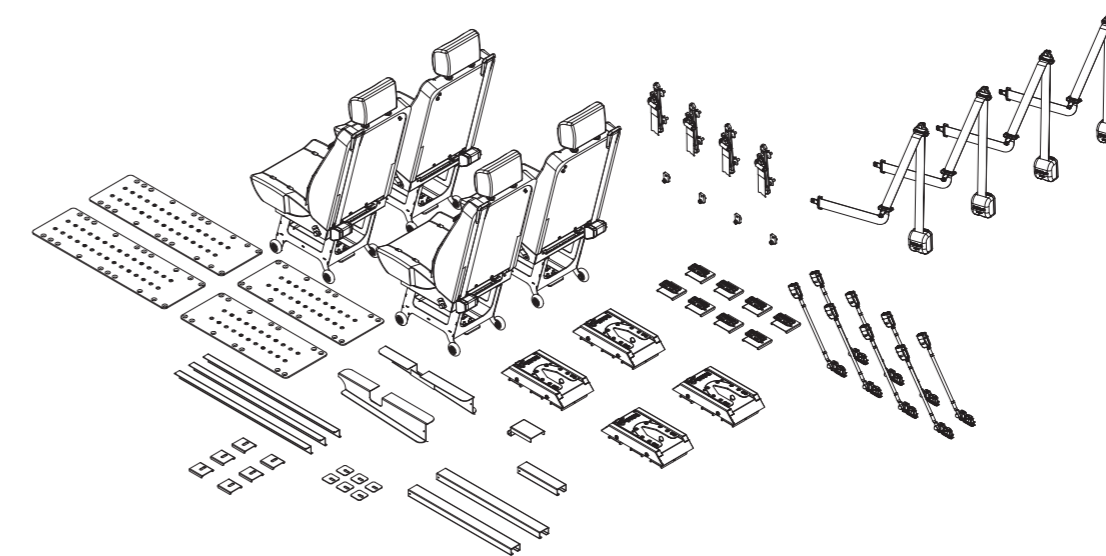
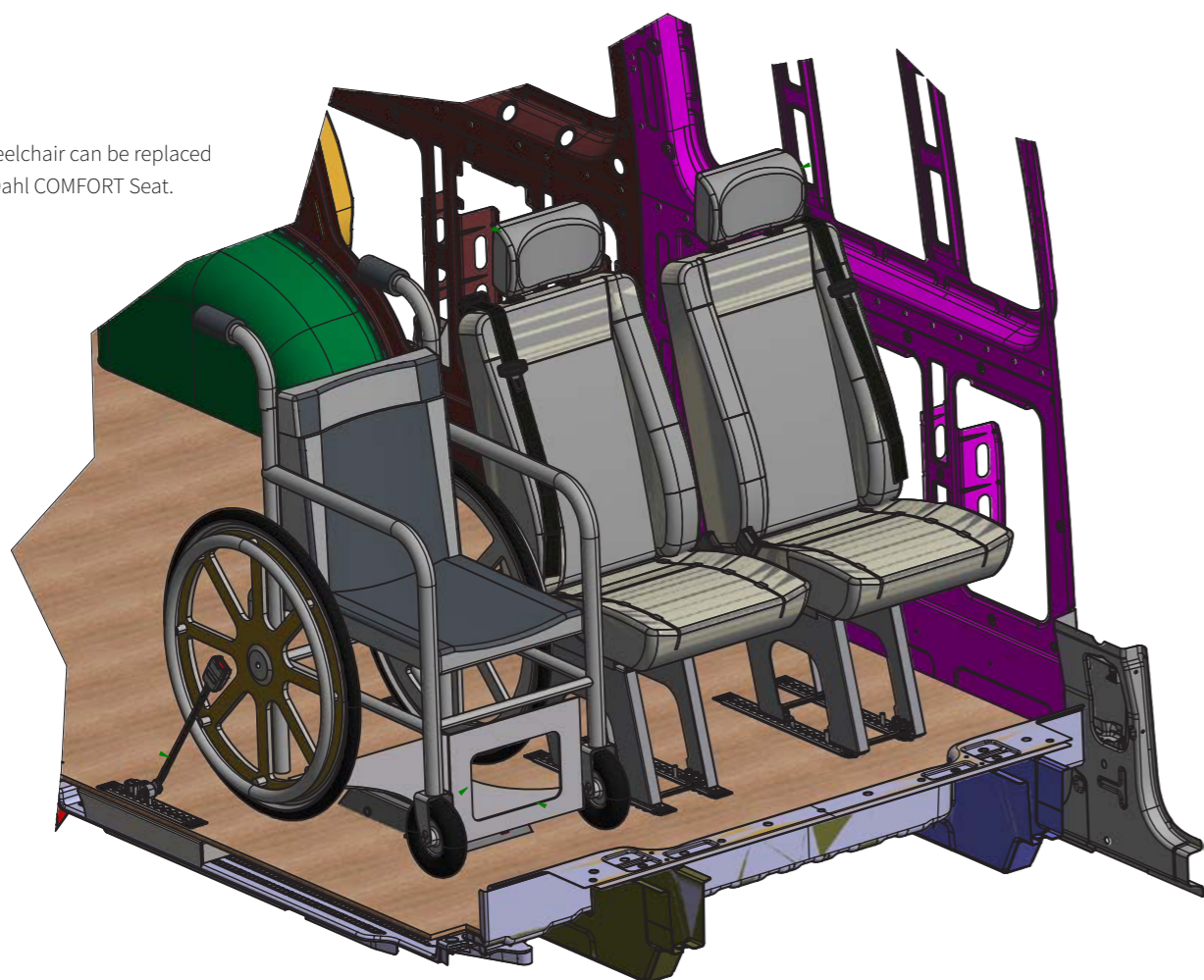
Please contact us in order to find the specific design you need.

**BE CAREFUL**

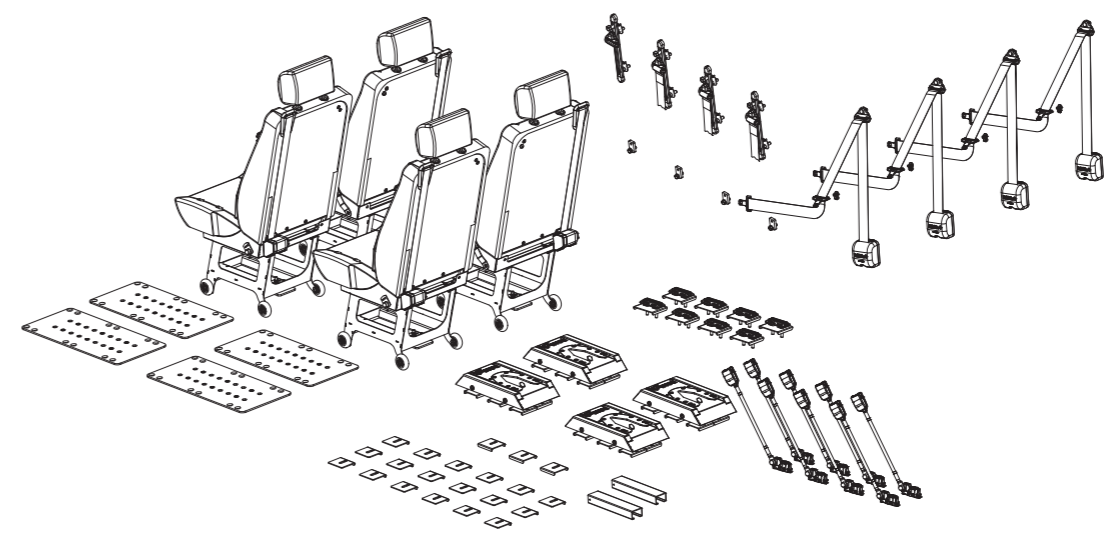
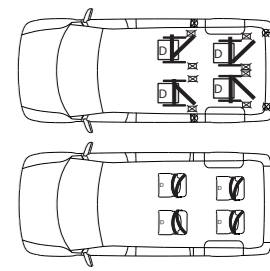
to check vehicle categorization (M1, M2 or M3), wheelbase, equipment variants, original and retrofitted equipment, such as a lift, which is decisive for whether a vehicle is suitable for a given layout, as this affects the vehicle's payload, requirements for distance between seats and wheelchairs, aisle width and access to emergency exits, etc.



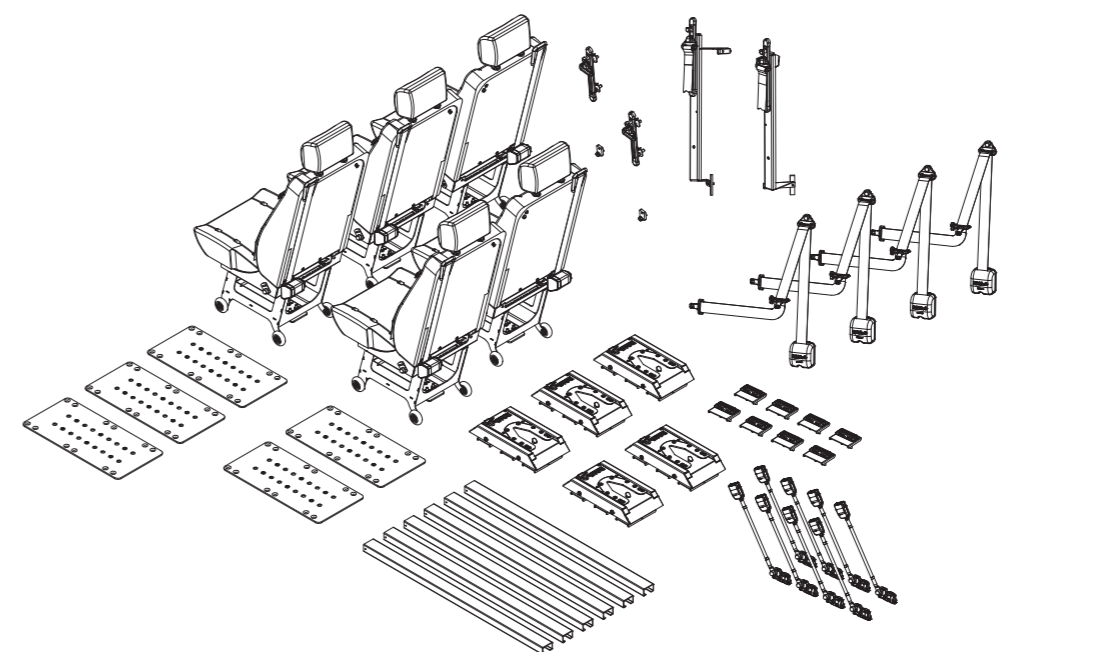
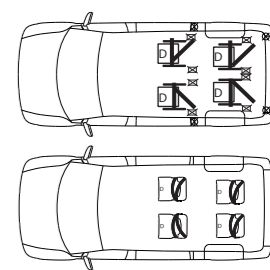
The wheelchair can be replaced by the Dahl COMFORT Seat.



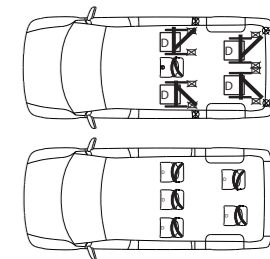
**Part no. 503661**  
VW T5 & T6



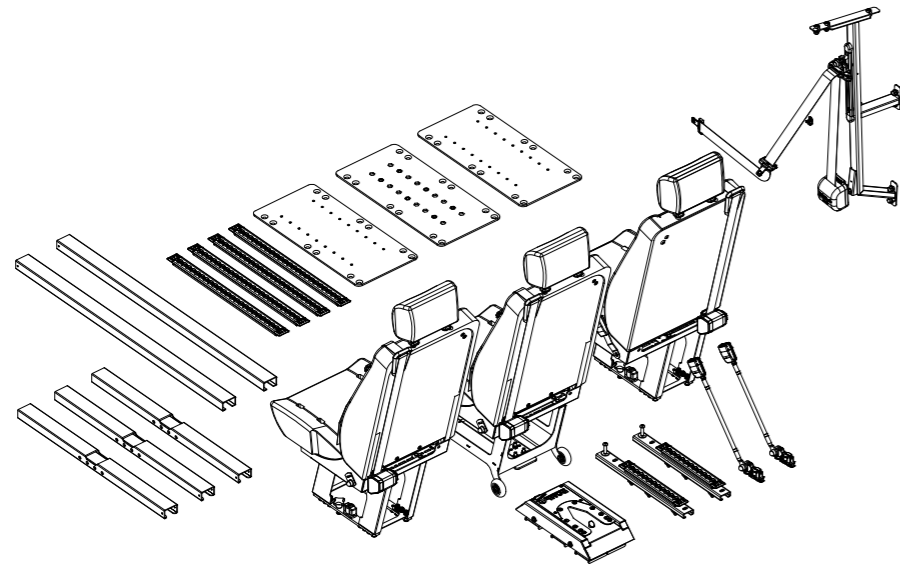
**Part no. 503662**  
Mercedes Vito & V-Class W447



**Part no. 503663**  
Citroën Jumper Y  
Fiat Ducato X250  
Peugeot Boxer Y

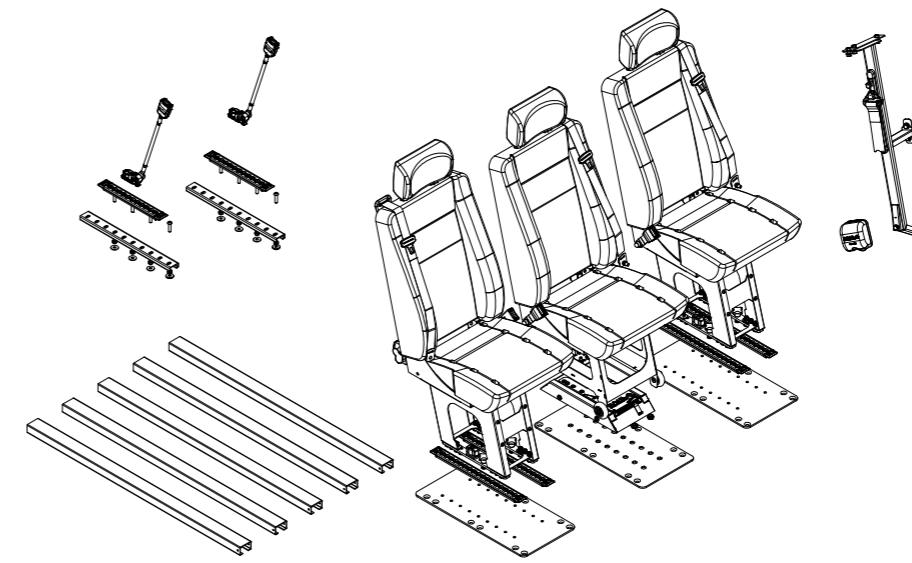
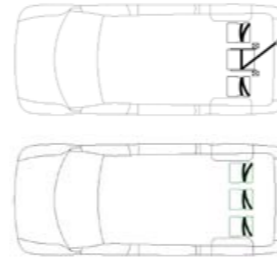




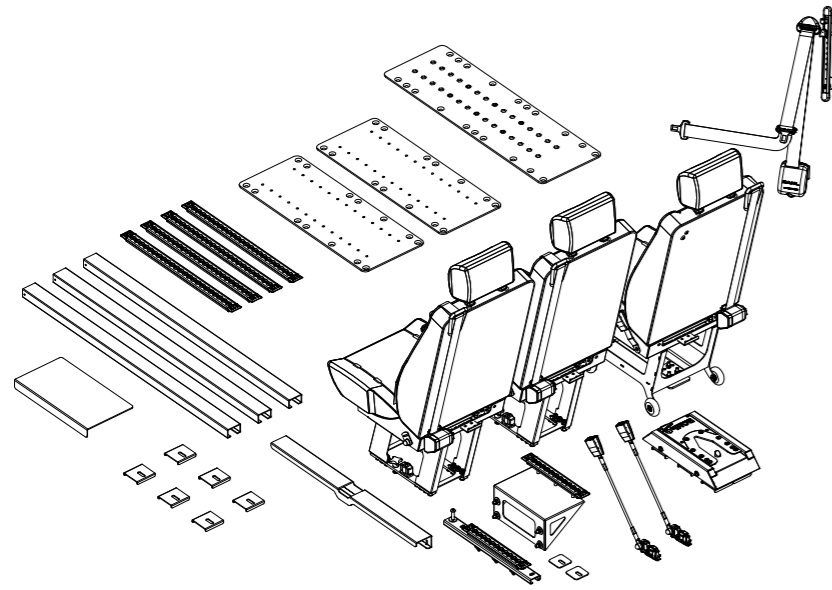
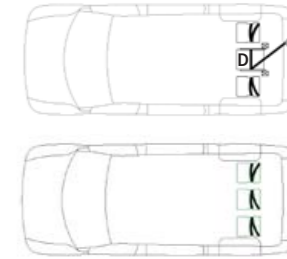


**Part no. 503776**  
 MB Sprinter 906, 907 & 910  
 VW Crafter -2017

FMVSS/CMVSS  
 207/210

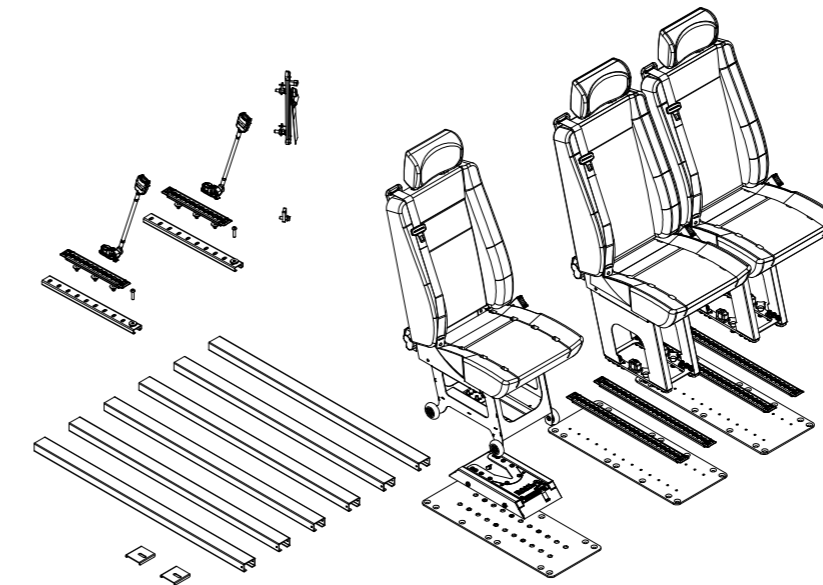
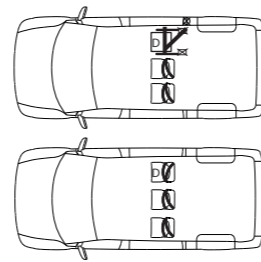


**Part no. 501451**  
 MAN TGE 2017-  
 VW Crafter -2017

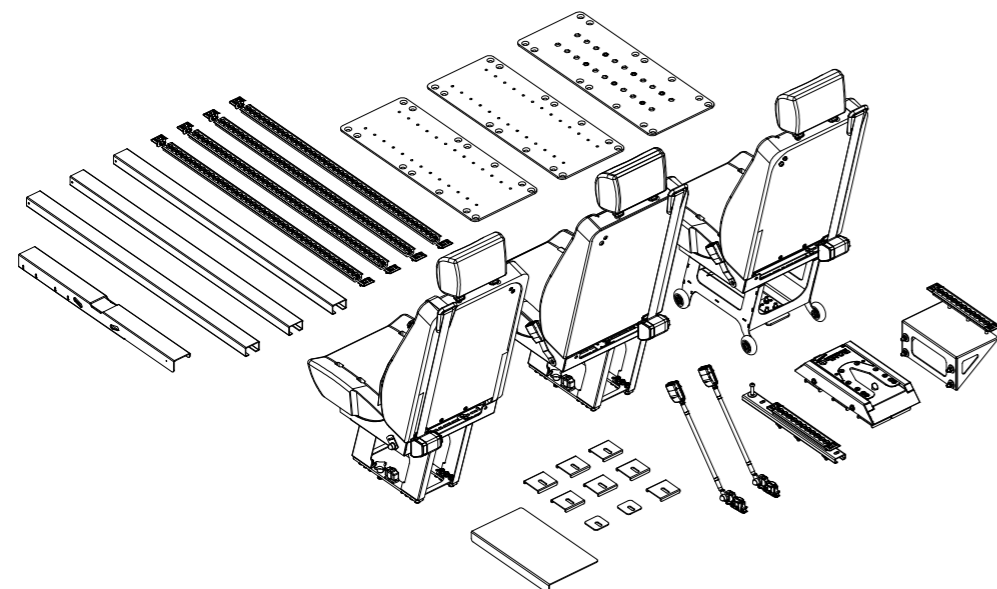
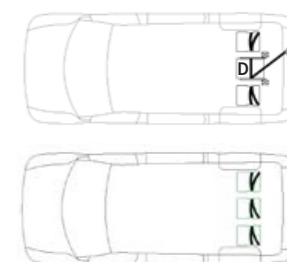


**Part no. 503779**  
 MB Sprinter 906, 907 & 910  
 VW Crafter -2017

FMVSS/CMVSS  
 207/210

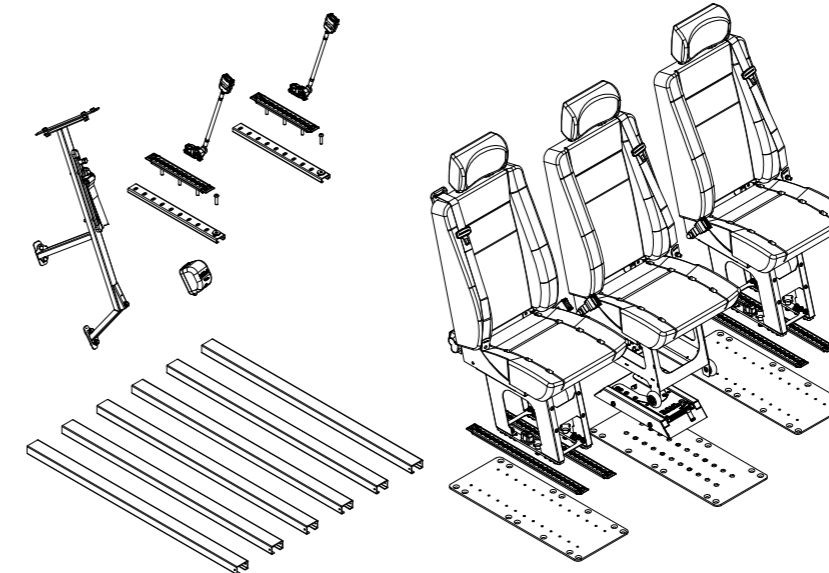
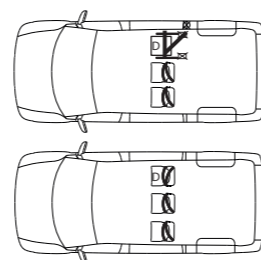


**Part no. 501457**  
 Nissan NV400  
 Opel Movano X62  
 Renault Master X62

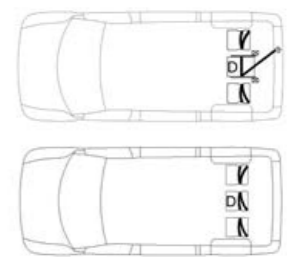


**Part no. 501155**  
 MB Sprinter 906, 907 & 910  
 VW Crafter -2017

FMVSS/CMVSS  
 207/210



**Part no. 501458**  
 Nissan NV400  
 Opel Movano X62  
 Renault Master X62





**Part no. 501552**  
**ACA Drop Floor Conversion:**  
 Jeep Renegade

**Part no. 503665**  
**Freedom Drop Floor Conversion:**  
 Citroën Jumpy & Spacetourer KO  
 Opel Zafira Life  
 Peugeot Expert & Traveller KO  
 Toyota Proace & Proace Verso 2017-

**Part no. 503906**  
 MB Sprinter 906, 907 & 910  
 VW Crafter (2006-2016)

**FMVSS/CMVSS 207/210**

**Part no. 503907**  
 VW T5 & T6

**Part no. 503902**  
 MB Sprinter 906, 907 & 910  
 VW Crafter (2006-2016)

**FMVSS/CMVSS 207/210**

**Part no. 503903**  
 MB Sprinter 906, 907 & 910  
 VW Crafter (2006-2016)

**FMVSS/CMVSS 207/210**

**Part no. 503908**  
 VW T5 & T6

**Part no. 503909**  
 Renault Master X62  
 Opel Movano X62  
 Nissan NV400

**Part no. 503904**  
 VW T5 & T6

**Part no. 503905**  
 MB Sprinter 906, 907 & 910  
 VW Crafter (2006-2016)

**FMVSS/CMVSS 207/210**

**Part no. 503910**  
 VW T5 & T6

**Part no. 503911**  
 Renault Master X62  
 Opel Movano X62  
 Nissan NV400

**Part no. 503912**  
 Renault Master X62  
 Opel Movano X62  
 Nissan NV400

**Part no. 503913**  
 Renault Master X62  
 Opel Movano X62  
 Nissan NV400

**Part no. 503918**  
 MB Vito & V-Class W447

**Part no. 503919**  
 MB Vito & V-Class W447

**Part no. 503914**  
 MB Vito & V-Class W447

**Part no. 503915**  
 MB Vito & V-Class W447

**Part no. 503920**  
 Fiat Talento 2016-  
 MAN TGE 2017-  
 MB Sprinter 906, 907 & 910  
 Mitsubishi Express X82 (AU & NZ)  
 Nissan Primastar  
 Nissan NV300  
 Opel Vivaro X83 & X82  
 Renault Traffic X83 & X82  
 VW Crafter -2016  
 VW Crafter 2017-

**Part no. 503920**  
 Citroen Jumper Y  
 Citroen Jumpy X  
 Fiat Ducato X250  
 Fiat Talento  
 Fiat Scudo VX270  
 Ford Transit Custom V362  
 MB VITO W 639 & 447  
 Nissan Primastar  
 Nissan NV300  
 Opel Vivaro X83 & X82  
 Peugeot Boxer Y  
 Peugeot Expert X  
 Renault Traffic X83 & X82  
 Toyota Proace  
 VW T5 & T6

**Part no. 503921**  
 Fiat Talento 2016-  
 MAN TGE 2017-  
 MB Sprinter 906, 907 & 910  
 Mitsubishi Express X82 (AU & NZ)  
 Nissan NV300  
 Nissan Primastar  
 Opel Vivaro X83 & X82  
 Renault Traffic X83 & X82  
 VW Crafter -2016  
 VW Crafter 2017-

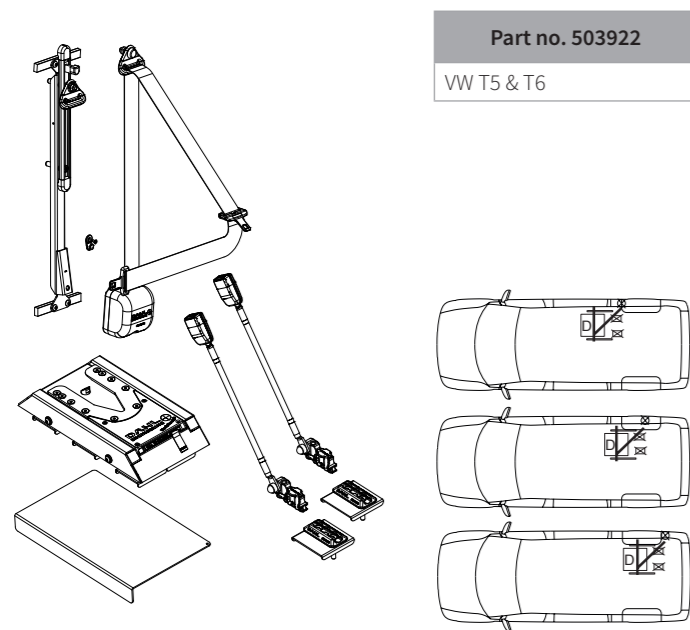
**Part no. 503921**  
 Citroen Jumper Y  
 Citroen Jumpy X  
 Fiat Ducato X250  
 Fiat Scudo X270  
 Fiat Talento  
 Ford Transit Custom V362  
 MB VITO W 639 & 447  
 Nissan Primastar  
 Nissan NV300  
 Peugeot Boxer Y  
 Peugeot Expert X  
 Opel Vivaro X83 & X82  
 Renault Traffic X83 & X82  
 Toyota Proace  
 VW T5 & T6

**Part no. 503916**  
 MB Vito & V-Class W447

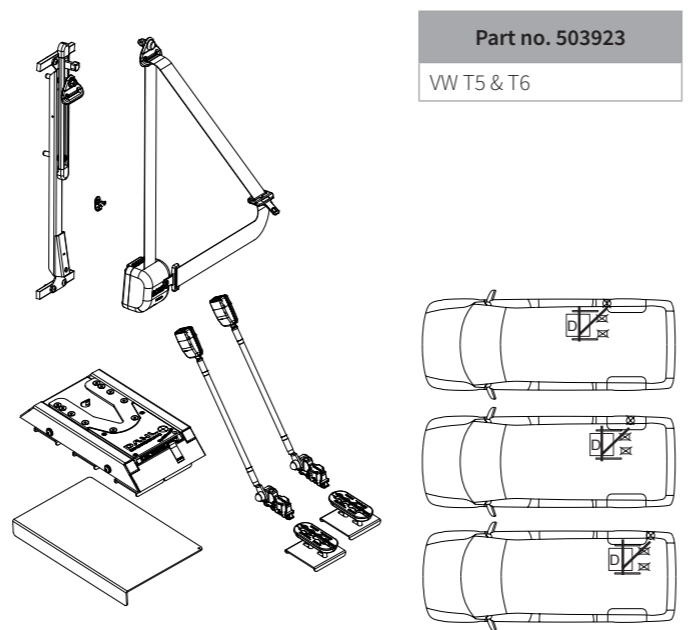
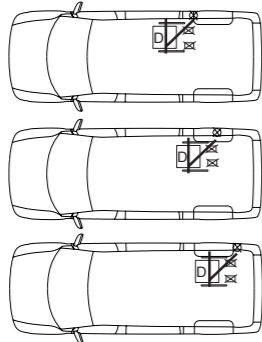
**Part no. 503917**  
 MB Vito & V-Class W447

**Part no. 503920**

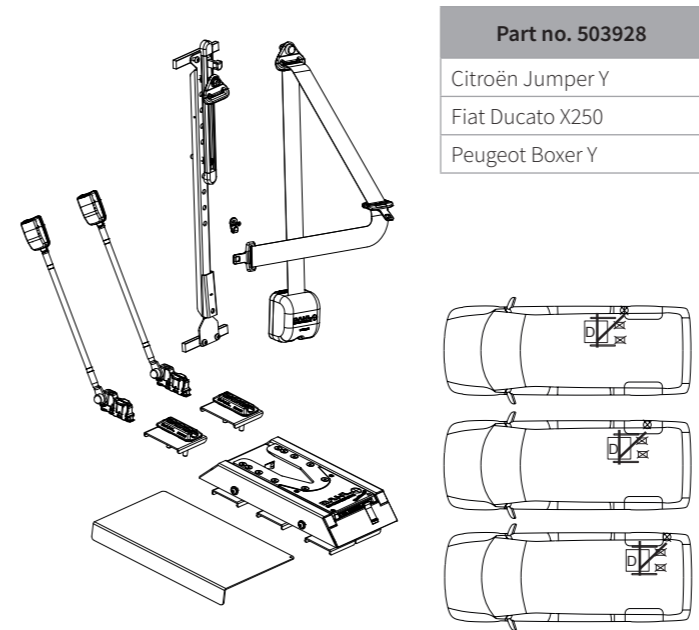
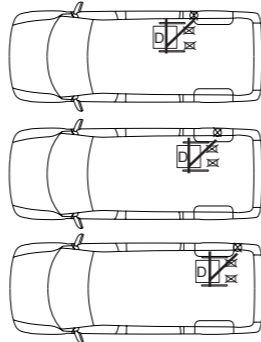
**Part no. 503921**



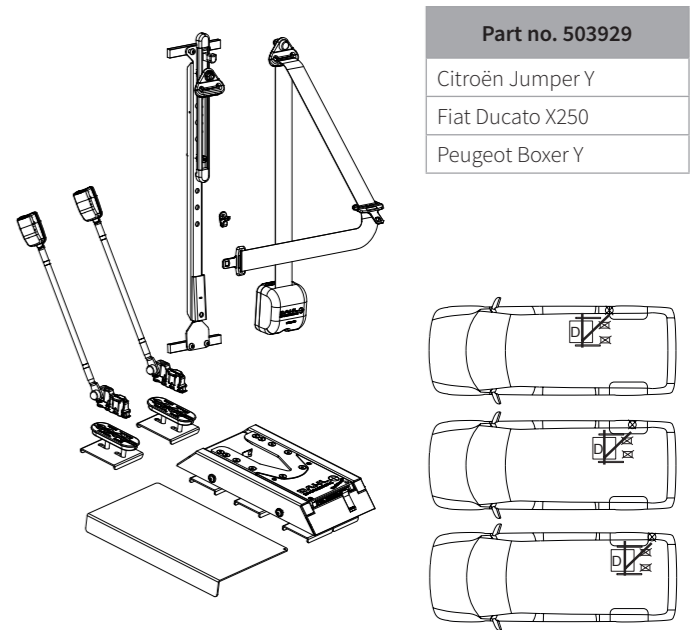
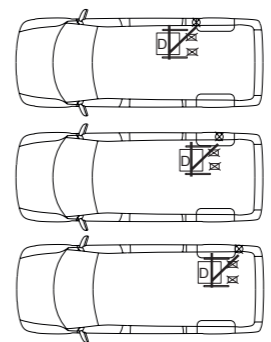
**Part no. 503922**  
VW T5 & T6



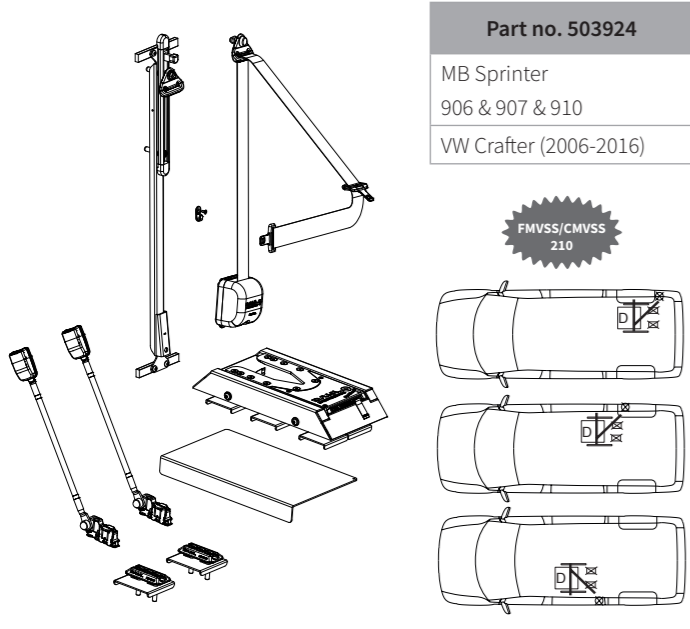
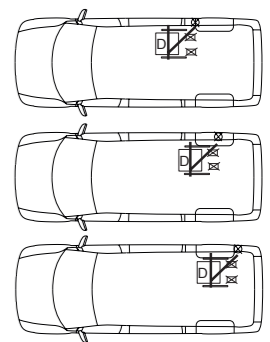
**Part no. 503923**  
VW T5 & T6



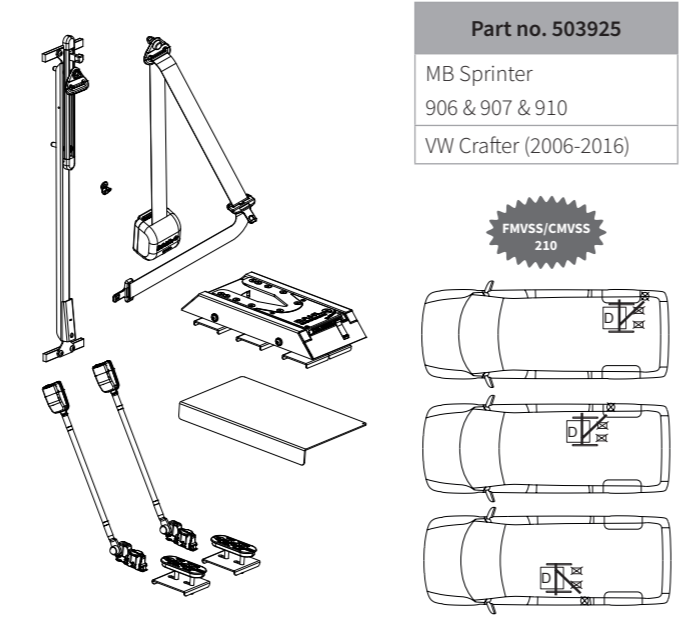
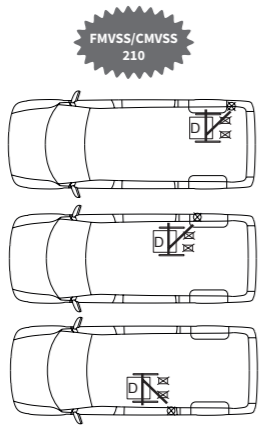
**Part no. 503928**  
Citroën Jumper Y  
Fiat Ducato X250  
Peugeot Boxer Y



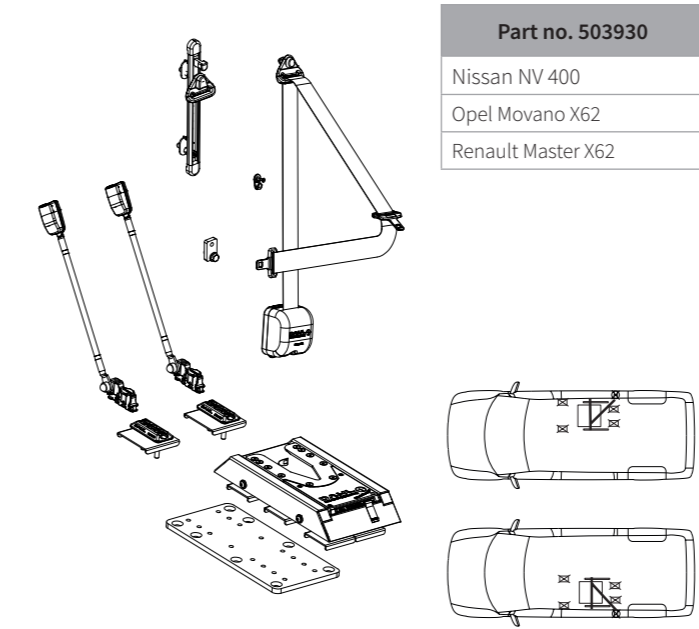
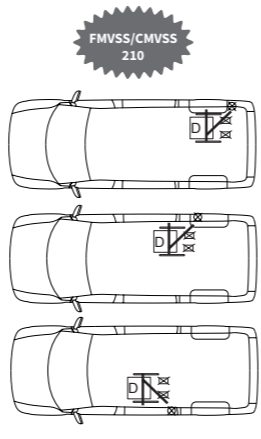
**Part no. 503929**  
Citroën Jumper Y  
Fiat Ducato X250  
Peugeot Boxer Y



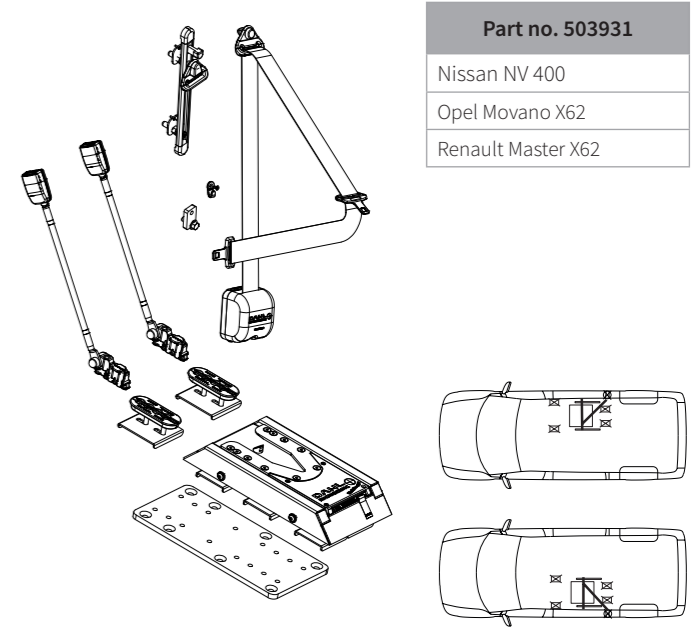
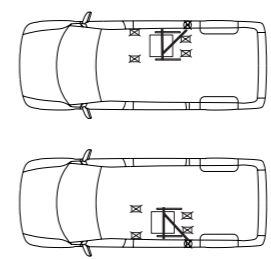
**Part no. 503924**  
MB Sprinter  
906 & 907 & 910  
VW Crafter (2006-2016)



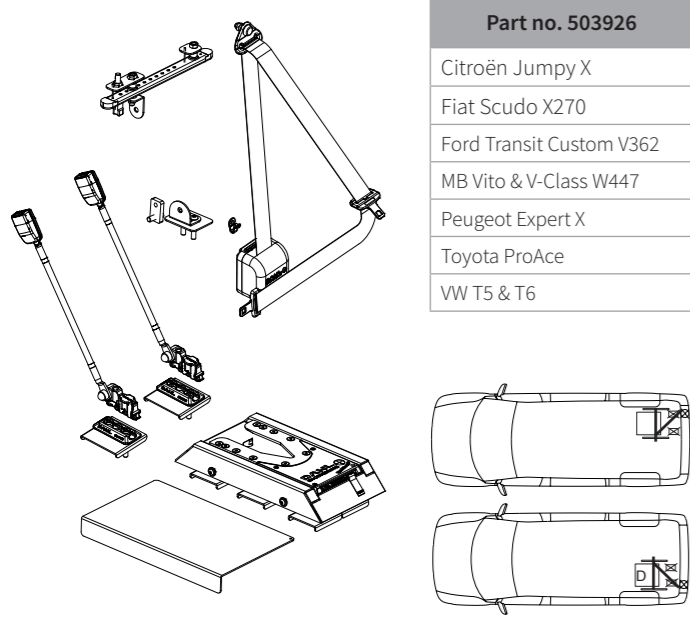
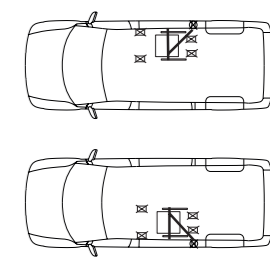
**Part no. 503925**  
MB Sprinter  
906 & 907 & 910  
VW Crafter (2006-2016)



