

Your Cool Partner

**Auto
Cool** IND. LTD.

**Mercedes Sprinter
Models : 907 & 910**



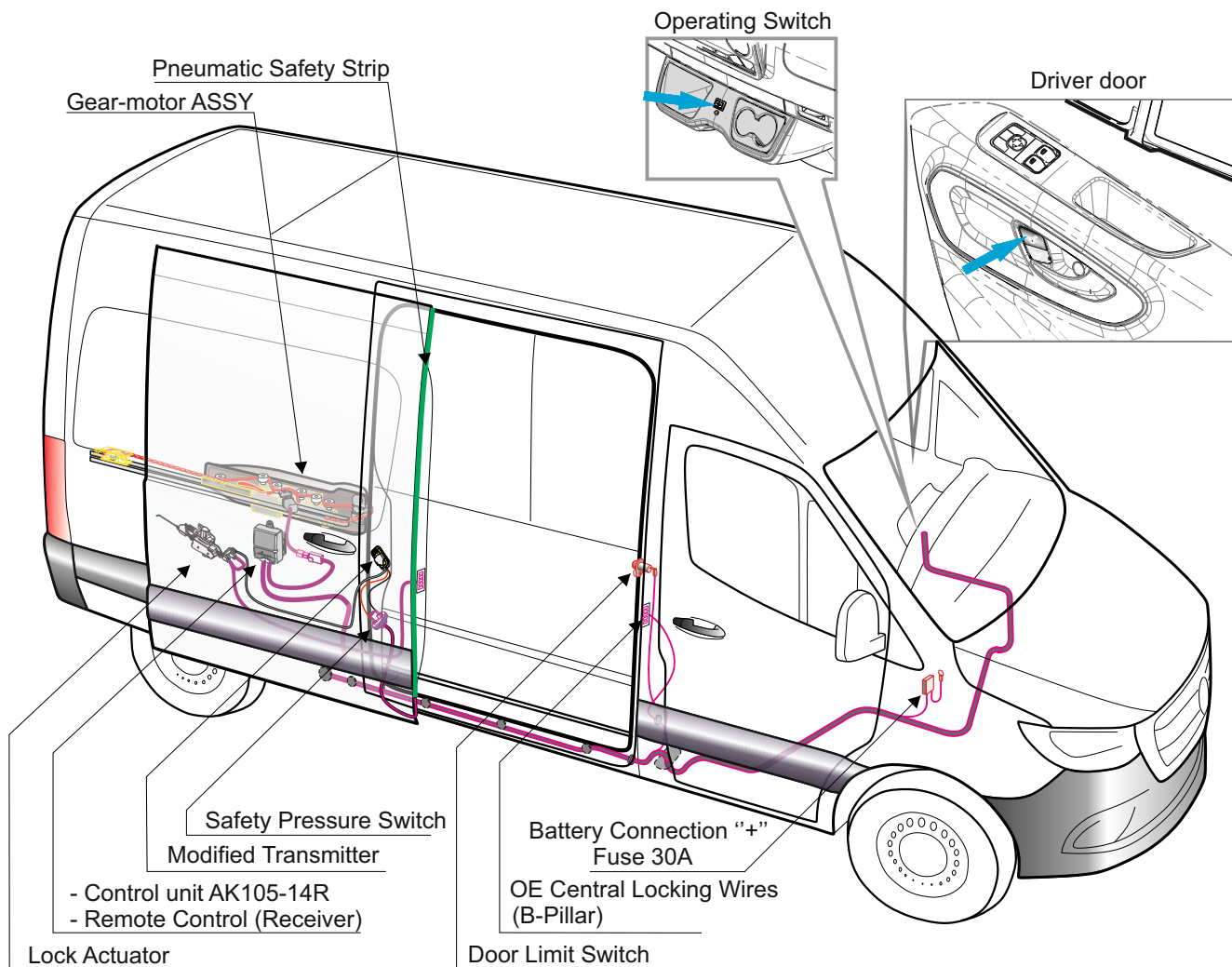
ASD Automatic Sliding Door

015-1903-DL

L2 standard (wheelbase-3.665)

L3, L4 long and super long (wheelbase-4.325)

[PRINT THE INSTRUCTIONS WITH COLOR](#)



Remote control (Use the button with opening symbol only)



Short pressing-fully opens/closes the door .
The remote control is being inoperative while turning on the ignition.

Button on the Dashboard



Short pressing-fully opens/closes the door .
Continuously pressing (semi-automatic mode)- opens the door until the button is released.

Button on the driver door (use the button with opening symbol only)

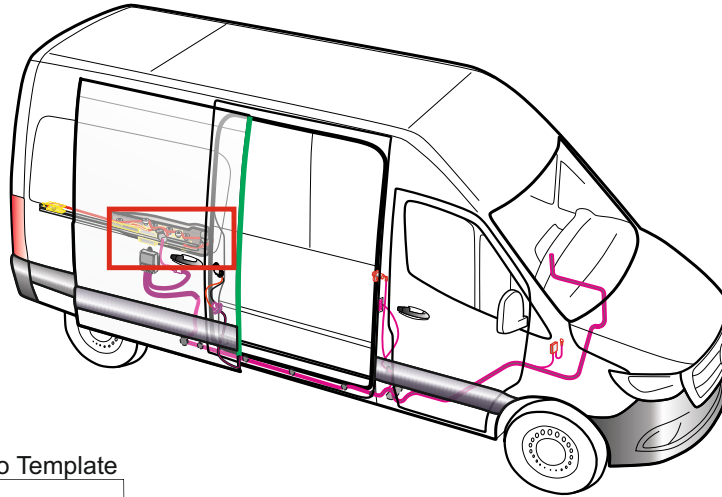


Short pressing-fully opens/closes the door .

*The system is inactivated while the vehicle exceeds speed of 5km/h

Attention!

1. While activating the system to open/close, do not force it to the opposite direction of its motion.
2. Do not connect at any time the "Gear Motor" directly to the battery!!!
It must be connected through the supplied electric system and control box.
Operating not as indicated, may break the gear motor, thus not covered by our warranty.

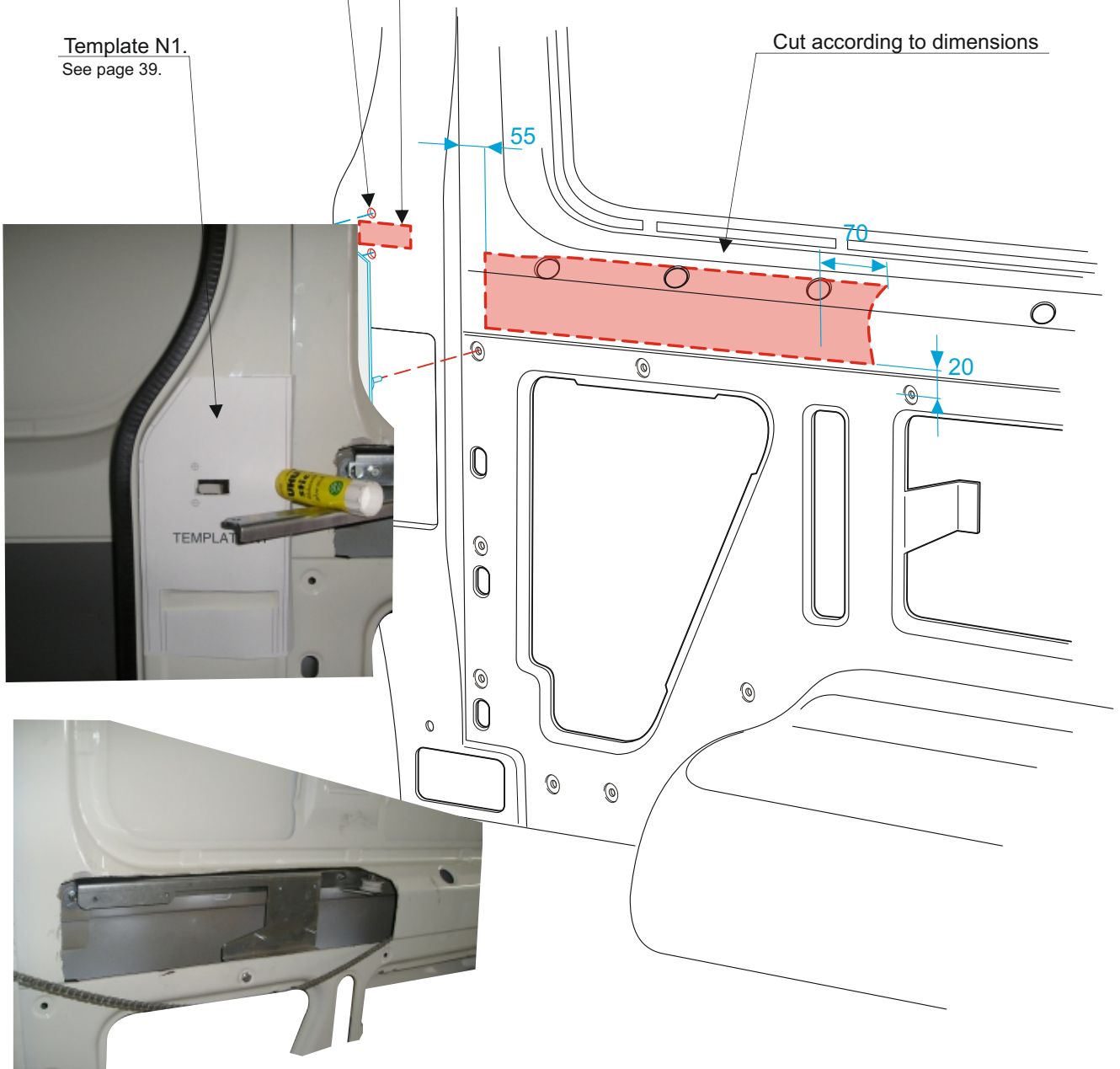


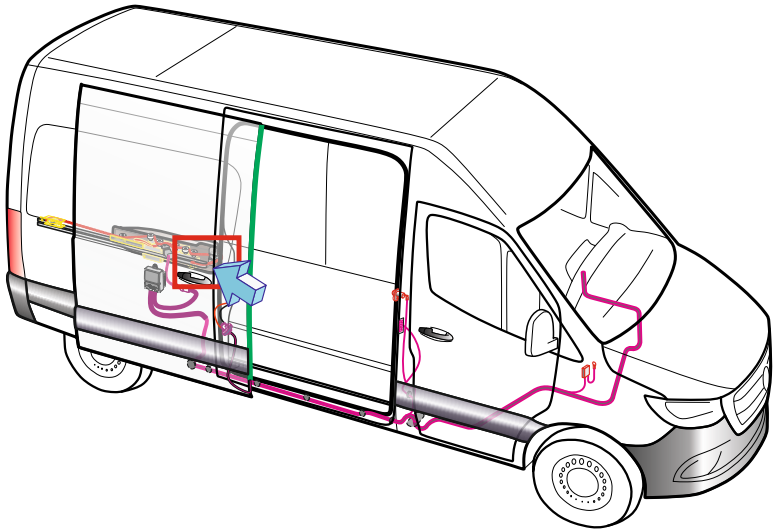
Cut according to Template

Drill $\varnothing 7$ (x2)

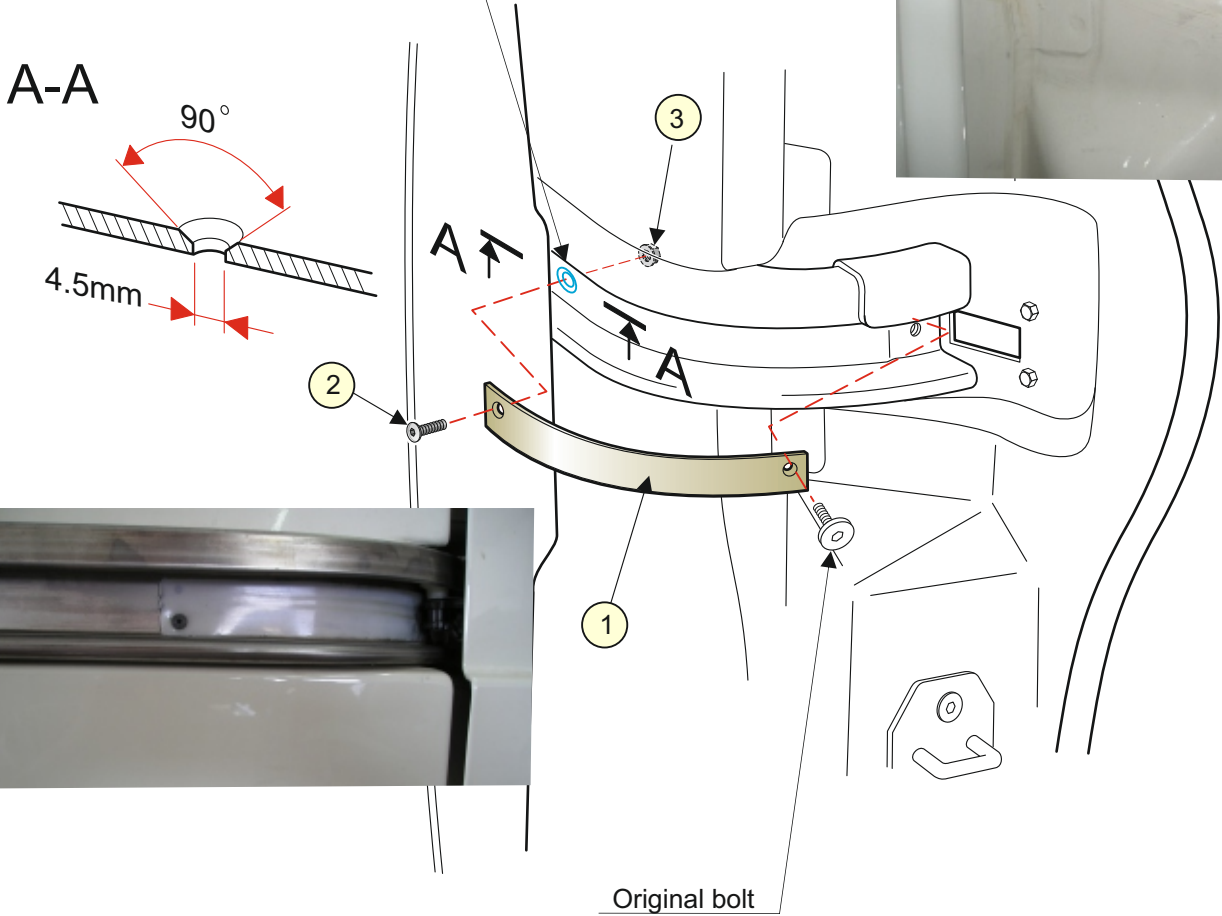
Template N1.
See page 39.