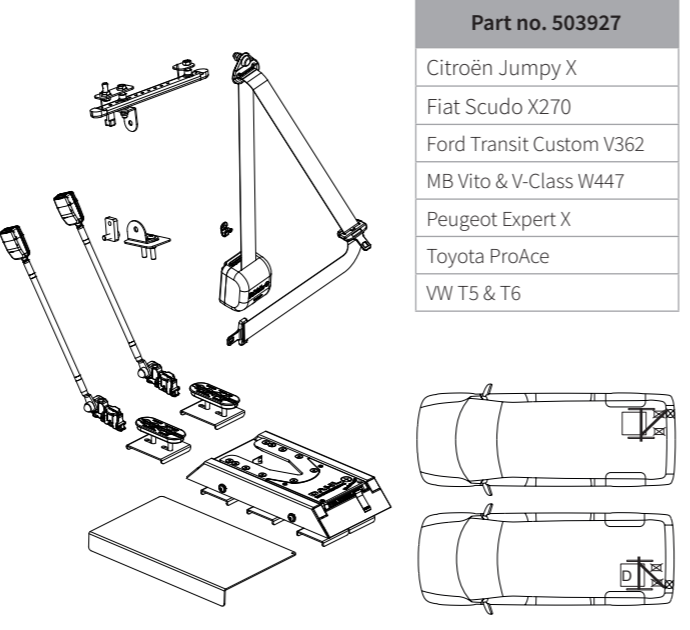
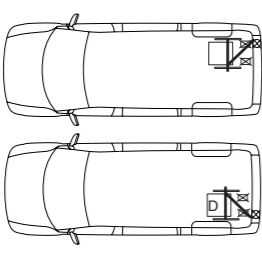
**Part no. 503930**  
Nissan NV 400  
Opel Movano X62  
Renault Master X62



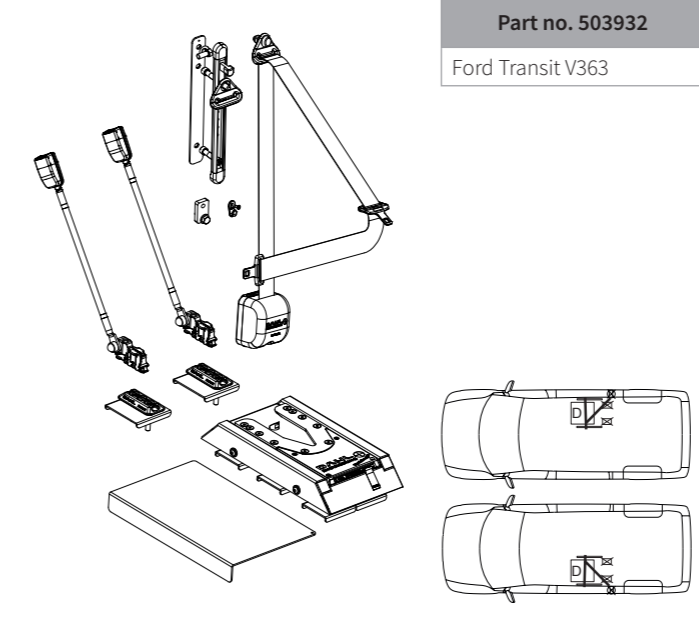
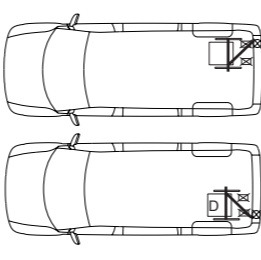
**Part no. 503931**  
Nissan NV 400  
Opel Movano X62  
Renault Master X62



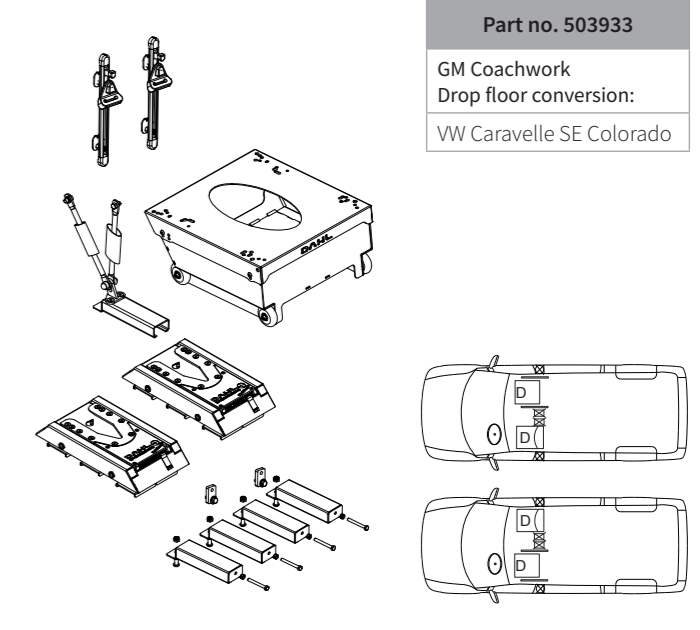
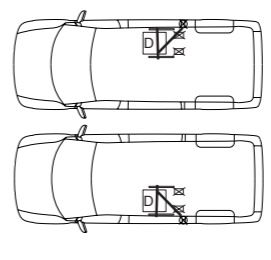
**Part no. 503926**  
Citroën Jumpy X  
Fiat Scudo X270  
Ford Transit Custom V362  
MB Vito & V-Class W447  
Peugeot Expert X  
Toyota ProAce  
VW T5 & T6



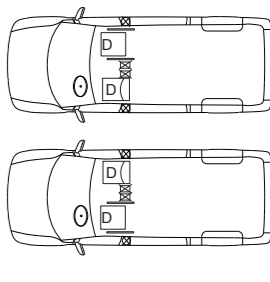
**Part no. 503927**  
Citroën Jumpy X  
Fiat Scudo X270  
Ford Transit Custom V362  
MB Vito & V-Class W447  
Peugeot Expert X  
Toyota ProAce  
VW T5 & T6

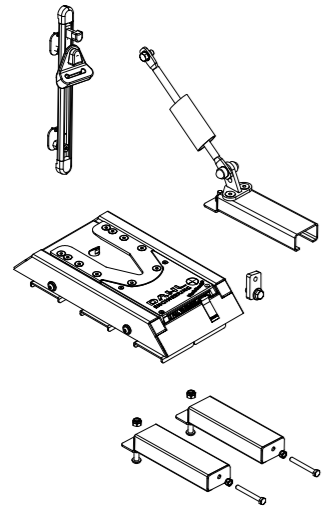


**Part no. 503932**  
Ford Transit V363

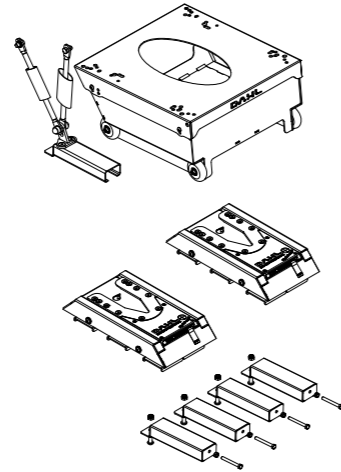
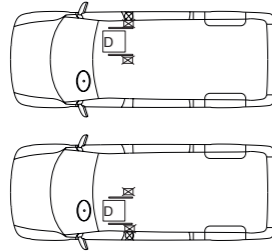


**Part no. 503933**  
GM Coachwork  
Drop floor conversion:  
VW Caravelle SE Colorado

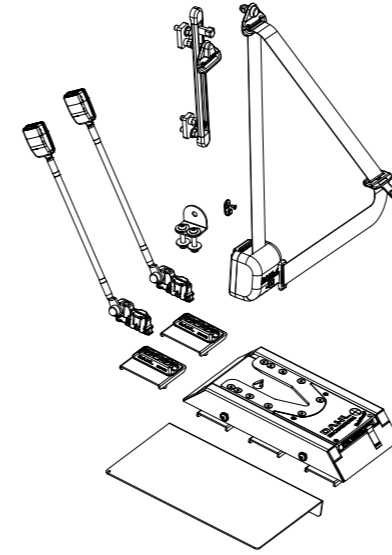
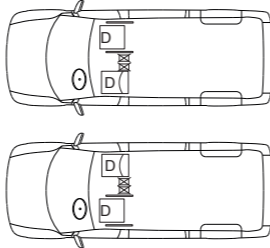




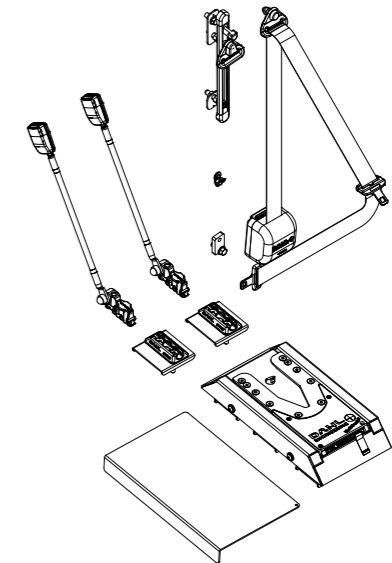
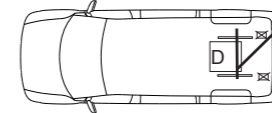
**Part no. 503934**  
GM Coachwork  
Drop floor conversion:  
VW Caravelle SE Colorado



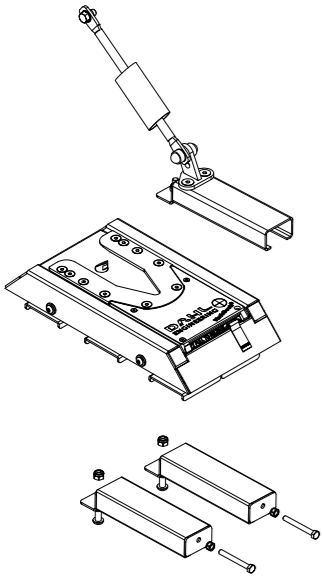
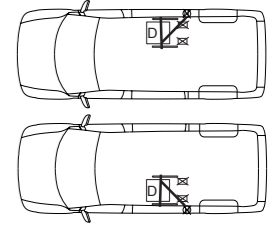
**Part no. 503935**  
GM Coachwork  
Drop floor conversion:  
VW Caravelle SE Colorado



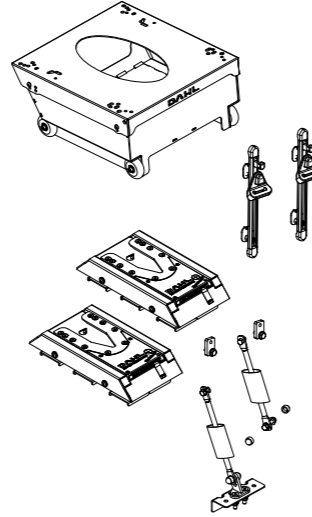
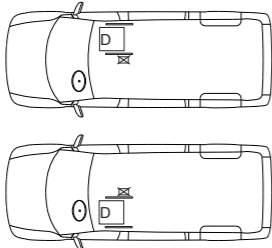
**Part no. 503940**  
Fiat Doblo  
High roof SWB & LWB  
Opel Combo  
High roof SWB & LWB



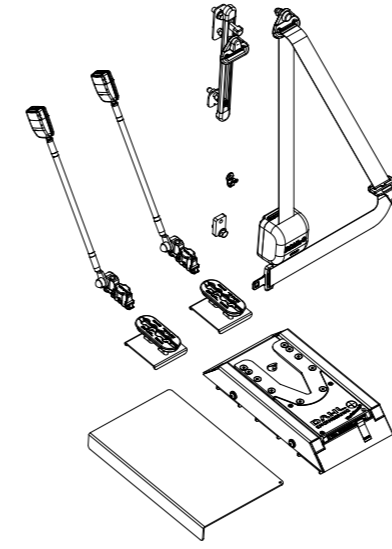
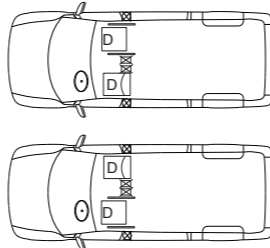
**Part no. 503941**  
VW Crafter 2017-  
MAN TGE 2017-



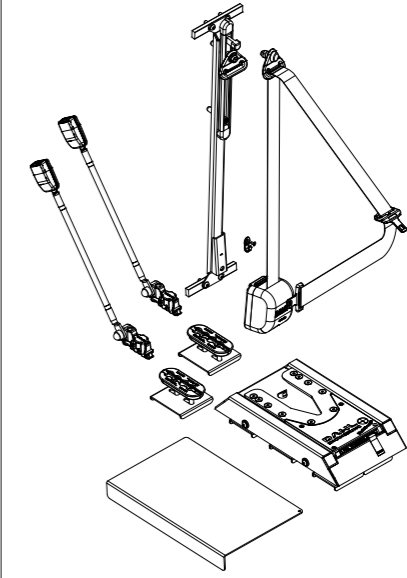
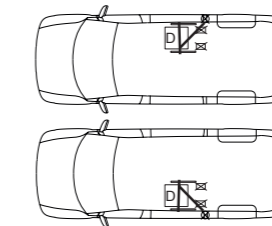
**Part no. 503936**  
GM Coachwork  
Drop floor conversion:  
VW Caravelle SE Colorado



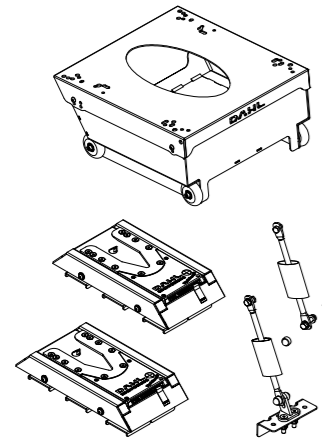
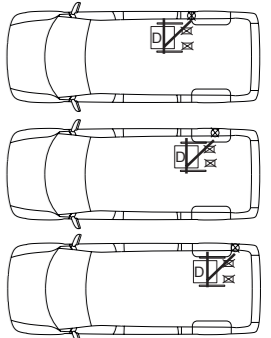
**Part no. 503937**  
Zawatzky Drop Floor  
Conversion:  
VW T6 Centervan



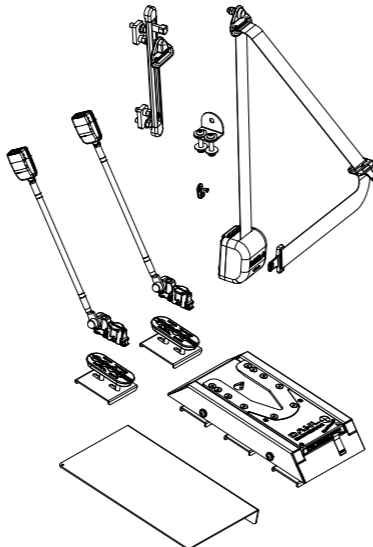
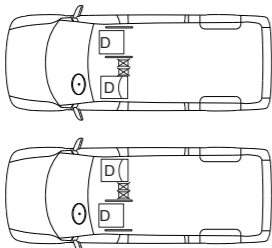
**Part no. 503942**  
VW Crafter 2017-  
MAN TGE 2017-



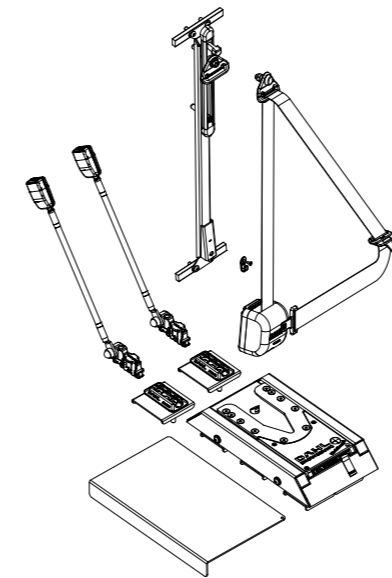
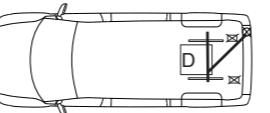
**Part no. 503943**  
VW Crafter 2017-  
MAN TGE 2017-



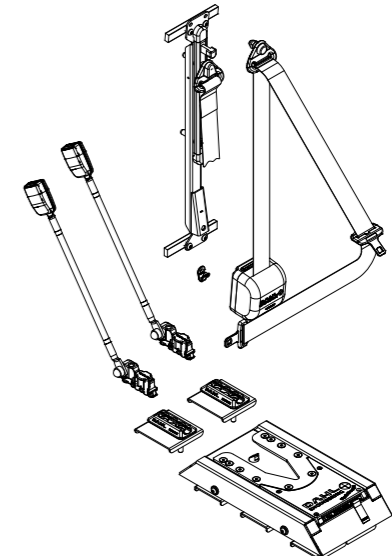
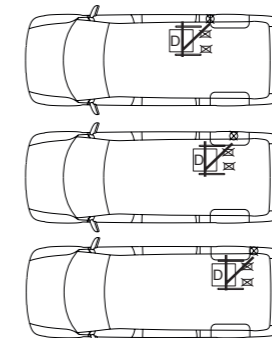
**Part no. 503938**  
Zawatzky Drop Floor  
Conversion:  
VW T6 Centervan



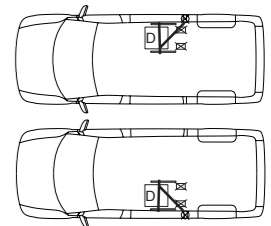
**Part no. 503939**  
Fiat Doblo  
High roof SWB & LWB  
Opel Combo  
High roof SWB & LWB

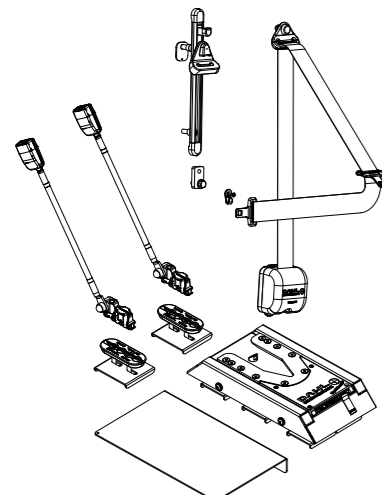


**Part no. 503944**  
VW Crafter 2017-  
MAN TGE 2017-

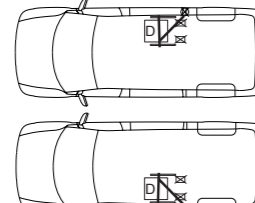
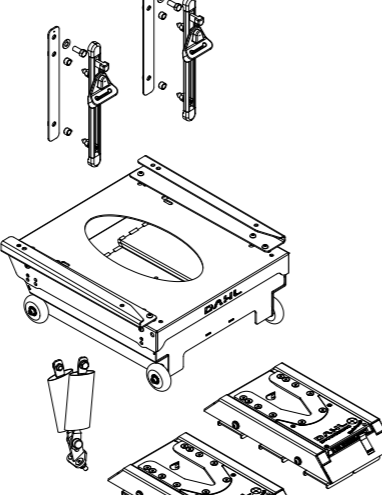


**Part no. 503945**  
Nissan NV 200

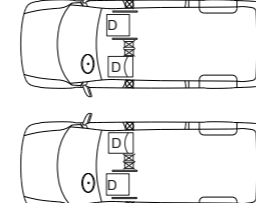
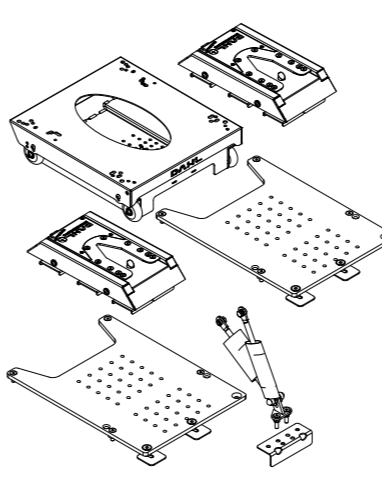




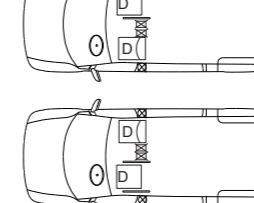
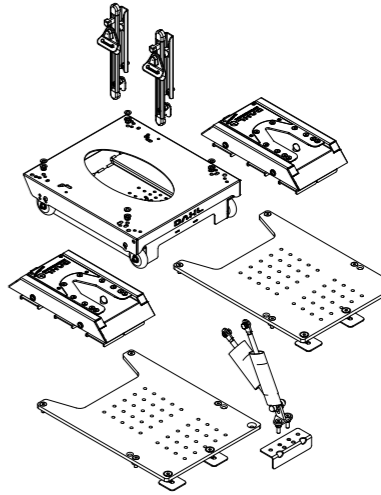
Part no. 503946
Citroën Jumpy & Spacetourer KO
Opel Zafira Life
Peugeot Expert & Traveller KO
Toyota Proace & Proace Verso 2016-

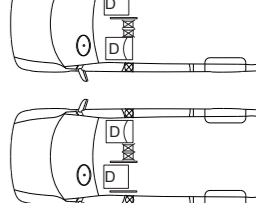
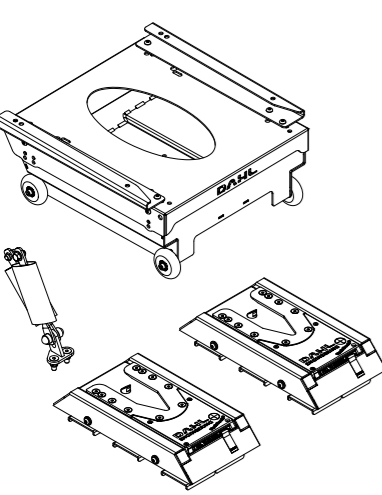
Part no. 503947
ITEK Drop Floor Conversion:
VW Caddy Active

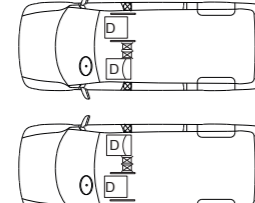
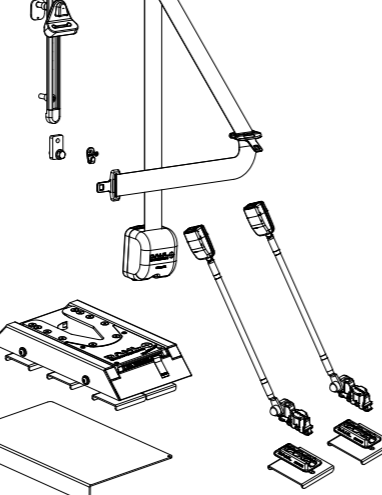
Part no. 503952
Citroën Jumpy & Spacetourer KO
Opel Zafira Life
Peugeot Expert & Traveller KO
Toyota Proace & Proace Verso 2016-

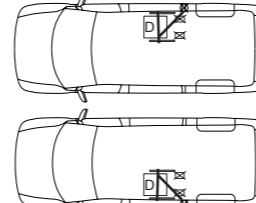
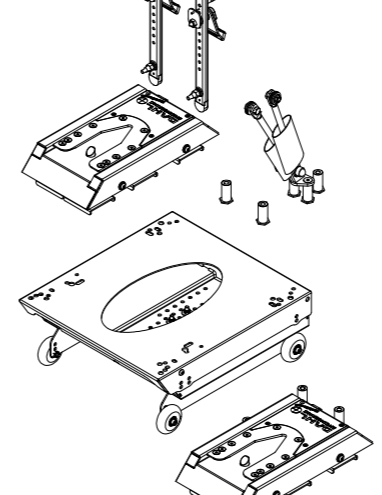
Part no. 503953
Citroën Jumpy & Spacetourer KO
Opel Zafira Life
Peugeot Expert & Traveller KO
Toyota Proace & Proace Verso 2016-

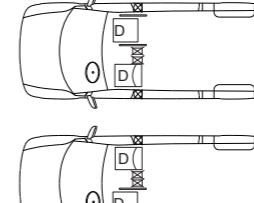
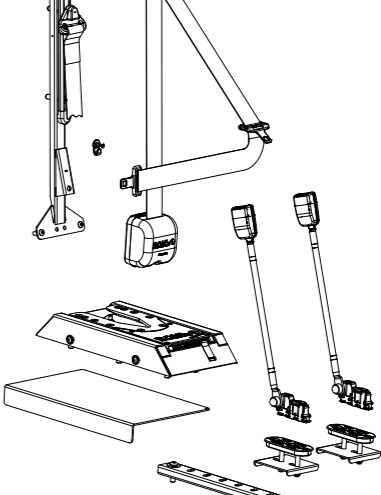
Part no. 503948
ITEK Drop Floor Conversion:
VW Caddy Active

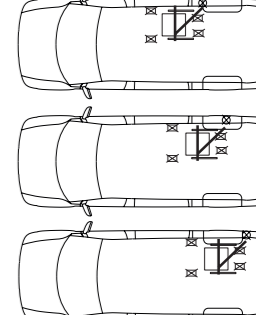
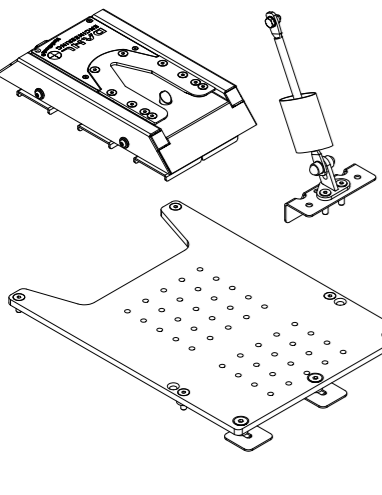
Part no. 503949
Citroën Jumpy & Spacetourer KO
Opel Zafira Life
Peugeot Expert & Traveller KO
Toyota Proace & Proace Verso 2016-

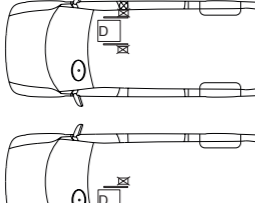
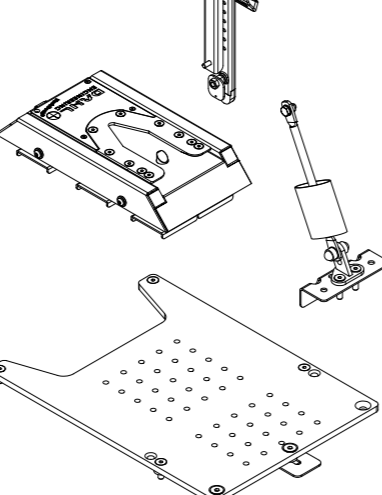
Part no. 503953
Tripod/Allied Drop Floor Conversion:
Citroën Berlingo
Peugeot Partner

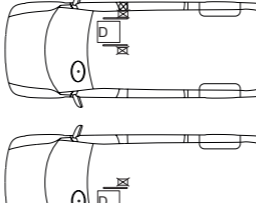
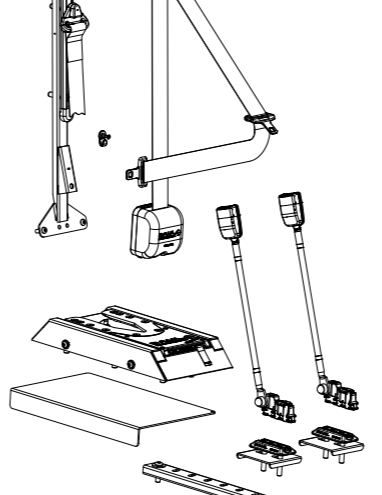
Part no. 503005
MB Vito
MB V-Class 447

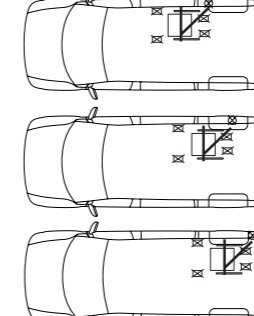
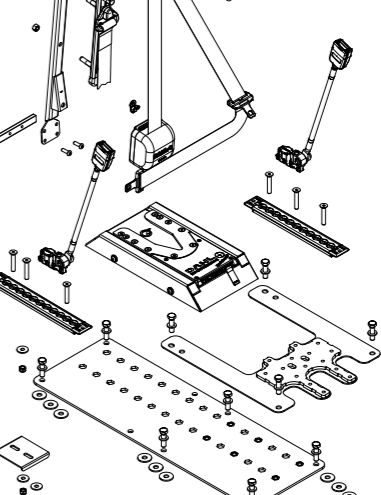
Part no. 503950
Citroën Jumpy & Spacetourer KO
Opel Zafira Life
Peugeot Expert & Traveller KO
Toyota Proace & Proace Verso 2016-

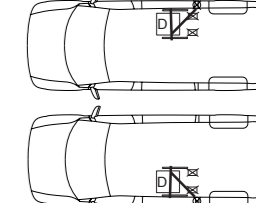
Part no. 503951
Citroën Jumpy & Spacetourer KO
Opel Zafira Life
Peugeot Expert & Traveller KO
Toyota Proace & Proace Verso 2017-

Part no. 503007
MB Vito
MB V-Class 447

Part no. 500222
Ford Transit Custom V710
VW New Transporter / Caravelle 2025-



FMVSS/CMVSS  
207/210





# Dahl Docking Station Mk II



Part no.: 501750 - Dahl Docking Station MK II

Dahl Engineering's Docking System provides a hitherto unseen flexibility and safety for wheelchair users. The Docking System is the first system on the market to be tested and TÜV certified in accordance with EU safety requirements for cars (M1). In testing, the docking station has proved to be so strong that it can withstand a load corresponding to a wheelchair weight of more than 200 kg + passenger provided that the safety belt is installed in the traditional manner in the floor of the vehicle.



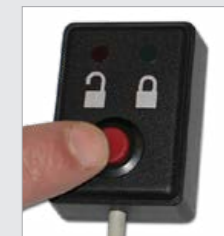
Part no. 501750  
Contents of a standard set for MK II.



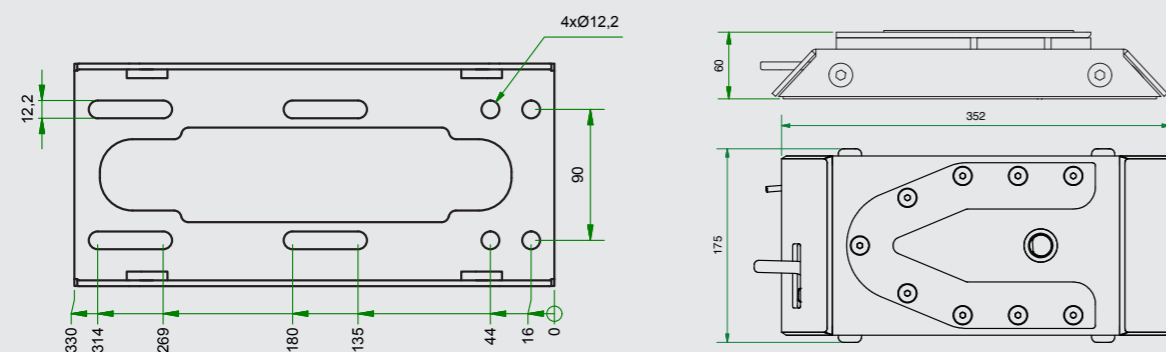
# Dahl Docking Station MK II - Easy to operate



A lock plate and a spacer must be fitted under the wheelchair. When the wheelchair is maneuvered towards the docking station, it is guided into place by means of the lock plate and is secured automatically.

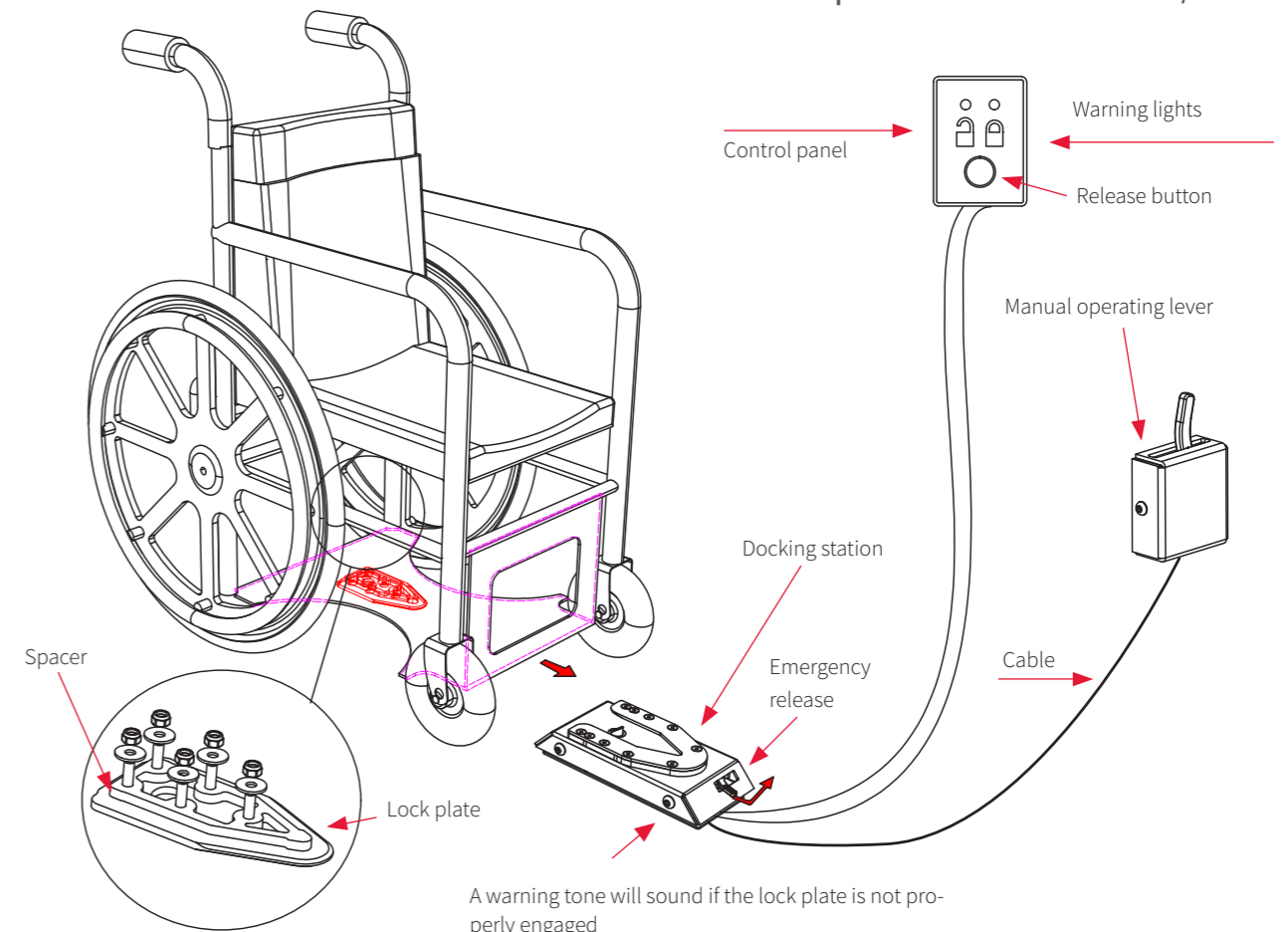


The wheelchair is released by pressing the red button on the control panel.



You can find more information about maintenance and installation of the Dahl Docking Station MK II on our website.

## Description of the function / MK II



# Accessories for Dahl Docking System MK II and VarioDock™



## Seat base for anchoring original driver's seats with Dahl Docking Station MKII and VarioDock™

In addition to being approved for securing wheelchair tie-down, the Dahl Docking Station MKII and VarioDock™ have also been tested and approved for anchoring several original car manufacturers' seats.

These seat bases with pre-drilled holes can be anchored in the Dahl Docking Station MK II and VarioDock™ and placed on the vehicles' 1st seat row, allowing the driver and passenger to switch seats.

Our seat base is tested according to ECE regulation 14 and 17.

Please ask which seat base is best suited for the specific car model.

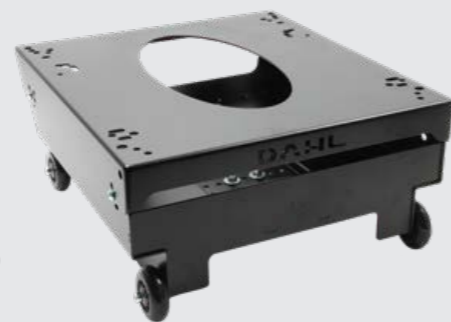
Part no. 503245  
Height 135-202 mm

Part no. 501448  
Height 135-202 mm (wide base)

Part no. 500650  
Height 174-241 mm

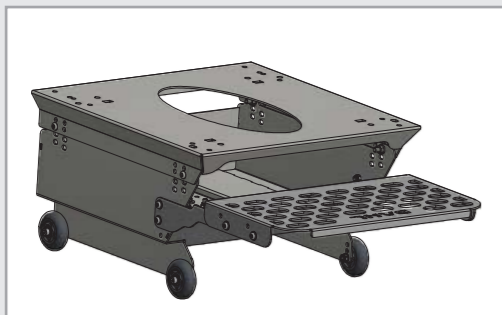
Part no. 502270  
Height 231-297 mm

Part no. 502214  
Height 231-297 mm (wide base)



Part no. 501384  
Footrest for seat base in drop floor converted vehicles.  
Fits: 502270, 502214, and 500650.

Acquire Dahl drawing no. 501396 to cross-check dimensions for vehicle in question.

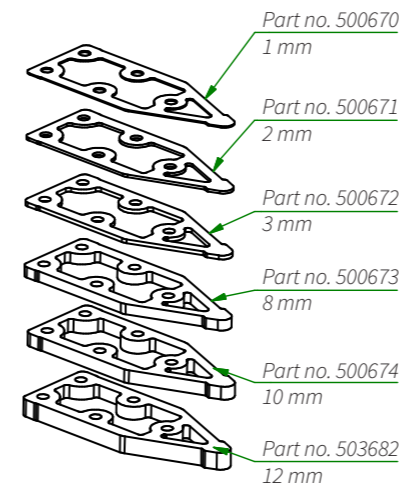


The seat base frame can be assembled in 36 different positions for optimum flexibility and comfort, thus allowing the seat height and angle to be adjusted.

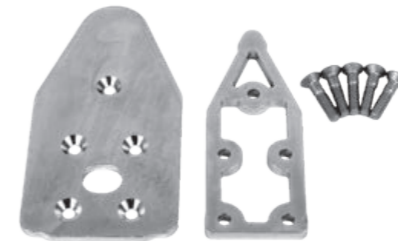


# Accessories for Dahl Docking System MK II

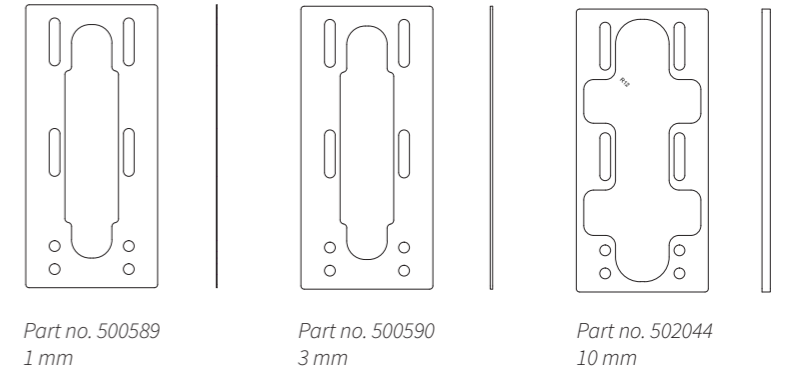
## Spacers for height adjustment of the lock plate



Part no. 503125  
Lock plate with bolts and 8 mm spacer



## Spacers for height adjustment of the Docking Station



## Servicekits

Art.no. 502010 - Servicekit - MK II, (until 05/2017)  
Art.no. 502493 - Servicekit - MK II, (from 06/2017-)  
Art.no. 503636 - Servicekit - VarioDock™

## Manual operating lever and cable

Part no. 500680

Part no. 502418



## Emergency release tool

Part no. 503161



## Subframes for Docking Station Mk II

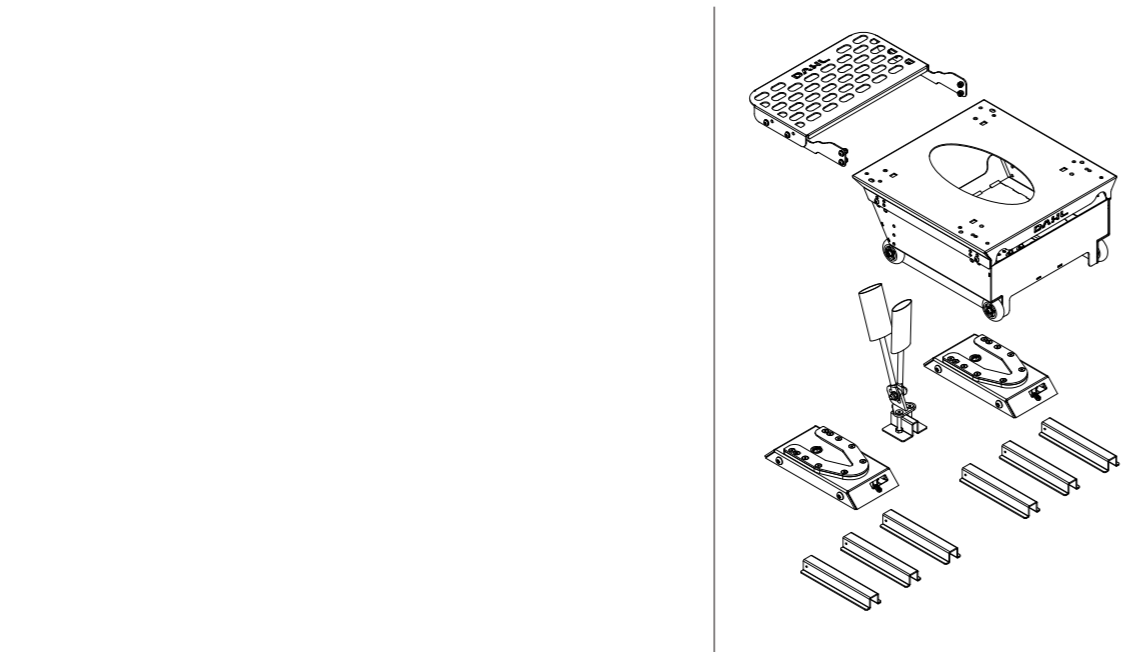


Part no. 501790  
Subframe 85 mm

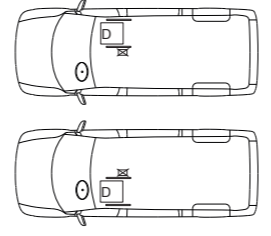
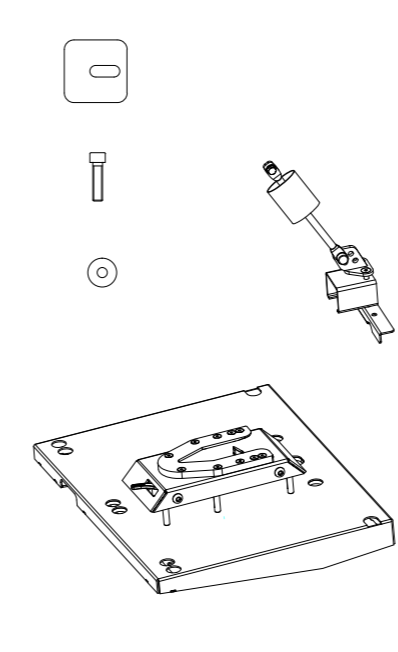


Part no. 501791  
Subframe 100 mm



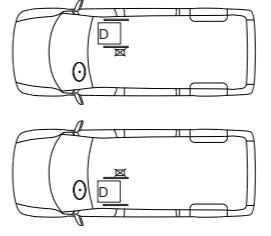
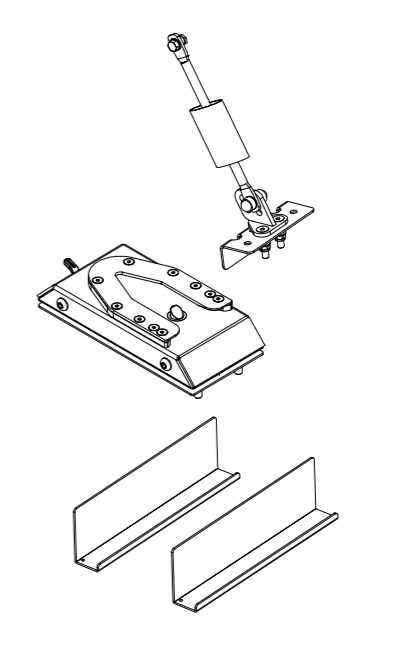


<b>Part no. 501551</b>
ACA Dropfloor Conversion:
Jeep Renegade

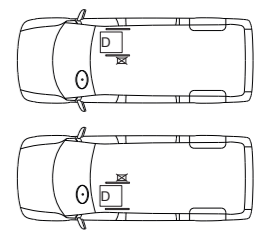
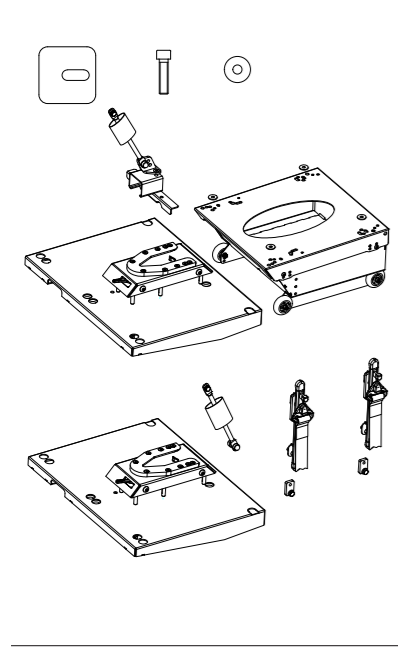



<b>Part no. 502035</b>
MB Sprinter 906 & 907 VW Crafter (2006-2016)

**FMVSS/CMVSS  
207/210**

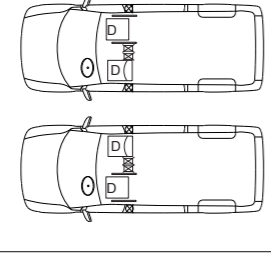
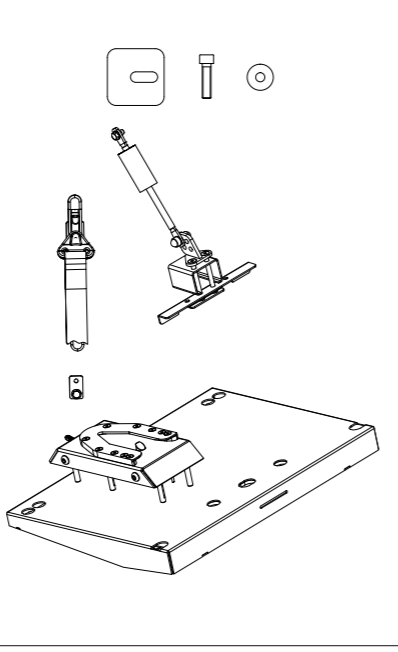



<b>Part no. 502036</b>
VW T5 & T6

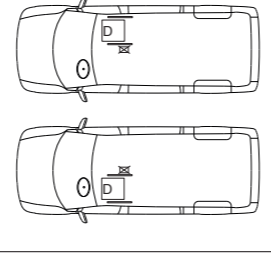
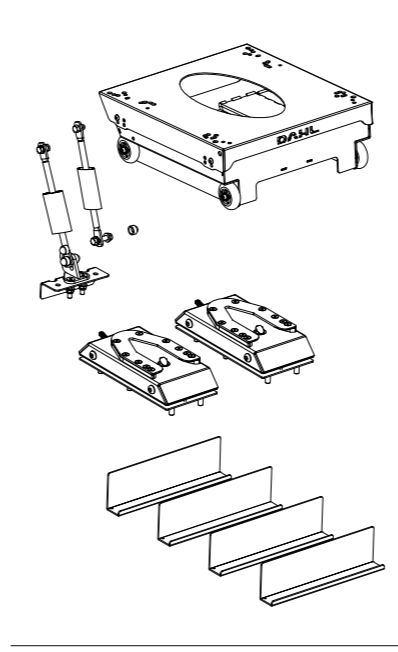
<b>Part no. 501970</b>
MB Sprinter 906 & 907 VW Crafter (2006-2016)

**FMVSS/CMVSS  
207/210**

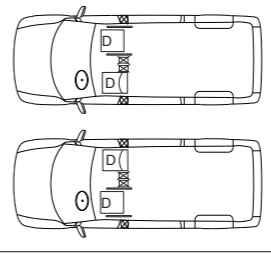
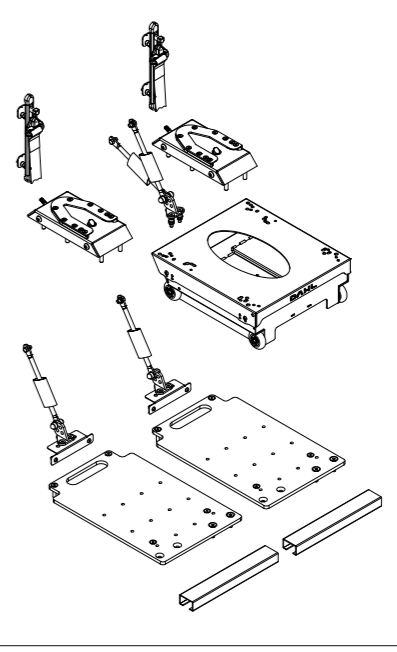



<b>Part no. 501971</b>
MB Sprinter 906 & 907 VW Crafter (2006-2016)

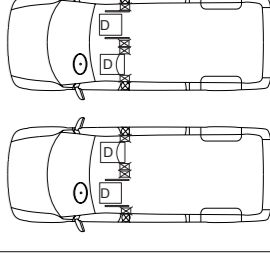
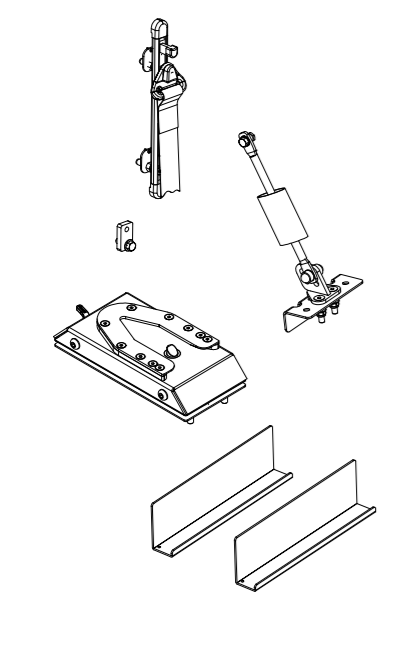
**FMVSS/CMVSS  
207/210**

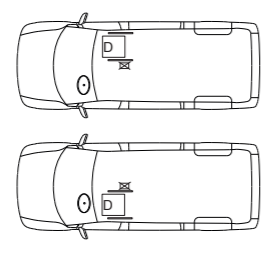
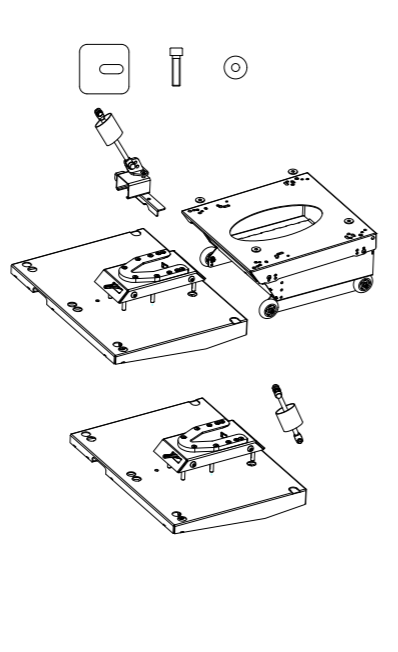
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VW T5 & T6

<b>Part no. 502039</b>
Renault Master X62 Opel Movano X62 Nissan NV400

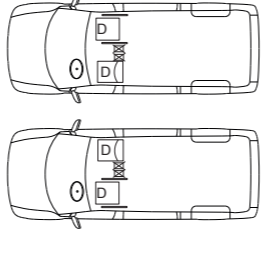
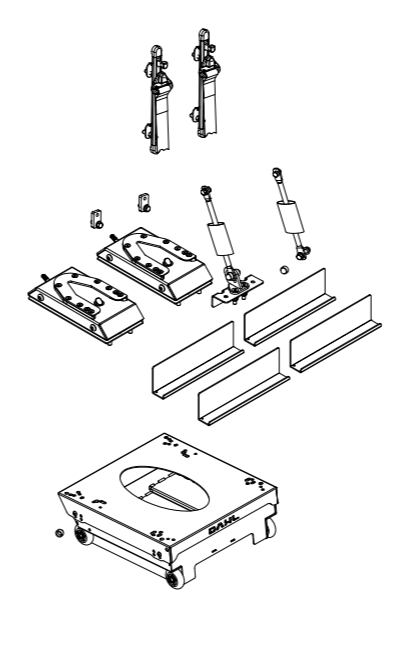



<b>Part no. 501973</b>
VW T5 & T6

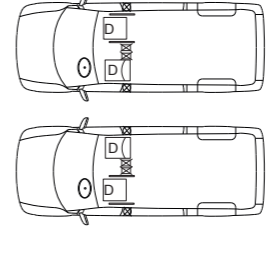
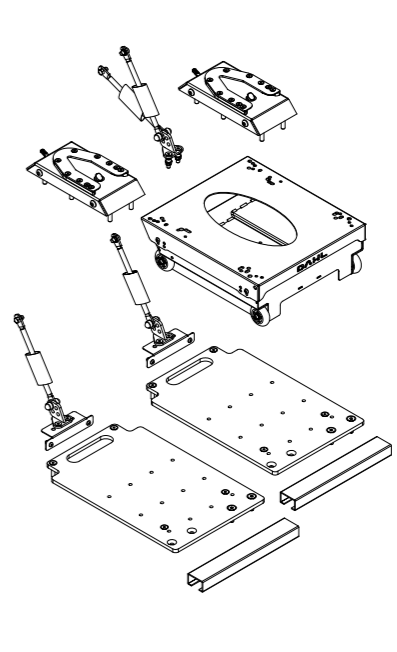



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MB Sprinter 906 & 907 VW Crafter (2006-2016)

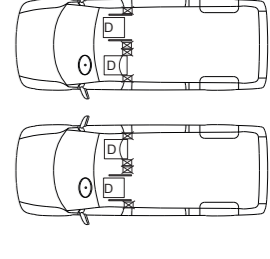
**FMVSS/CMVSS  
207/210**

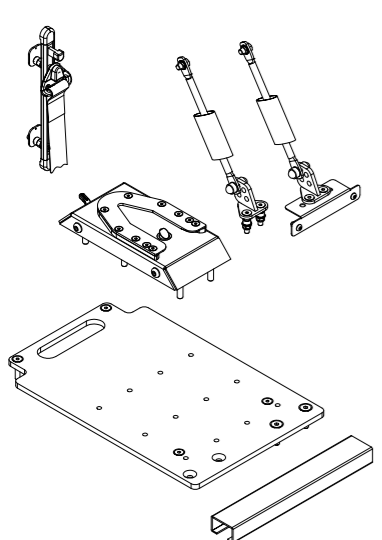



<b>Part no. 502040</b>
VW T5 & T6

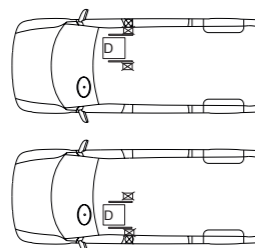
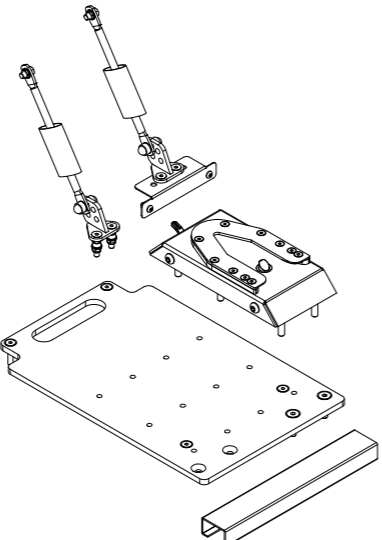



<b>Part no. 502041</b>
Renault Master X62 Opel Movano X62 Nissan NV400

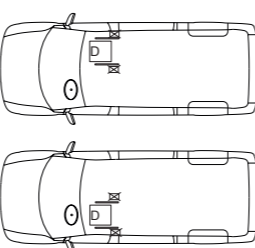
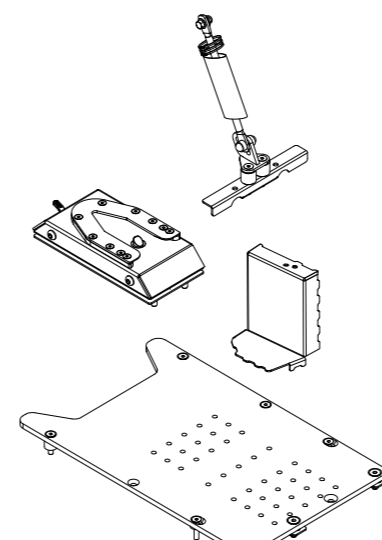




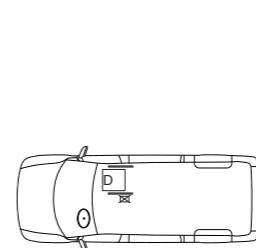
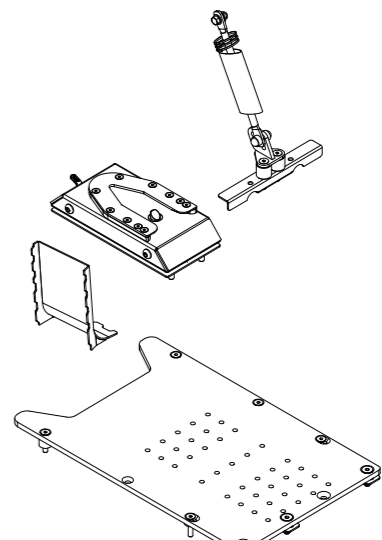
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 Renault Master X62  
 Opel Movano X62  
 Nissan NV400

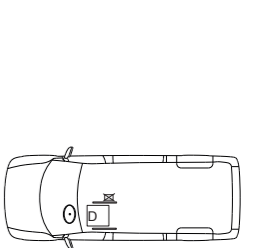
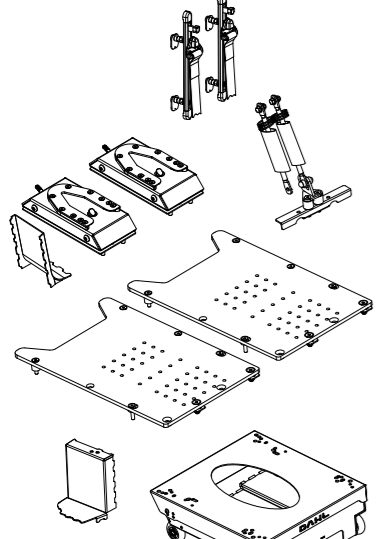
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 Renault Master X62  
 Opel Movano X62  
 Nissan NV400

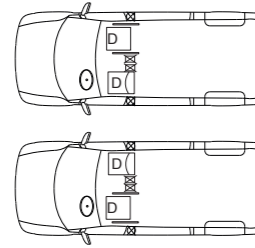
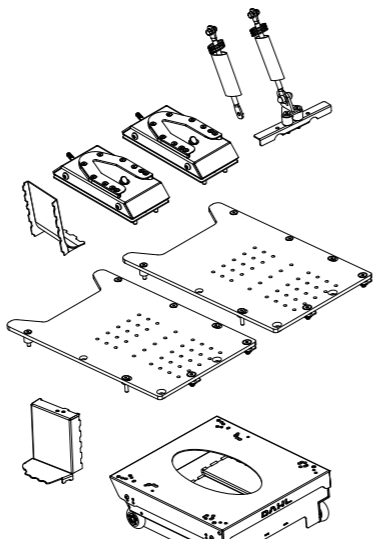
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 MB Vito & V-Class W447

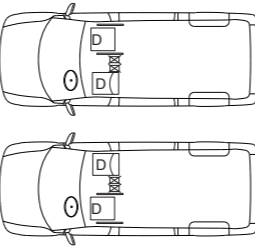
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 MB Vito & V-Class W447

**Part no. 502163**  
 MB Vito & V-Class W447

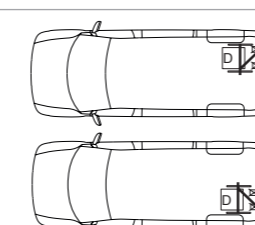



**Part no. 502164**  
 MB Vito & V-Class W447



**Part no. 502171**

Fiat Talento 2016-
Man TGE 2017-
MB Sprinter 906 & 907 & 910
Mitsubishi Express (AU+NZ)
Nissan NV300
Nissan Primastar
Opel Vivaro X83 & X82
Renault Traffic X83 & X82
VW Crafter -2016
VW Crafter 2017-



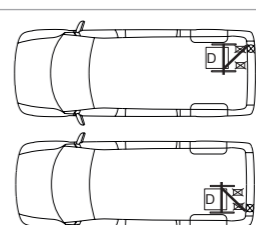
**Part no. 502171**

Citroën Jumper Y
Citroën Jumpy X
Fiat Ducato X250
Fiat Scudo X270
Fiat Talento 2016-
Ford Transit Custom V362
MB Vito W639 & W447
Mitsubishi Express (AU+NZ)
Nissan NV300
Nissan Primastar
Opel Vivaro X83 & X82
Peugeot Boxer Y
Peugeot Expert X
Renault Trafic X83 & X82
Toyota Proace
VW T5 & T6



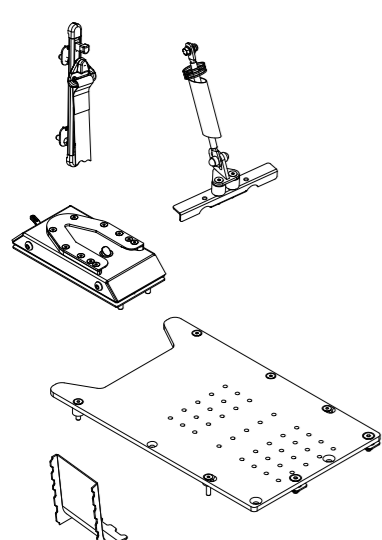
**Part no. 502172**

Fiat Talento 2016-
Man TGE 2017-
MB Sprinter 906 & 907 & 910
Mitsubishi Express (AU+NZ)
Nissan NV300
Nissan Primastar
Opel Vivaro X83 & X82
Renault Traffic X83 & X82
VW Crafter -2016
VW Crafter 2017-


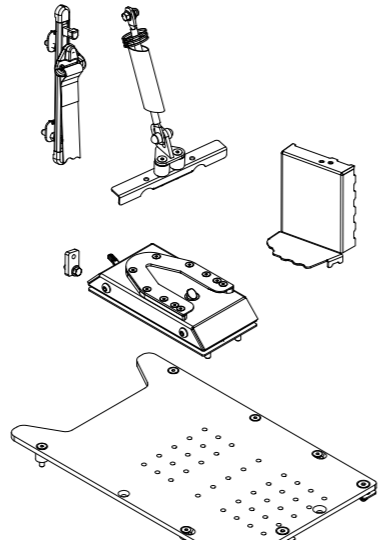


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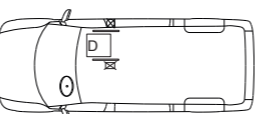
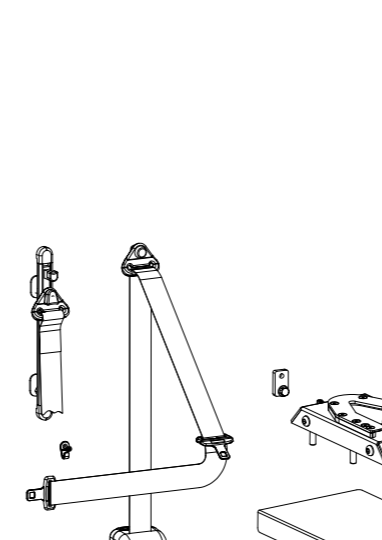
Citroën Jumper Y
Citroën Jumpy X
Fiat Ducato X250
Fiat Scudo X270
Fiat Talento
Ford Transit Custom V362
MB Vito W639 & W447
Mitsubishi Express (AU+NZ)
Nissan NV300
Nissan Primastar
Opel Vivaro X83 & X82
Peugeot Boxer Y
Peugeot Expert X
Renault Trafic X83 & X82
Toyota Proace
VW T5 & T6

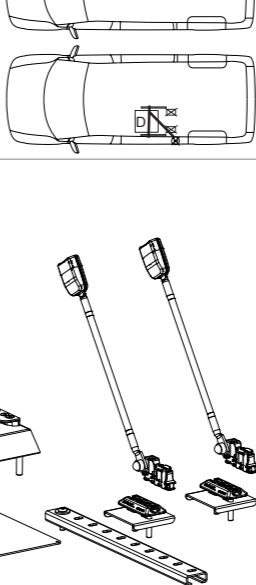
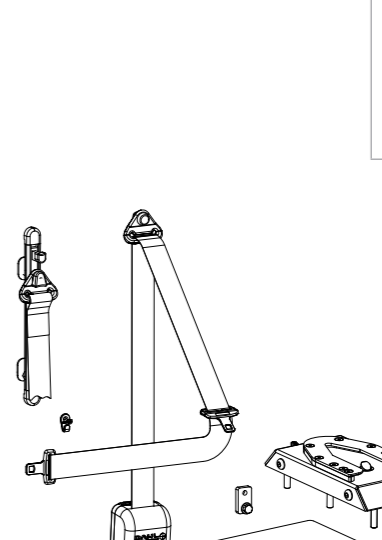
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 MB Vito & V-Class W447


**Part no. 502166**  
 MB Vito & V-Class W447

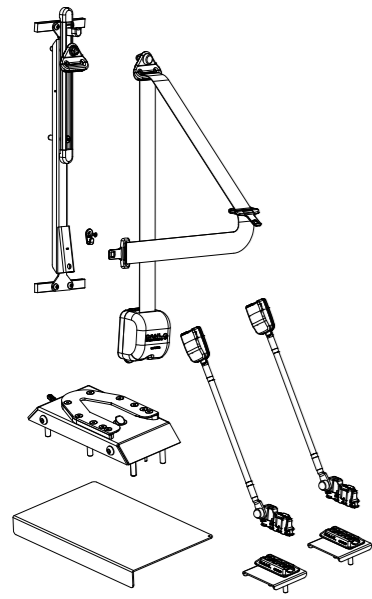



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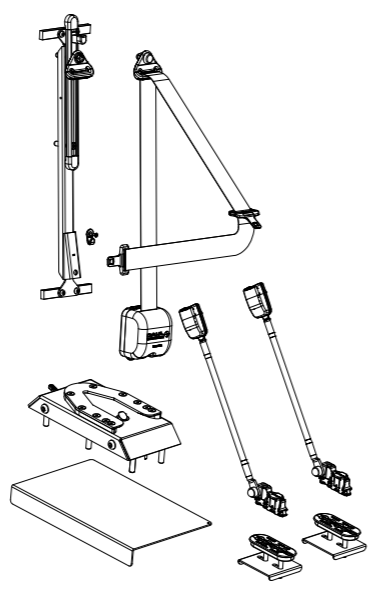
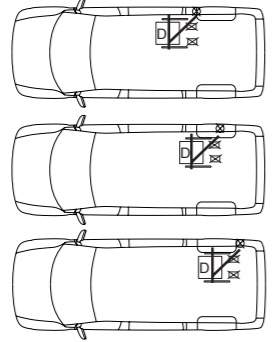



**Part no. 502172**

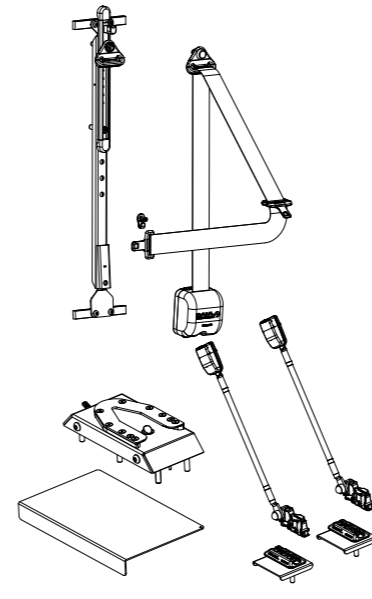
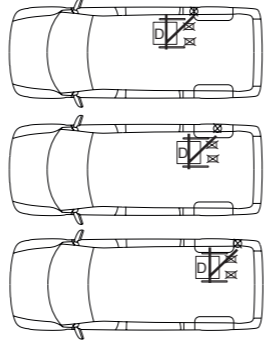




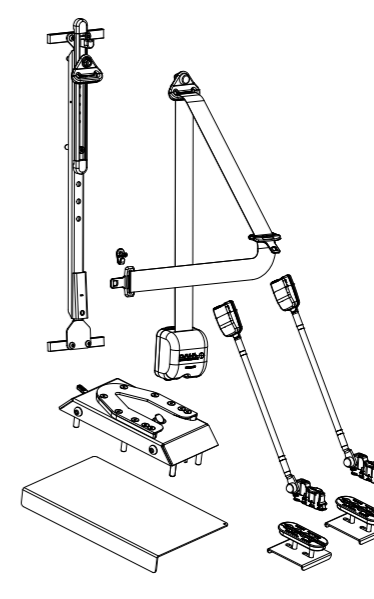
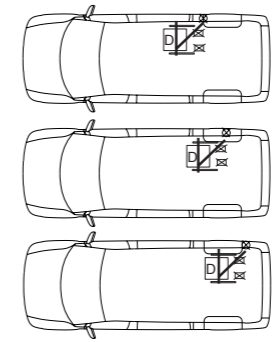
**Part no. 502173**  
VW T5 & T6



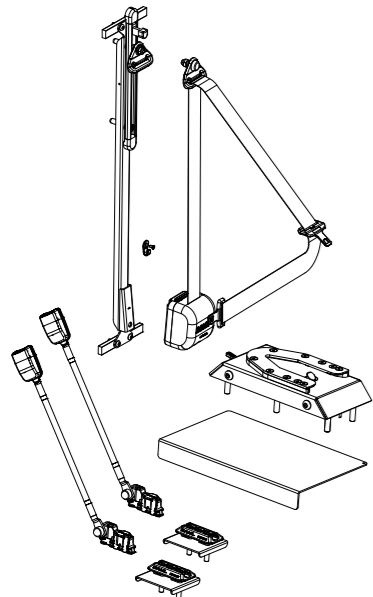
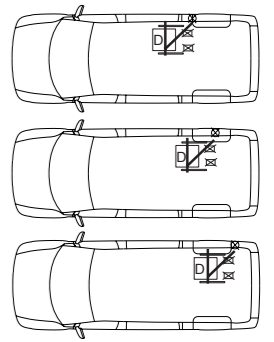
**Part no. 502174**  
VW T5 & T6



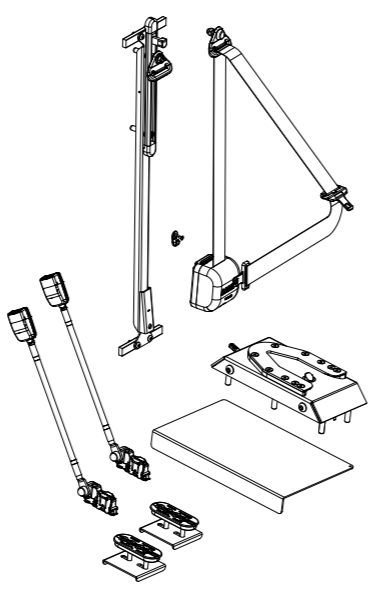
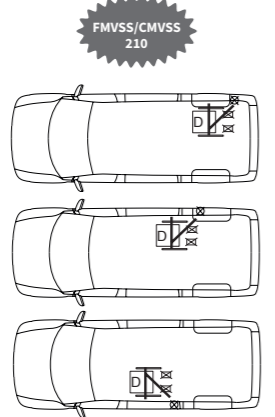
**Part no. 502179**  
Citroën Jumper Y  
Fiat Ducato X250  
Peugeot Boxer Y



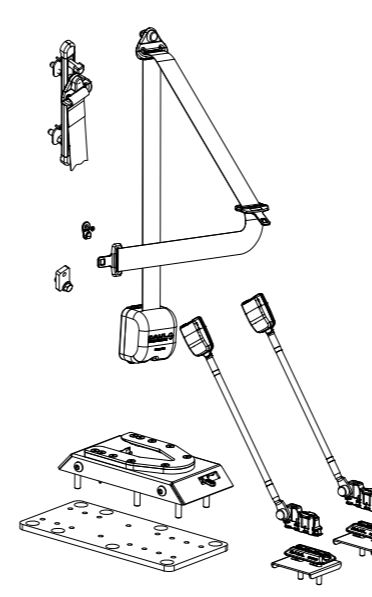
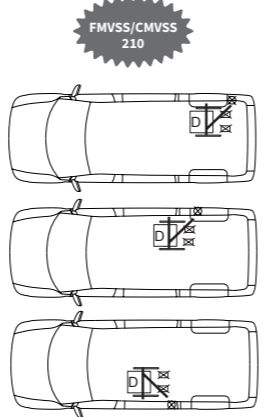
**Part no. 502180**  
Citroën Jumper Y  
Fiat Ducato X250  
Peugeot Boxer Y



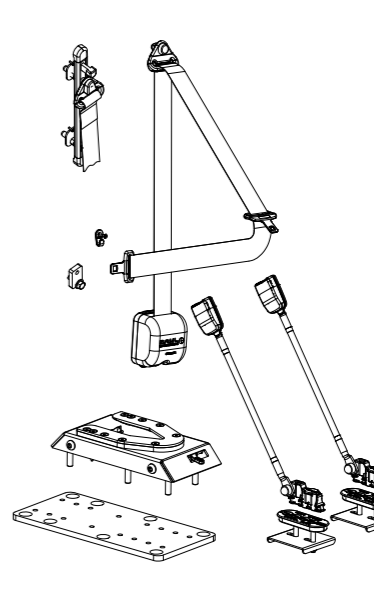
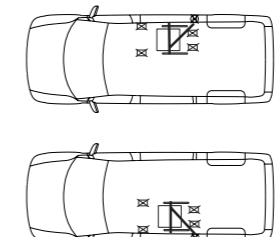
**Part no. 502175**  
MB Sprinter  
906 & 907 & 910  
VW Crafter (2006-2016)



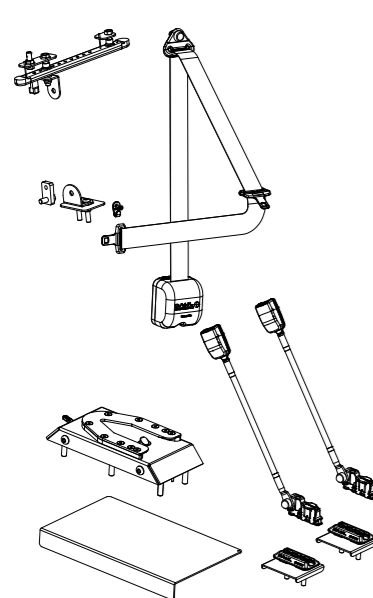
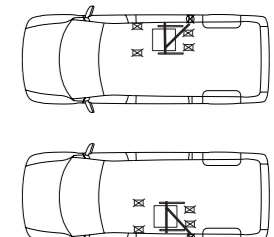
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MB Sprinter  
906 & 907 & 910  
VW Crafter (2006-2016)



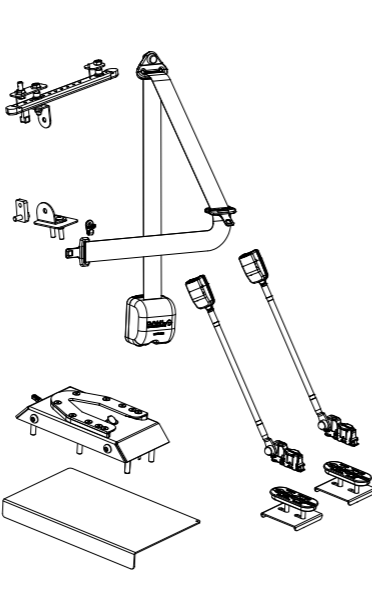
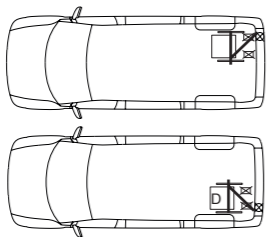
**Part no. 502181**  
Nissan NV 400  
Opel Movano X62  
Renault Master X62



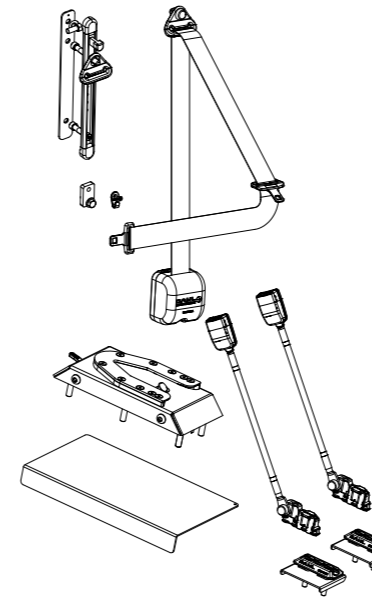
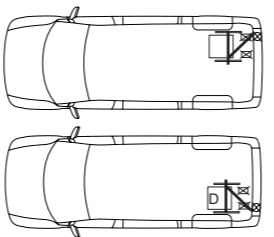
**Part no. 502182**  
Nissan NV 400  
Opel Movano X62  
Renault Master X62



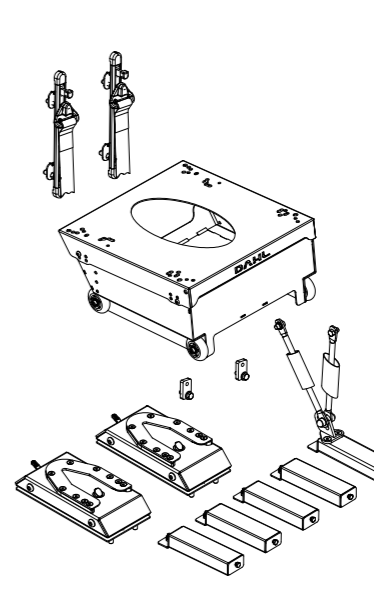
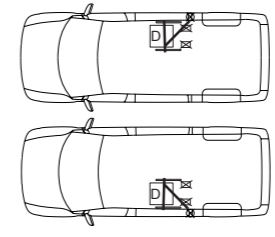
**Part no. 502177**  
Citroën Jumpy X  
Fiat Scudo X270  
Ford Transit Custom V362  
MB Vito & V-Class W447  
Peugeot Expert X  
Toyota ProAce  
VW T5 & T6



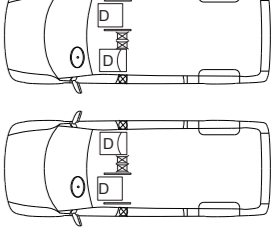
**Part no. 502178**  
Citroën Jumpy X  
Fiat Scudo X270  
Ford Transit Custom V362  
MB Vito & V-Class W447  
Peugeot Expert X  
Toyota ProAce  
VW T5 & T6

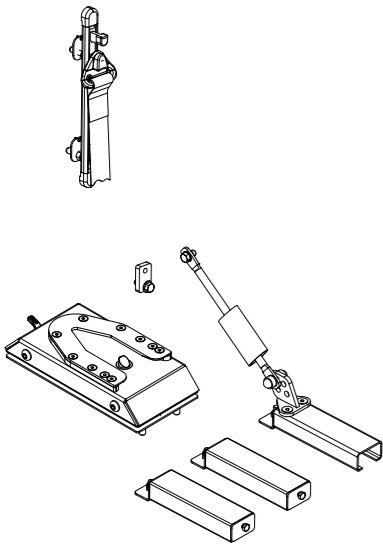


**Part no. 502194**  
Ford Transit V363

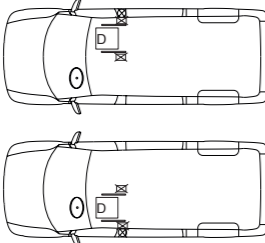
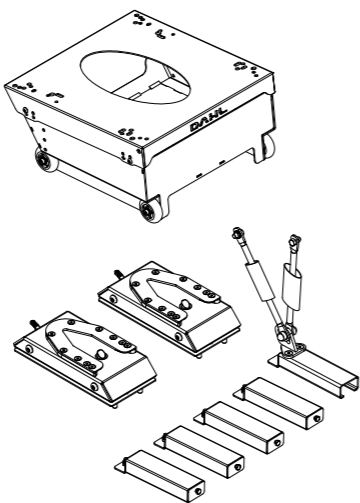


**Part no. 502285**  
GM Coachwork  
Drop floor conversion:  
VW Caravelle SE Colorado

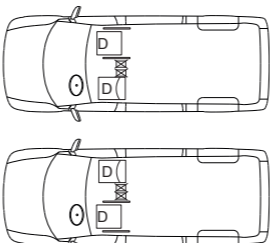
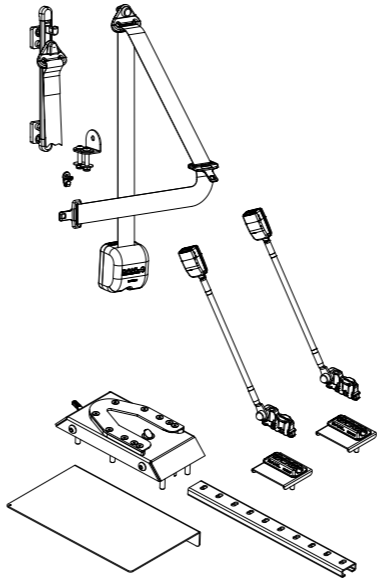




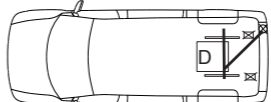
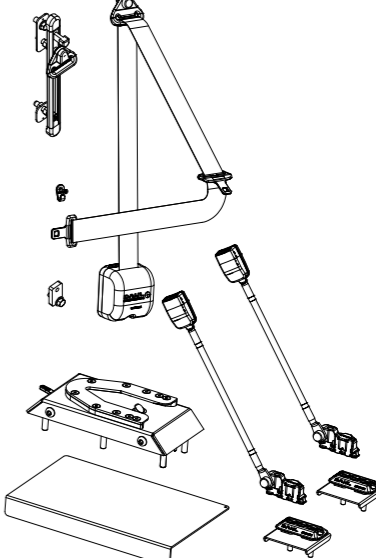
**Part no. 502286**  
GM Coachwork  
Drop floor conversion:  
VW Caravelle SE Colorado

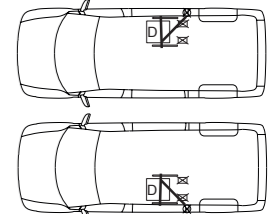
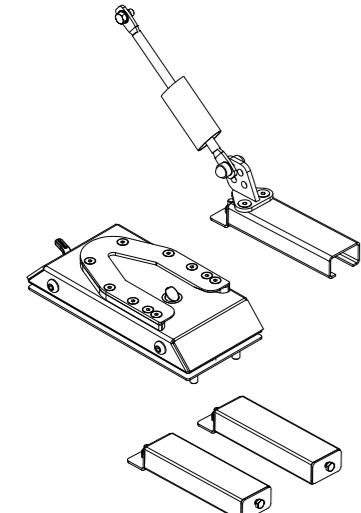
**Part no. 502287**  
GM Coachwork  
Drop floor conversion:  
VW Caravelle SE Colorado