Cut according to dimensions

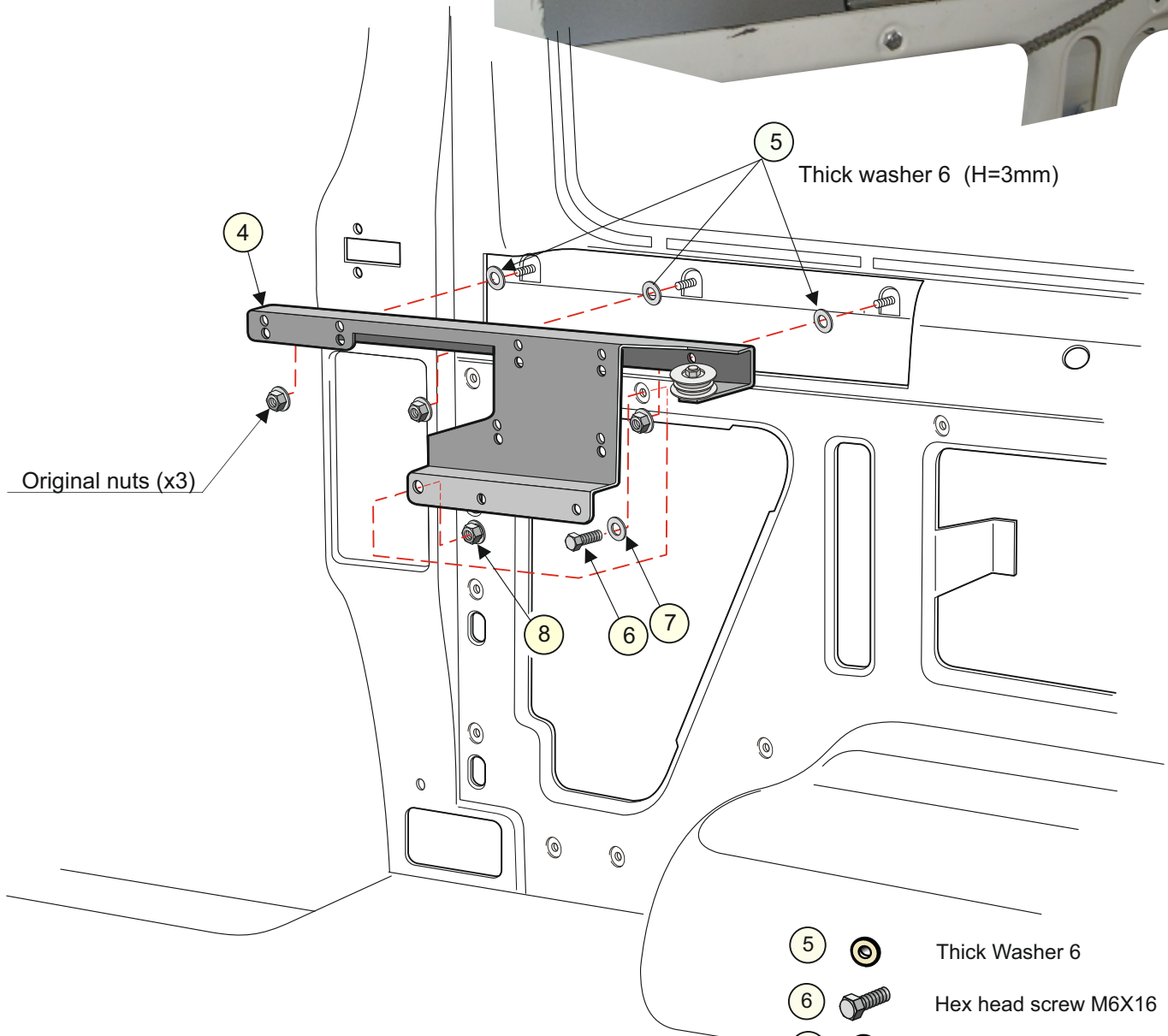
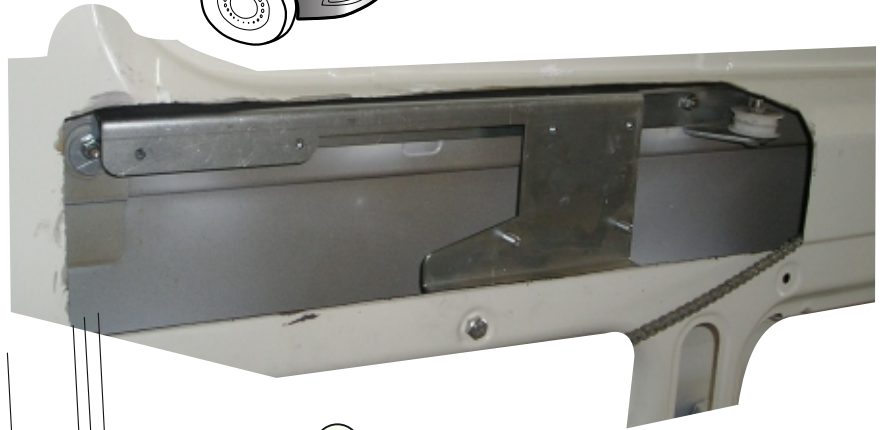
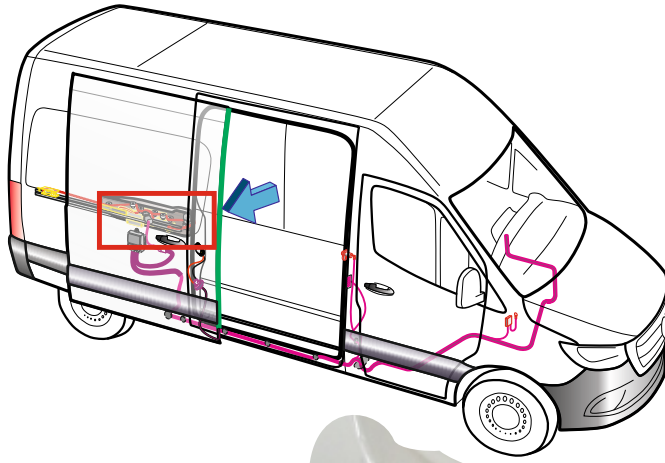








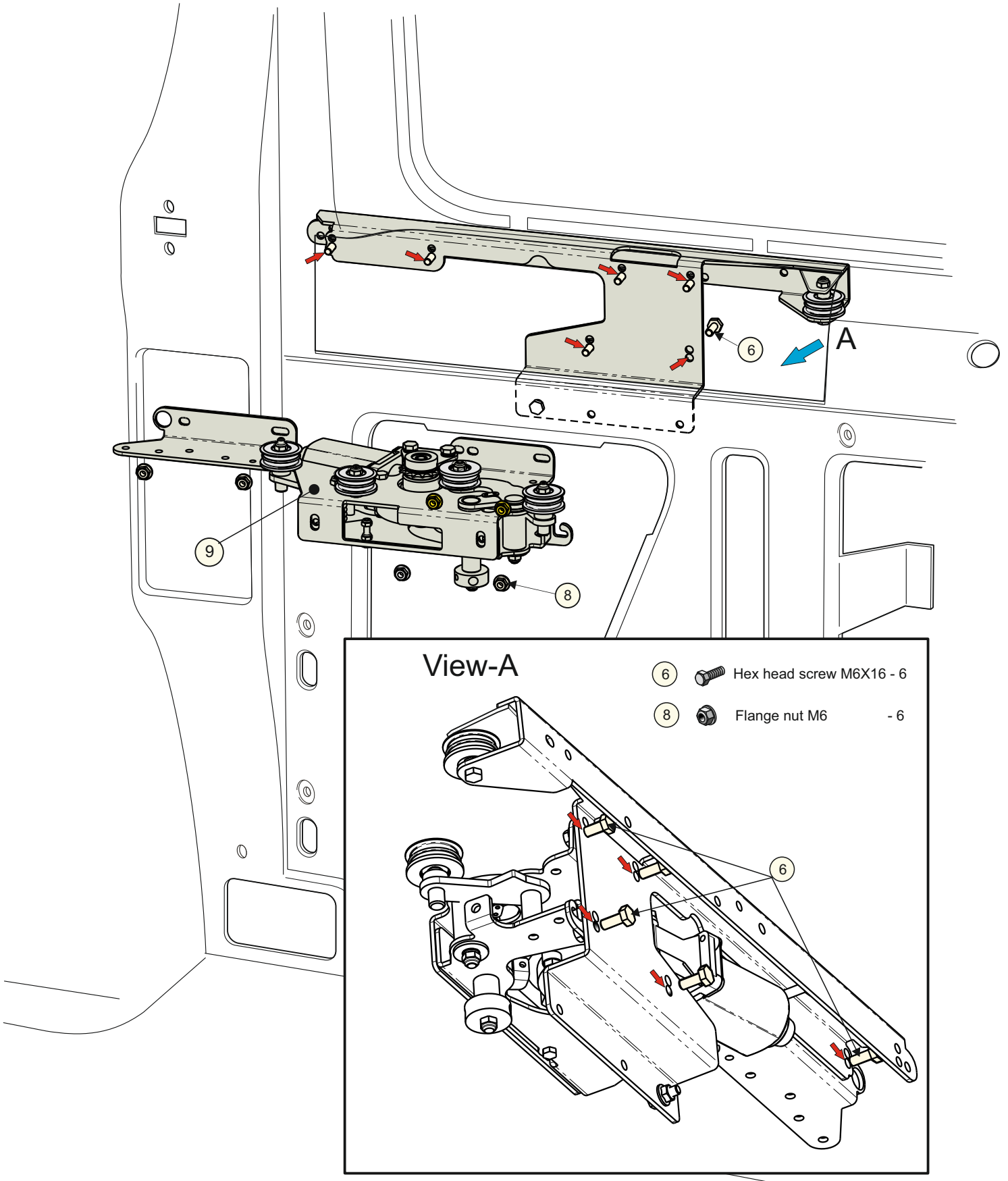
Drill $\varnothing 4.5$ according to detail (25)