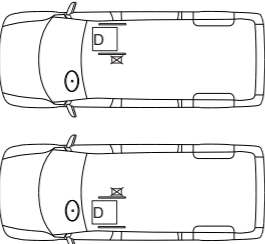
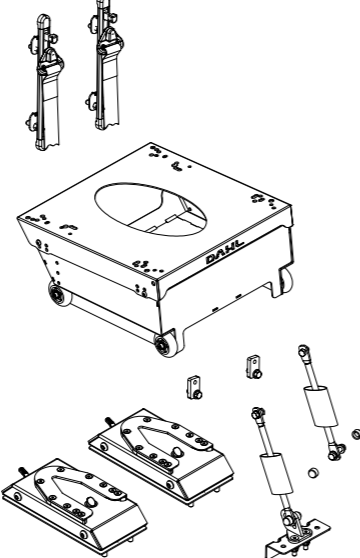
**Part no. 503121**  
Fiat Doblo  
High roof SWB & LWB  
Opel Combo  
High roof SWB & LWB

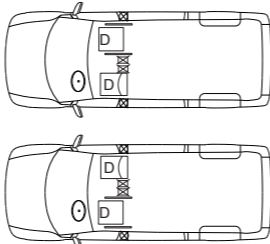
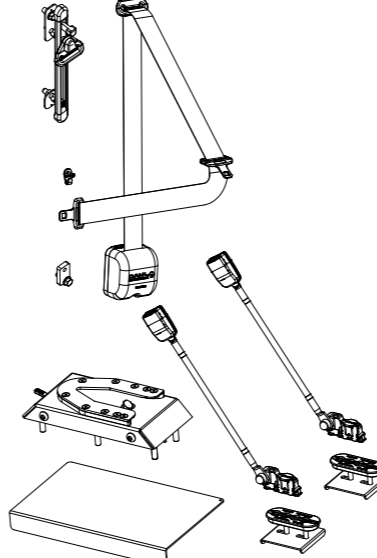
**Part no. 503142**  
VW Crafter 2017-  
MAN TGE 2017-

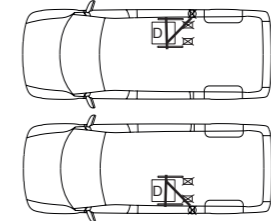
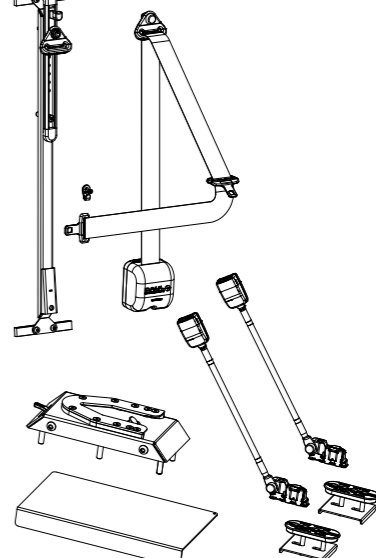
**Part no. 502288**  
GM Coachwork  
Drop floor conversion:  
VW Caravelle SE Colorado

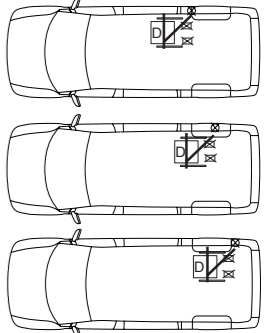
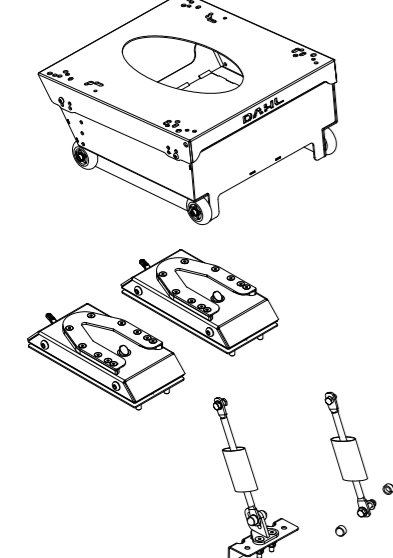
**Part no. 502368**  
Zawatzky Drop Floor  
Conversion:  
VW Centervan T6

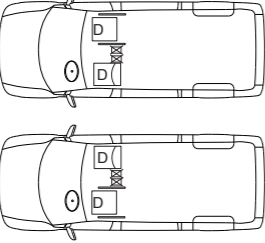
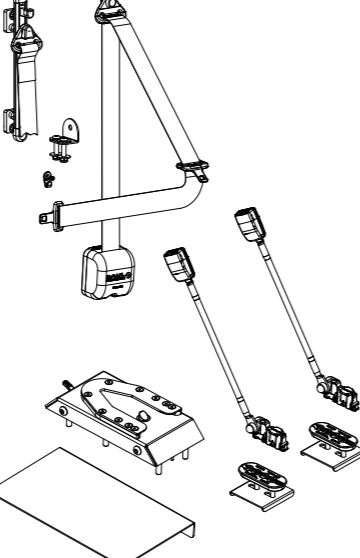
**Part no. 503143**  
VW Crafter 2017-  
MAN TGE 2017-

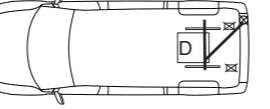
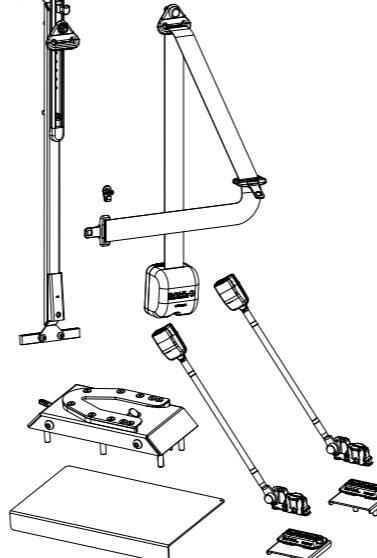
**Part no. 503144**  
VW Crafter 2017-  
MAN TGE 2017-

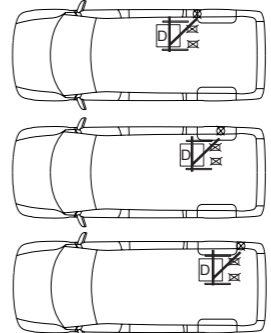
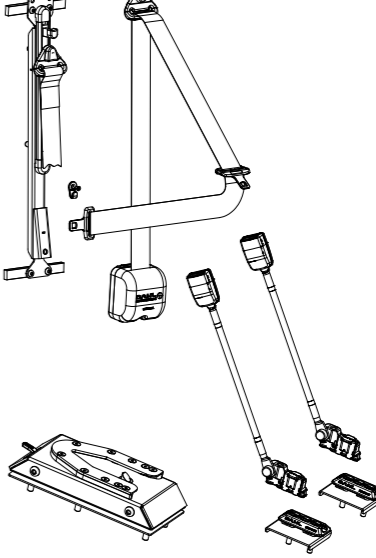
**Part no. 502369**  
Zawatzky Drop Floor  
Conversion:  
VW Centervan T6

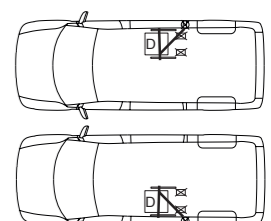
**Part no. 503120**  
Fiat Doblo  
High roof SWB & LWB  
Opel Combo  
High roof SWB & LWB

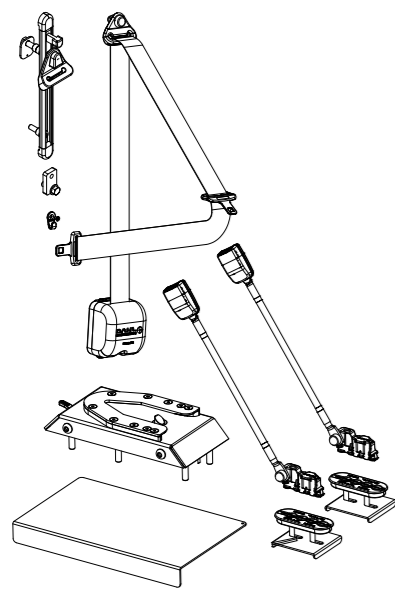



**Part no. 503145**  
VW Crafter 2017-  
MAN TGE 2017-

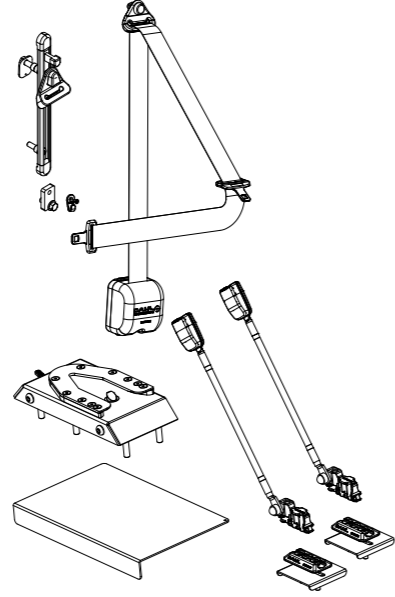
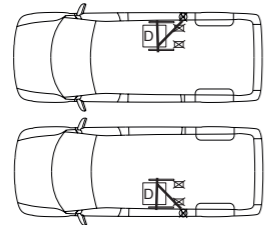



**Part no. 503197**  
Nissan NV 200

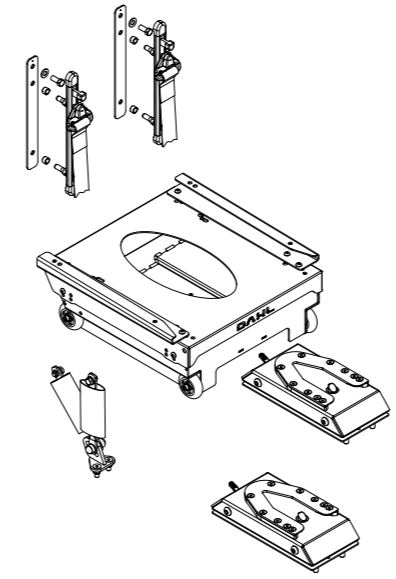
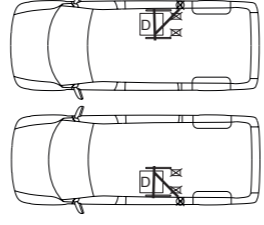




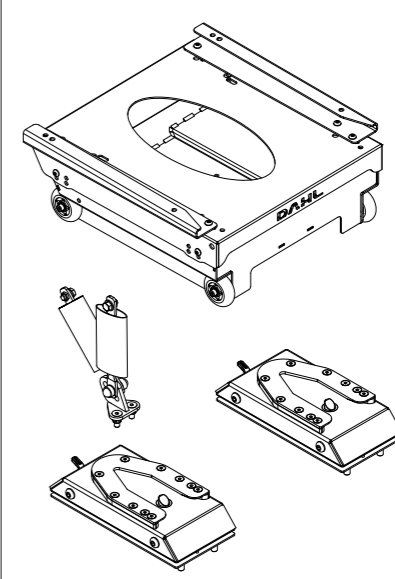
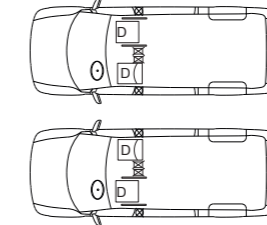
**Part no. 503301**  
 Citroën Jumpy & Spacetourer KO  
 Opel Zafira Life  
 Peugeot Expert & Traveller KO  
 Toyota Proace & Proace Verso 2016-



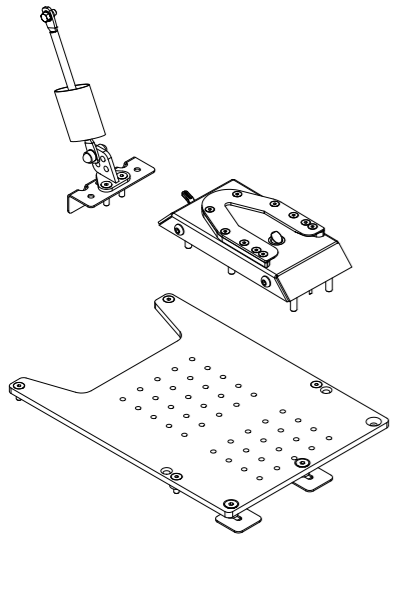
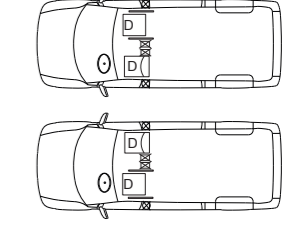
**Part no. 503302**  
 Citroën Jumpy & Spacetourer KO  
 Opel Zafira Life  
 Peugeot Expert & Traveller KO  
 Toyota Proace & Proace Verso 2016-



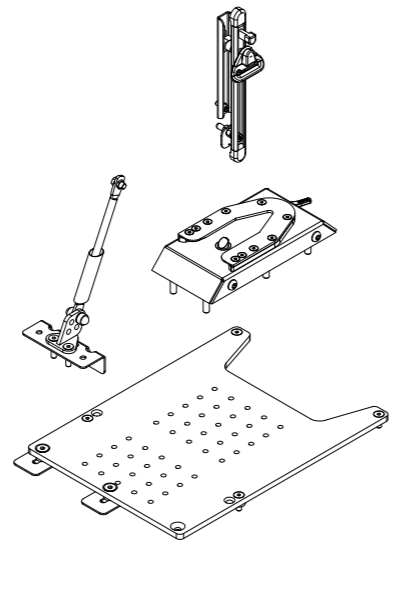
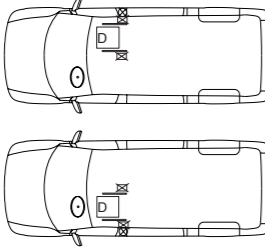
**Part no. 503255**  
 ITEK Drop Floor  
 Conversion:  
 VW Caddy Active



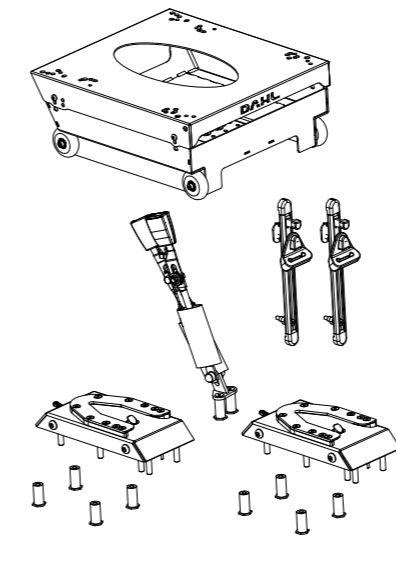
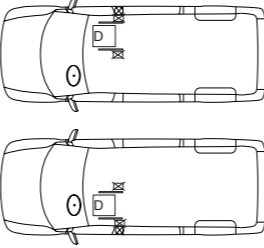
**Part no. 503310**  
 ITEK Drop Floor  
 Conversion:  
 VW Caddy Active



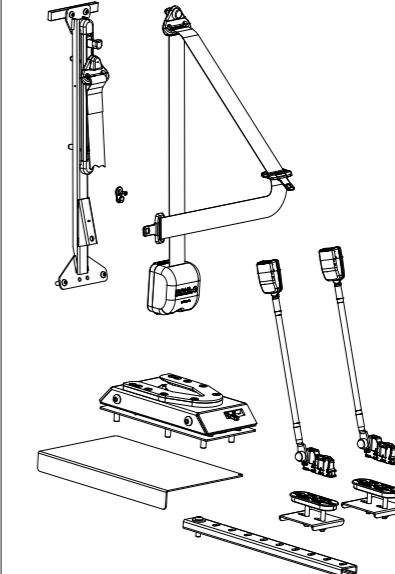
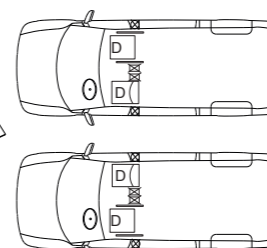
**Part no. 503303**  
 Citroën Jumpy & Spacetourer KO  
 Opel Zafira Life  
 Peugeot Expert & Traveller KO  
 Toyota Proace & Proace Verso 2016-



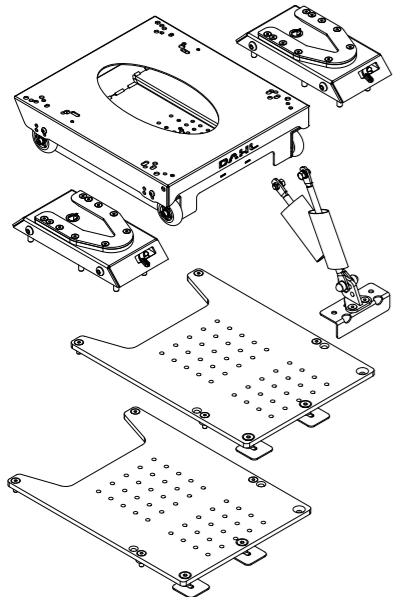
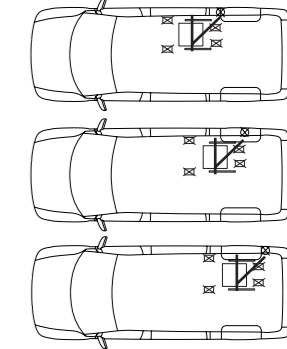
**Part no. 503304**  
 Citroën Jumpy & Spacetourer KO  
 Opel Zafira Life  
 Peugeot Expert & Traveller KO  
 Toyota Proace & Proace Verso 2016-



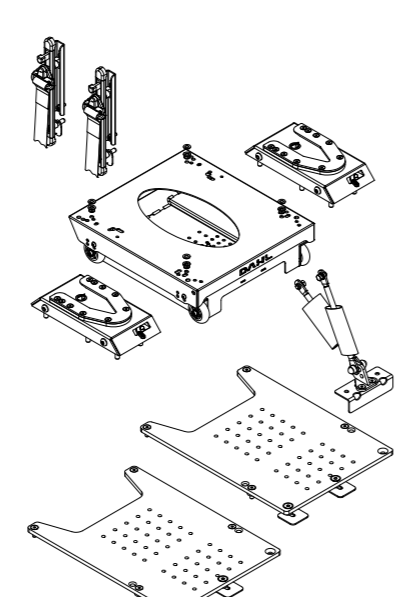
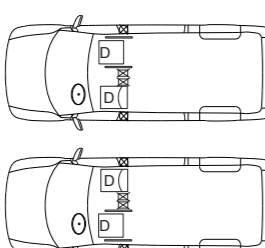
**Part no. 503461**  
 Tripod/Allied Drop Floor  
 Conversion:  
 Citroën Berlingo  
 Peugeot Partner



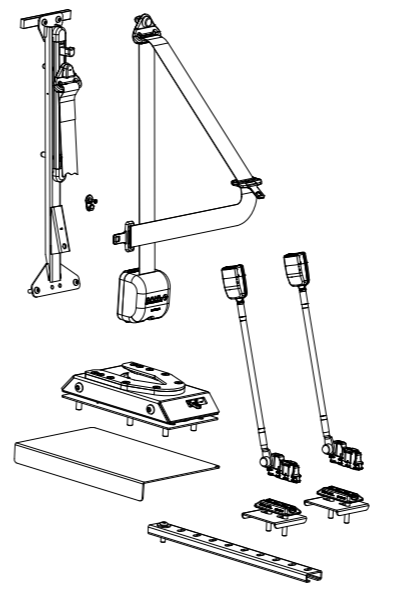
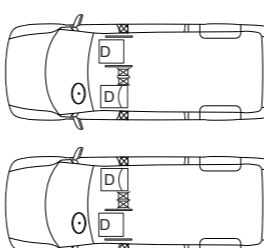
**Part no. 503006**  
 MB Vito  
 MB V-Class W447



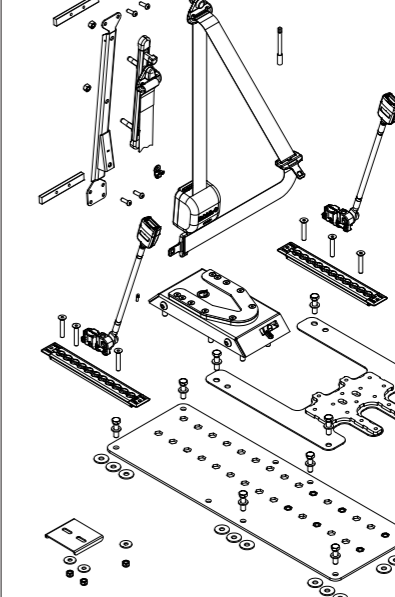
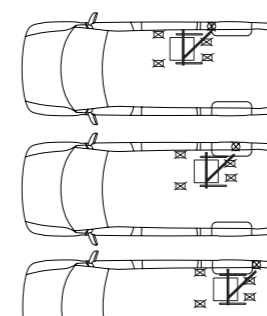
**Part no. 503305**  
 Citroën Jumpy & Spacetourer KO  
 Opel Zafira Life  
 Peugeot Expert & Traveller KO  
 Toyota Proace & Proace Verso 2016-



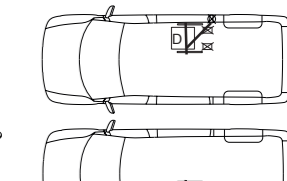
**Part no. 503306**  
 Citroën Jumpy & Spacetourer KO  
 Opel Zafira Life  
 Peugeot Expert & Traveller KO  
 Toyota Proace & Proace Verso 2016-



**Part no. 503008**  
 MB Vito  
 MB V-Class W447

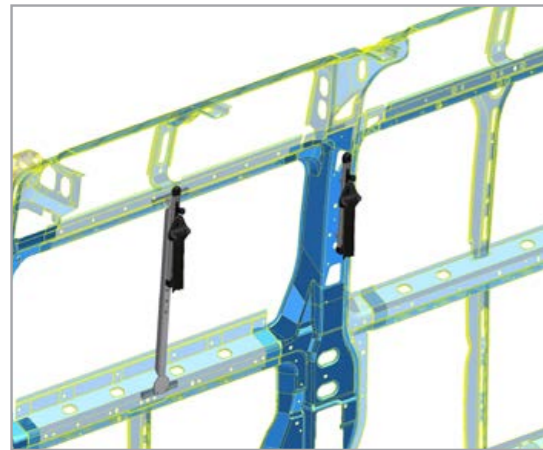


**Part no. 500221**  
 Ford Transit Custom V710  
 VW New Transporter / Caravelle 2025-









## Tool for installing seat belt anchorage kits

When installing a special seat, or adapting a vehicle to accommodate a wheelchair user, it is often very difficult or impossible to mount the seat belts to tested and approved anchorage points, when the vehicle's original seat has been removed.

The reason is that original seats of today are often equipped with integrated seat belts, and once the original seats have been taken out of the vehicle, one or all of the tested seat belt anchorage points have disappeared with the removed seats.

Therefore we have developed and tested retrofittable seat belt anchorage kits consisting of a height adjuster for the shoulder belt and vehicle specific reinforcing brackets that can be placed inside the vehicles side and under the floor.

These kits can for example be used to anchor the buckle for the vehicles original safety belt or in conjunction with one of our certified 3 point occupant restraints for wheelchair users.



Special tool for installation, with 7/16" UNF thread



Part no. 503510



Part no. 503511

Special tool for installation, M8 thread

## Examples of tested vehicle models with our Dahl Docking Systems



Mercedes Sprinter, VW Crafter



Ford Transit Custom



Mercedes Vito/Viano



VW T5



Opel Vivaro / Renault Trafic



Ford Transit



Nissan NV400, Opel Movano, Renault Master



VW Caddy



Peugeot Partner / Citroën Berlingo



Fiat Ducato / Peugeot Boxer / Citroën Jumper



Citroën Jumpy / Peugeot Expert / Fiat Scudo



Before being put into production, development work has resulted in the performance of more than 130 tests on the product in our own test laboratory in Thisted and at laboratories abroad.

In addition to the ECE 44/04 standards, the seat also satisfies the ECE's strict M1 requirements for passenger cars and M2 for minibuses in accordance with ECE 14, 16 and 17.

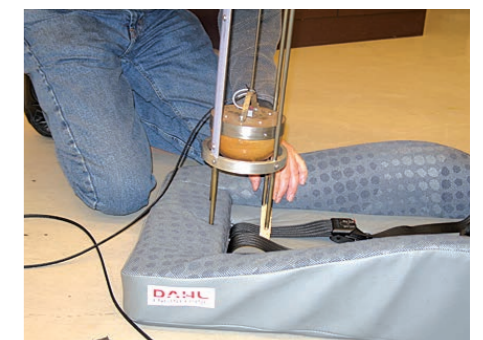
Our HYBRID and COMFORT Seats are tested according to ECE 14 in the following vehicle models:

Citroën Jumpy Y  
Fiat Ducato X250  
Ford Transit Custom V362  
MAN TGE

Mercedes Sprinter  
906,907&910  
Mercedes Vito 447  
Nissan NV400  
Opel Movano X62

Peugeot Boxer Y  
Renault Master X62  
VW Crafter 2006-2016  
VW Crafter 2017-  
VW T5 & T6

We have also tested our HYBRID and COMFORT Seats according to FMVSS 207/210, and CMVSS 207/210 in Mercedes Sprinter 907 and 910.

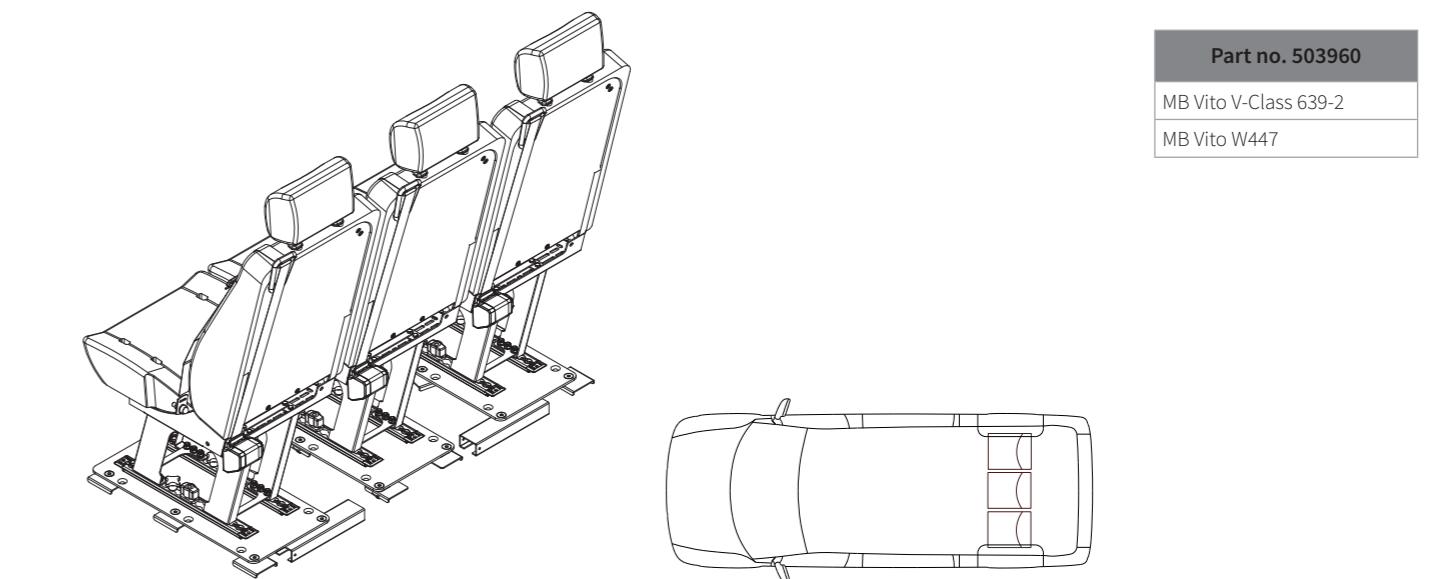
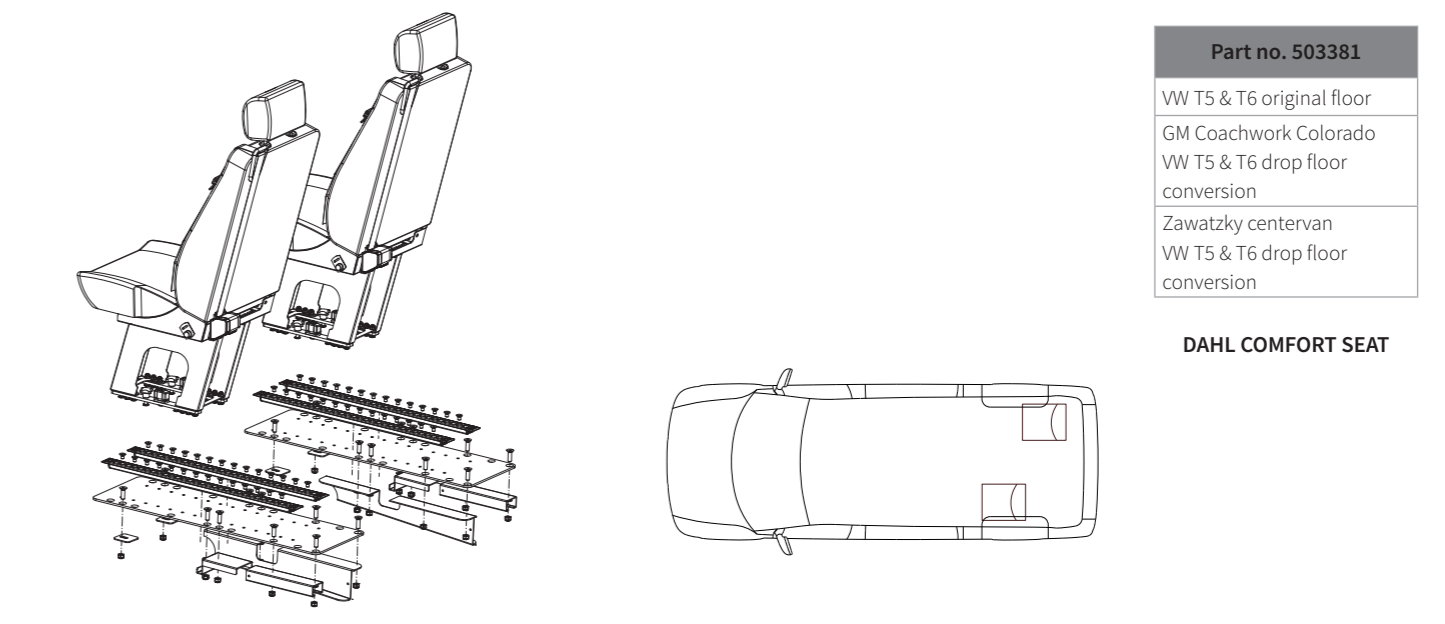
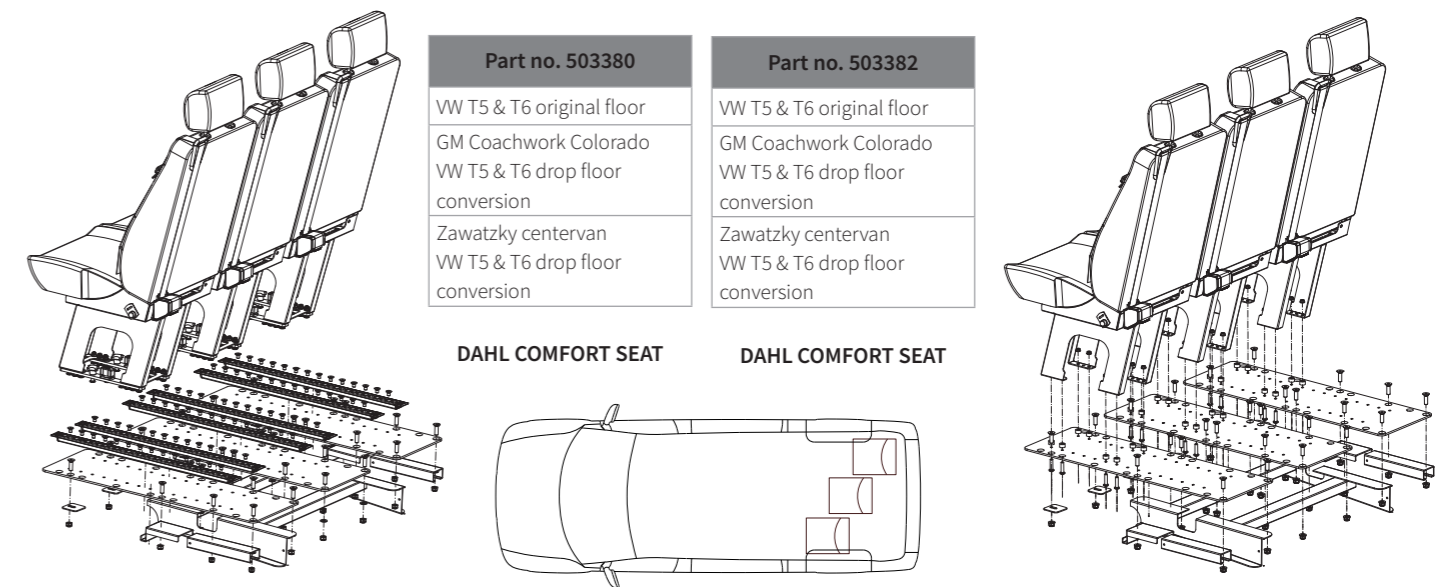




COMFORT SEAT™ is the only seat on the market for minibuses with a built-in 3-point seatbelt and designed with extra lateral support and upholstery springs in both the seat cushion and back.

COMFORT SEAT™ thus has the same level of comfort as passenger car seats. Normally the seat and back in minibuses are upholstered on metal or plywood sheets.

COMFORT SEAT™ can be supplied with adjustable armrests and slide rails.





**Dahl HYBRID Seat is ONLY available as a project sale – contact us to inquire further.**



DAHL HYBRID SEAT™ is based on an ultra-compact design that allows for the integration of a child seat into an adult seat. It meets the EU's strictest standards for seats in passenger cars (M1) as well as ECE Regulation 44/04 for child seats in groups 1, 2, and 3\*. This means that the DAHL HYBRID SEAT™ can be used by children from 9 months of age. The seat includes a built-in 3-point seatbelt for older children and adults, as well as a 5-point harness for the youngest passengers.

## Patented multifunctional seat with integrated child safety seat – 4 in one

The HYBRID SEAT™ can replace loose child safety seats in minibuses, addressing three practical issues: safety, space, and time consumption. In just 3 seconds, the HYBRID SEAT™ can be transformed from a child safety seat into an adult seat and vice versa.

### Dahl HYBRID SEAT saves time and saves lives

With the DAHL HYBRID SEAT™ installed in a minibus, the owner can offer safe and flexible transport for schools, kindergartens, nursing homes, and institutions in any order, without spending time retrieving and installing child safety seats.

Dahl Engineering is the first and only company on the market with ECE 44/04-approved seats that are both removable and adjustable, featuring integrated child safety seats for all seating positions in a minibus. The seat fits a newly developed, robust rail system that can be installed in the minibus, allowing the seat to be moved around or completely removed to make space for a wheelchair, for example.

\* ECE 44/04 group classification of children:  
Group 1: 9-18 kg / Group 2: 15-25 kg / Group 3: 22-36 kg

## Example of using a 5-point harness



Children in Groups 1 and 2 are secured with the built-in 5-point harness.

Legs for fixed installation of Dahl Seats

Part no.	Height
501560	270 mm
501561	300 mm
501562	325 mm
501563	350 mm



Legs for rail installation of Dahl Seats

Part no.	Height
501564	270 mm
501565	300 mm
501566	325 mm
501567	350 mm



Please enquire, which leg heights are approved for the specific vehicle model.

**Be careful:**  
Due to rail installation, the overall height is 10mm higher.

Part no. 502162

Dahl HEAVY DUTY floor rail, flush mount, 3230 mm

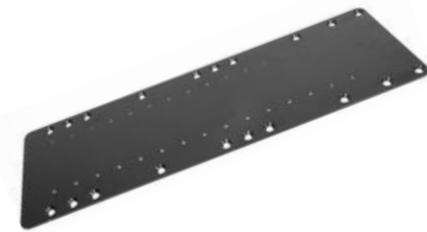


Part no. 500777

Dahl HEAVY DUTY floor rail, 3230 mm



Seat anchorage plates



Part no. 502228

End cap for Dahl HEAVY DUTY floor rail (flush mount) part no. 502162



Part no. 500780

End cap for Dahl HEAVY DUTY floor rail part no. 500777



Part no. 500093

620 mm

Part no. 500083

747 mm

Part no. 500089

935 mm

Part no. 500090

1497 mm

Part no. 500110

1995 mm

Part no. 500092

2495 mm

Part no. 500109

2995 mm

Part no. 500911

Reinforcement profile, 2495mm



Part no. 502138

Reinforcement profile, 2487 mm



Part no. 501325

Dahl Lockable rail fitting for Dahl heavy duty floor rail



Part no. 500602

Cover for COMFORT Seat, ask for available models



Part no. 500076

Adjustable armrest - right



Part no. 503545

Seat base for anchoring Dahl COMFORT Seat with VarioDock™, from seat row 2 and behind

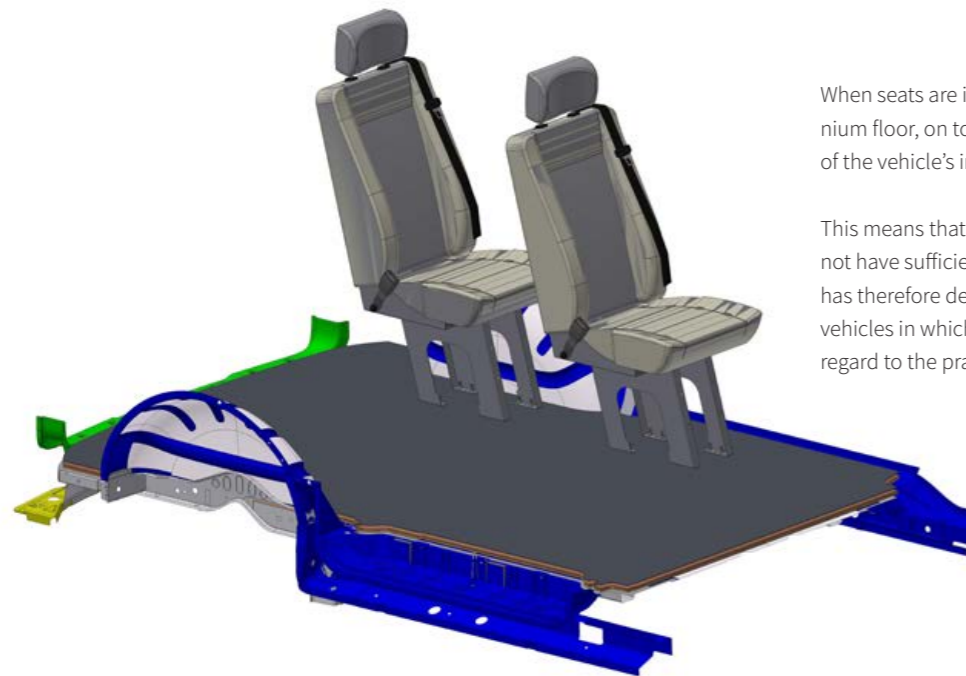


Part no. 500077

Adjustable armrest - left

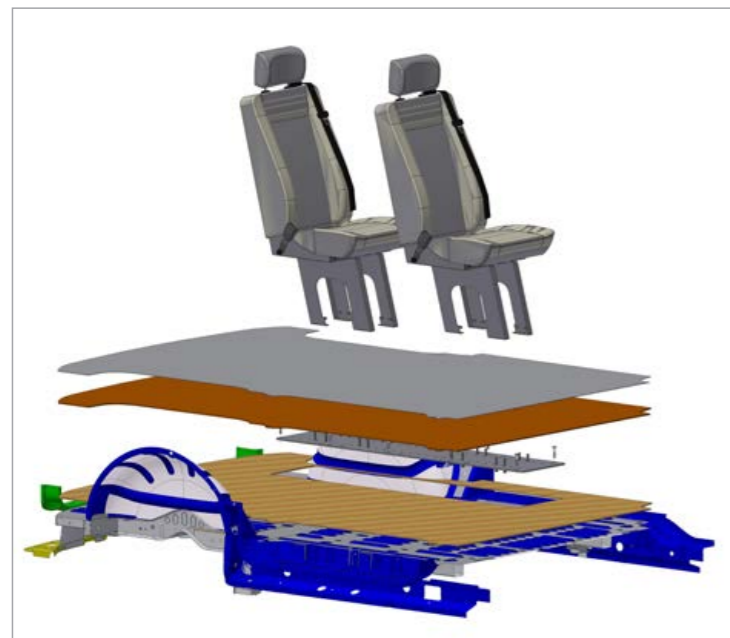


# Dahl Low Floor System



When seats are installed in the traditional manner, with an aluminium floor, on top of the floor of the vehicle, approximately 4 cm of the vehicle's internal clearance height will be lost.

This means that passengers – in particular wheelchair users – may not have sufficient headroom in some vehicles. Dahl Engineering has therefore developed a new system for anchoring seats in vehicles in which the ceiling height, in particular, is important with regard to the practicality of the vehicle.

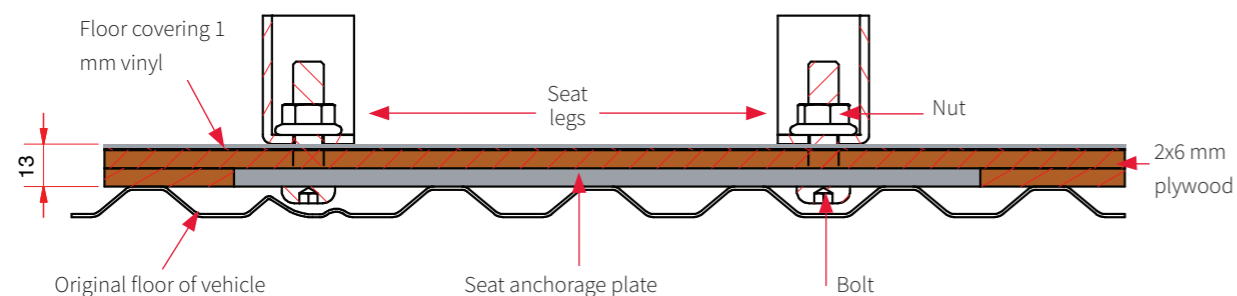


The Low Floor System is illustrated with a VW Transporter/Caravelle T5 and T6 vehicle floor, but the system is also available for vehicles. Kits for more vehicles are under development/testing.

The extremely simple installation principle is based on the seats being bolted to seat anchorage plates made from high tensile steel, which are in turn secured to the vehicle by means of specially adapted reinforcement components under the vehicle floor.

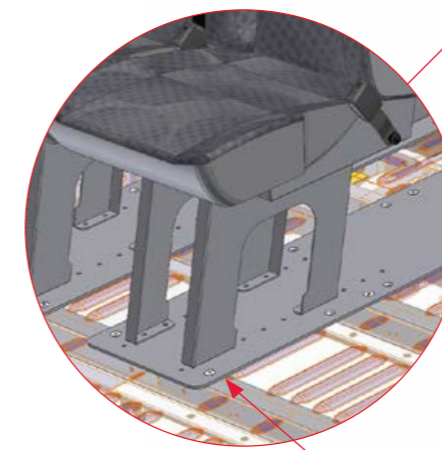
The seat anchorage plates are countersunk in a thin plywood sheet in a pre-cut hole. Another plywood sheet is placed on top with the floor covering and pre-drilled holes for the bolts onto which the seats are eventually secured.

Attachment of seats onto seat anchorage plate



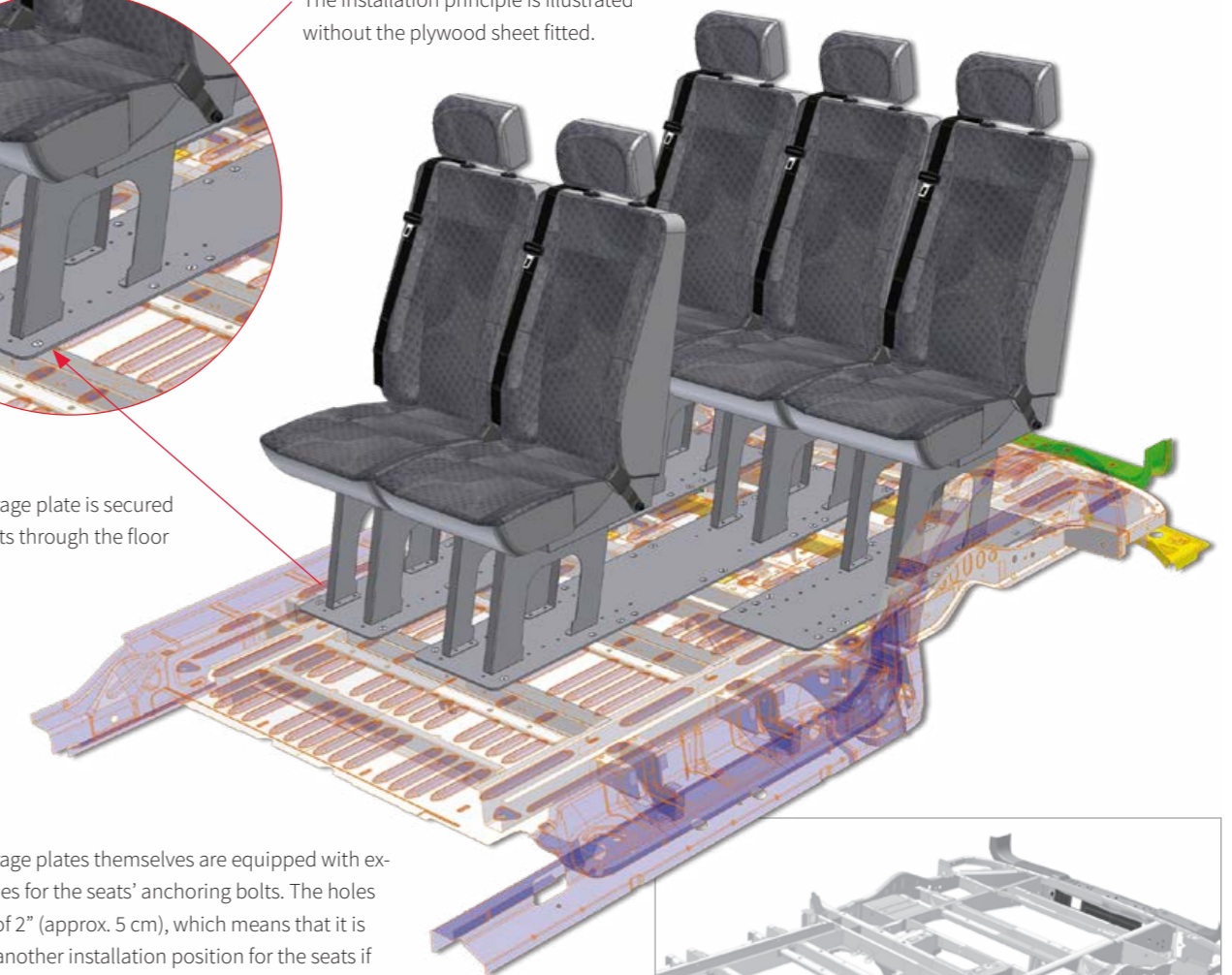
The Dahl Low Floor System can increase headroom by as much as 25-30 mm in relation to traditional aluminium floors that are installed on top of the original floor of the vehicle.

# Dahl Low Floor System

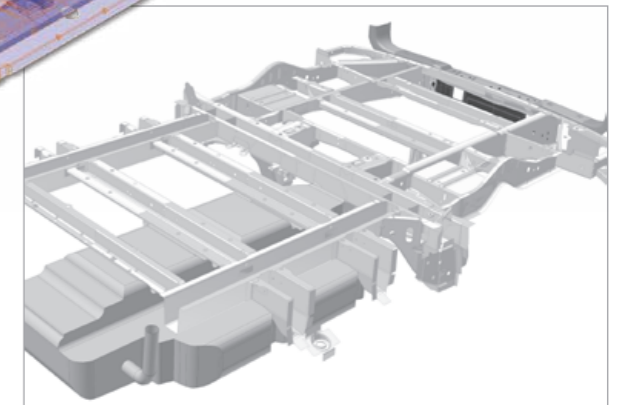


The installation principle is illustrated without the plywood sheet fitted.

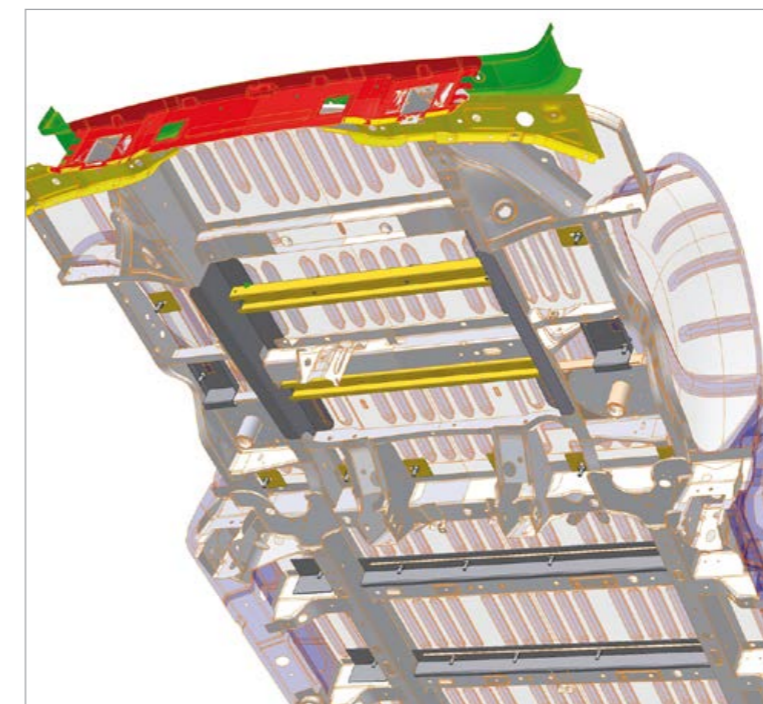
The seat anchorage plate is secured by means of bolts through the floor of the vehicle.



The seat anchorage plates themselves are equipped with extra threaded holes for the seats' anchoring bolts. The holes have a spacing of 2" (approx. 5 cm), which means that it is easy to choose another installation position for the seats if it is discovered that one or more seats should be installed at another spacing to suit the purpose.

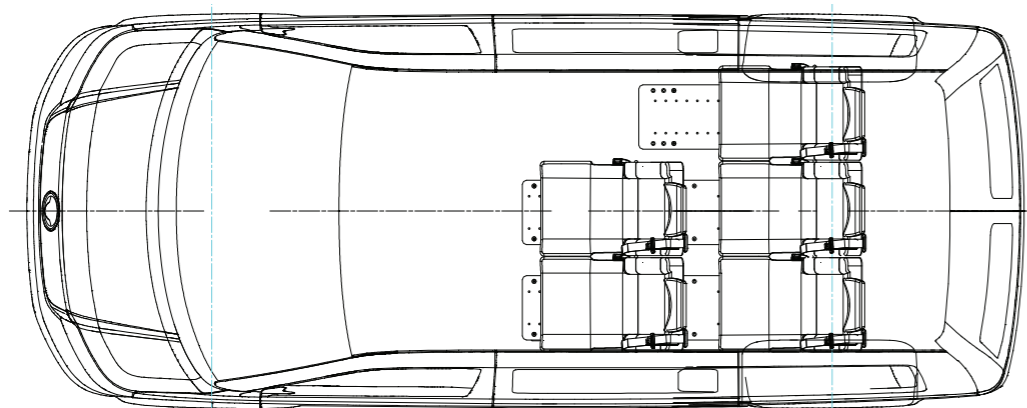


The reinforcement components are adapted to the installation point in question – including installation carried out around the fuel tank.

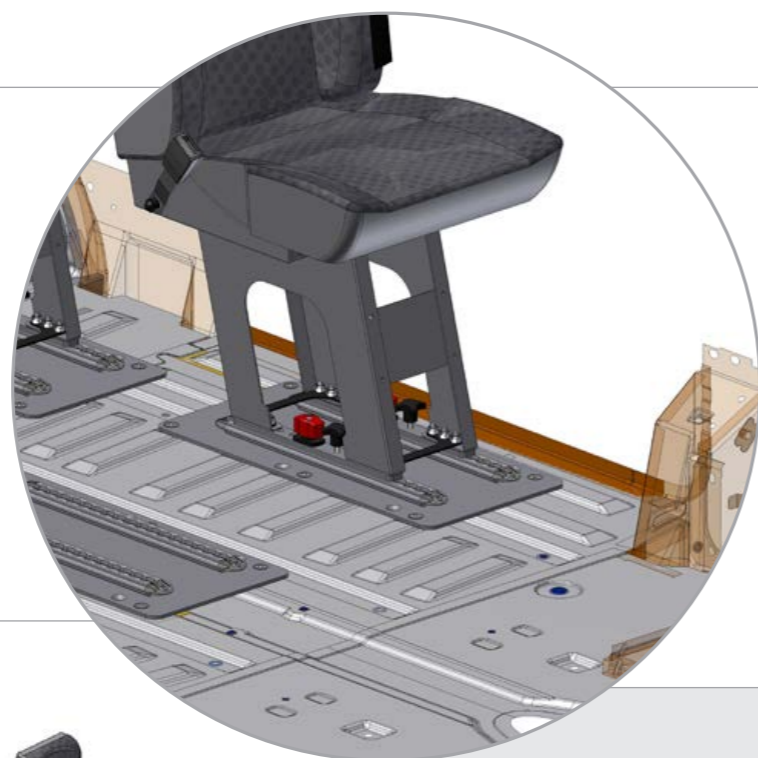


When installing DAHL Low Floor seat anchorage plates, it is possible to work with a drilling template with fixed positions for the holes in the floor of the vehicle. At the same time, it is also possible to choose between different positions for the seats, even though the holes are already drilled in the floor of the vehicle. The installation work thus becomes much more straightforward due to the fact that the amount of time consumed and the risk of mistakes are significantly reduced, for example in connection with the welding of incorrectly drilled holes.

# Dahl Low Floor System

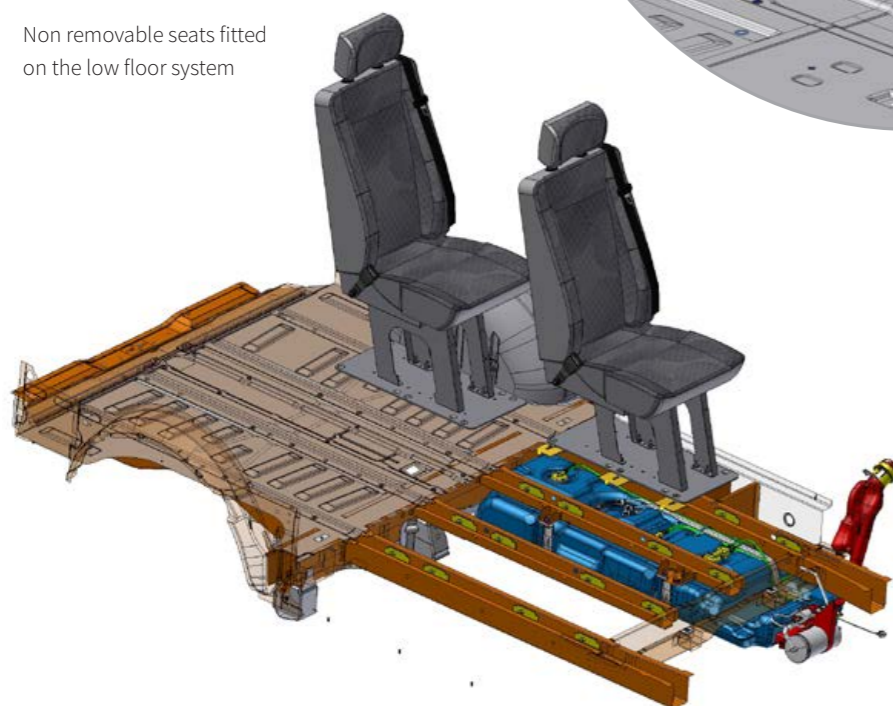


Example of seat configuration in VW Transporter/Caravelle T5 and T6  
- wheelbase 3000 mm



Dahl Heavy duty floor rails fitted on the low floor system, to make seat removable

Non removable seats fitted on the low floor system



TÜV approved fitting kits are currently available for the following vehicles: Citroën Jumper Y, Fiat Ducato X250, Fiat TALENTO, Ford Transit Custom V362, Mercedes Sprinter 906/907/910, Nissan NV300, Nissan NV 400, Opel Movano X62, Opel Vivaro X83/X82, Peugeot Boxer Y, Renault Master X62, Renault Trafic X83/X82, Mercedes Vito W639 & W447, VW Crafter (2006-2016), VW Crafter 2017- VW T5 og T6.

Please enquire for the updated list of tested vehicles, as we continuously test new models.

# 4-point wheelchair and occupant restraint systems

4-point retractable restraint system with automatic 3 point occupant restraint

Our automatic 3 point occupant restraint system makes it much easier and quicker to buckle up the wheelchair user, than when using traditional 3 point occupant restraints.



With the 178 mm height adjuster for the shoulder belt fitted - the occupant restraint can quickly be adjusted to offer maximum safety and comfort for children as well as adults.



The safety belt buckles are fitted on the rear tie down retractors and are brought up to a comfortable height right behind the wheelchair. Therefore the automatic 3 point occupant restraint can be fitted quickly with a minimum of effort.

## EVOLUTION Line - up to 85 kg

EVOLUTION Line is a further development with focus on modern design, durability and light weight without compromising quality or robustness. By using new and better materials, we succeeded in reducing the weight with 27 % in comparison to an equivalent Classic Line retractor, whilst matching or surpassing the Classic Line's quality parameters. This can be especially useful in vehicles, where weight is a very crucial factor.

- The retractor housing is molded in an unbreakable plastic with nice matte finish
- Breaking strength has been tested in temperatures down to -21°C
- Robust handwheel in metal on the side to tighten the straps
- Low weight
- Push-button release



## CLASSIC Line - up to 85 kg

CLASSIC Line is our first generation of tie-down retractors, which is characterized by beautiful design and high quality.

- The retractor housing is molded in metal
- Nice silver metallic surface
- Handwheel on both sides to tighten the straps
- Push-button release

## HEAVY DUTY Line – for wheelchairs up to 200 kg plus user

As electrical wheelchairs mostly weigh much more than the 85 kg, that the present regulations for tie-down equipment prescribe, Dahl Engineering has as the first in the world developed a TÜV approved Heavy Duty tiedown system with vehicle specific installation kits, that live up to and surpass EU regulation 2018/858. These patented kits can be used for wheelchairs with a weight of 200 kg plus user.

- Tie down system with vehicle specific installation kit
- Kits tested in specific car models and mounting positions
- Dynamically crash-tested with 48 km/h as complete kit (retractor, seat belt, floor brackets, height adjusters)
- Newly developed floor brackets
- TÜV reports and documentation for all vehicle specific installation kits available
- Patented

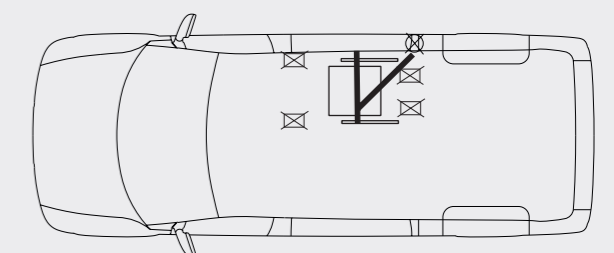


HEAVY DUTY System for wheelchairs up to 200 kg + user

Our tie-down retractors come in different versions. Please see a list of tested vehicles for our 4 point WTORS kits on the following pages.

Systems that can withstand a wheelchair weight of more than our standard sets (85 kg) are marked with the wheelchairs max. weight.

For each kit we inform about tested and approved vehicle models, and a sketch showing the approved mounting positions.



List of vehicles with approved installation kits – 4-point WTORS

Vehicle make	Vehicle model	Shoulder belt anchorage position	Floor mount type	Up to 85 kg - CLASSIC Line	Up to 85 kg - EVOLUTION Line	Up to 200 kg - HEAVY DUTY Line
Citroën	Berlingo Tripod/Allied Floor Conversion	RD			503463	503464
	Jumper Y	C	surface	502057	503170	503135
		C	flush	502058	503171	503488
		W	surface	501945	503483	
		W	flush	501944	502111	
	right side	RD	surface		503736	503604
	right side	RD	flush		503738	503624
	left side	RD	surface		503739	503625
	left side	RD	flush		503737	503605
	Jumpy X	C	surface	502057	503170	
		C	flush	502058	503171	
		W	surface	501949	501057	
		W	flush	501948	501055	
		RD	surface	501771	503293	
		RD	flush	501799	503294	
	Space Tourer/Jumpy KO 2017-	C	surface		503296	503472
		C	flush		503295	503474
		RD	surface	501771	503293	503299
		RD	flush	501799	503294	503300
	Space Tourer/Jumpy KO 2017- Freedom Drop Floor Conversion	C (roof)	surface			
Fiat	Doblo High roof SWB&LWB	D	rail	502311	503312	
		D	rail	502317	501869	
		D	surface		502373	503560
		D	flush		502372	503562
	Ducato X250	C	surface	502057	503170	503135
		C	flush	502058	503171	503488
		W	surface	501945	503483	
		W	flush	501944	502111	
	right side	RD	surface		503736	503604
	right side	RD	flush		503738	503624
	left side	RD	surface		503739	503625
	left side	RD	flush		503737	503605
	Scudo X270	C	surface	502057	503170	
		C	flush	502058	503171	
		W	surface	501949	501057	
		W	flush	501948	501055	
		RD	surface	501771	503293	
		RD	flush	501799	503294	
	Talento	C	surface	502057	503170	503135
		C	flush	502058	503171	503488
	D	surface	502057	503170	503135	
	D	flush	502058	503171	503488	
Ford	Transit Custom V362	C	surface	502057	503170	
		C	flush	502058	503171	
		W	surface	501947	503486	503135
		W	flush	501946	503487	503488
		D	surface	502057	503170	503135
		D	flush	502058	503171	503488
		RD	surface	501771	503293	
		RD	flush	501799	503294	
	Transit V363	C	surface	502056	501054	
		C	flush	502055	501053	
		W	surface	502060	501051	
		W	flush	502059	501050	
		D	surface	502057	503170	
		D	flush	502058	503171	
	Transit Custom V710	W	surface		500248	
		W	flush		500247	
		D	surface		500251	
		D	flush		500252	
		RD	surface		500223	
		RD	flush		500224	
MAN	TGE 2017-	C	surface	503162	503133	503496
		C	flush	503163	503131	503493
		W	surface	503164	503132	503494
		W	flush	503163	503130	503495
		D	surface	502057	503170	503135
		D	flush	502058	503171	503488
		RD	surface		500114	500118
		RD	flush		500115	500119
	Sprinter 906 & 907 & 910	C	surface	502057	503170	503135
		C	flush	502058	503171	503488
	W	surface	501679	503482	500826	
	W	flush	501932	503484	500827	
	D	surface	502057	503170	503135	
	D	flush	502058	503171	503488	
	RD	surface		500114	500118	
	RD	flush		500115	500119	

SYMBOLS: C = c pillar / D = d pillar / W = window / RD / rear door / surface = surface mount / flush = flush mount / rail = floor rail

List of vehicles with approved installation kits – 4-point WTORS

Vehicle make	Vehicle model	Shoulder belt anchorage position	Floor mount type	Up to 85 kg - CLASSIC Line	Up to 85 kg - EVOLUTION Line	Up to 200 kg - HEAVY DUTY Line
Mercedes	Sprinter 906 & 907 High roof, wheel base 3250-3665-4325	W	surface	502063	500726	
		W	flush	502062	500729	
	Vito & V-Class W447	W	surface	502241	503485	
		W	flush	502239	503524	
		RD	surface	501771	503293	
		RD	flush	501799	503294	
	Vito 639 & V-Class W447	C	surface	502057	503170	503135
		C	flush	502058	503171	503488
		W	surface	501821	501789	
		RD	surface	501771	503293	503299
		RD	flush	501799	503294	503300
		RD	surface		503358	
		RD	flush		503357	
		W	surface		503486	
	Nissan	Nissan NV 200	W	flush	501946	503487
		RD	surface		503187	
Nissan NV 300		C	surface	502057	503170	503135
		C	flush	502058	503171	503488
		D	surface	502057	503170	503135
		D	flush	502058	503171	503488
Nissan NV400		C	surface	502057	503170	503135
		C	flush	502058	503171	503488
		W	surface	501942	501885	
		W	flush	501943	501886	
		D	surface	502057	503170	503135
		D	flush	502058	503171	503488
Nissan Primastar		C	surface	502057	503170	
		C	flush	502058	503171	
		D	surface	502057	503170	
	D	flush	502058	503171		
Opel	Combo High roof SWB&LWB	D	surface		502373	503560
		D	flush		502372	503562
		D	rail	502311	503312	
		D	rail	502317	501869	
	Movano X62	W	surface	501942	501885	
		W	flush	501943	501886	
		C	surface	502057	503170	503135
		C	flush	502058	503171	503488
		D	surface	502057	503170	503135
		D	flush	502058	503171	503488
	Vivaro X82	C	surface	502057	503170	503135
		C	flush	502058	503171	503488
		D	surface	502057	503170	503135
		D	flush	502058	503171	503488
	Vivaro X83	C	surface	502057	503170	503135
	C	flush	502058	503171	503488	
	D	surface	502057	503170	503135	
	D	flush	502058	503171	503488	
Zafira Life	C	surface		503296	503472	
	C	flush		503295	503474	
	RD	surface	501771	503293	503299	
	RD	flush	501799	503294	503300	
Zafira Life - Freedom drop floor conversion	C (roof)	surface				
Boxer Y	C	surface	502057	503170	503135	
	C	flush	502058	503171	503488	
	W	surface	501945	503483		
	W	flush	501944	502111		
right side	RD	surface		503736	503604	
right side	RD	flush		503738	503624	
left side	RD	surface		503739	503625	
left side	RD	flush		503737	503605	
Expert X	C	surface	502057	503170		
	C	flush	502058	503171		
	W	surface	501949	501057		
	W	flush	501948	501055		
	RD	surface	501771	503293		
	RD	flush	501799	503294		
Partner Tripod/Allied floor conversion	D	surface		503463	503464	
Traveller/Expert KO 2017-	C	surface		503296	503472	
	C	flush		503295	503474	
	RD	surface	501771	503293	503299	
	RD	flush	501799	503294	503300	
Traveller/Expert KO 2017- Freedom Drop Floor Conversion	C (roof)	surface				

SYMBOLS: C = c pillar / D = d pillar / W = window / RD / rear door / surface = surface mount / flush = flush mount / rail = floor rail

# List of vehicles with approved installation kits – 4-point WTORS

Vehicle make	Vehicle model	Shoulder belt anchorage position	Floor mount type	Up to 85 kg - CLASSIC Line	Up to 85 kg - EVOLUTION Line	Up to 200 kg - HEAVY DUTY Line
Renault	Master X62	C	surface	502057	503170	503135
		C	flush	502058	503171	503488
		W	surface	501942	501885	
		W	flush	501943	501886	
		D	surface	502057	503170	503135
	Trafic X82	D	flush	502058	503171	503488
		C	surface	502057	503170	503135
		C	flush	502058	503171	503488
		D	surface	502057	503170	503135
		D	flush	502058	503171	503488
Trafic X83	C	surface	502057	503170	503135	
	C	flush	502058	503171	503488	
	D	surface	502057	503170	503135	
	D	flush	502058	503171	503488	
	D	flush	502058	503171	503488	
Toyota	Proace	C	surface	502057	503170	
		C	flush	502058	503171	
		W	surface	501949	501057	
		W	flush	501948	501055	
		RD	surface	501771	503293	
	ProAce/Verso 2017-	RD	flush	501799	503294	
		C	surface		503296	503472
		C	flush		503295	503474
		RD	surface	501771	503293	
		RD	flush	501799	503294	503300
VW	ProAce/Verso 2017- Freedom Drop Floor Conversion	C (roof)	surface			
		RD	surface		503239	
		W	surface	501679	503482	500826
		W	flush	501932	500814	500827
		D	surface	502057	503170	
	Caddy, ITEK drop floor conversion Crafter (2006-2016)	D	flush	502058	503171	
		RD	surface		500114	500118
		RD	flush		500115	500119
		W	surface	502063	500726	
		W	flush	502062	500729	
Crafter 2017-	C	surface	503162	503133	503496	
	C	flush	503163	503131	503493	
	W	surface	503164	503132	503494	
	W	flush	503165	503130	503495	
	D	surface	502057	503170	503135	
	D	flush	502058	503171	503488	
		RD	surface		500114	500118
		RD	flush		500115	500119
		W	surface		500248	
		W	flush		500247	
New Transporter / Caravelle 2025-	D	surface		500251		
	D	flush		500252		
	RD	surface		500223		
	RD	flush		500224		
	C	surface	502057	503170	503135	
T5 & T6	C	flush	502058	503171	503488	
	W	surface	501774	501772		
	W	flush	501786	501773		
	D	surface		503170	503135	
	D	flush		503171	503488	
	RD	surface	501771	503293	503299	
	RD	flush	501799	503294	503300	
	RD	surface		503352		
	RD	flush		503353		
	RD	surface		503122	503498	
T5 & T6 Multivan, original floor rails	RD	surface				
	RD	flush				
T5 & T6 Colorado, GM Coachwork drop floor conversion	C	surface	502289	503476	503479	
	C	flush	502290	503477		

## Approved 4-point WTORS installation kits - CLASSIC LINE 85 kg

**Part no. 501679**

MB Sprinter  
906 & 907 & 910  
VW Crafter (2006-2016)

**Part no. 501771**

Citroën Jumpy X  
Citroën Space Tourer / Jumpy KO 2016-  
Fiat Scudo X270  
Ford Transit Custom V362  
MB Vito 639 & V-Class W447  
Opel Zafira Life  
Peugeot Expert X  
Peugeot Traveller / Expert KO 2016-  
Toyota Proace / Verso 2016-  
VW T5 & T6

**Part no. 501774**

VW T5 & T6

**Part no. 501786**

VW T5 & T6

**Part no. 501799**

Citroën Jumpy X  
Citroën Space Tourer / Jumpy KO 2016-  
Fiat Scudo X270  
Ford Transit Custom V362  
MB Vito 639 & V-Class W447  
Opel Zafira Life  
Peugeot Expert X  
Peugeot Traveller / Expert KO 2016-  
Toyota Proace / Verso 2016-  
VW T5 & T6

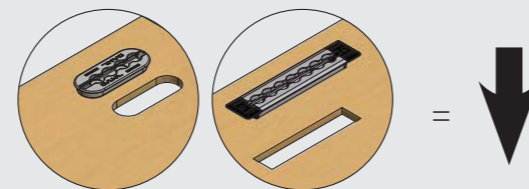
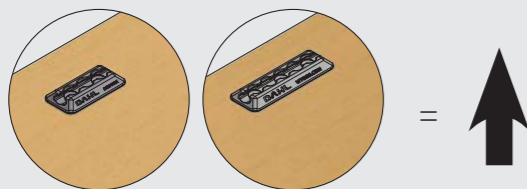
**Part no. 501821**

MB Vito 639 & V-Class W447

### Explanation of symbols for kits with 4-point WTORS

Floor pocket or rail for surface installation

Floor pocket or rail for flush installation





**Part no. 501932**

MB Sprinter  
906 & 907 & 910  
VW Crafter (2006-2016)

**Part no. 501942**

Opel Movano X62  
L1, L2, L3, L4  
Renault Master X62  
L1, L2, L3, L4  
Nissan NV400  
L1, L2, L3, L4

**Part no. 501947**

Ford Transit Custom V362  
Nissan NV 200

**Part no. 501948**

Citroën Jumpy X  
Fiat Scudo X270  
Peugeot Expert X  
Toyota Proace

**Part no. 501943**

Opel Movano X62  
L1, L2, L3, L4  
Renault Master X62  
L1, L2, L3, L4  
Nissan NV400  
L1, L2, L3, L4

**Part no. 501944**

Fiat Ducato X250  
Peugeot Boxer Y  
Citroën Jumper Y

**Part no. 501949**

Citroën Jumpy X  
Fiat Scudo X270  
Peugeot Expert X  
Toyota Proace

**Part no. 502055**

Ford Transit V363

**Part no. 501945**

Fiat Ducato X250  
Peugeot Boxer Y  
Citroën Jumper Y

**Part no. 501946**

Ford Transit Custom V362  
Nissan NV 200

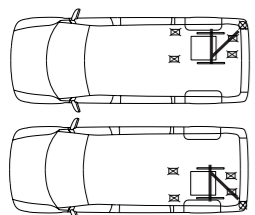
**Part no. 502056**

Ford Transit V363

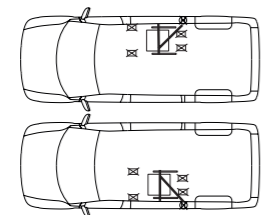
**Part no. 502059**

Ford Transit V363

Part No. 5102057
Fiat Talento
Ford Transit V363
Ford Transit Custom V362
MAN TGE 2017-
MB Sprinter 906 & 907 & 910
Nissan Primastar
Nissan NV300
Nissan NV400
Opel Vivaro X82 & X83
Opel Movano X62
Renault Master X62
Renault Trafic X82 & X83
VW Crafter (2006-2016)
VW Crafter 2017-



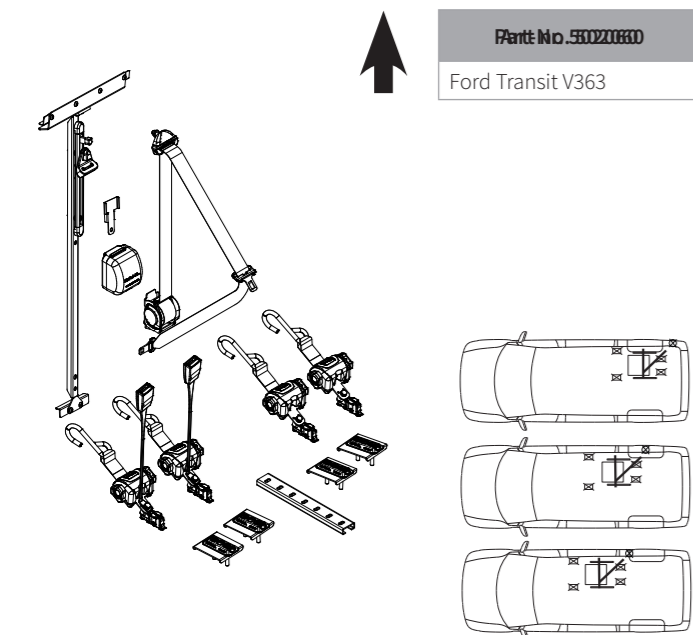
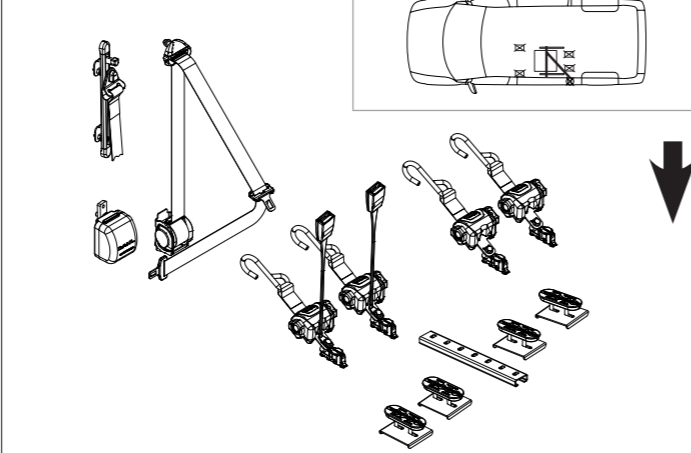
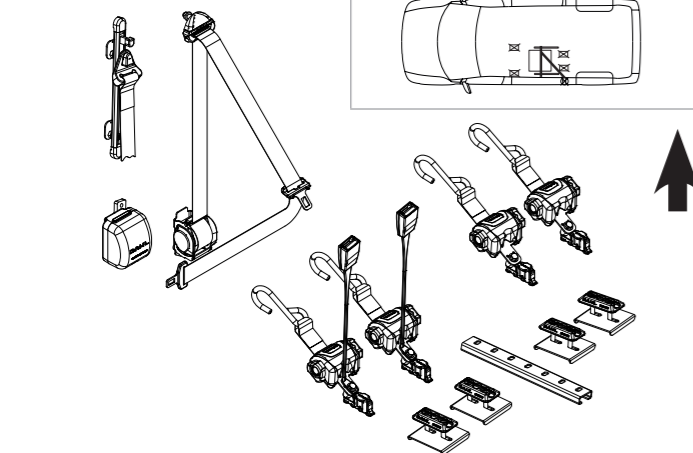
Part No. 5102057
Citroën Jumper Y
Citroën Jumpy X
Fiat Ducato X250
Fiat Scudo X270
Fiat Talento
Ford Transit Custom V362
MB Sprinter 906 & 907 & 910
MB Vito 639 & W447
Nissan NV300
Nissan NV400 L1, L2, L3, L4
Nissan Primastar
Opel Movano X62 L1, L2, L3, L4
Opel Vivaro X82 & X83
Peugeot Boxer Y
Peugeot Expert X
Renault Master X62 L1, L2, L3, L4
Renault Trafic X82 & X83
Toyota Proace
VW T5 & T6



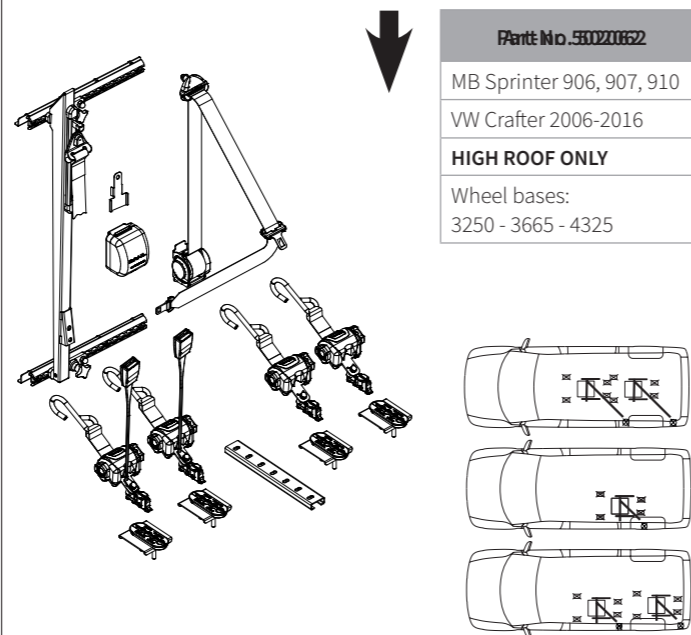
Part No. 5102058
Fiat Talento
Ford Transit V363
Ford Transit Custom V362
MAN TGE 2017-
MB Sprinter 906 & 907 & 910
Nissan Primastar
Nissan NV300
Nissan NV400
Opel Vivaro X82 & X83
Opel Movano X62
Renault Master X62
Renault Trafic X82 & X83
VW Crafter (2006-2016)
VW Crafter 2017-



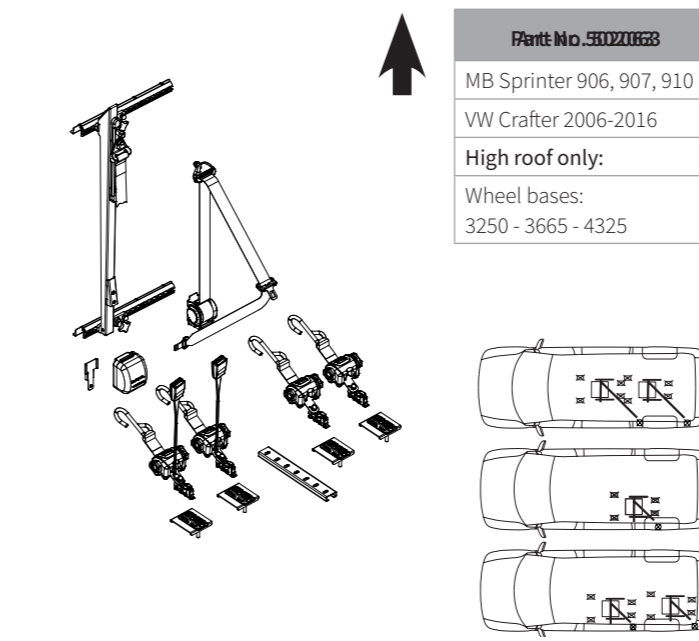
Part No. 5102058
Citroën Jumper Y
Citroën Jumpy X
Fiat Ducato X250
Fiat Scudo X270
Fiat Talento
Ford Transit Custom V362
MB Sprinter 906 & 907 & 910
MB Vito 639 & W447
Nissan NV400 L1, L2, L3, L4
Nissan NV300
Nissan Primastar
Opel Movano X62 L1, L2, L3, L4
Opel Vivaro X82 & X83
Peugeot Boxer Y
Peugeot Expert X
Renault Master X62 L1, L2, L3, L4
Renault Trafic X82 & X83
Toyota Proace
VW T5 & T6

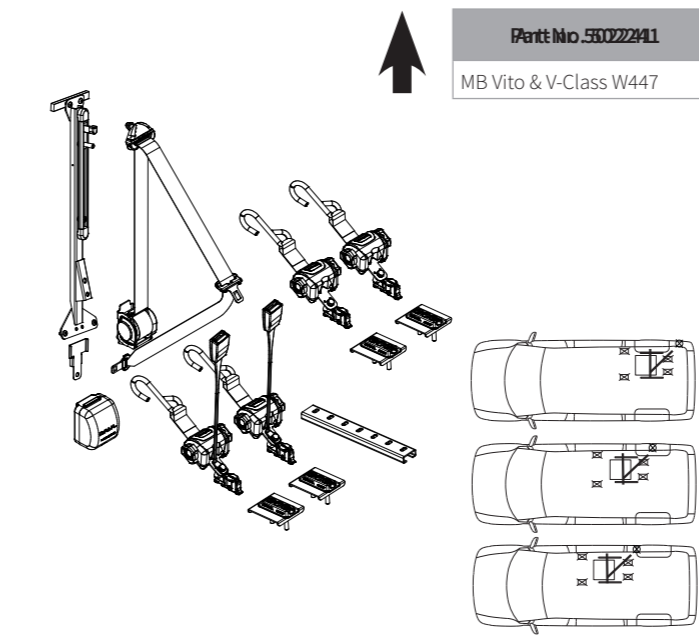
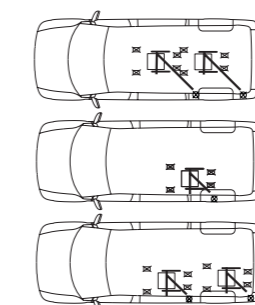
Part No. 5102060
Ford Transit V363



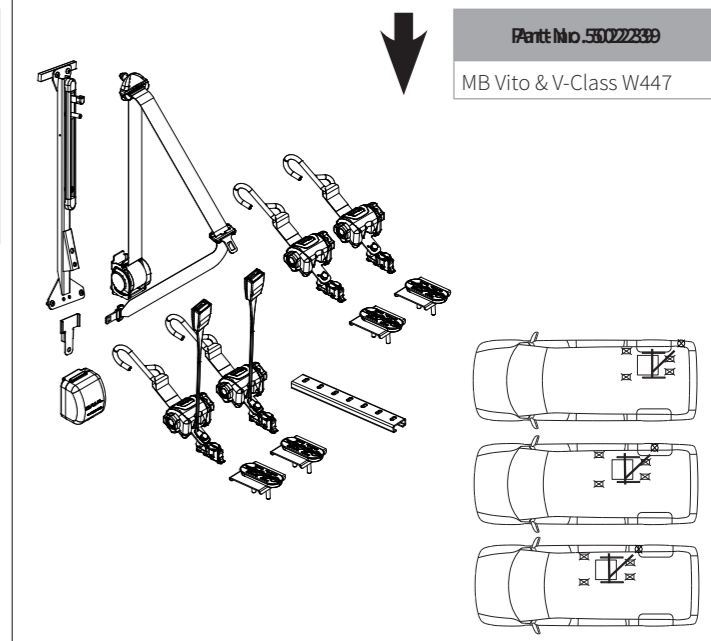
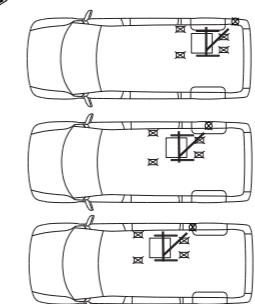
Part No. 5102062
MB Sprinter 906, 907, 910
VW Crafter 2006-2016
<b>HIGH ROOF ONLY</b>
Wheel bases: 3250 - 3665 - 4325