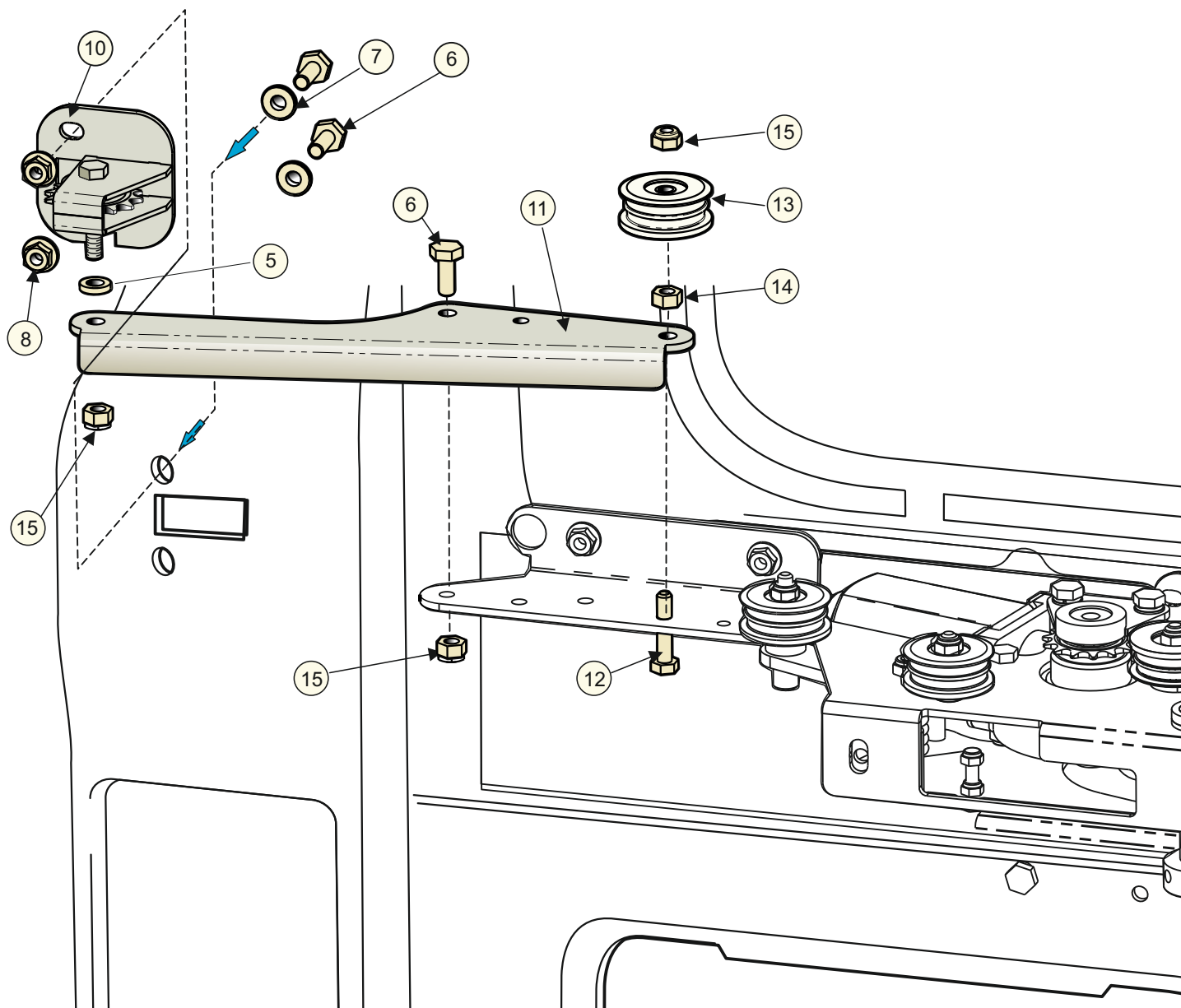








-   Socket flat head screw M4X20 - 1
-   Lock nut M4 - 1



- | | | | |
|---|---|----------------------|-----|
| 5 |  | Thick Washer 6 | - 3 |
| 6 |  | Hex head screw M6X16 | - 1 |
| 7 |  | Washer 6 | - 1 |
| 8 |  | Flange nut M6 | - 1 |

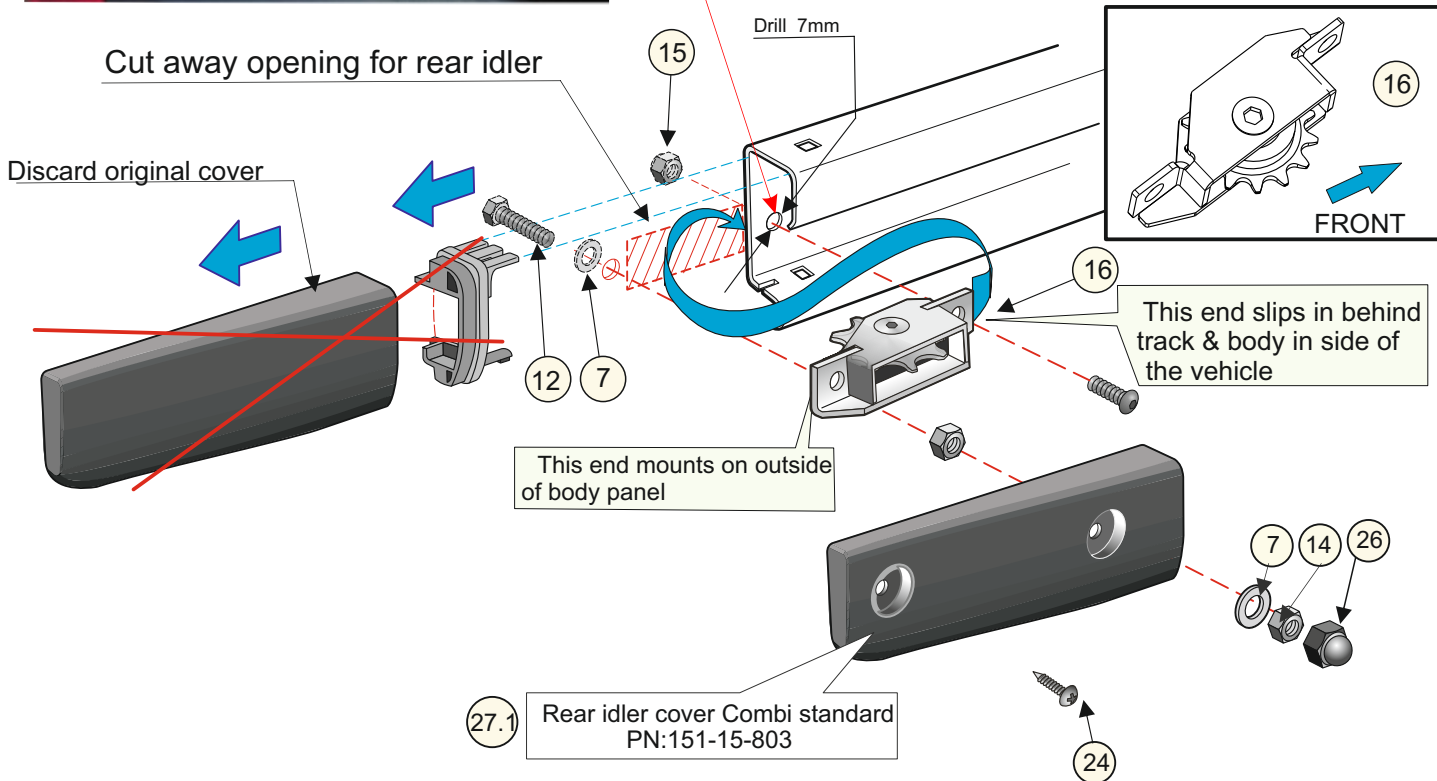
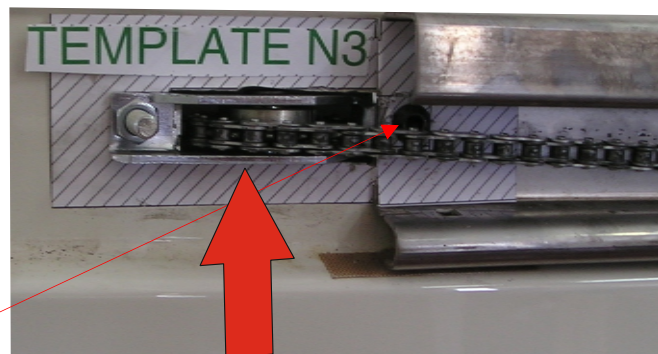




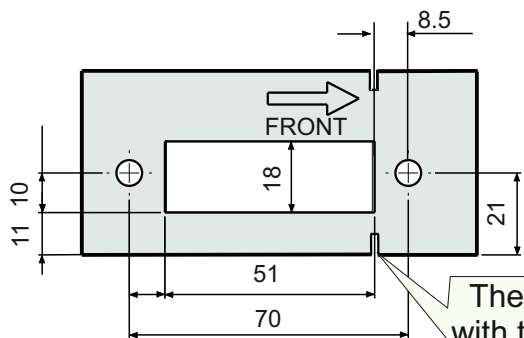
		QTY
6		Hex head screw M6X16 - 3
5		Washer 6 - 2
8		Flange nut M6 - 2
12		Hex head screw M6X30 - 1
14		Nut M6 - 1
15		Lock nut M6 - 3

Kombi standard (wheelbase-3.665)

PN: 015-0003



Template N3
See page 40.

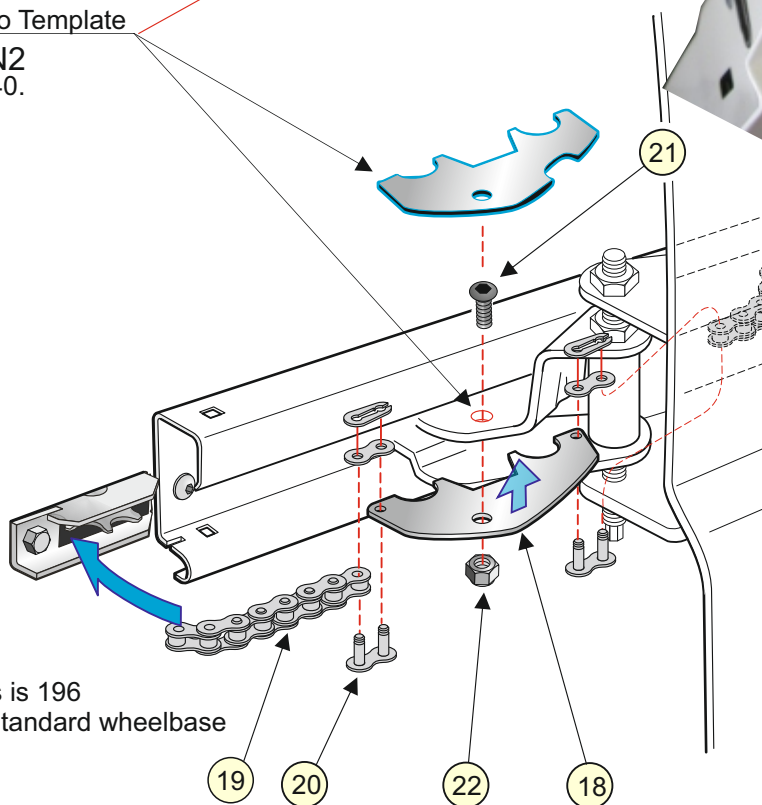


17		Socket button head screw M6X16	- 1
7		Washer 6	- 2
15		Lock nut M6	- 2
12		Hex head screw M6X30	- 1
14		Nut M6	- 1
26		Nut's Plastic Cover	- 1
24		Philips screw 5/8"	- 1

Kombi standard (wheelbase-3.665)
PN: 015-0003




Drill $\varnothing 5$ according to Template
Template N2
See page 40.