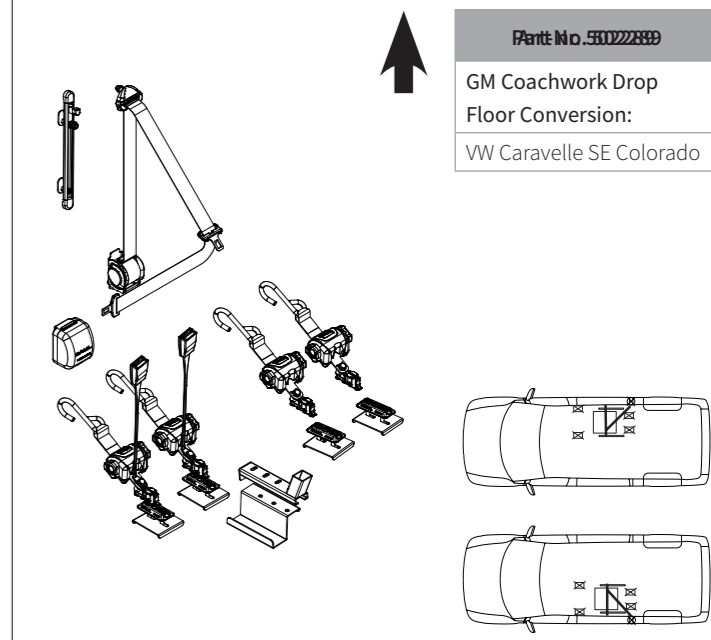
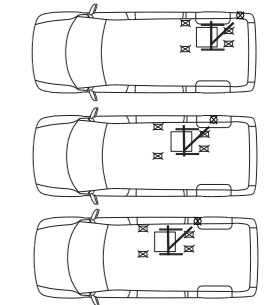
Part No. 5102053
MB Sprinter 906, 907, 910
VW Crafter 2006-2016
<b>High roof only:</b>
Wheel bases: 3250 - 3665 - 4325



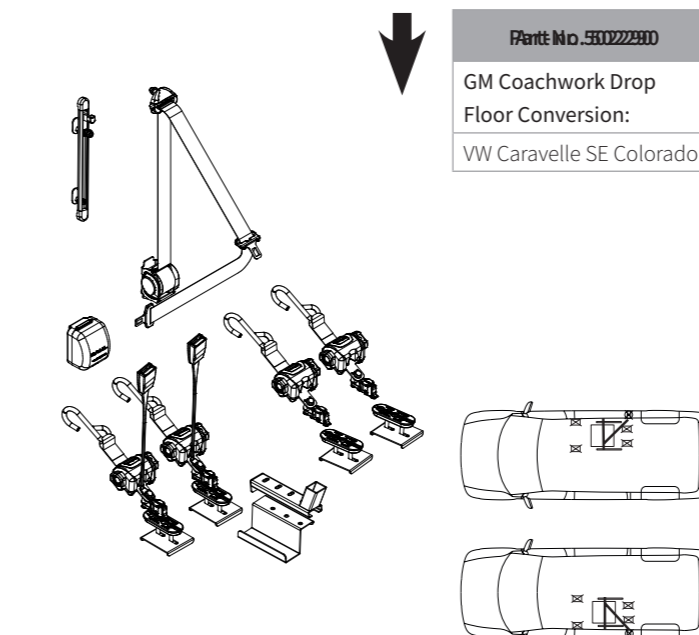
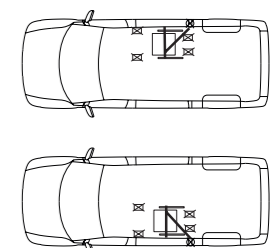
Part No. 5102241
MB Vito & V-Class W447



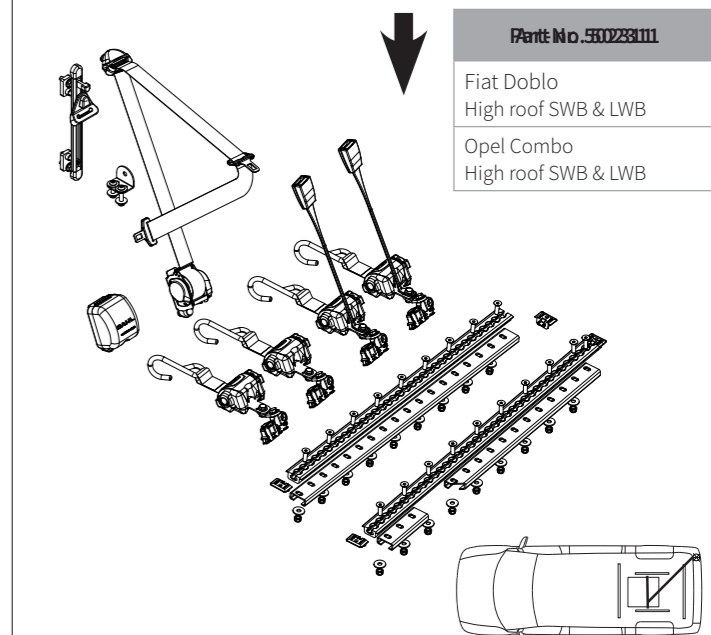
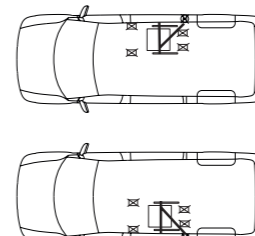
Part No. 5102239
MB Vito & V-Class W447



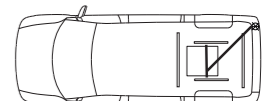
Part No. 5102289
<b>GM Coachwork Drop Floor Conversion:</b>
VW Caravelle SE Colorado

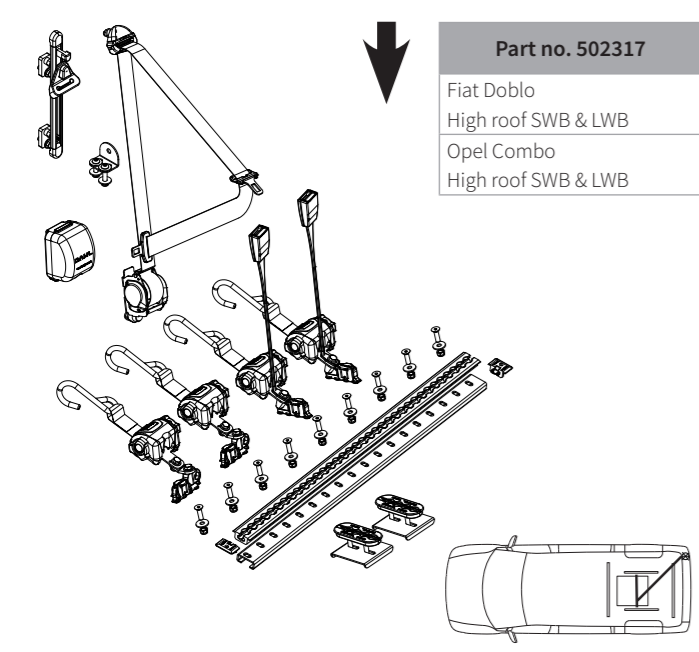


Part No. 5102290
<b>GM Coachwork Drop Floor Conversion:</b>
VW Caravelle SE Colorado

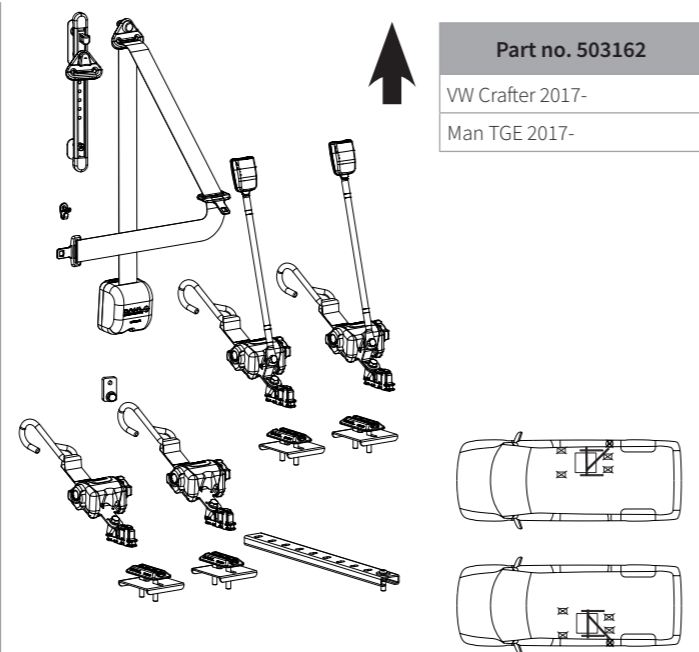


Part No. 5102311
Fiat Doblo High roof SWB & LWB
Opel Combo High roof SWB & LWB

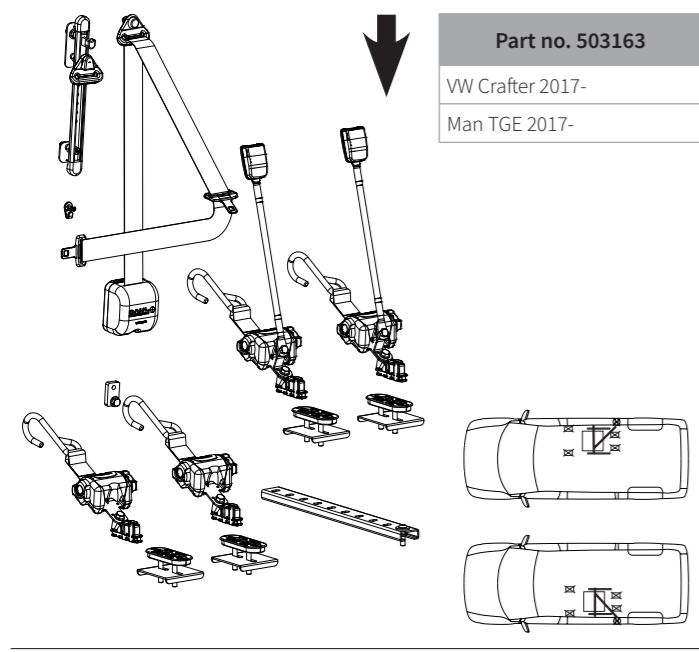




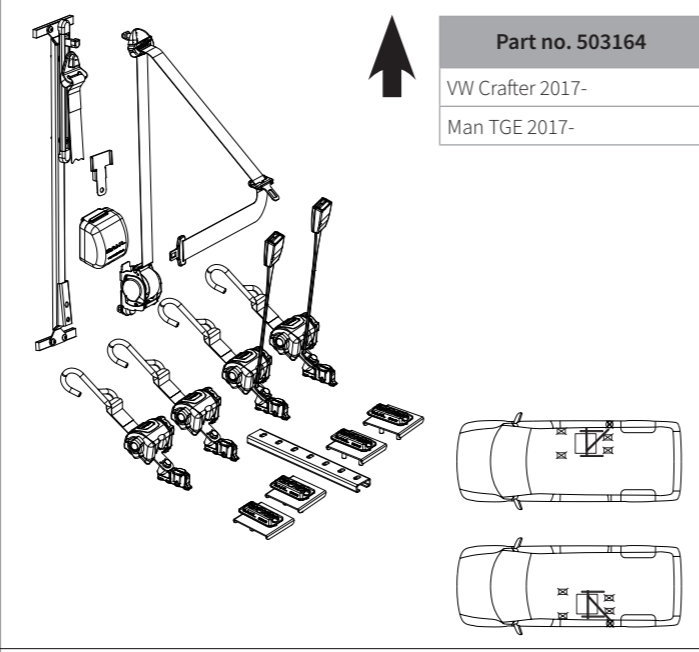
**Part no. 502317**  
 Fiat Doblo  
 High roof SWB & LWB  
 Opel Combo  
 High roof SWB & LWB



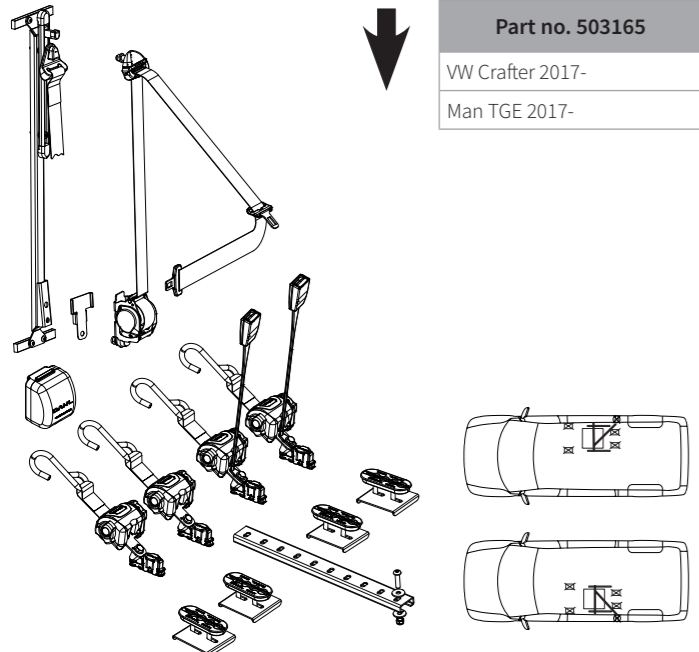
**Part no. 503162**  
 VW Crafter 2017-  
 Man TGE 2017-



**Part no. 503163**  
 VW Crafter 2017-  
 Man TGE 2017-



**Part no. 503164**  
 VW Crafter 2017-  
 Man TGE 2017-



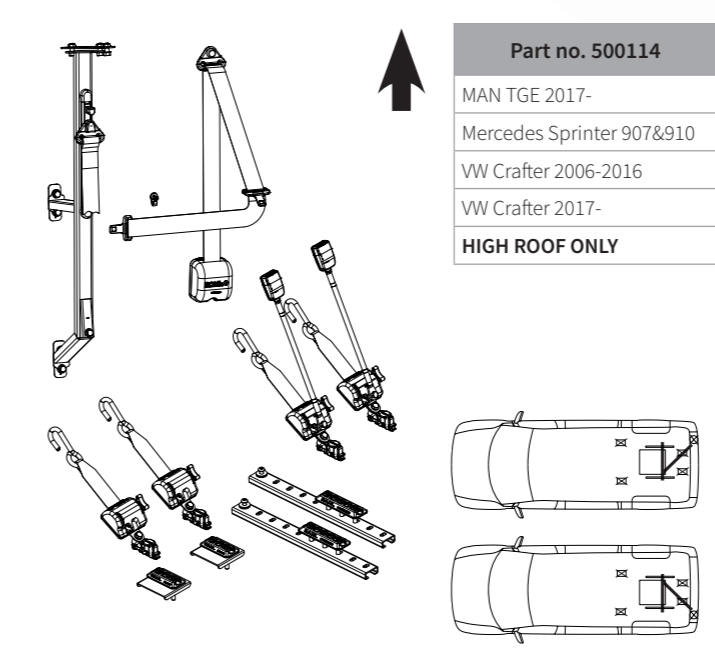
**Part no. 503165**  
 VW Crafter 2017-  
 Man TGE 2017-

## Upgrade of 4-point EVOLUTION kits from 85 to 200 kg wheelchair rating, currently using 4 x 501906

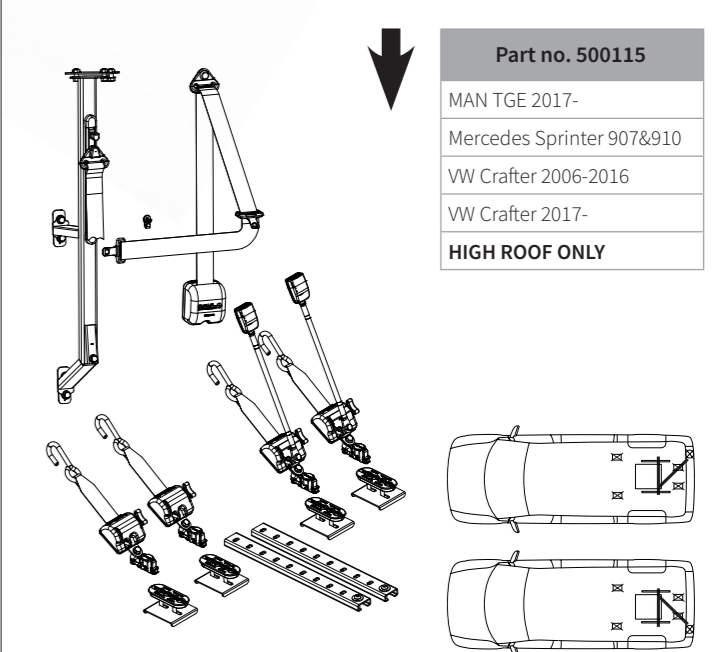
Due to increasing requirements in tenders for public transportation and others, prescribing that 4-point Wheelchair Tiedown and Occupant restraint Systems (WTORS) must be rated at the actual weight of the wheelchairs transported, we have decided to upgrade all our 85kg EVOLUTION surface mounted 4-point kits, except for transverse fitting rails. This way, those 85kg WTORS kits are compatible with our HEAVY DUTY WTORS rated at 200 kg + user.

Therefore, customers who will have one those 85 kg WTORS installed in the vehicle and wish to upgrade them with our HEAVY DUTY WTORS, which are rated for wheelchair masses of 200 kg plus user, do not have to go back to the workshop to have the stronger 6-stud HEAVY DUTY floor pockets fitted in the rear, saving time and extra work.

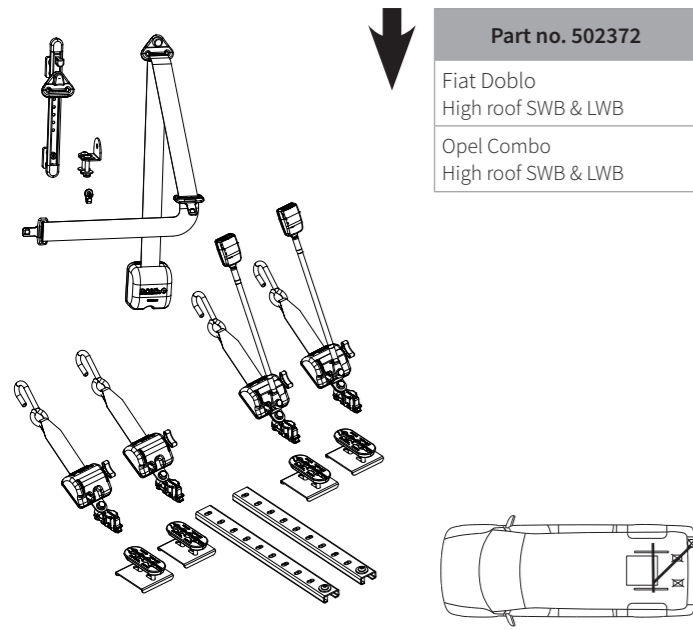
The new floor pocket fitting (2 x art nr. 503251) for the rear tie-down straps or retractors, replacing 2 x art.nr. 501906, can be seen here:



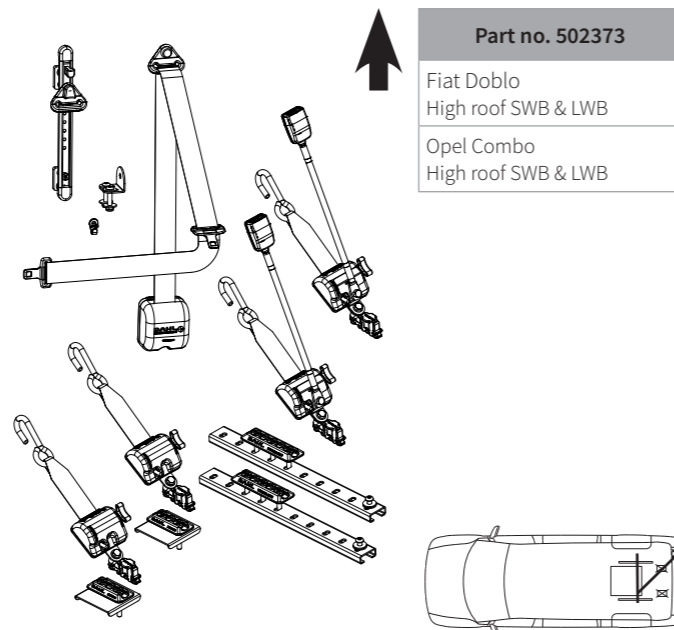
**Part no. 500114**  
 MAN TGE 2017-  
 Mercedes Sprinter 907&910  
 VW Crafter 2006-2016  
 VW Crafter 2017-  
**HIGH ROOF ONLY**



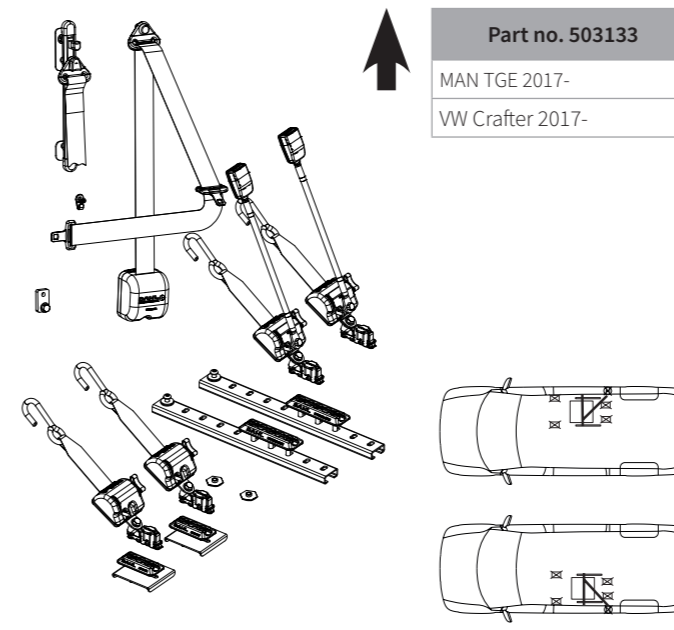
**Part no. 500115**  
 MAN TGE 2017-  
 Mercedes Sprinter 907&910  
 VW Crafter 2006-2016  
 VW Crafter 2017-  
**HIGH ROOF ONLY**



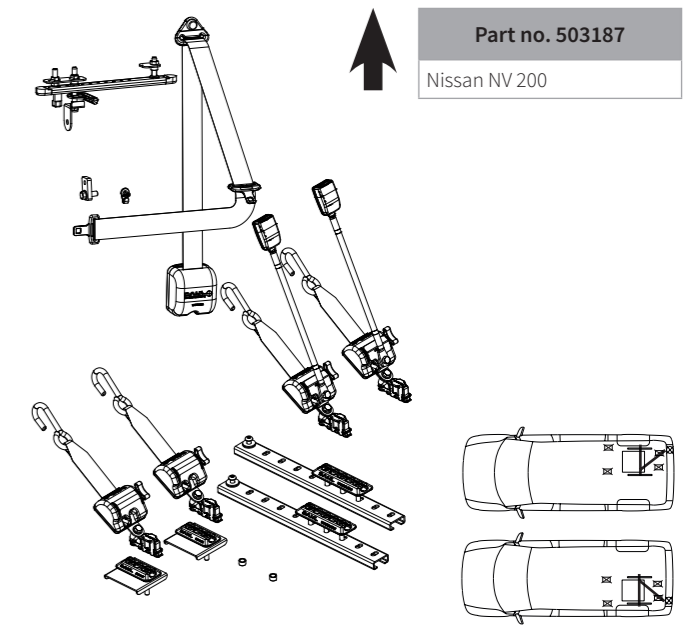
**Part no. 502372**  
Fiat Doblo  
High roof SWB & LWB  
Opel Combo  
High roof SWB & LWB



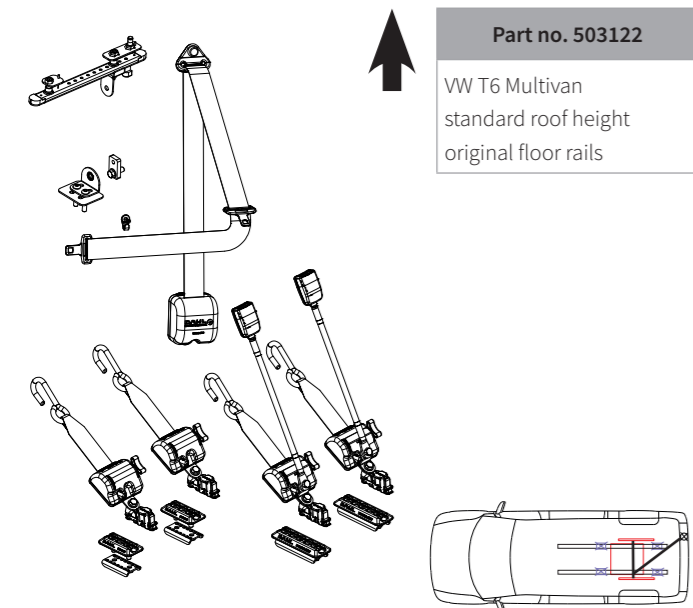
**Part no. 502373**  
Fiat Doblo  
High roof SWB & LWB  
Opel Combo  
High roof SWB & LWB



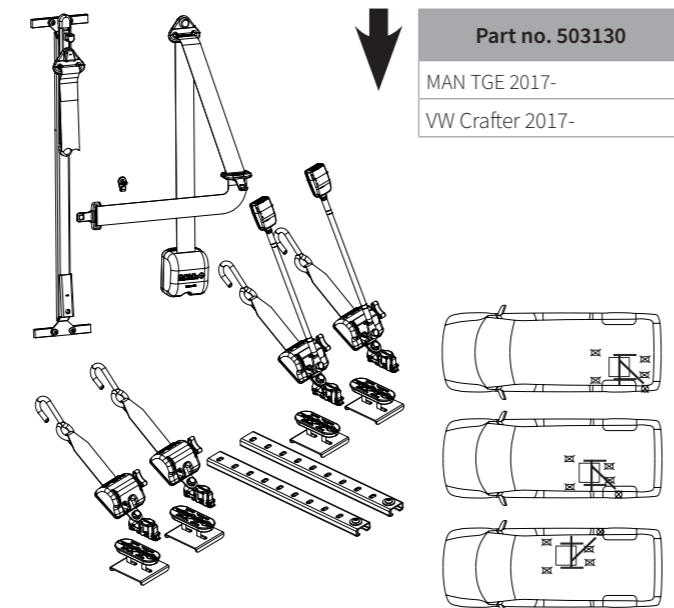
**Part no. 503133**  
MAN TGE 2017-  
VW Crafter 2017-



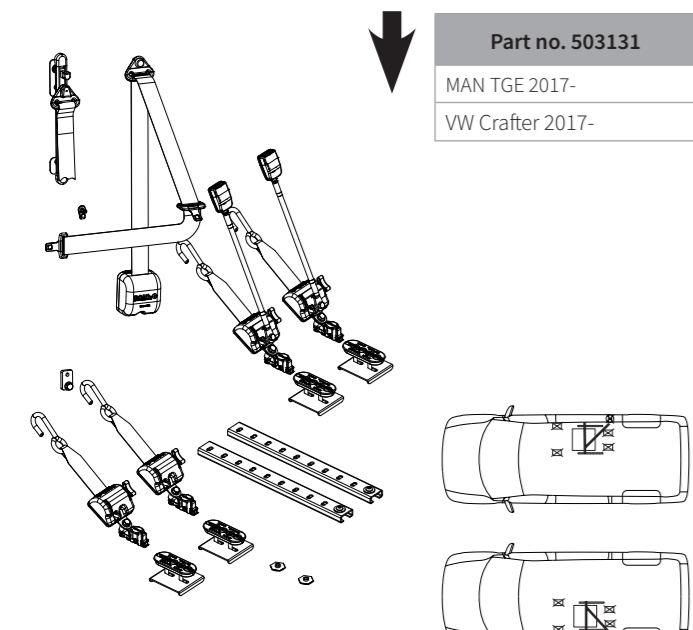
**Part no. 503187**  
Nissan NV 200



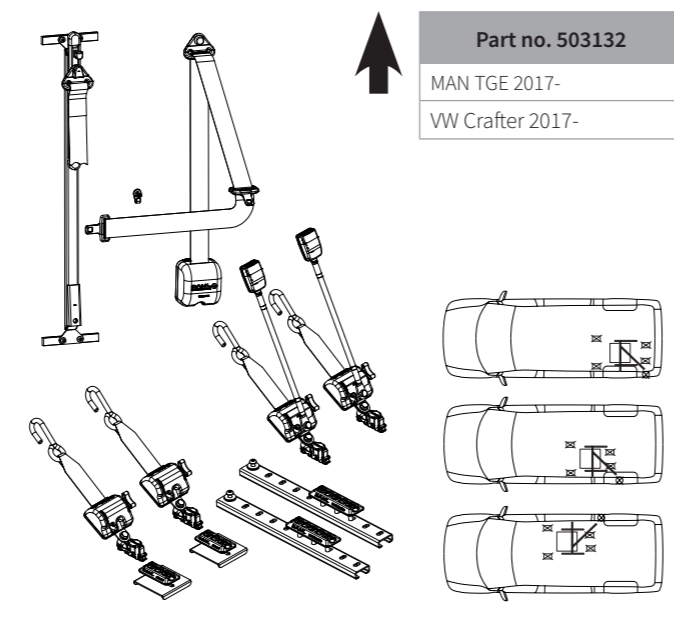
**Part no. 503122**  
VW T6 Multivan  
standard roof height  
original floor rails



**Part no. 503130**  
MAN TGE 2017-  
VW Crafter 2017-

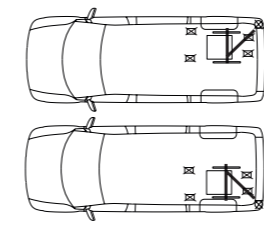


**Part no. 503131**  
MAN TGE 2017-  
VW Crafter 2017-

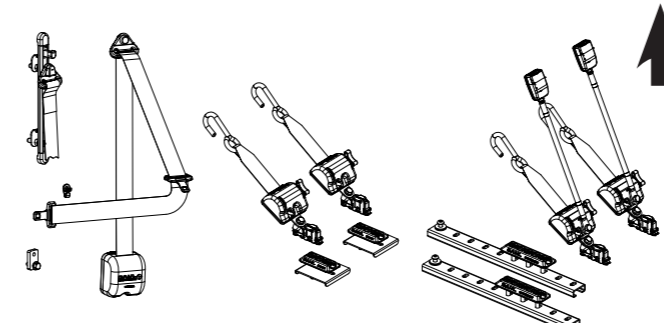
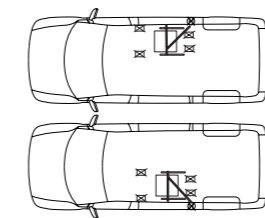


**Part no. 503132**  
MAN TGE 2017-  
VW Crafter 2017-

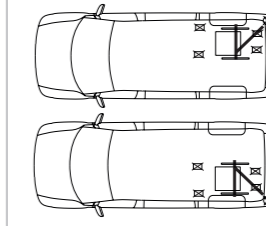
Part no. 503170
Fiat Talento
Ford Transit V363
Ford Transit Custom V362
Man TGE 2017-
MB Sprinter 906 & 907 & 910
Nissan Primastar
Nissan NV300
Nissan NV400
Opel Vivaro X82 & X83
Opel Movano X62
Renault Master X62
Renault Trafic X82 & X83
VW Crafter 2006-2016
VW Crafter 2017-
VW T5 & T6



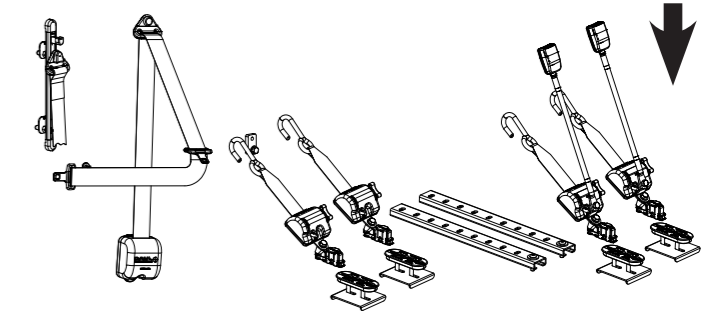
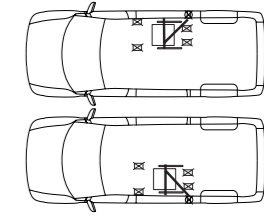
Part no. 503170
Citroën Jumper Y
Citroën Jumpy X
Fiat Ducato X250
Fiat Scudo X270
Fiat Talento
Ford Transit Custom V362
MB Sprinter 906 & 907 & 910
MB Vito V-Class W639 & W447
Nissan NV300
Nissan NV400
Nissan Primastar
Opel Movano X62
Opel Vivaro X82 & X83
Peugeot Boxer Y
Peugeot Expert X
Renault Master X62
Renault Trafic X82 & X83
Toyota Proace
VW T5 & T6

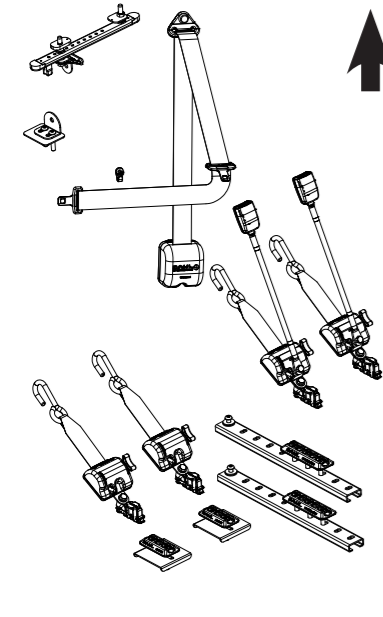


Part no. 503171
Fiat Talento
Ford Transit V363
Ford Transit Custom V362
Man TGE 2017-
MB Sprinter 906 & 907 & 910
Nissan Primastar
Nissan NV300
Nissan NV400
Opel Vivaro X82 & X83
Opel Movano X62
Renault Master X62
Renault Trafic X82 & X83
VW Crafter 2006-2016
VW Crafter 2017-
VW T5 & T6

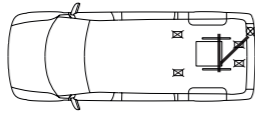
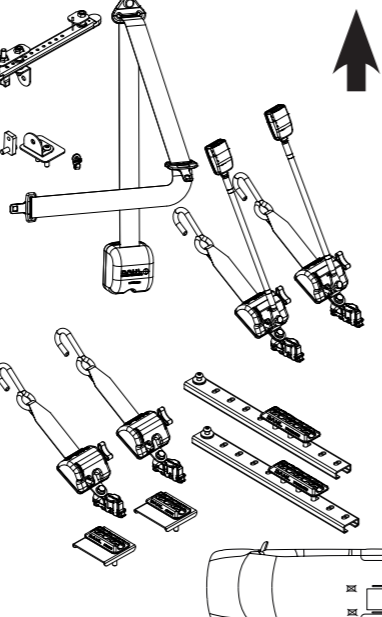


Part no. 503171
Citroën Jumper Y
Citroën Jumpy X
Fiat Ducato X250
Fiat Scudo X270
Fiat Talento
Ford Transit Custom V362
MB Sprinter 906 & 907 & 910
MB Vito V-Class W639 & W447
Nissan NV300
Nissan NV400
Nissan Primastar
Opel Movano X62
Opel Vivaro X82 & X83
Peugeot Boxer Y
Peugeot Expert X
Renault Master X62
Renault Trafic X82 & X83
Toyota Proace
VW T5 & T6

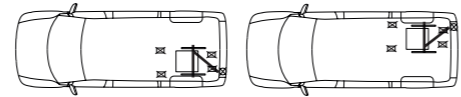
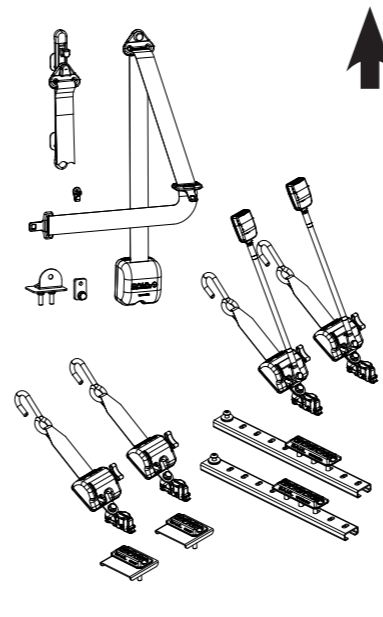




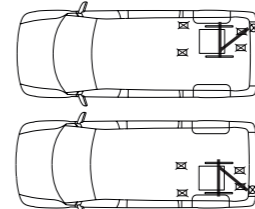
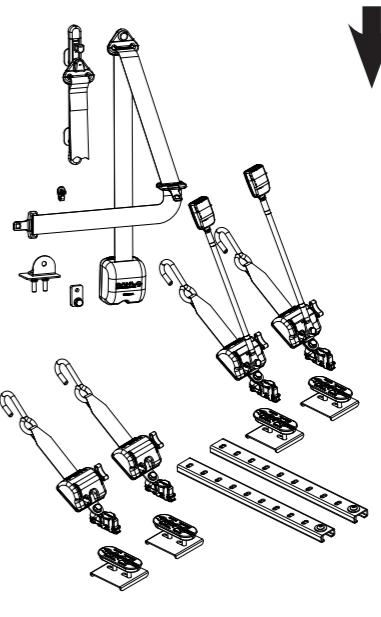
<b>Part no. 503239</b>
ITEK Drop Floor Conversion:
VW Caddy Active

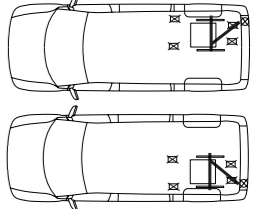
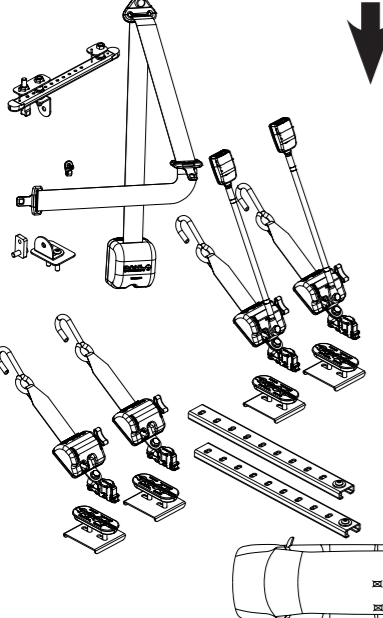
<b>Part no. 503293</b>
Citroën Jumpy X
Citroën Space Tourer / Jumpy KO 2016-
Fiat Scudo X270
Ford Transit Custom V362
MB Vito V-Class W639& 447
Opel Zafira Life
Peugeot Expert X
Peugeot Traveller / Expert KO 2016-
Toyota Proace
Toyota Proace / Verso 2016-
VW T5 + T6

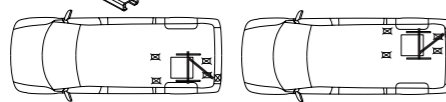
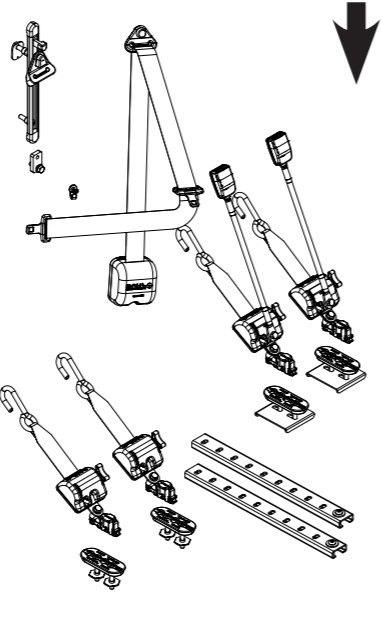
<b>Part no. 503352</b>
VW T5 & T6

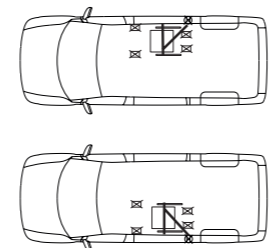
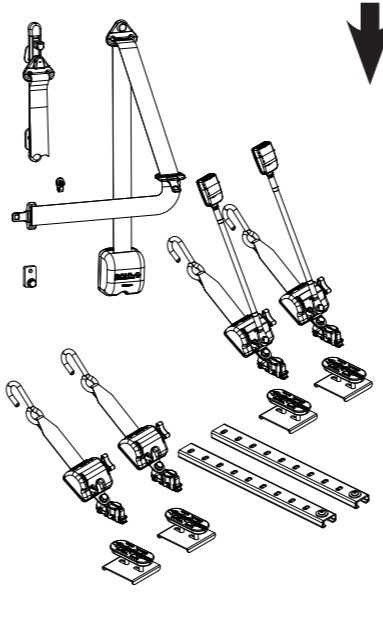
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VW T5 & T6

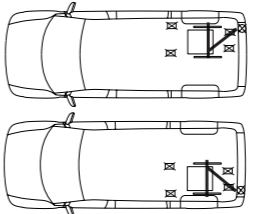
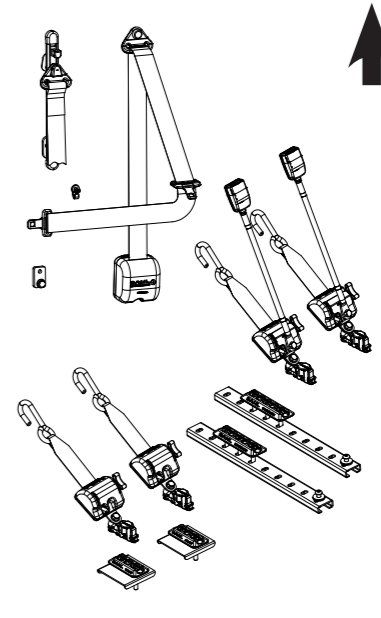
<b>Part no. 503294</b>
Citroën Jumpy X
Citroën Space Tourer / Jumpy KO 2016-
Fiat Scudo X270
Ford Transit Custom V362
MB Vito V-Class W639& 447
Opel Zafira Life
Peugeot Expert X
Peugeot Traveller / Expert KO 2016-
Toyota Proace
Toyota Proace / Verso 2016-
VW T5 + T6

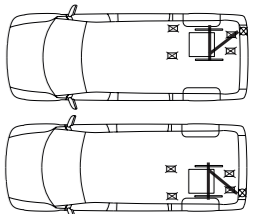
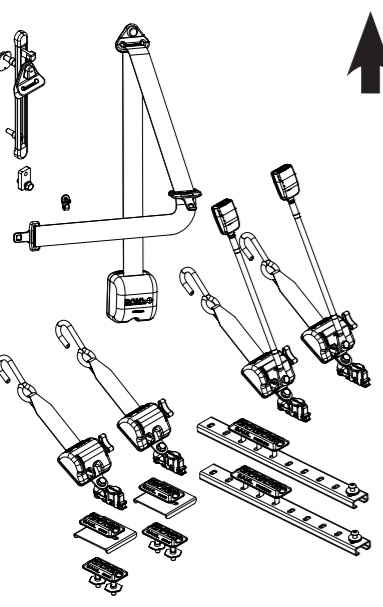
<b>Part no. 503295</b>
Citroën Space Tourer / Jumpy KO
Opel Zafira Life
Peugeot Traveller / Expert KO
Toyota Proace / Verso 2016-

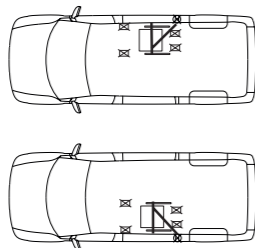
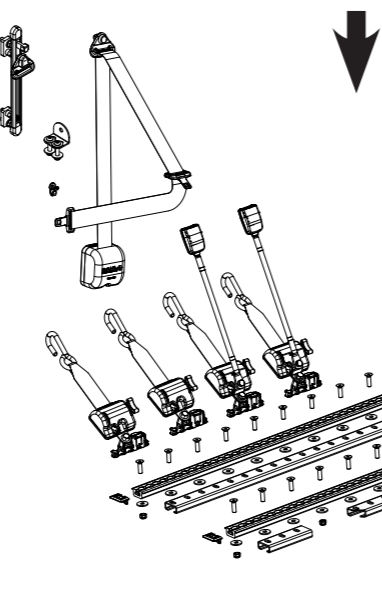
<b>Part no. 503357</b>
MB Vito 639 / V-Class W447

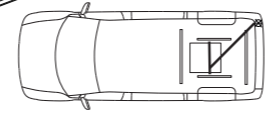
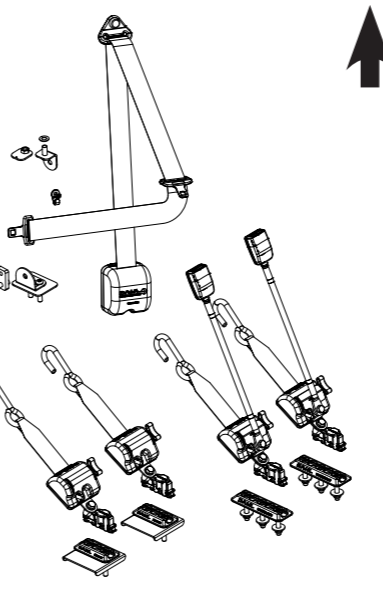
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MB Vito 639 / V-Class W447

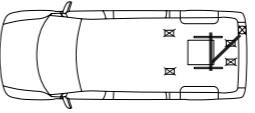
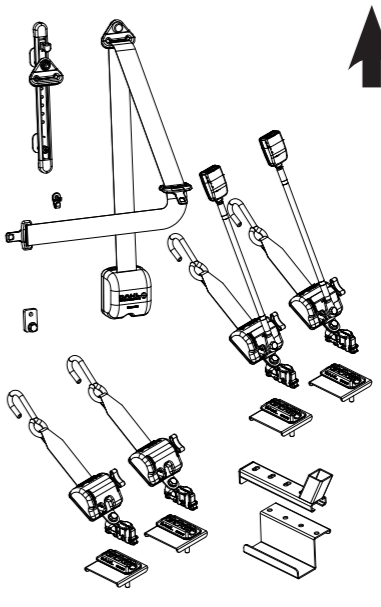
<b>Part no. 503296</b>
Citroën Space Tourer / Jumpy KO
Opel Zafira Life
Peugeot Traveller / Expert KO
Toyota Proace / Verso 2016-

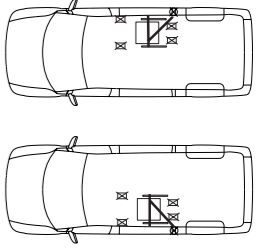
<b>Part no. 503312</b>
Fiat Doblo
High roof SWB & LWB
Opel Combo
High roof SWB & LWB

<b>Part no. 503463</b>
Tripod/Allied Drop Floor Conversion:
Citroën Berlingo
Peugeot Partner

<b>Part no. 503476</b>
GM Coachwork drop floor conversion:
VW Caravelle SE Colorado



**Art. nr. 503477**  
 GM Coachwork drop floor conversion:  
 VW Caravelle SE Colorado

**Part no. 503482**  
 MB Sprinter 906 & 907 & 910  
 VW Crafter (2006-2016)

**Part no. 503486**  
 Nissan NV200  
 Ford Transit Custom V362

**Part no. 503487**  
 Nissan NV200  
 Ford Transit Custom V362

**Part no. 503483**  
 Fiat Ducato X250  
 Peugeot Boxer Y  
 Citroën Jumper Y

**Part no. 502111**  
 Fiat Ducato X250  
 Peugeot Boxer Y  
 Citroën Jumper Y

**Part no. 503736**  
 Citroën Jumper Y  
 Fiat Ducato X250  
 Peugeot Boxer Y

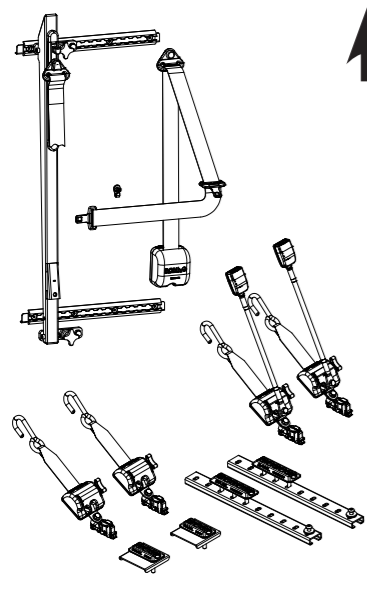
**Part no. 503737**  
 Citroën Jumper Y  
 Fiat Ducato X250  
 Peugeot Boxer Y

**Part no. 503484**  
 MB Sprinter 906, 907 & 910  
 VW Crafter 2006-2016

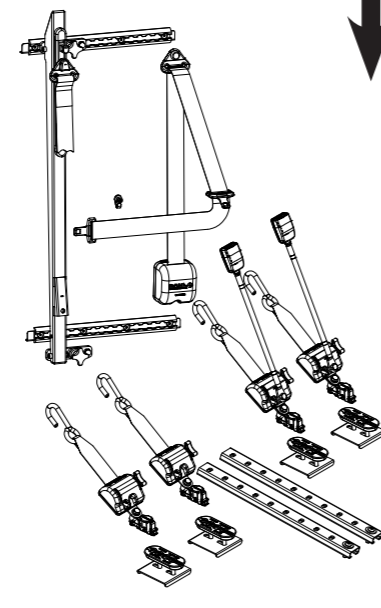
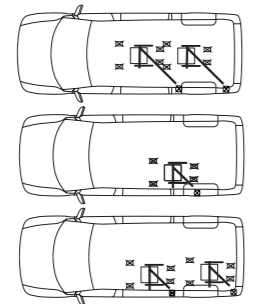
**Part no. 503485**  
 MB Vito / V-Class W447

**Part no. 503738**  
 Citroën Jumper Y  
 Fiat Ducato X250  
 Peugeot Boxer Y

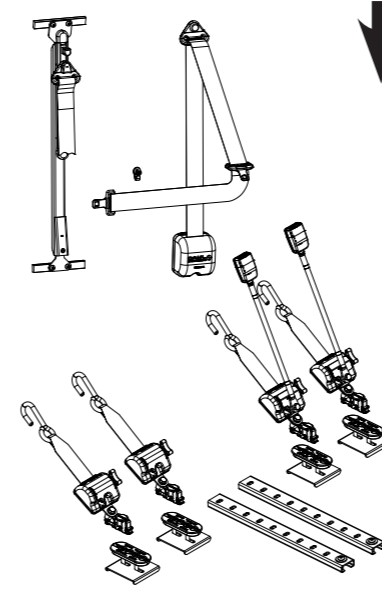
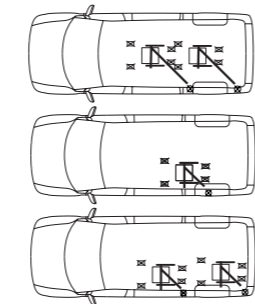
**Part no. 503739**  
 Citroën Jumper Y  
 Fiat Ducato X250  
 Peugeot Boxer Y



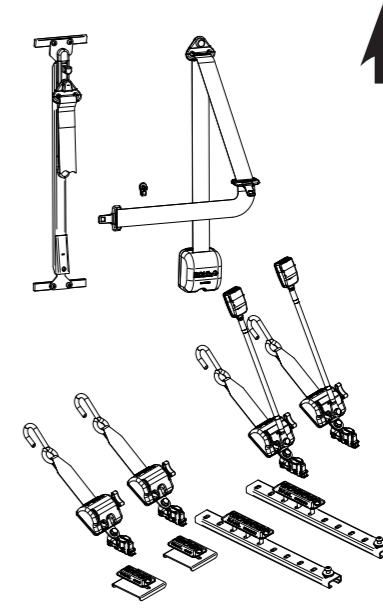
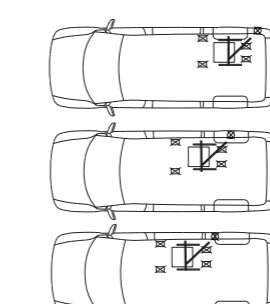
**Part no. 500726**  
 MB Sprinter 906, 907 & 910  
 VW Crafter 2006-2016  
 Wheel Bases:  
 3250, 3665, 4322  
**HIGH ROOF ONLY**



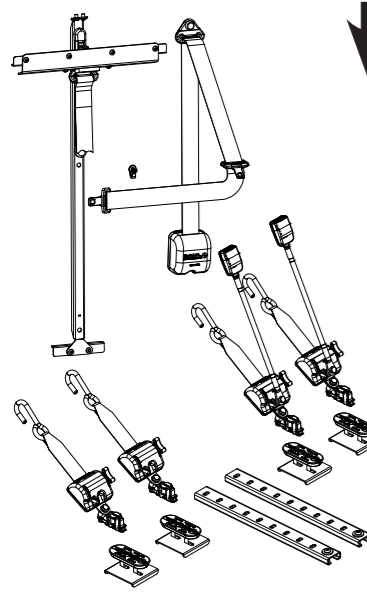
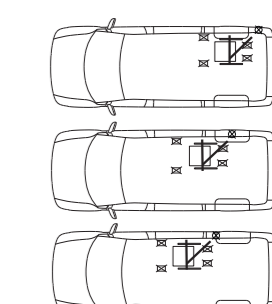
**Part no. 500726**  
 MB Sprinter 906, 907 & 910  
 VW Crafter 2006-2016  
 Wheel Bases:  
 3250, 3665, 4322  
**HIGH ROOF ONLY**



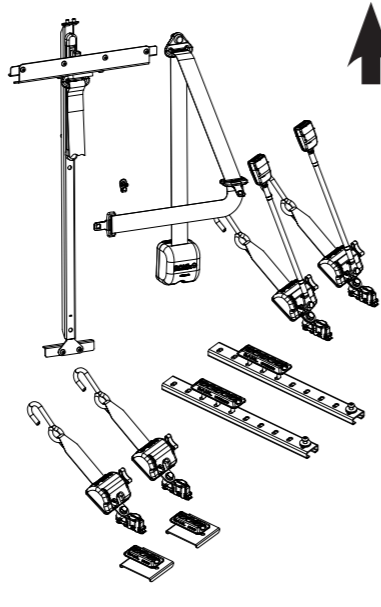
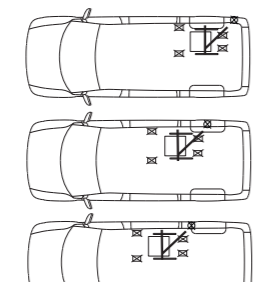
**Part no. 501055**  
 Citroën Jumpy X  
 Fiat Scudo X270  
 Peugeot Expert X  
 Toyota ProAce



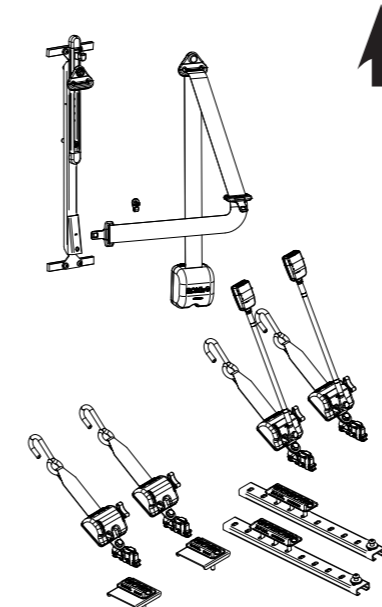
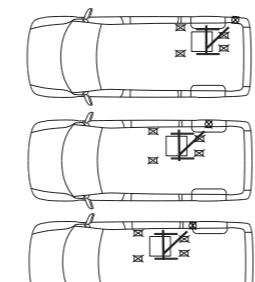
**Part no. 501057**  
 Citroën Jumpy X  
 Fiat Scudo X270  
 Peugeot Expert X  
 Toyota ProAce



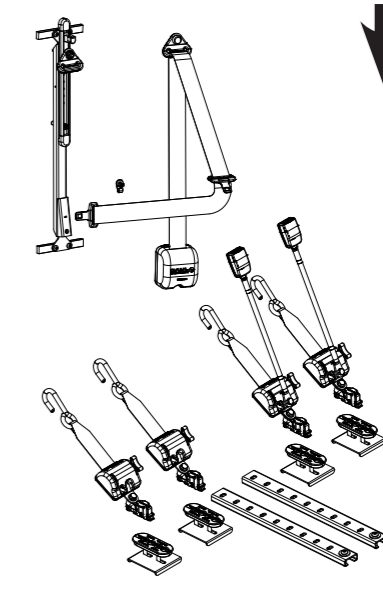
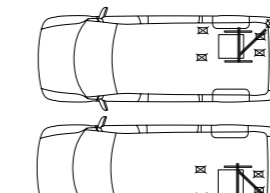
**Part no. 501050**  
 Ford Transit V363



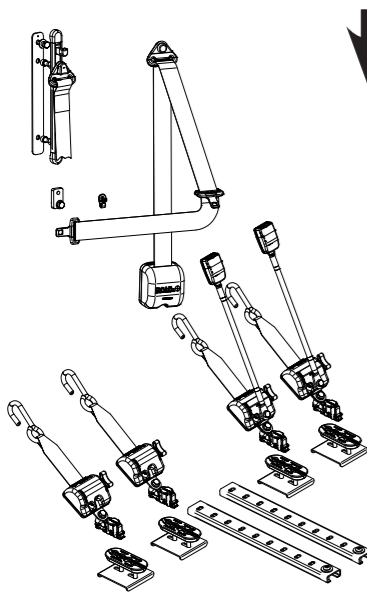
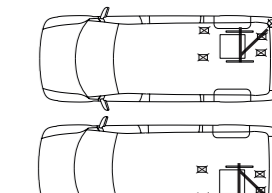
**Part no. 501051**  
 Ford Transit V363



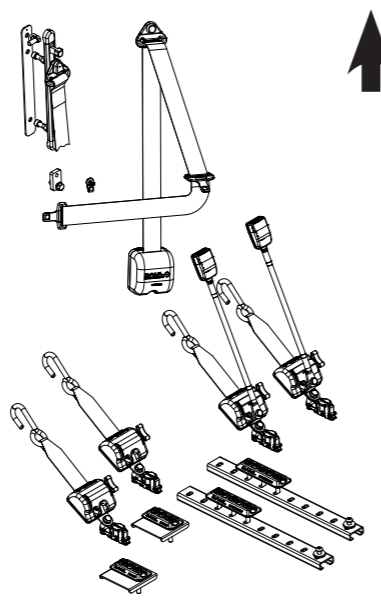
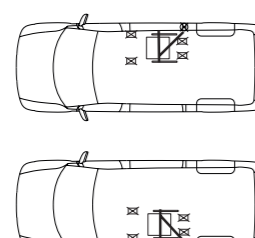
**Part no. 501772**  
 VW Caravelle  
 VW Transporter T5 & T6



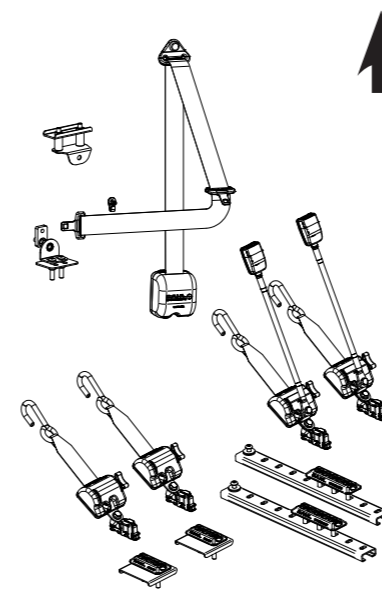
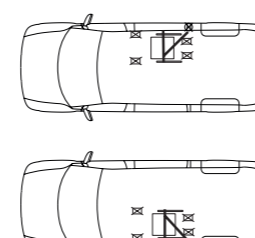
**Part no. 501773**  
 VW Caravelle  
 VW Transporter T5 & T6



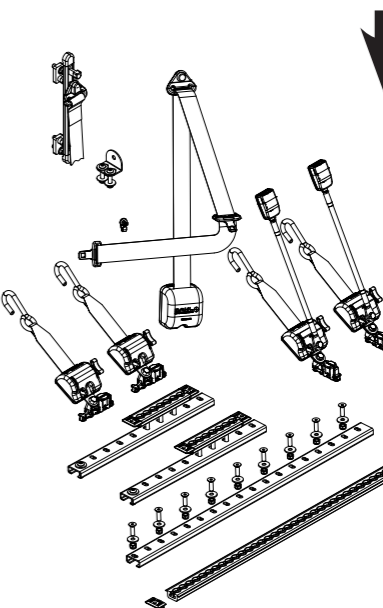
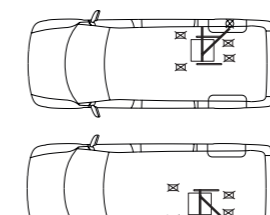
**Part no. 501053**  
 Ford Transit V363



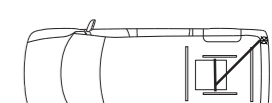
**Part no. 501054**  
 Ford Transit V363

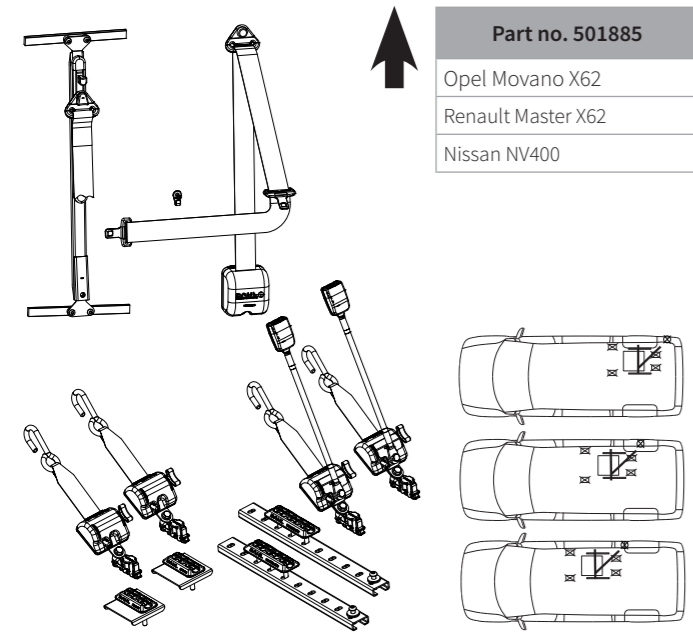


**Part no. 501789**  
 MB Vito 639  
 V-Class W447

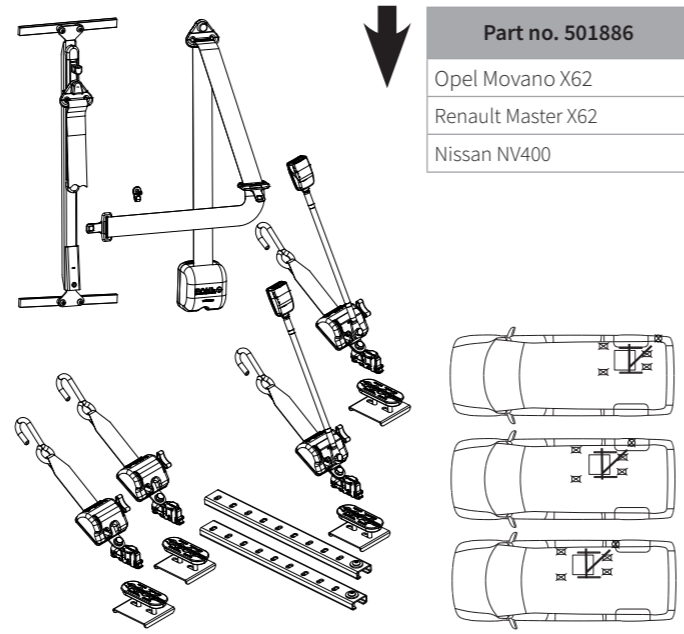
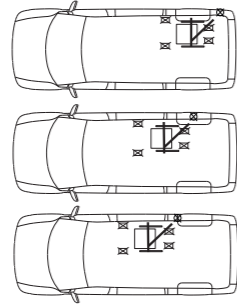


**Part no. 501869**  
 High Roof SWB & LWB:  
 Fiat Dublo  
 Opel Combo

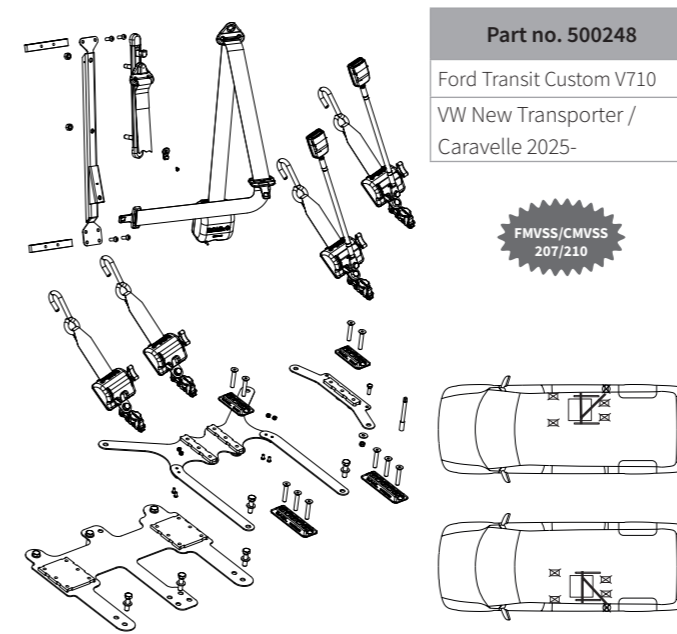
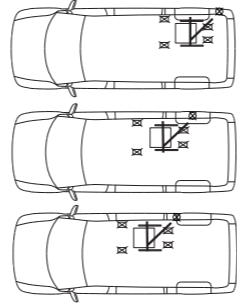




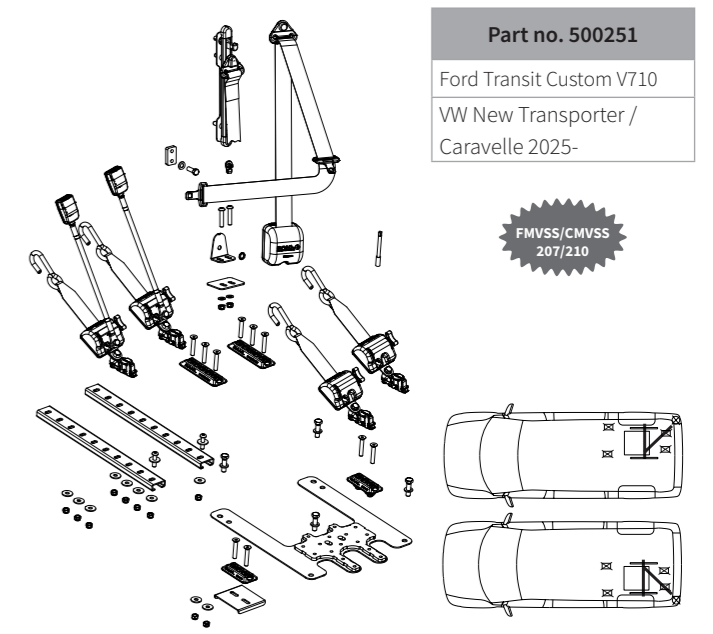
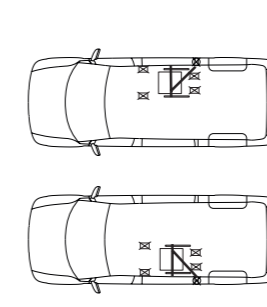
**Part no. 501885**  
Opel Movano X62  
Renault Master X62  
Nissan NV400



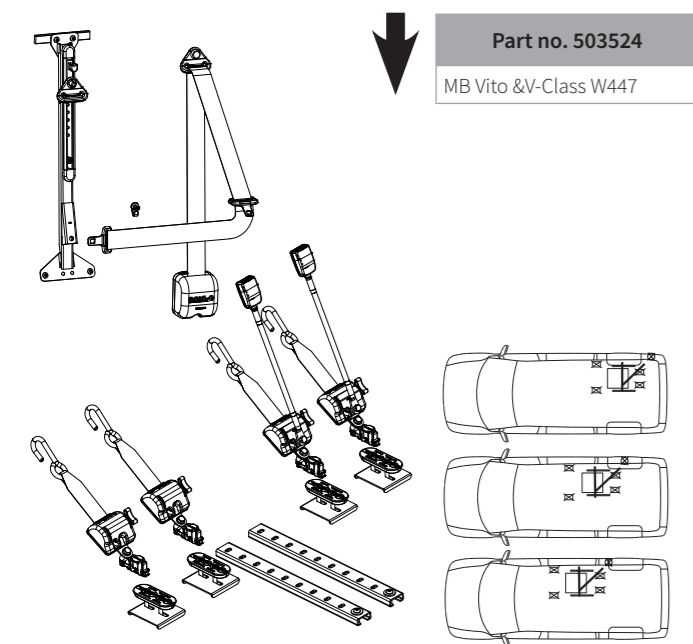
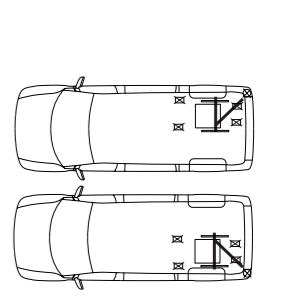
**Part no. 501886**  
Opel Movano X62  
Renault Master X62  
Nissan NV400



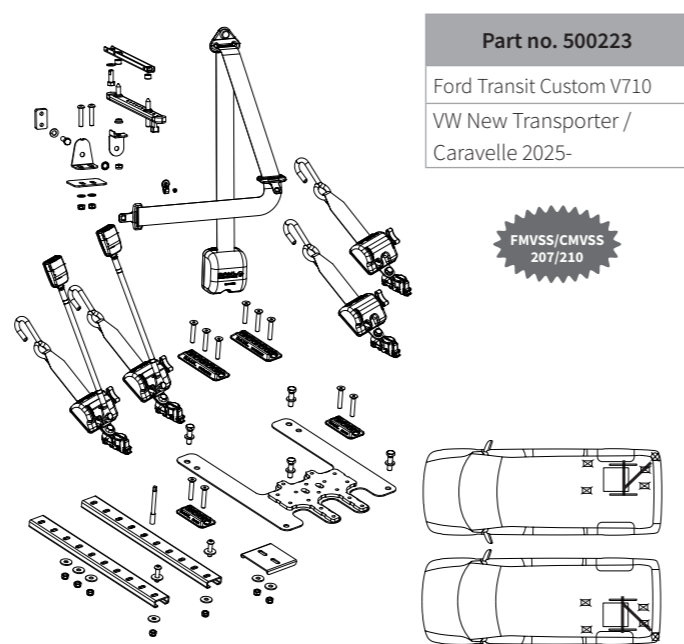
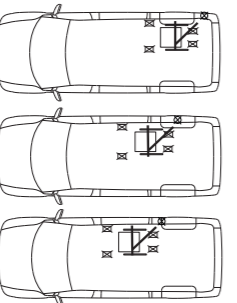
**Part no. 500248**  
Ford Transit Custom V710  
VW New Transporter /  
Caravelle 2025-



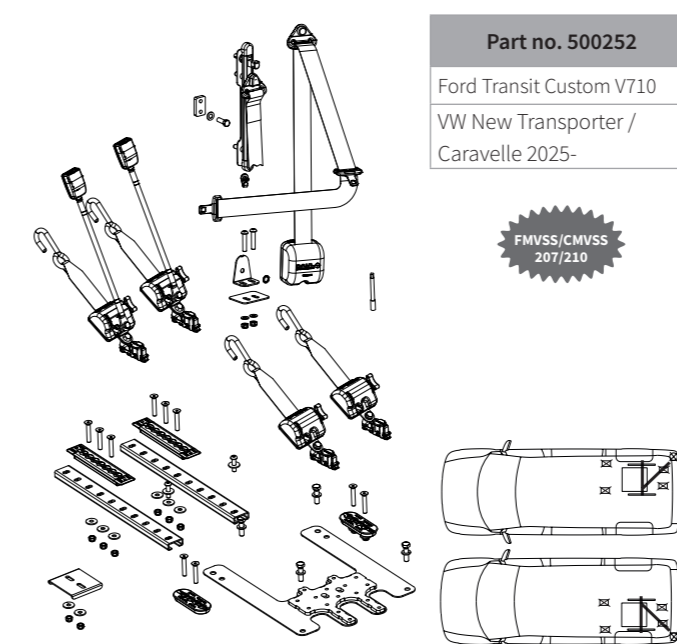
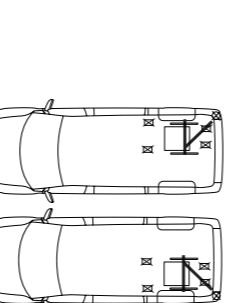
**Part no. 500251**  
Ford Transit Custom V710  
VW New Transporter /  
Caravelle 2025-



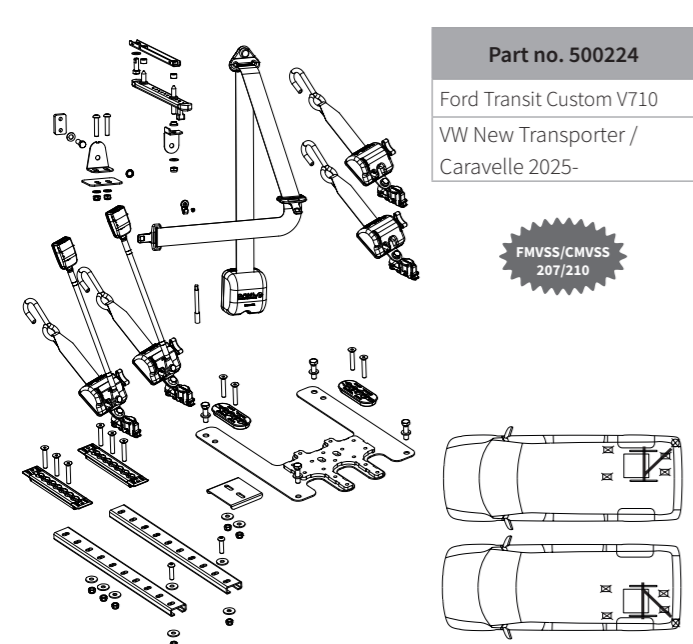
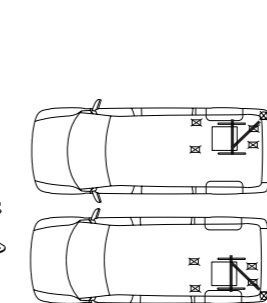
**Part no. 503524**  
MB Vito & V-Class W447



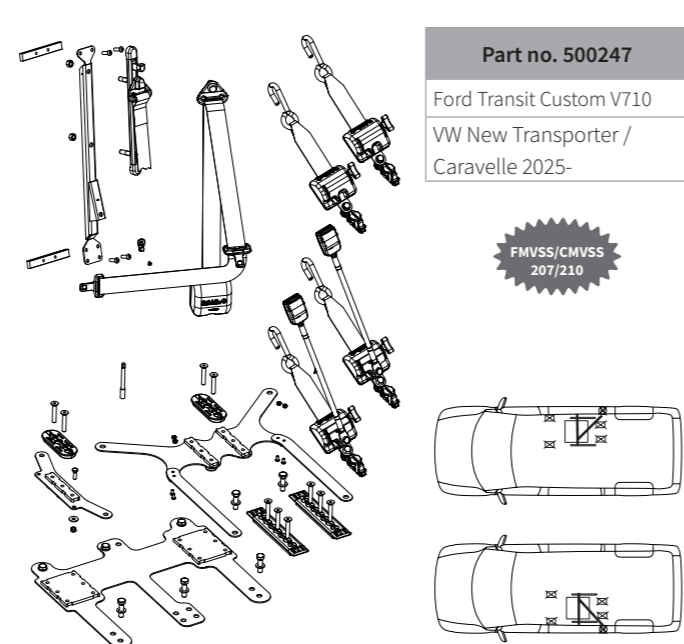
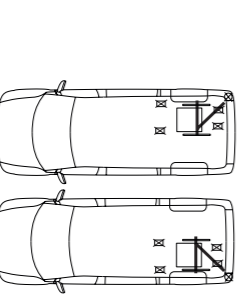
**Part no. 500223**  
Ford Transit Custom V710  
VW New Transporter /  
Caravelle 2025-



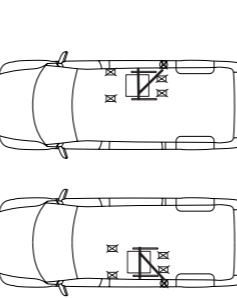
**Part no. 500252**  
Ford Transit Custom V710  
VW New Transporter /  
Caravelle 2025-



**Part no. 500224**  
Ford Transit Custom V710  
VW New Transporter /  
Caravelle 2025-

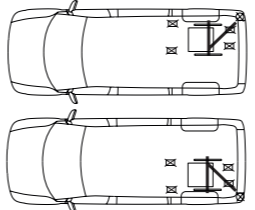


**Part no. 500247**  
Ford Transit Custom V710  
VW New Transporter /  
Caravelle 2025-

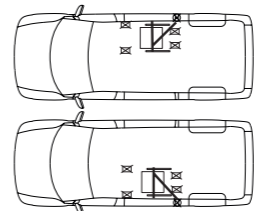
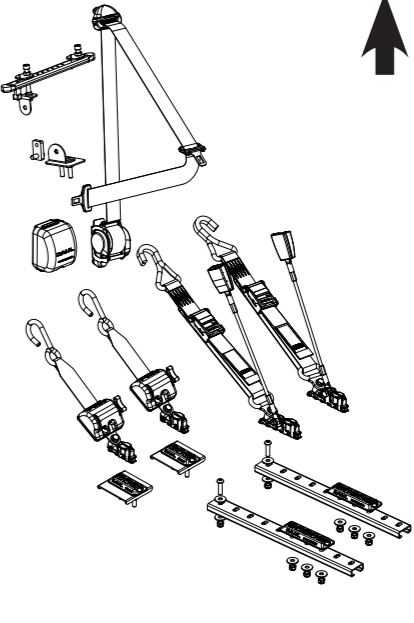




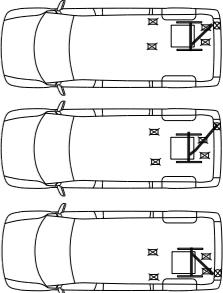
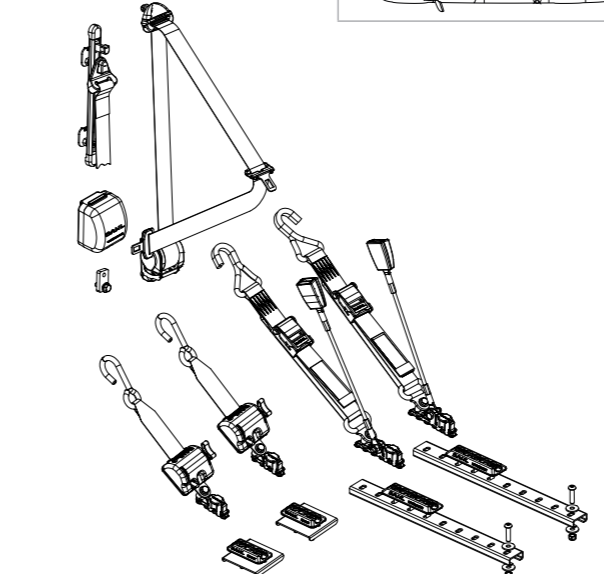
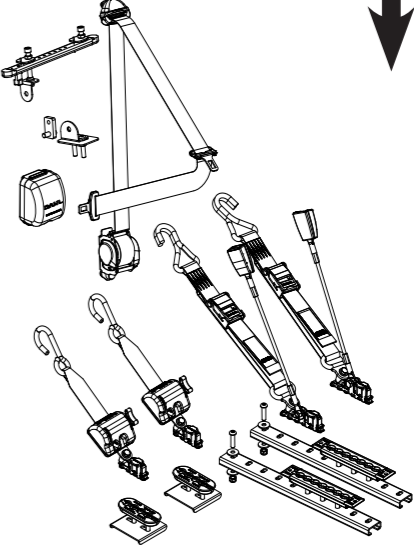
Part no. 503135
Fiat Talento X82
Ford Transit Custom V362
Man TGE 2017 - -
MB Sprinter 906, 907 & 910
Nissan NV300 & NV400
Opel Movano X62
Opel Vivaro X82 & X83
Renault Master X62
Renault Traffic X82 & X83
VW Crafter 2017-
VW T5 & T6



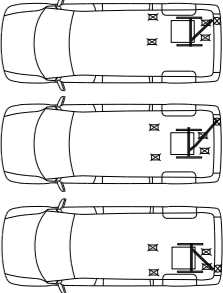
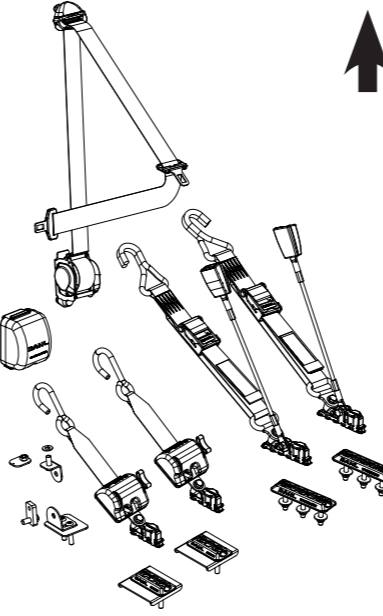
Part no. 503135
Citroën Jumper Y
Fiat Ducato X250
Fiat Talento X82
Ford Transit Custom V362
MB Sprinter 906, 907, 910
MB Vito V-Class W639 & W447
Nissan NV300 & NV400
Opel Movano X62
Opel Vivaro X82 & X83
Peugeot Boxer Y
Renault Master X62
Renault Traffic X82 & X83
VW T5 & T6

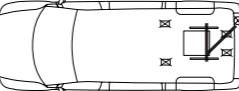
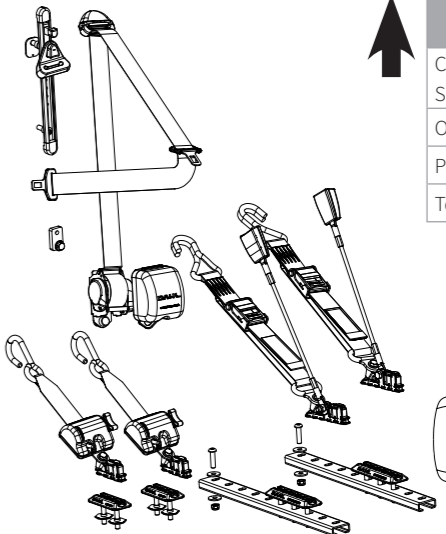
Part no. 503299
Citroën Jumpy / Space Tourer K0
MB Vito/V-Class W639 & 447
Opel Zafira Life
Peugeot Expert / Traveller K0
Toyota Proace / Verso 2016-
VW T5& T6

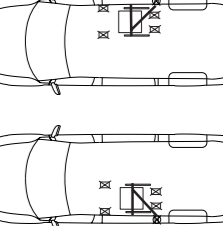
Part no. 503300
Citroën Jumpy / Space Tourer K0
MB Vito/V-Class W639 & 447
Opel Zafira Life
Peugeot Expert / Traveller K0
Toyota Proace / Verso 2016-
VW T5& T6

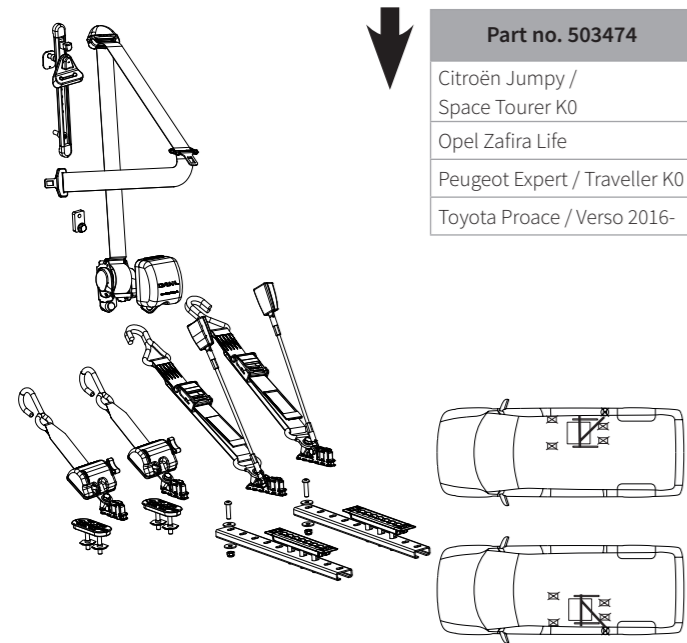



Part no. 503464
Tripod/Allied Drop Floor Conversion:
Citroën Berlingo
Peugeot Partner