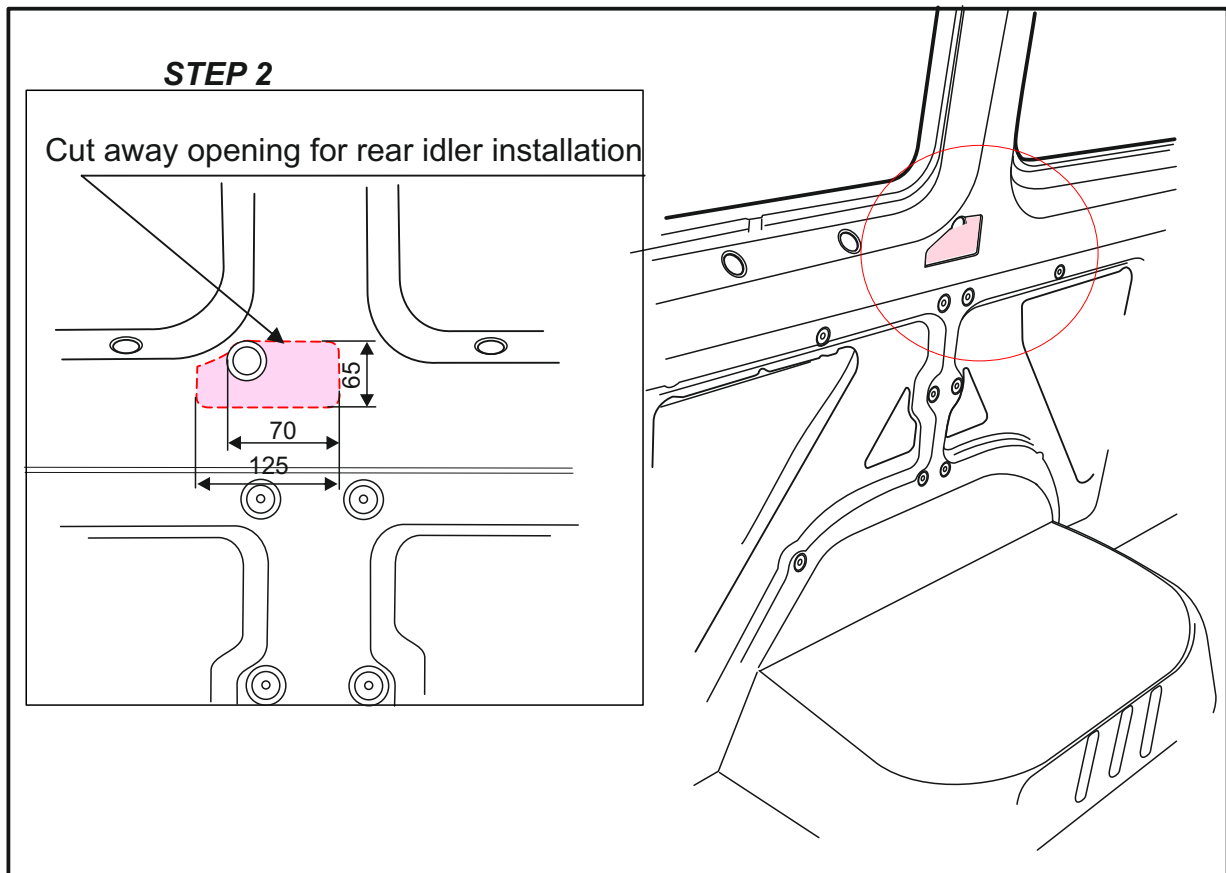
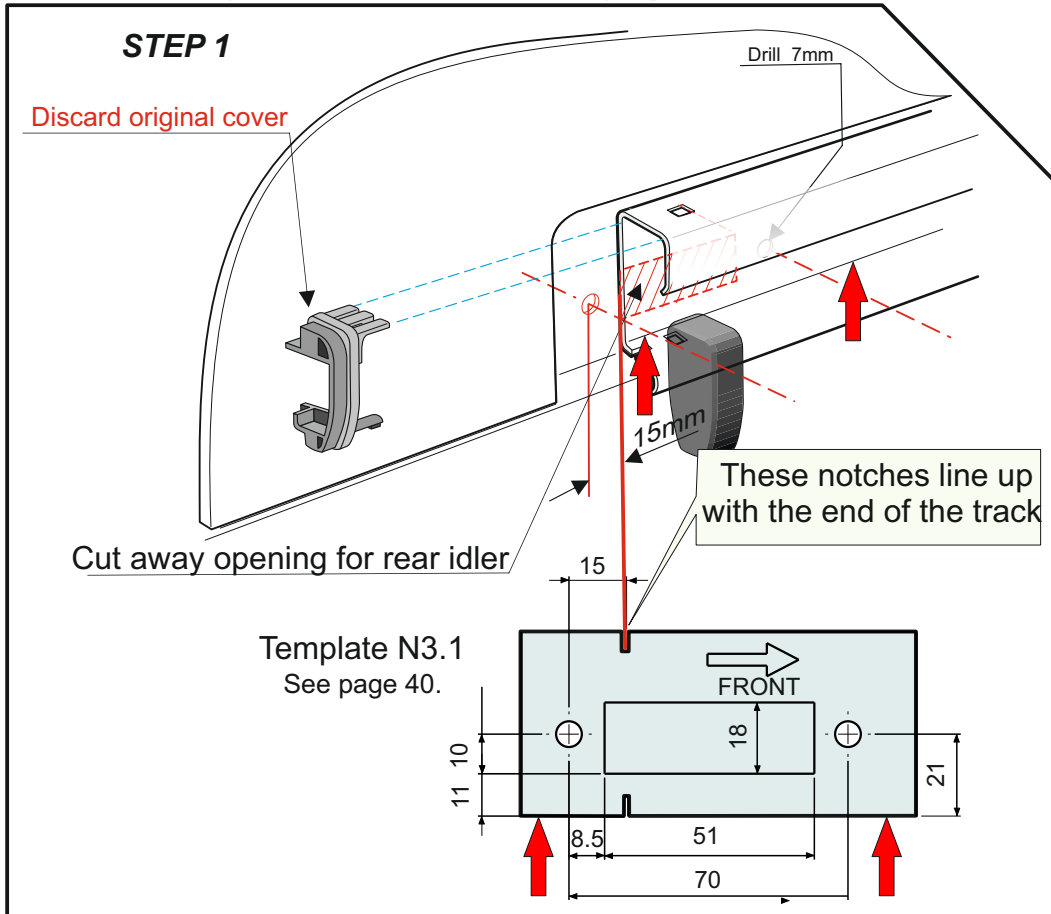
Note
Number of chain links is 196
(for vehicles: Kombi standard wheelbase
and Delivery van)



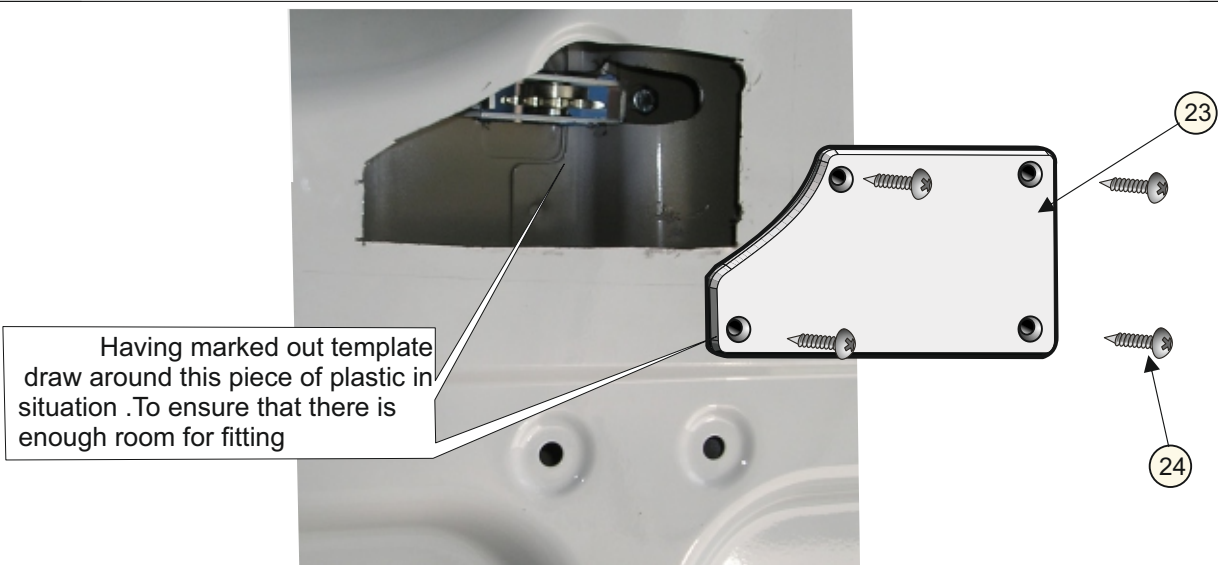
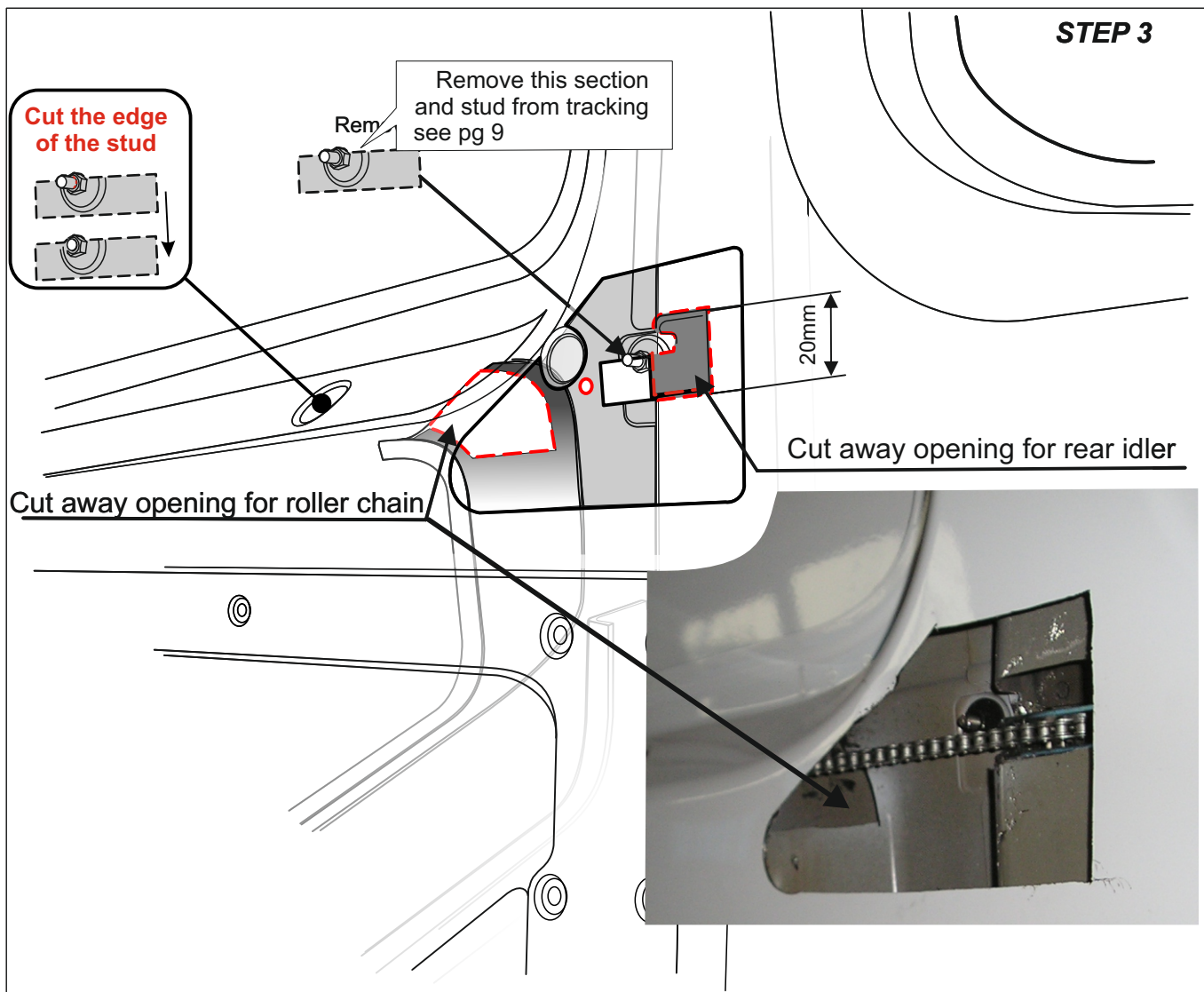
(21)  Socket button head screw M5X16 - 1

(22)  Lock nut M5 - 1

Kombi long and super long (wheelbase-4.325)

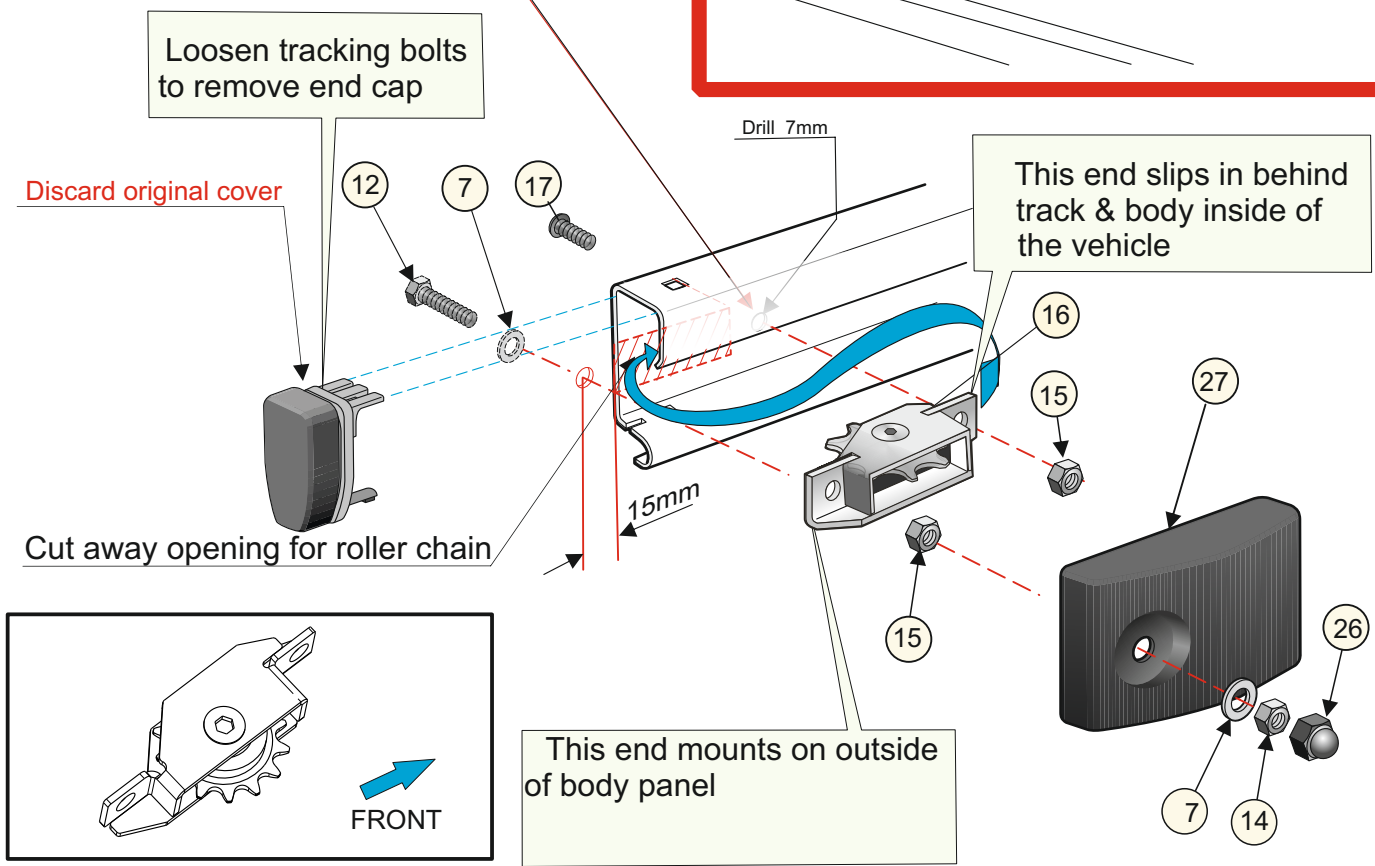
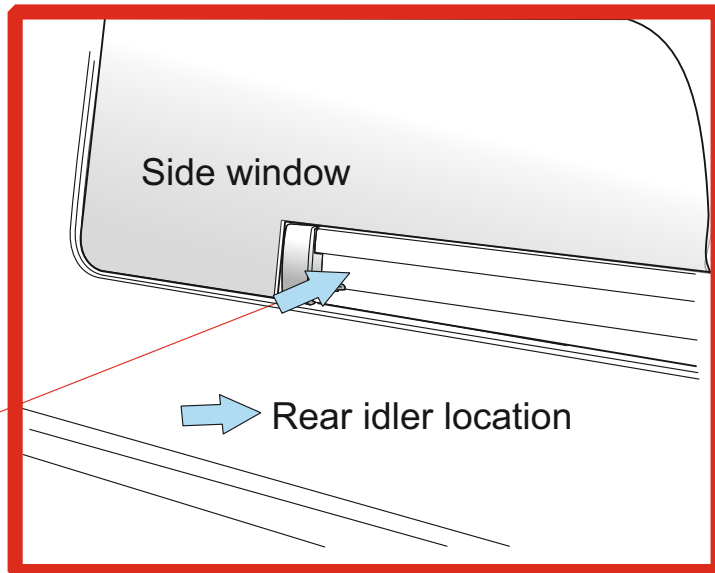