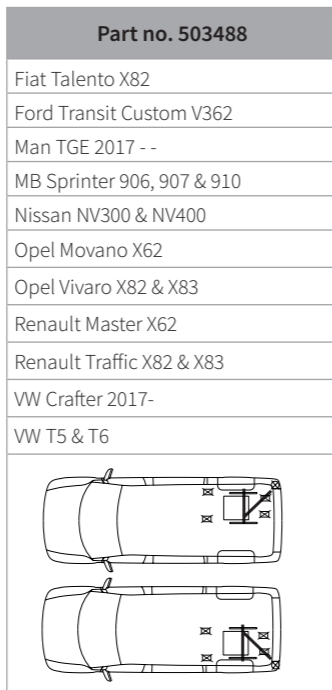



Part no. 503472
Citroën Jumpy / Space Tourer K0
Opel Zafira Life
Peugeot Expert / Traveller K0
Toyota Proace / Verso 2016-

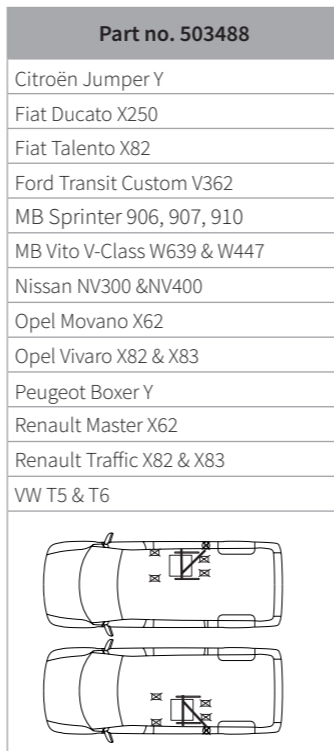




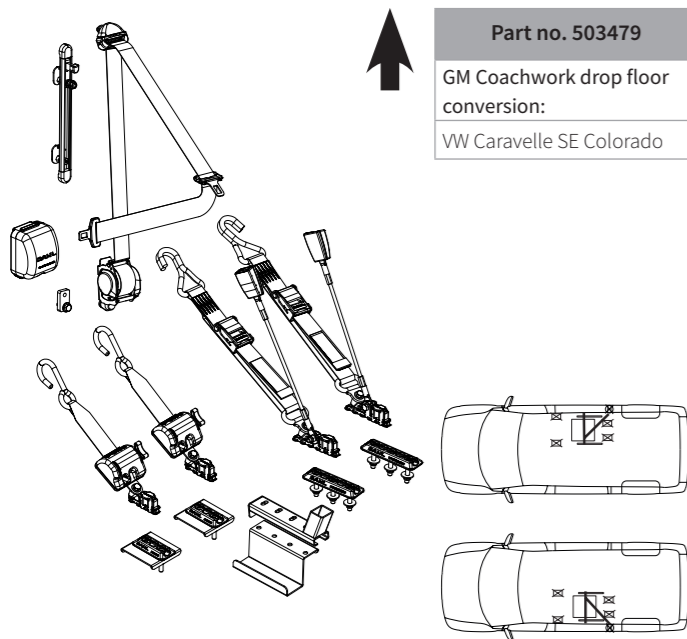
**Part no. 503474**  
 Citroën Jumpy /  
 Space Tourer K0  
 Opel Zafira Life  
 Peugeot Expert / Traveller K0  
 Toyota Proace / Verso 2016-



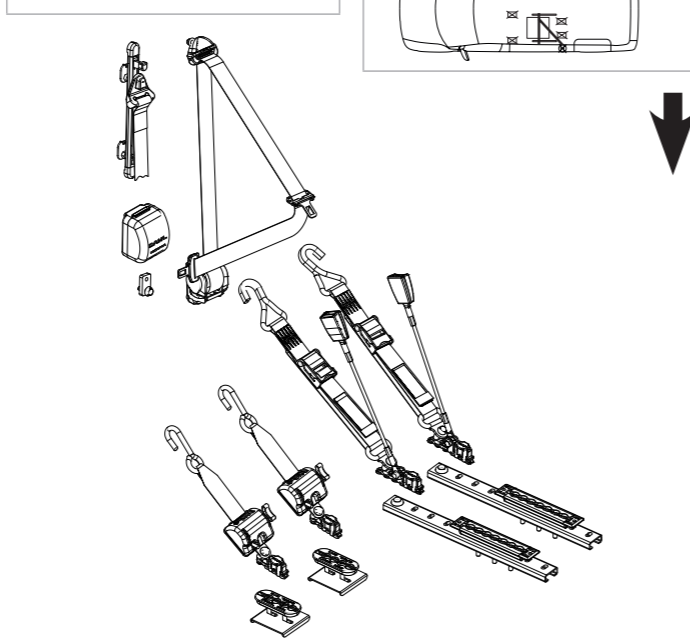
**Part no. 503488**  
 Fiat Talento X82  
 Ford Transit Custom V362  
 Man TGE 2017 --  
 MB Sprinter 906, 907 & 910  
 Nissan NV300 & NV400  
 Opel Movano X62  
 Opel Vivaro X82 & X83  
 Renault Master X62  
 Renault Traffic X82 & X83  
 VW Crafter 2017-  
 VW T5 & T6



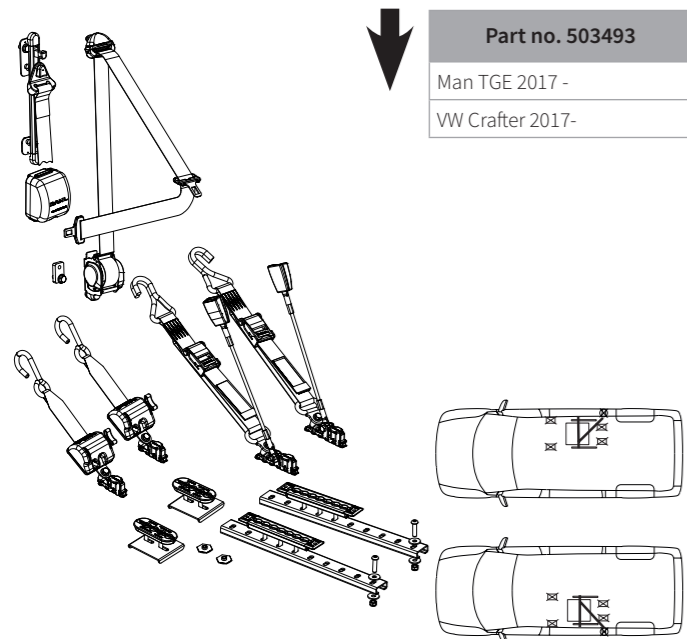
**Part no. 503488**  
 Citroën Jumper Y  
 Fiat Ducato X250  
 Fiat Talento X82  
 Ford Transit Custom V362  
 MB Sprinter 906, 907, 910  
 MB Vito V-Class W639 & W447  
 Nissan NV300 & NV400  
 Opel Movano X62  
 Opel Vivaro X82 & X83  
 Peugeot Boxer Y  
 Renault Master X62  
 Renault Traffic X82 & X83  
 VW T5 & T6



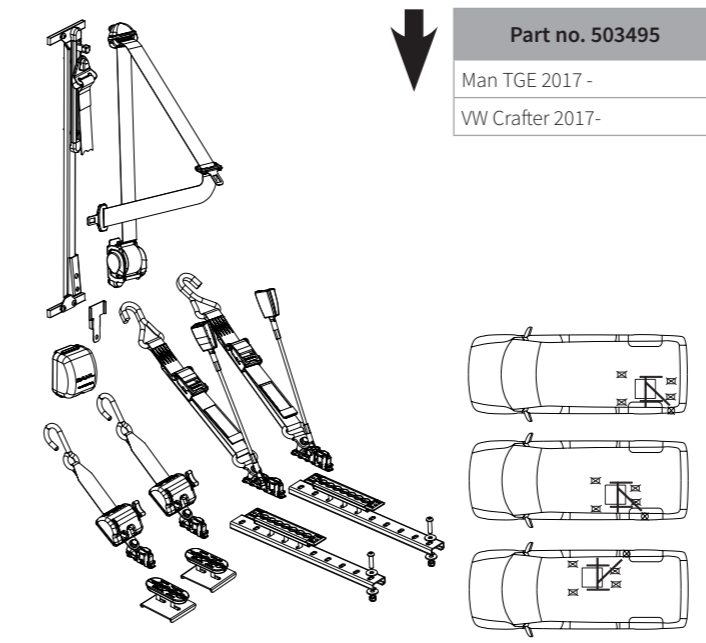
**Part no. 503479**  
 GM Coachwork drop floor  
 conversion:  
 VW Caravelle SE Colorado



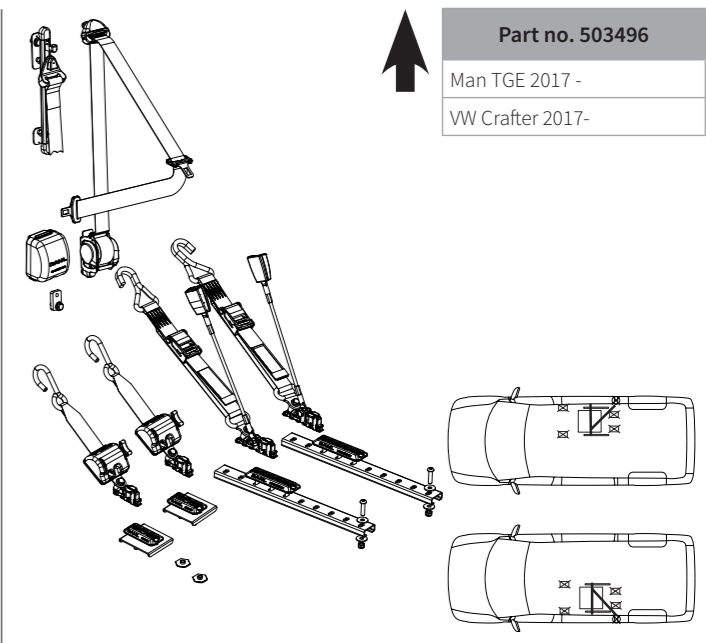
**Part no. 503494**  
 Man TGE 2017 -  
 VW Crafter 2017-



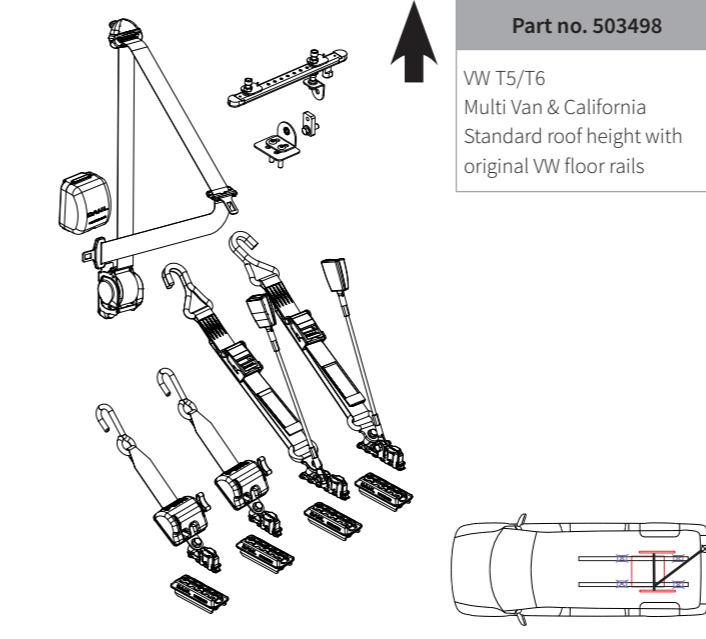
**Part no. 503493**  
 Man TGE 2017 -  
 VW Crafter 2017-



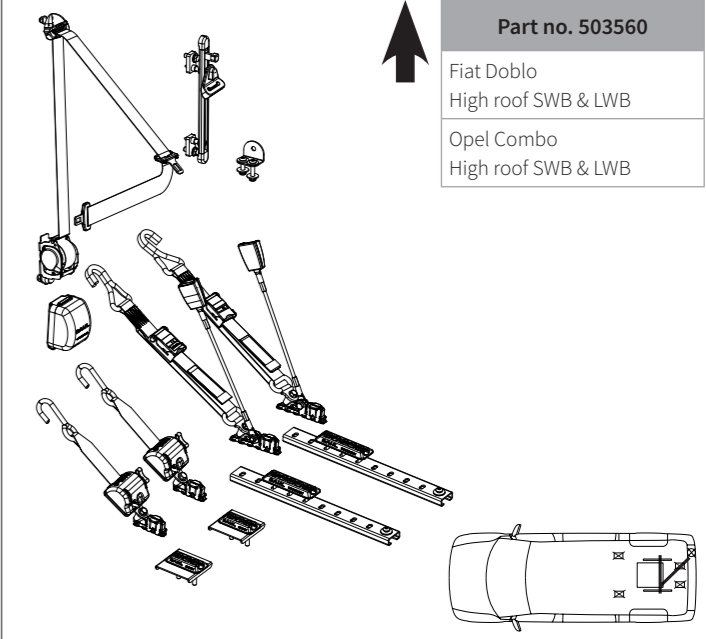
**Part no. 503495**  
 Man TGE 2017 -  
 VW Crafter 2017-



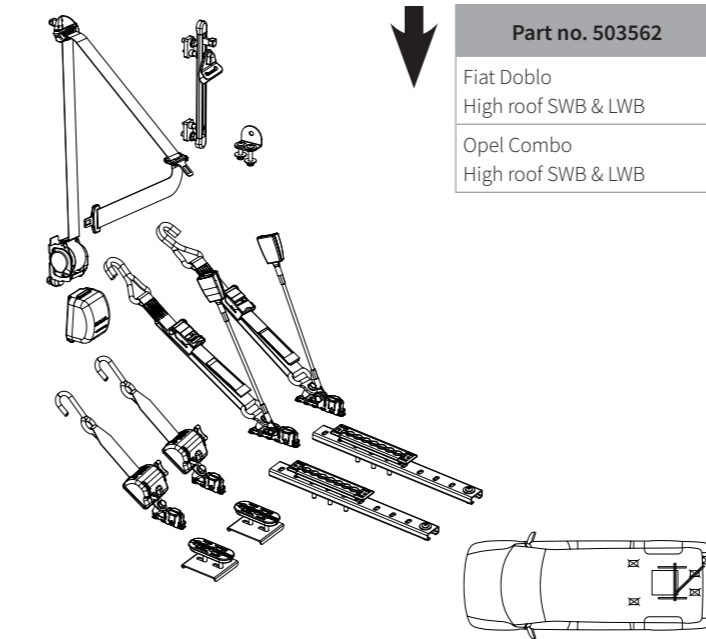
**Part no. 503496**  
 Man TGE 2017 -  
 VW Crafter 2017-



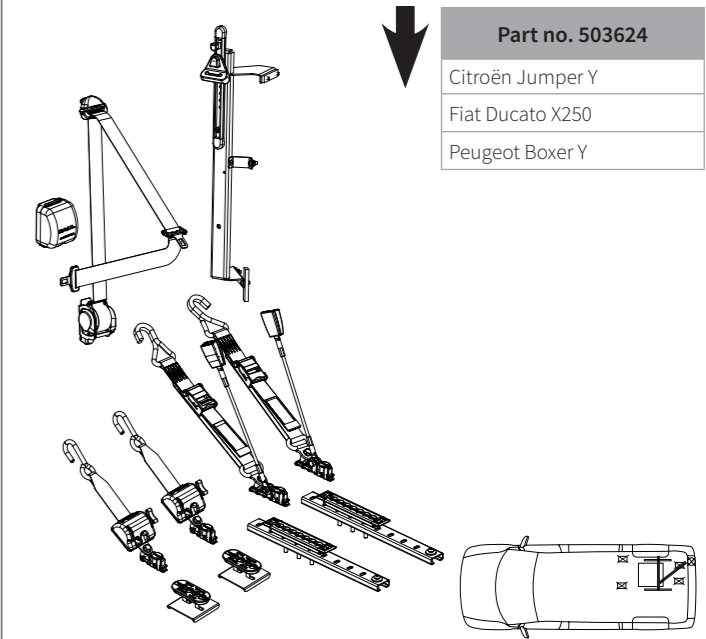
**Part no. 503498**  
 VW T5/T6  
 Multi Van & California  
 Standard roof height with  
 original VW floor rails



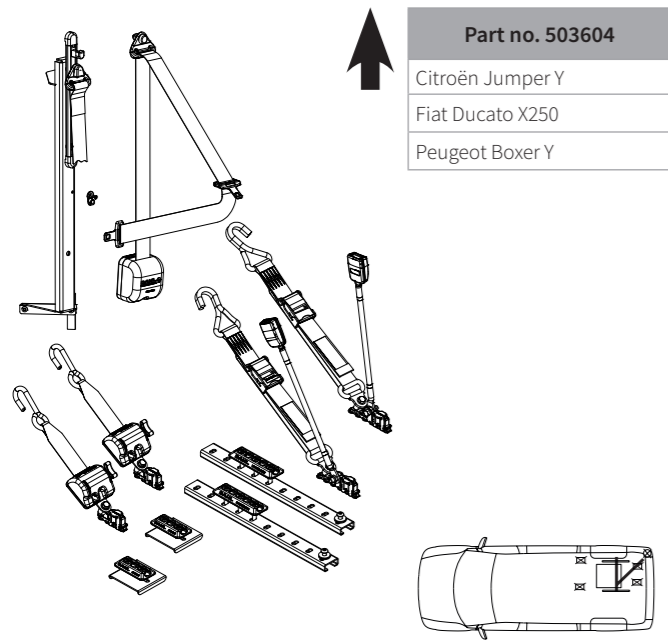
**Part no. 503560**  
 Fiat Doblo  
 High roof SWB & LWB  
 Opel Combo  
 High roof SWB & LWB



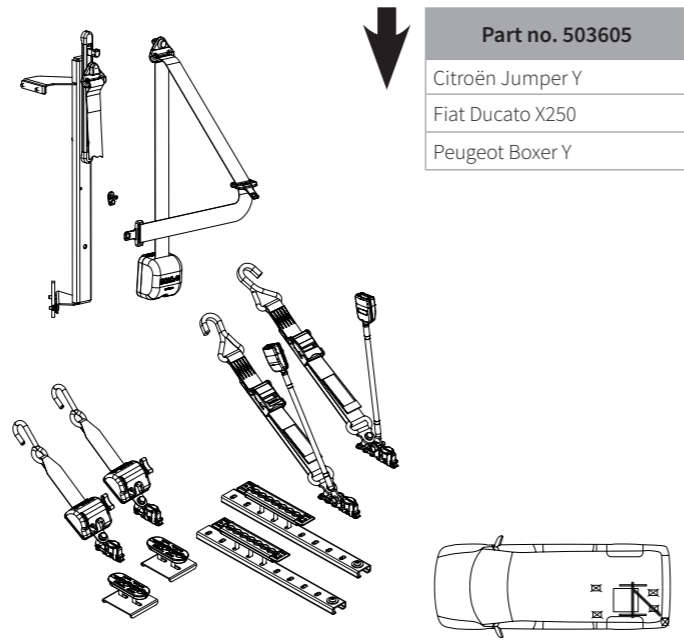
**Part no. 503562**  
 Fiat Doblo  
 High roof SWB & LWB  
 Opel Combo  
 High roof SWB & LWB



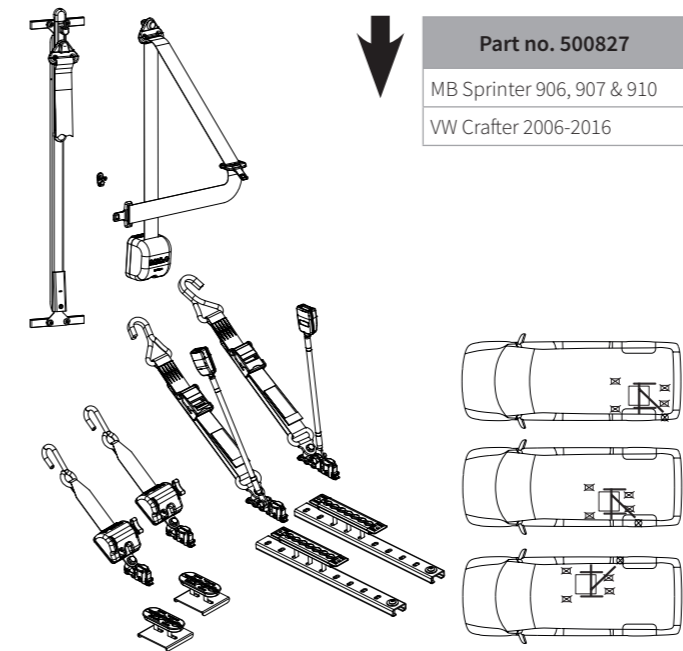
**Part no. 503624**  
 Citroën Jumper Y  
 Fiat Ducato X250  
 Peugeot Boxer Y



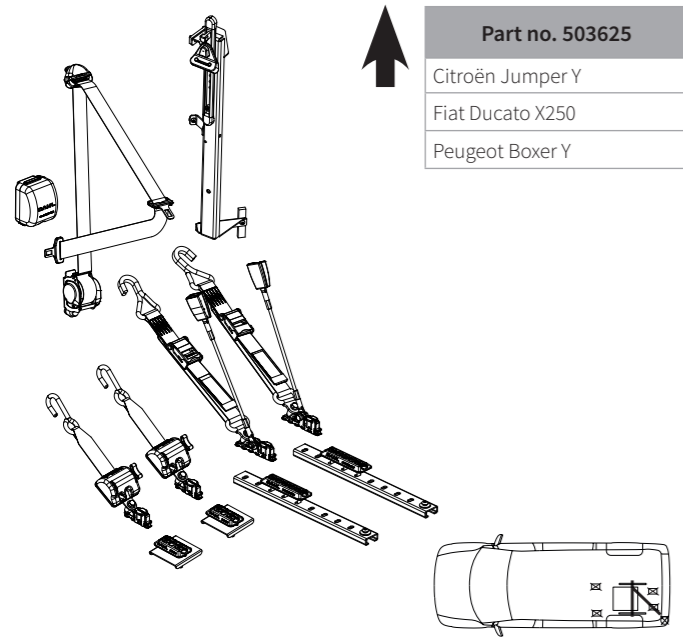
**Part no. 503604**  
 Citroën Jumper Y  
 Fiat Ducato X250  
 Peugeot Boxer Y



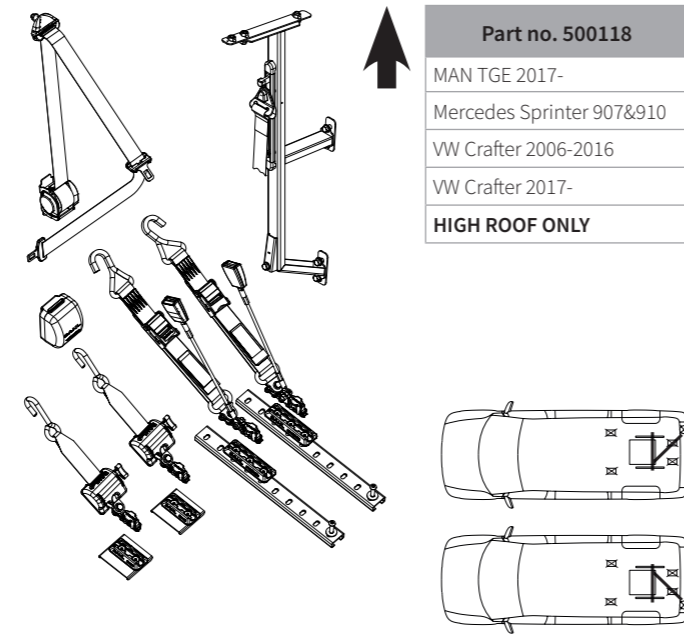
**Part no. 503605**  
 Citroën Jumper Y  
 Fiat Ducato X250  
 Peugeot Boxer Y



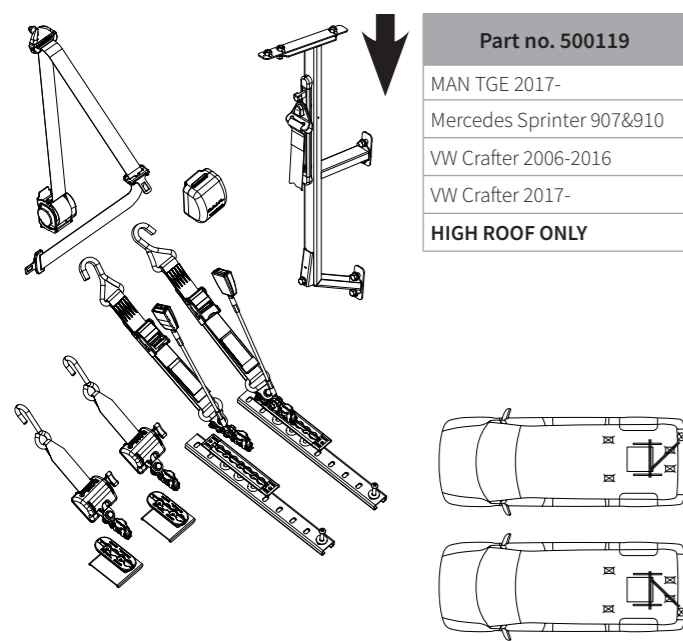
**Part no. 500827**  
 MB Sprinter 906, 907 & 910  
 VW Crafter 2006-2016



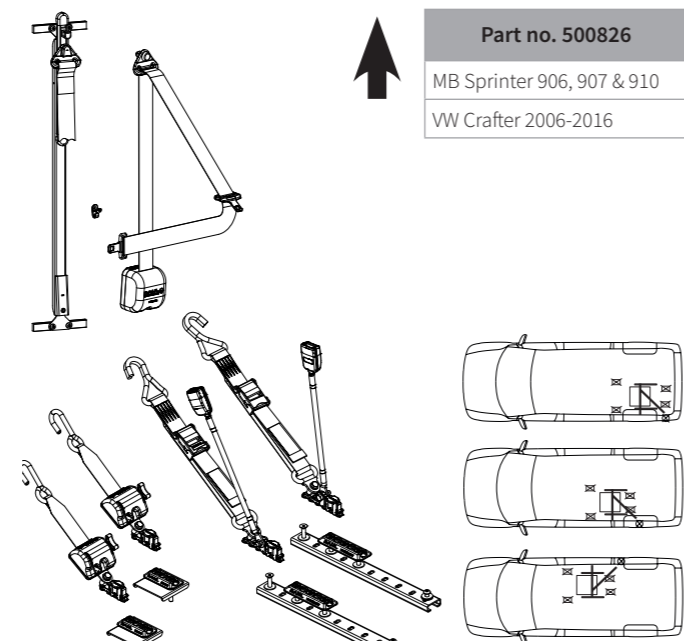
**Part no. 503625**  
 Citroën Jumper Y  
 Fiat Ducato X250  
 Peugeot Boxer Y



**Part no. 500118**  
 MAN TGE 2017-  
 Mercedes Sprinter 907&910  
 VW Crafter 2006-2016  
 VW Crafter 2017-  
**HIGH ROOF ONLY**



**Part no. 500119**  
 MAN TGE 2017-  
 Mercedes Sprinter 907&910  
 VW Crafter 2006-2016  
 VW Crafter 2017-  
**HIGH ROOF ONLY**



**Part no. 500826**  
 MB Sprinter 906, 907 & 910  
 VW Crafter 2006-2016

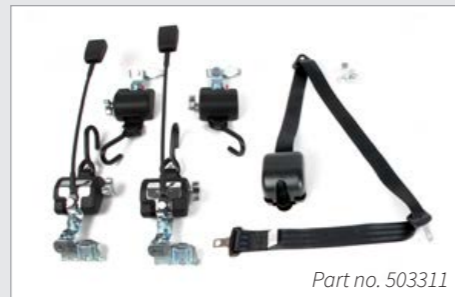
## Spare parts: safety equipment for wheelchair users

## Spare parts: safety equipment for wheelchair users



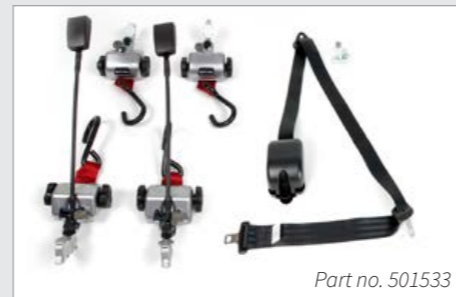
Part no. 502379

EVOLUTION Line: 2x #503158, 2x #503157, 1x #PN500984



Part no. 503311

EVOLUTION Line: 2 x #503411, 2 x #503412, 1 x #PN500984



Part no. 501533

CLASSIC Line: 2x #501536, 2x #501534, 1x #PN500984



Part no. 503172

HEAVY DUTY Line 200kg. 2x #503157, 1x #502360, 1x #502361, 1x #PN500984



Part no. 503157

EVOLUTION Line: Front tie down retractor.



Part no. 503158

EVOLUTION Line: Rear tie down retractor.



Part no. 502360

HEAVY DUTY Line: Rear left tie down strap for 200 kg



Part no. 502361

HEAVY DUTY Line: Rear right tie down strap for 200 kg



Part no. 501780

HEAVY DUTY Line: Left rear tie down strap for 200 kg, without seat belt buckle



Part no. 501781

HEAVY DUTY Line: Right rear tie down strap for 200 kg, without seat belt buckle



Part no. PN500984

3-point seat belt



Part no. PN501761

90 mm <sup>[1]</sup>



Part no. 503412

EVOLUTION Line: Front tie down retractor for rail mounted transverse



Part no. 503411

EVOLUTION Line: Rear tie down retractor for rail mounted transverse



Part no. 503410

EVOLUTION Line: Rear tie down retractor with bracket for lap belt with snap hook



Part no. PN501793

193 mm <sup>[1]</sup>



Part no. PN501794

300 mm <sup>[1]</sup>



Part no. PN501762

450 mm <sup>[1]</sup>



Part no. 501536

CLASSIC Line: Front tie down retractor



Part no. 501534

CLASSIC Line: Rear tie down retractor



Part no. 502005

CLASSIC LINE: Front tie down retractor - for HEAVY DUTY rail across



Part no. 501768

450 mm <sup>[1]</sup>



Part no. 502222

6-stud rail fitting, HEAVY DUTY




Part no. 502004

CLASSIC Line: Rear tie down retractor - for HEAVY DUTY rail across


# Spare parts: safety equipment for wheelchair users

# Cover for safety belt buckle



Part no.	Length
503203	160 mm
503204	200 mm
503205	240 mm
503206	280 mm
503207	320 mm
503208	360 mm
503209	400 mm
503247	520 mm

Wire



Part no.	Length
500080	310 mm 70°
500098	410 mm 70°
500099	470 mm 70°

Flexible wire



Part no. 501844

Rail fitting with 7/16" UNF thread



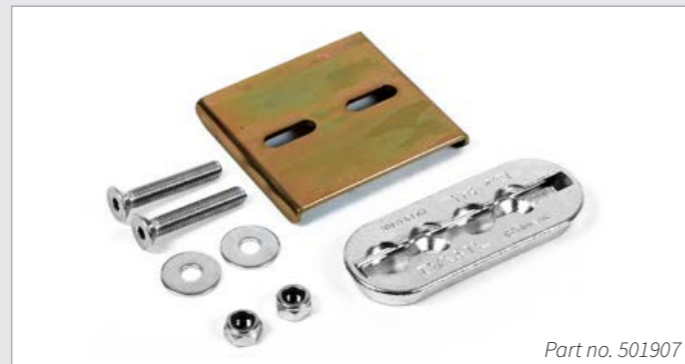
Part no. 501845

Rail fitting with 7/16" UNF thread



Part no. 501906

Stainless steel floor pocket with air-line hole pattern. For mounting on standard vehicle floor



Part no. 501907

Stainless steel floor pocket with air-line hole pattern. For countersinking in vehicle floor



Part no. 503251

Heavy Duty floor pocket with installation kit



Part no. 503254

Heavy Duty flush mounted floor rail with installation kit



Part no. PN500095



Do you recognize the problem of kids or other persons with special cognitive needs, pushing the release button of the seat belt just as quick as you can buckle them up?

This cover for the seat belt buckle, ensures that the user remains securely fastened throughout the ride.

The device prevents a person from being able to use a finger to push the release button.

Only by using a sharp pointed object such as a pen or key, one can release the seat belt by pushing the release button through a small hole in the top of the cover.

The cover fits the majority of original and approved safety belts buckles, and does not affect the safety belt's efficiency in case of a collision.



## WARNING!

This product is only intended for securing a person with disability. Please inquire with the local authorities for approval procedures in your country.

Do not use this product without the authority's approval to use it in your country.



New! Belt cutter for emergency situation is now included.

## Special seat bases for original passenger seats



Seat base for original passenger seat, which provides approx. 10 cm more room for the feet when turning away from the driver's seat with a swivel seat base fitted.



Within the seat base there is space for the original battery or other electrical components.

*Please enquire with regard to the current range.*

- The original passenger seat with seat slides fits the holes in the seat base.
- The seat base is certified with the safety belt buckle fitted on the original passenger seat.
- We supply a complete bolted solution which means that it is not necessary to cut, weld or drill in the floor of the vehicle in order to install the seat base.



Part no. 500990  
Seat base for VW Transporter/ Caravelle T5 / T6



Part no. 502110  
Seat base for Mercedes Vito/V-Class W447

## Cargo Tie-Down Equipment

Retractable Tie-Down System



The world's most convenient Tie-Down

- Permanently mounts with simple one-bolt installation or with track- or floor pocket system for higher flexibility.
- Easy one-hand operation with built-in ratchet.
- Web extends 180 cm and automatically retracts the webbing.
- 1550 kg breaking strength
- Stainless steel springs and coated steel components resist corrosion.

Part no.: 500950 – CargoBuckle



Bolt-on adapters offer added flexibility and mobility for CargoBuckle where permanent installation is not desired



### Angle bracket

Attach to the floor of a truck bed, or the floor or wall of a trailer or van to provide a fixed position tie-down. 30° angle bracket accommodates almost all tie-down applications.



### S-hook Adapter

Vinyl coated S-hook with built-in keeper provides a secure attachment to tie-down points in vans, trucks, trailers and more.



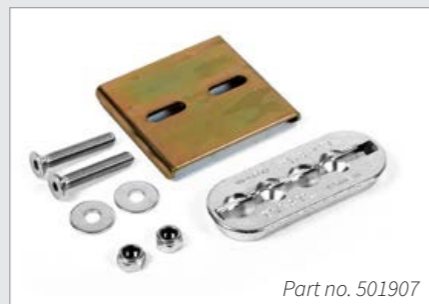
### Rail fittings

With rail fittings, the CargoBuckle can be moved to another position or removed entirely. The rail fitting fits floor rails with air-line hole pattern and Dahl's floor fittings. The CargoBuckle mounted with a rail fitting is designed so that it can rotate to the right and left, thereby turning in the direction of the hook's installation point.



Part no. 501906

Stainless steel floor pocket with air-line hole pattern. For mounting on standard vehicle floor



Part no. 501907

Stainless steel floor pocket with air-line hole pattern. For countersinking in vehicle floor



Part no. 500777

Dahl HEAVY DUTY floor rail



	Part no.	Description
A	500957	S-Hook Adapter
B	501980	Angle Bracket - 30°
C	501845	Rail fitting

## TERMS OF SALE AND DELIVERY for Dahl Engineering ApS & Maskinfabrik Dahl Engineering v/Claus Dahl Pedersen

### 1.0 Contractual basis

1.1 Any agreements and deliveries are subject to these General Terms of Sale and Delivery.

### 2.0 Quotes and Conclusion of contract

- 2.1 The acceptance deadline for one of Dahl's submitted quotes is 15 calendar days.
- 2.2 The final agreement on sale or another service is only concluded upon Dahl issuing a written order confirmation.
- 2.3 The agreement is deemed as concluded on the terms specified in the order confirmation unless the buyer has complained in writing within 5 days of receipt.
- 2.4 Sales literature, descriptions, instructions, price lists, etc., are only indicative and of a non-binding nature.

### 3.0 Prices

- 3.1 If the quoted prices are based on foreign currency, the price is adjusted with (i) currency rate fluctuations, (ii) price increases from suppliers and (iii) changes in shipping rates, all in the period between submission of quotes and issuing the invoice.
- 3.2 For orders under EUR 107,- goods value, a handling charge of EUR 17,- will be added.

### 4.0 Delivery and delays

- 4.1 Delivery is Ex Works Dahl – Thisted and shipping is at the Buyer's risk and expense.
- 4.2 Time of delivery is stated in Dahl's order confirmation.
- 4.3 In the event of a delay, Dahl's liability is limited to the Buyer's documented direct loss, and thus exclusive of lost profits and other indirect losses and also limited to 25% of the purchase price of the delayed delivery.

### 5.0 Payment

- 5.1 The first payment from new Buyers must be made in advance. To the extent that Dahl can obtain credit insurance for the Buyers account, on normal terms, the payment is then due 20 days from the invoice date. 1.5% interest per month started will be added to payments after the due date.
- 5.2 Invoices, account statements etc. will solely be sent in digital format to the e-mail address stated by buyer on the Dahl Engineering registration form for new customers.

### 6.0 Right of ownership

6.1 Dahl retains ownership of the goods sold until the full purchase price is paid.

### 7.0 Complaints and deficiencies

- 7.1 The Buyer shall, immediately upon receipt of the goods at the Buyer's location, make the necessary examination of the delivery.
- 7.2 If the Buyer wants to exercise their right to complain of defects or deficiencies with the delivery, the Buyer shall immediately upon discovery of the defect or when they should have been discovered, provide Dahl with written notification thereof and the report must include an itemised statement of the nature of the defects. If the Buyer fails to complain as specified, the Buyer cannot later validate the complaint.
- 7.3 In any event, the complaint shall be made in writing to Dahl no later than 6 months after delivery, and the Buyer cannot make the deficiencies apply in the event of a later complaint.

### 8.0 Limitation of liability

8.1 In the event that there might be actionable defects or deficiencies with Dahl's delivered products, Dahl's liability is limited to remedy the deficiencies as long as the deficiencies can be remedied hereby and/or replacement or compensation is maximised to the invoiced amount, according to Dahl's choice.

8.2 Dahl is not, to a greater extent than indicated above, obligated to compensate any form of additional direct or indirect loss, including consequential loss and loss of profit.

8.3 Dahl does not incur any liability if the installation instructions and other manuals and instructions are not complied with, or if the products are installed in vehicles that are not approved for installation by Dahl at the time of installation.

### 9.0 Product liability

- 9.1 Dahl's liability for personal injury can never exceed the at any time applicable levels of compensation under Danish law.
- 9.2 Dahl's product liability for property damage amounts to a maximum of DKK 1,000,000 per claim. A claim is defined as any damage caused by the same fault or negligence. The monetary limit does not apply in cases of gross negligence disclaimed by Dahl.
- 9.3 Dahl is not liable for operation losses and loss of profit or other indirect loss.
- 9.4 Dahl does not incur product liability if the installation instructions and other manuals and instructions are not complied with, or if the products are installed in vehicles that are not approved for installation by Dahl at the time of installation.
- 9.5 To the extent Dahl incurs liability to third parties; the Buyer is obliged to keep Dahl indemnified to the same extent as Dahl's liability is limited by these terms of sale and delivery.
- 9.6 If a third party raises a claim relating to product liability against either Dahl or the Buyer, the parties are mutually obliged to inform each other about this, and the parties are mutually obligated to have a suit filed at the court where a case is brought against either party involving alleged product liability regarding the Dahl products sold, just as the interrelation between the parties can be settled by the named court.

### 10.0 Intellectual property rights

10.1 Dahl is unable to make the Buyer liable for infringement of third party rights. In case of violation, Dahl is entitled to (i) change, replacement without impairment of the good's purpose and performance, (ii) repurchase the goods at the invoice price, with a deduction for impairment, or (iii) to secure the right of the Buyer to continue use. The Buyer must notify Dahl of all such claims, and to the extent that the claim has implications for Dahl, Dahl is entitled to make a case on their own and the Buyer's behalf.

### 11.0 Returns

- 11.1 Deliveries can only be returned in exceptional cases and only after agreement. Goods that may be specially produced or purchased for the Buyer may in no case be returned.
- 11.2 Approved returns will be credited less 20% of the sales price excl. VAT on paid delivery, and undamaged, to Dahl's stock or another place specified by Dahl.

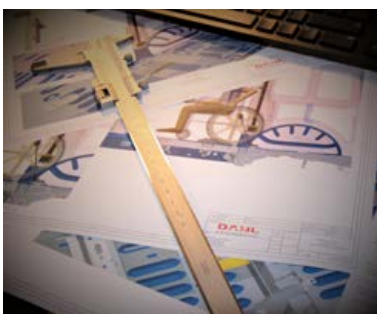
### 12.0 Force majeure

12.1 Dahl is not liable for an otherwise actionable lack of contractual fulfilment of the agreement if it is justified by a labor dispute, fire, war, military conscription, confiscation, currency restrictions, lack of means of transportation or other similar circumstances that was not reasonably foreseeable to Dahl at the time of the conclusion of the agreement, including that the mentioned or similar circumstances effect subcontractors used by Dahl.

### 13.0 Applicable law and jurisdiction

- 13.1 All disputes between Dahl and the Buyer shall be settled by the Western High Court in Holstebro, and in accordance with Danish law.
- 13.2 However, Dahl is entitled to choose that disputes are instead settled by arbitration at the Danish Institute of Arbitration under the rules applicable to the process of arbitration.

# WHERE SAFETY STARTS



Photo\*: Page.1+30 - ACA France

Tilde Grafisk



Development and crash-test centre  
Where safety starts

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