Kombi long and super long (wheelbase-4.325)



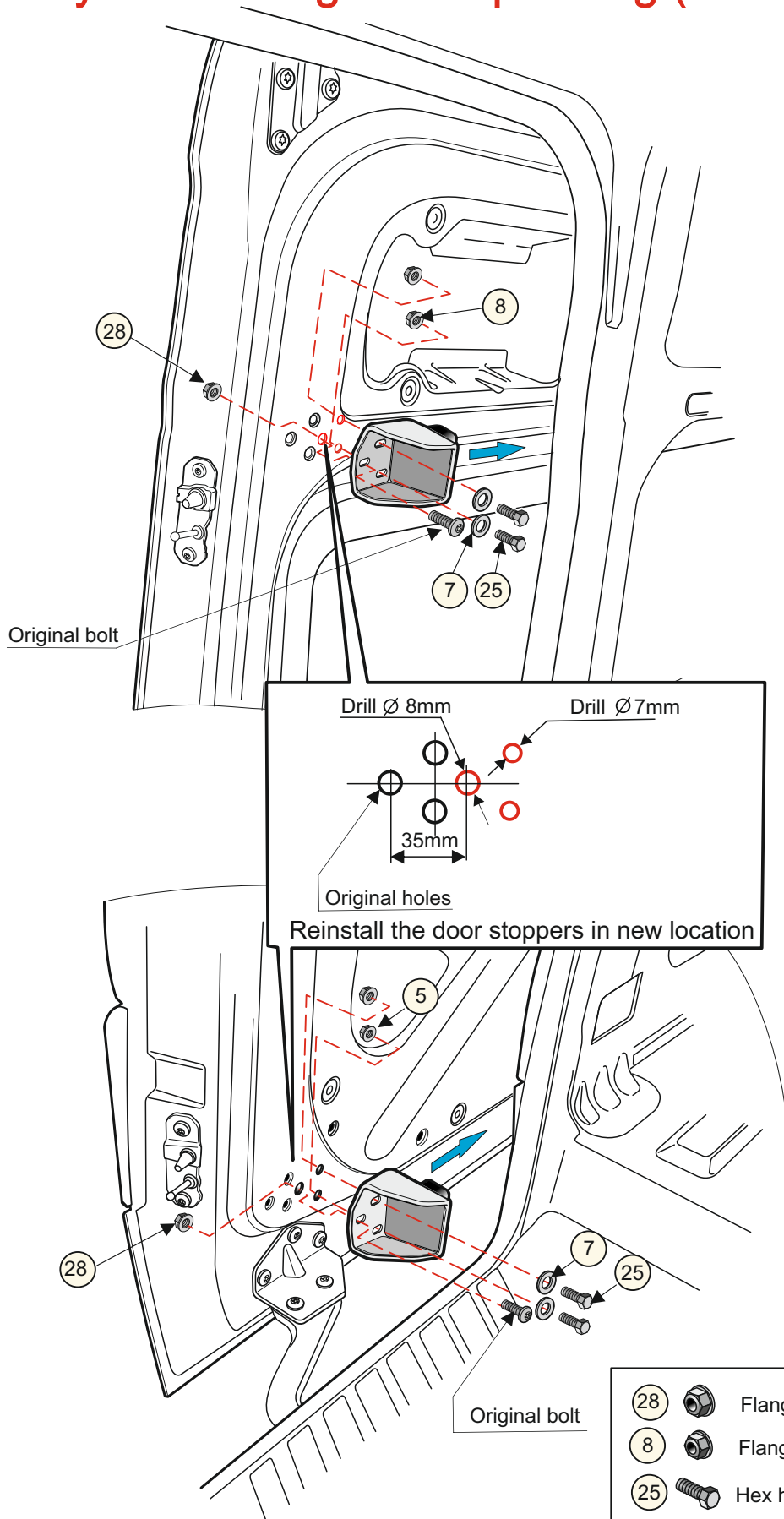
Kombi long and super long (wheelbase-4.325)

STEP 4



17		Socket button head screw M6X16	- 1
7		Washer 6	- 2
15		Lock nut M6	- 2
12		Hex head screw M6X30	- 1
14		Nut M6	- 1
26		Nut's Plastic Cover	- 1

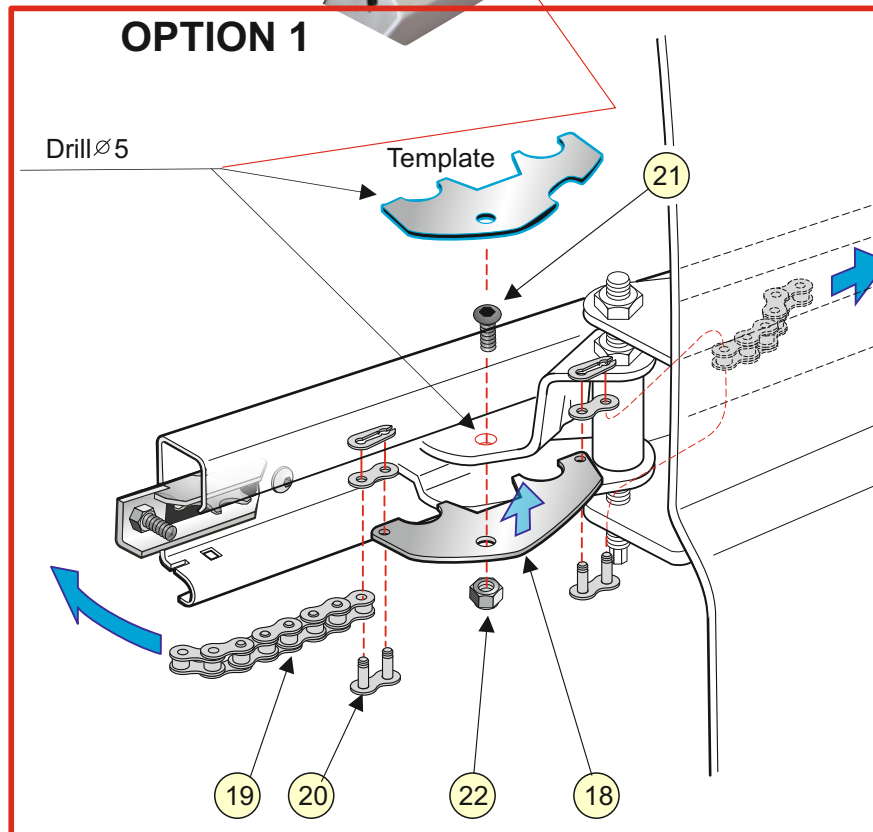
Only Kombi long and super long (wheelbase-4.325)



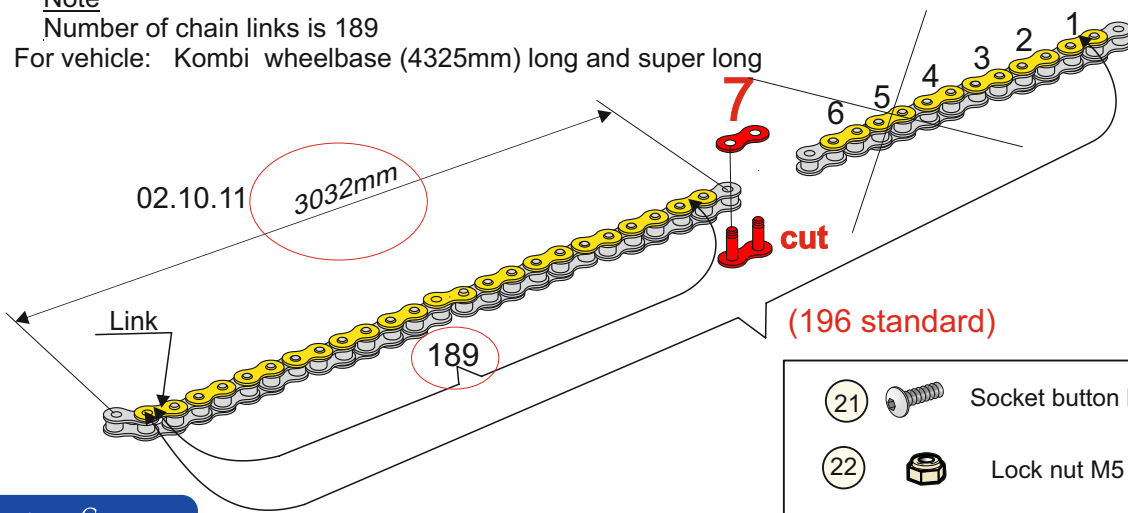
28		Flange nut M8	- 2
8		Flange nut M6	- 4
25		Hex head screw M6X25	- 4
7		Washer 6	- 4

Kombi long and super long (wheelbase-4.325)

Do not separate the cart from the door
Drill the hole on the spot

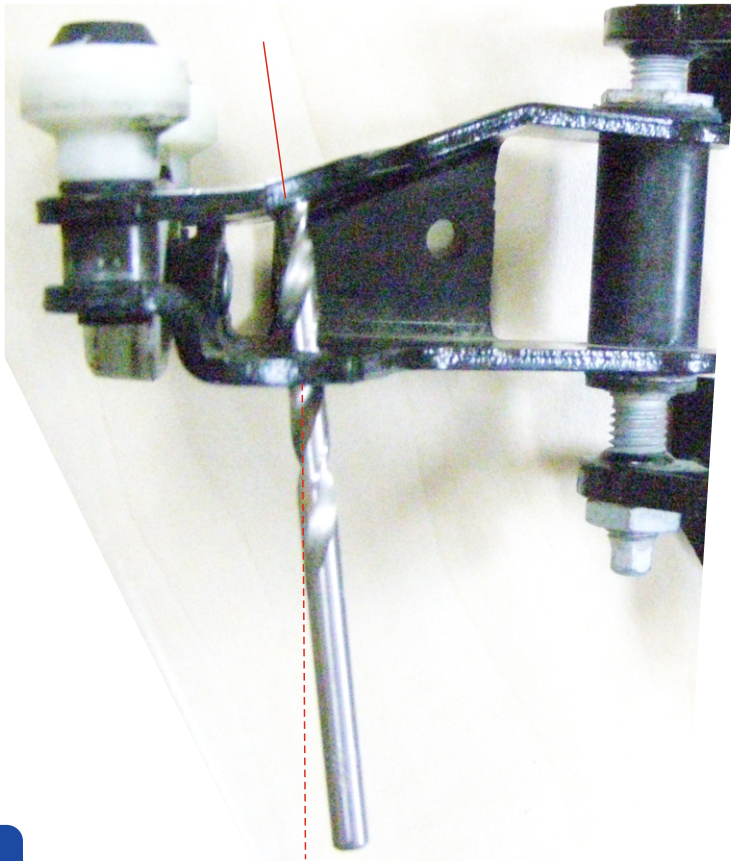
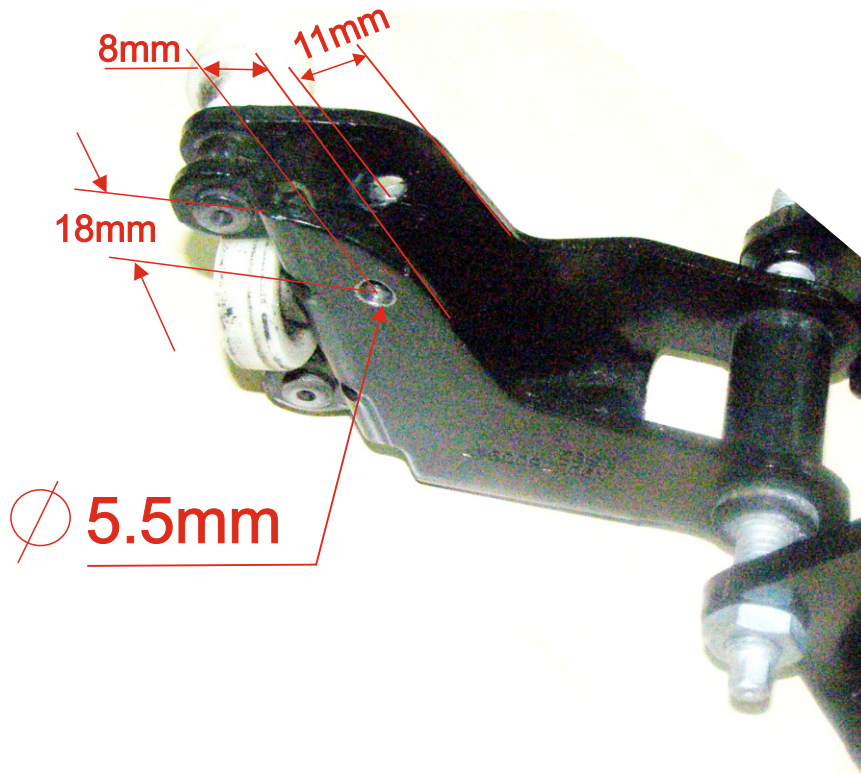


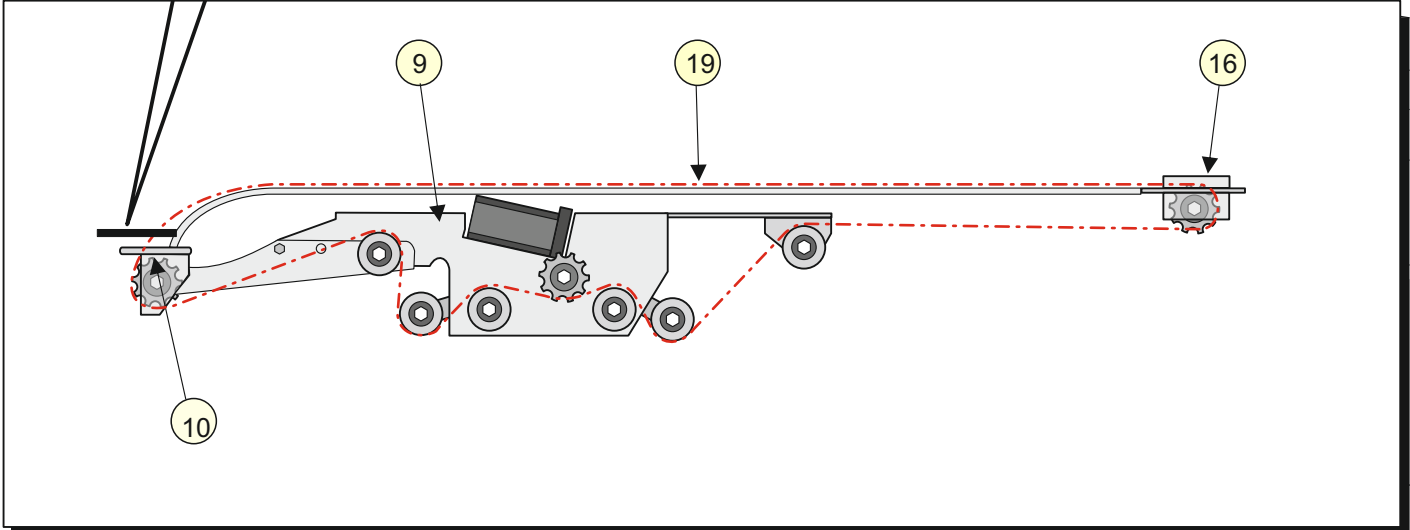
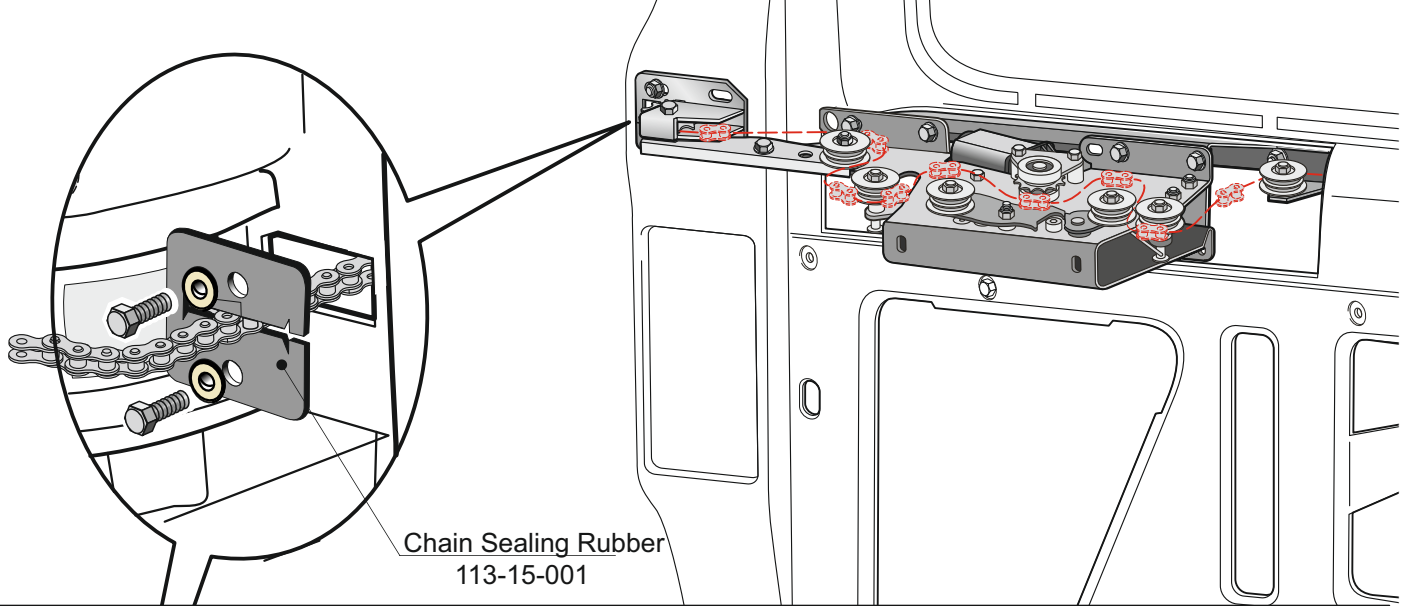
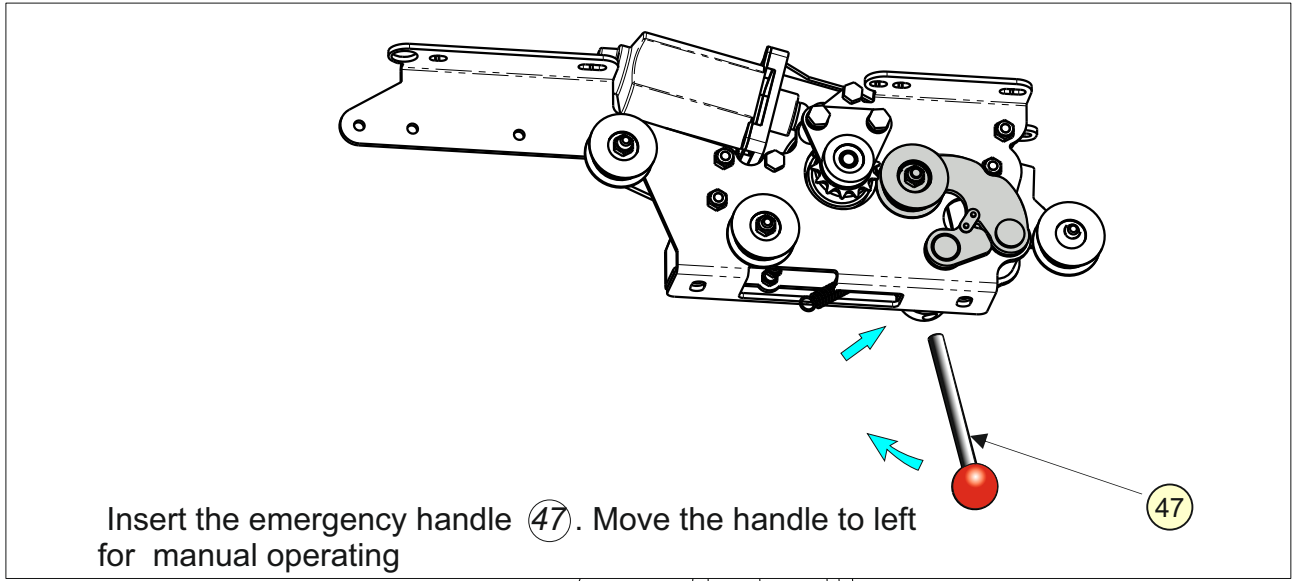
Note
 Number of chain links is 189
 For vehicle: Kombi wheelbase (4325mm) long and super long

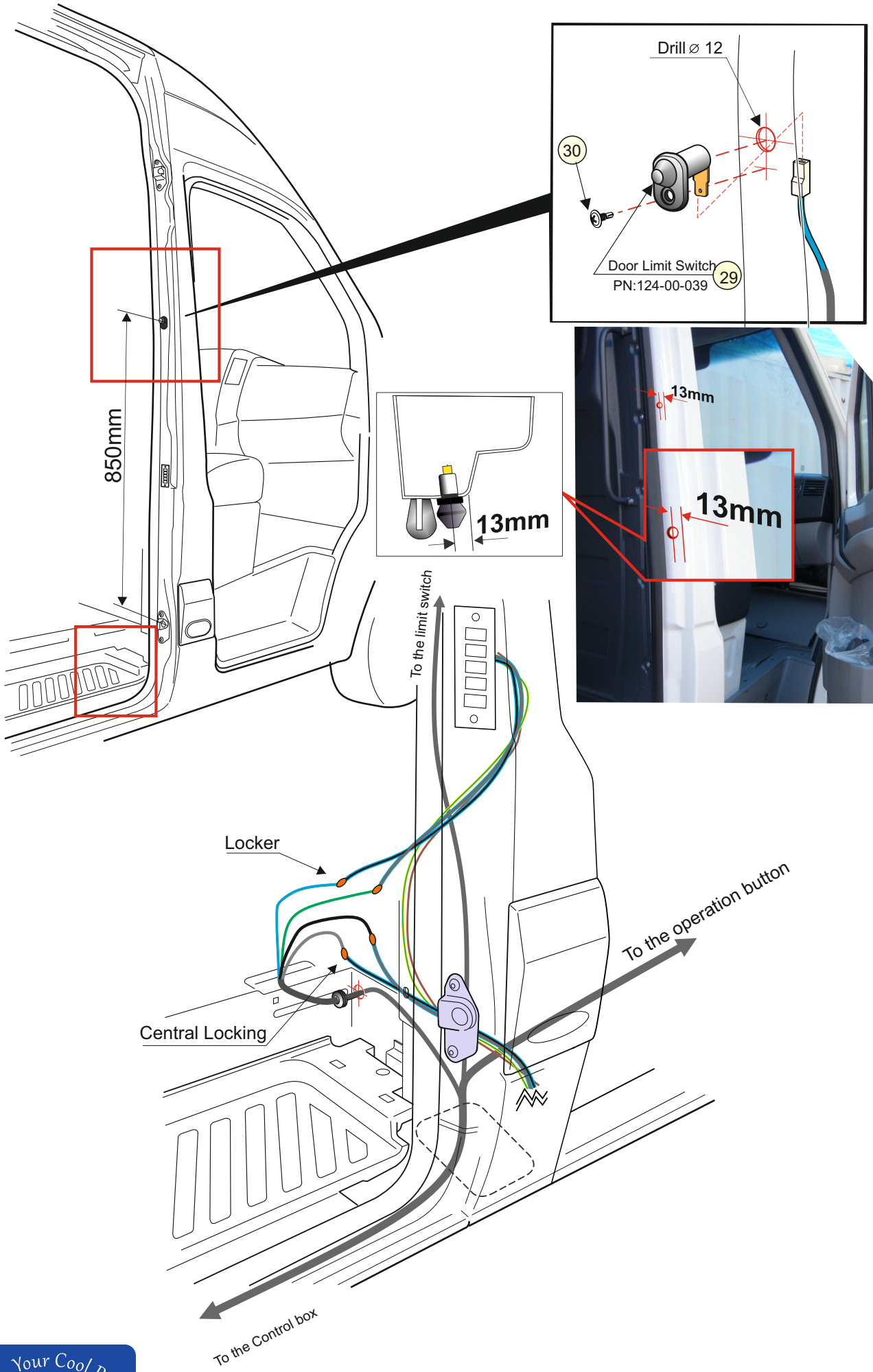


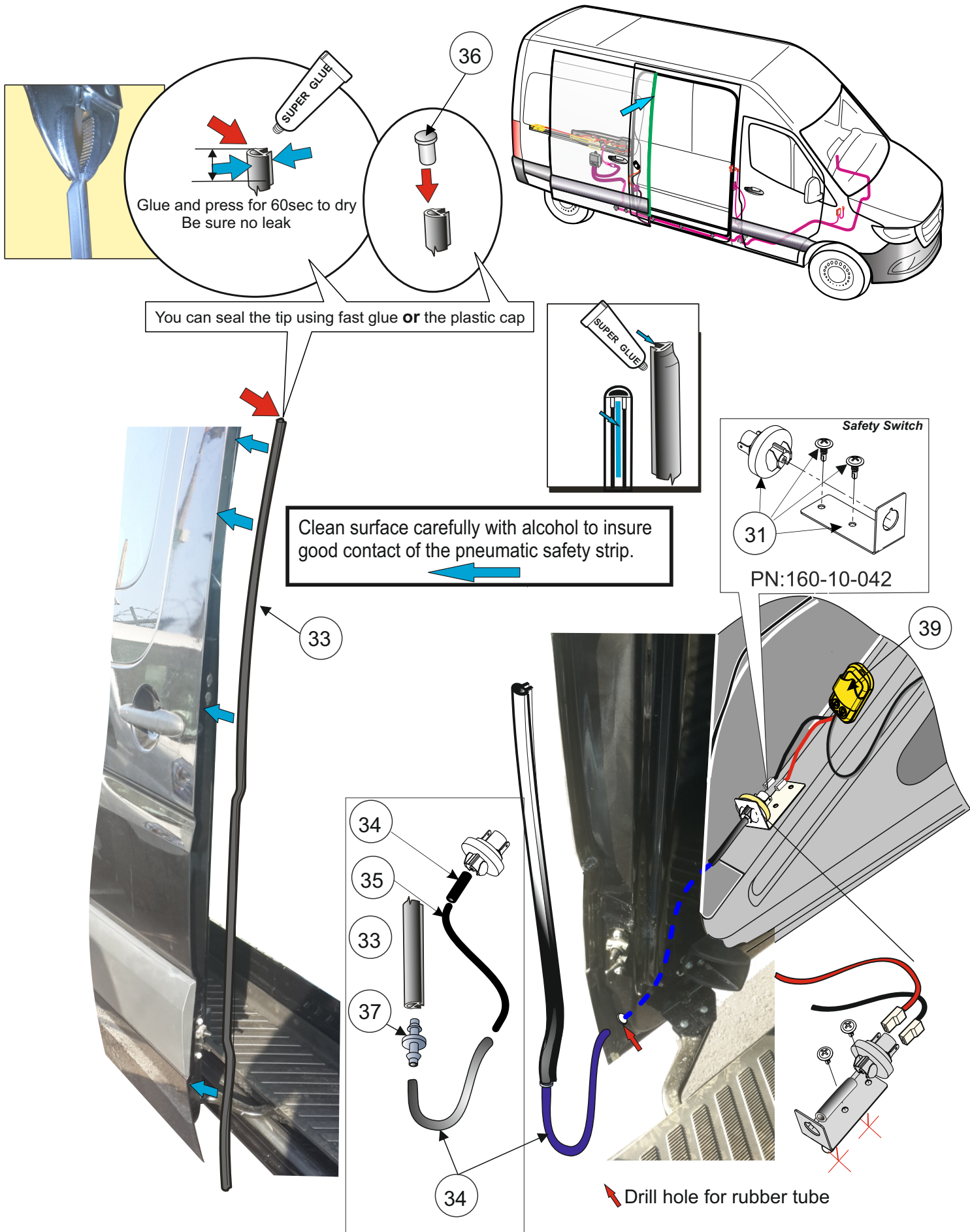
- | | | | |
|----|--|--------------------------------|-----|
| 21 | | Socket button head screw M5X16 | - 1 |
| 22 | | Lock nut M5 | - 2 |

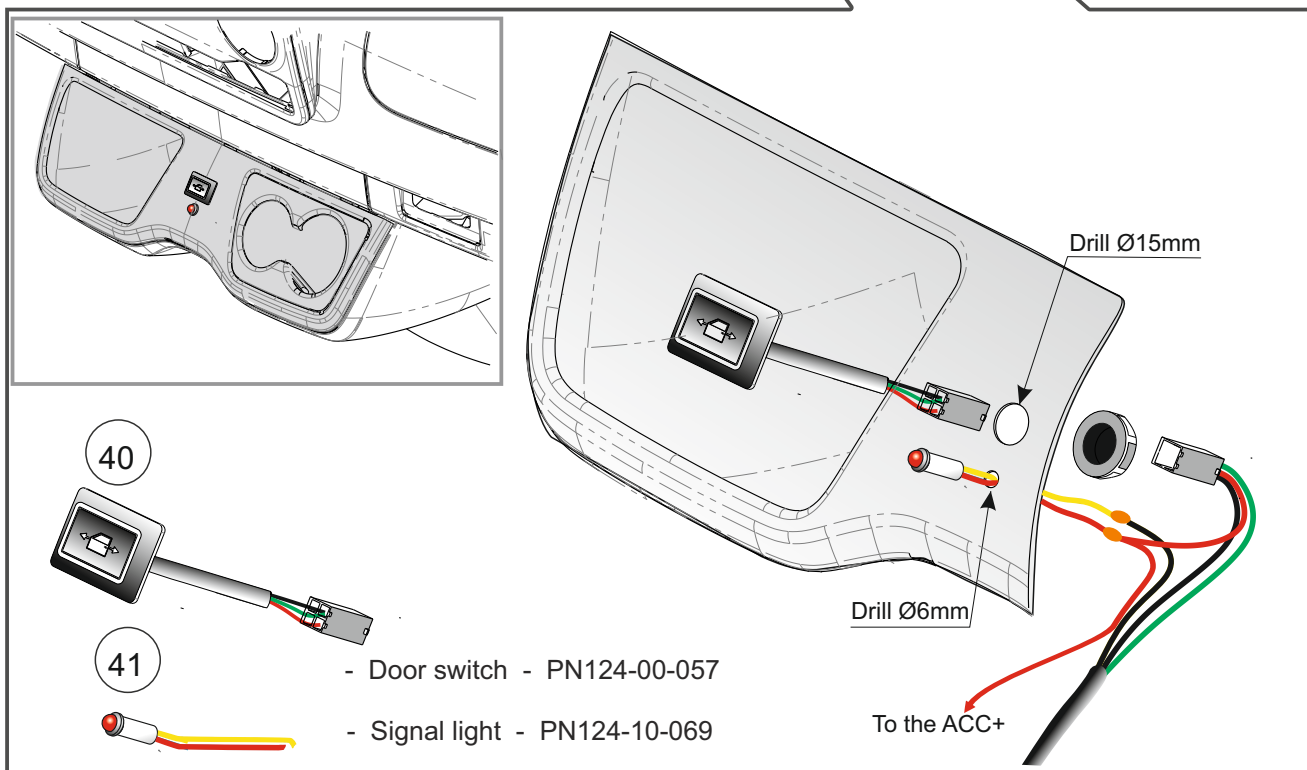
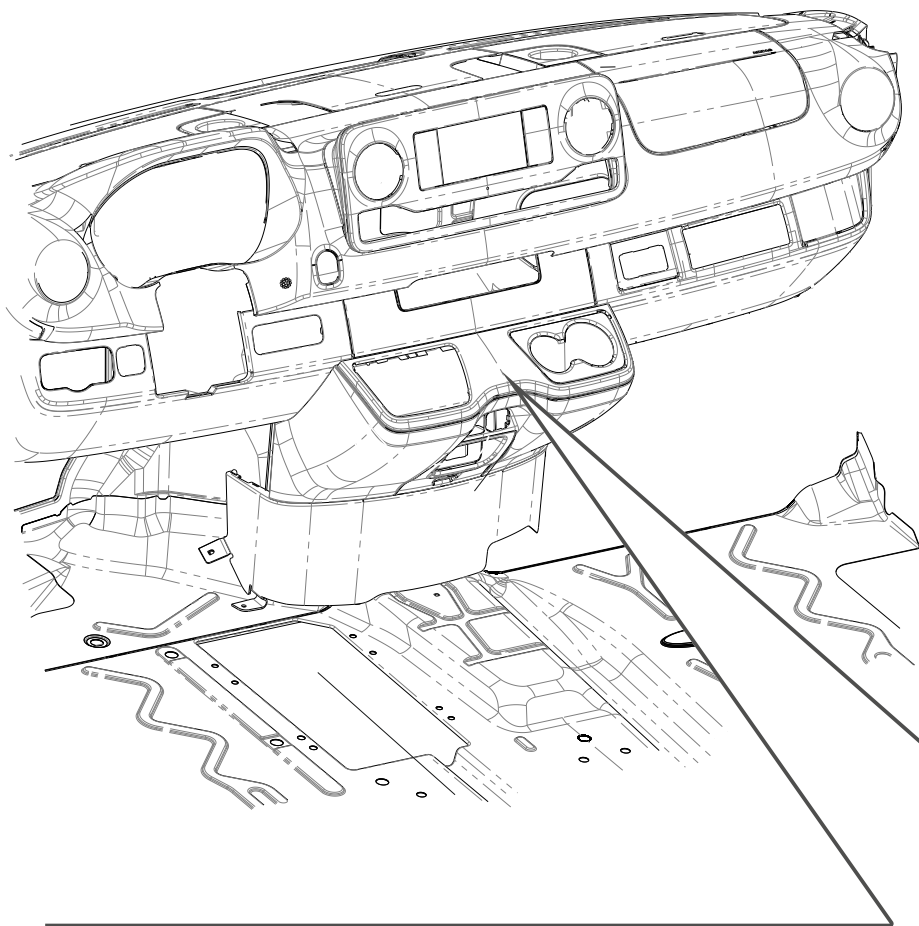
Do not separate the cart from the door
Drill the hole on the spot

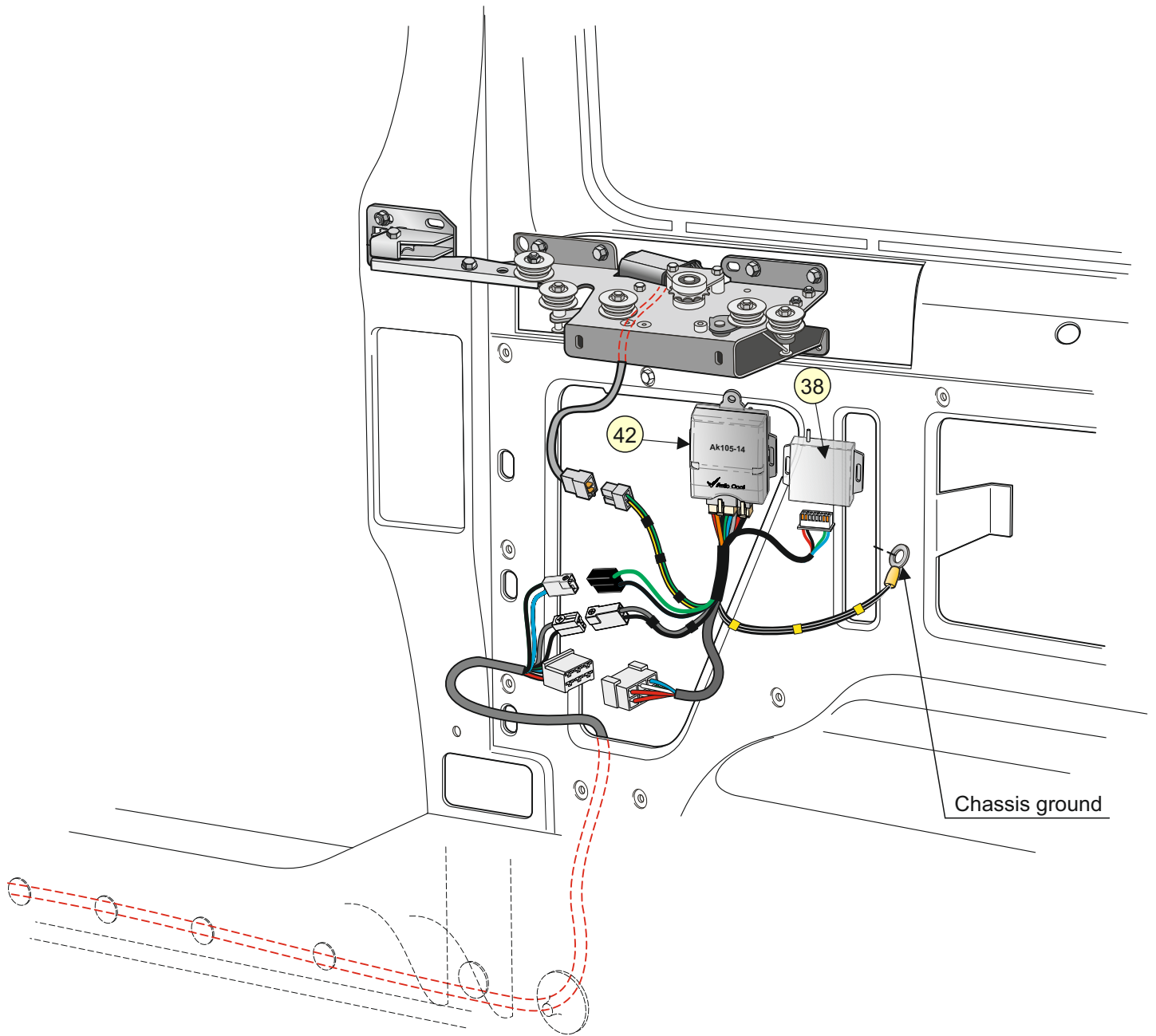




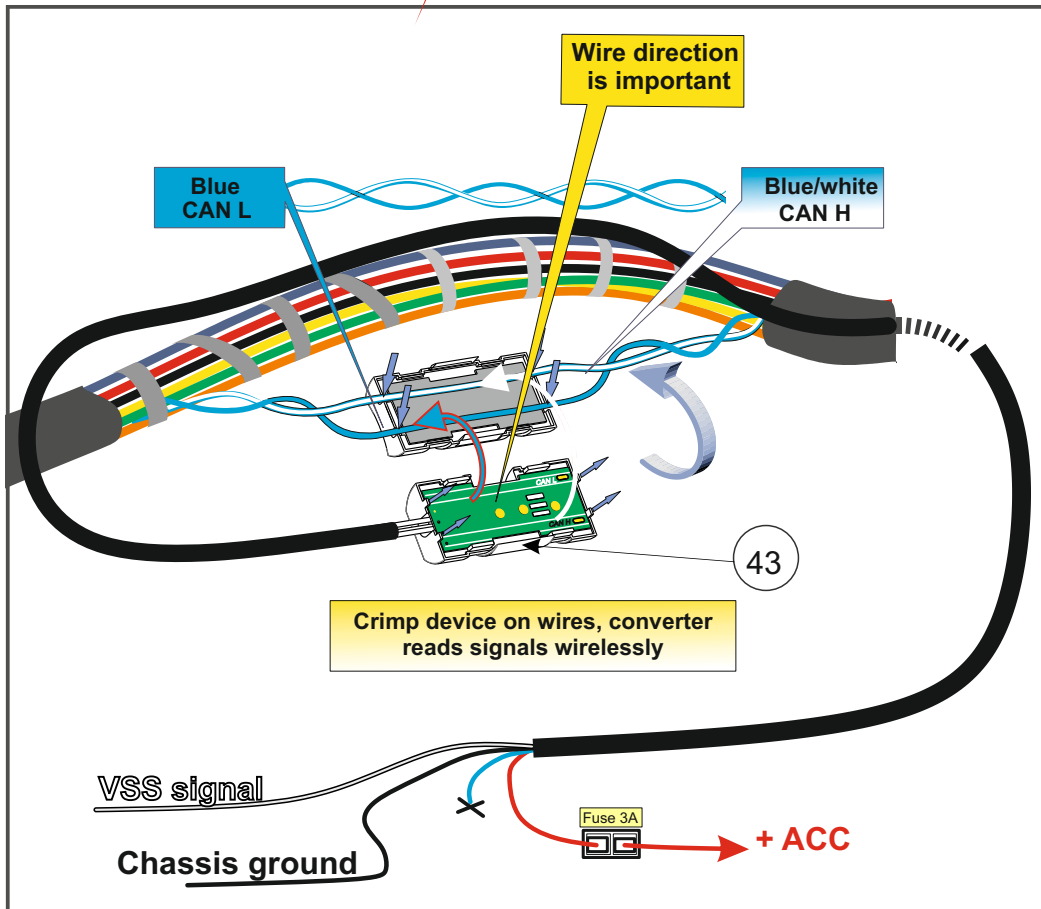
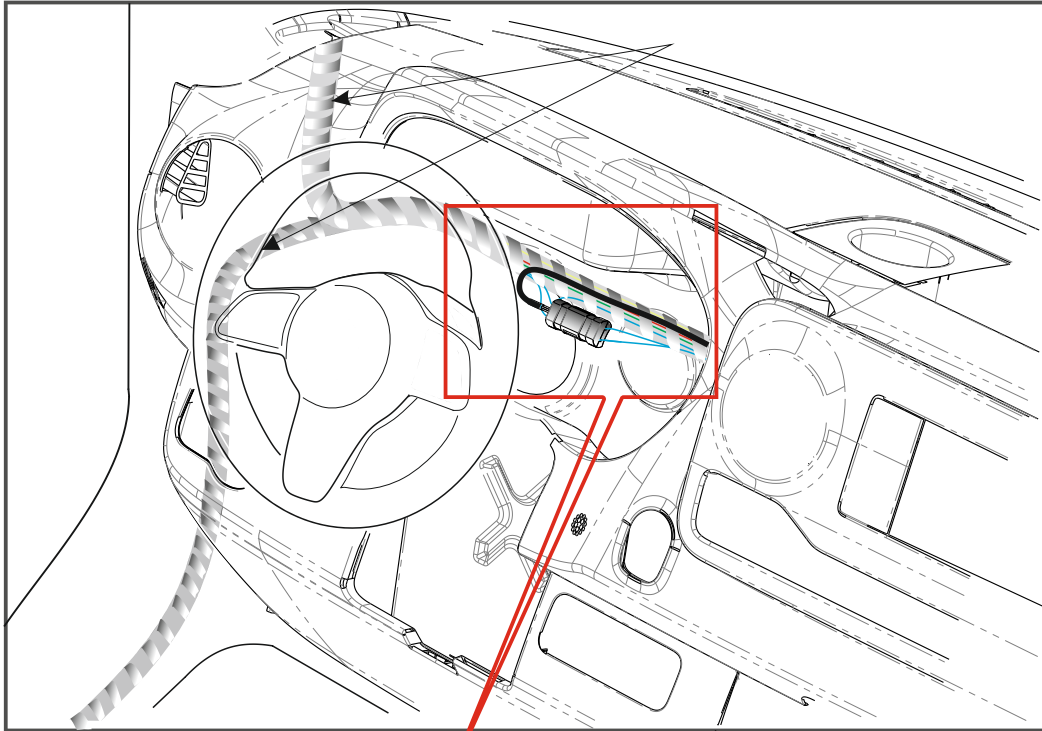






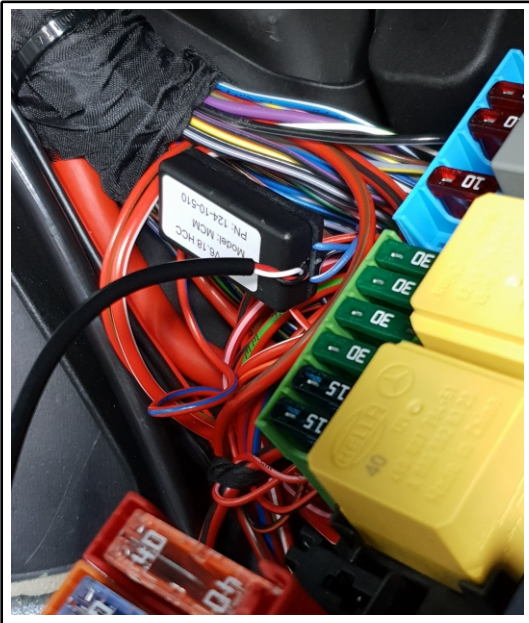
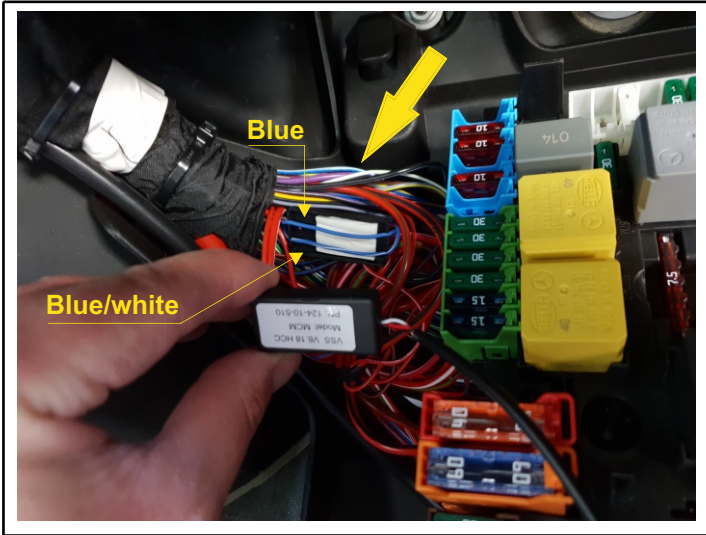



Option 1

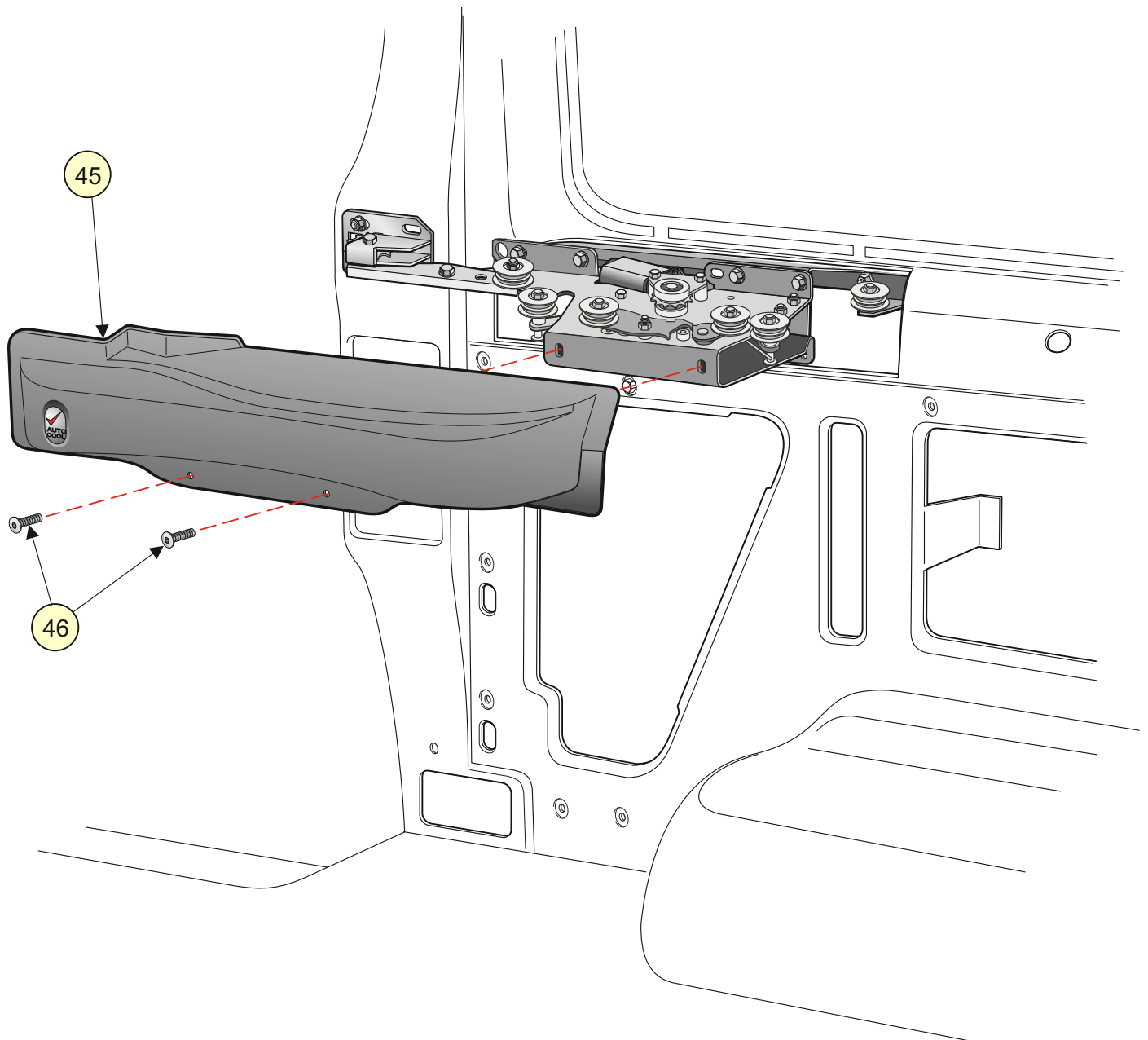
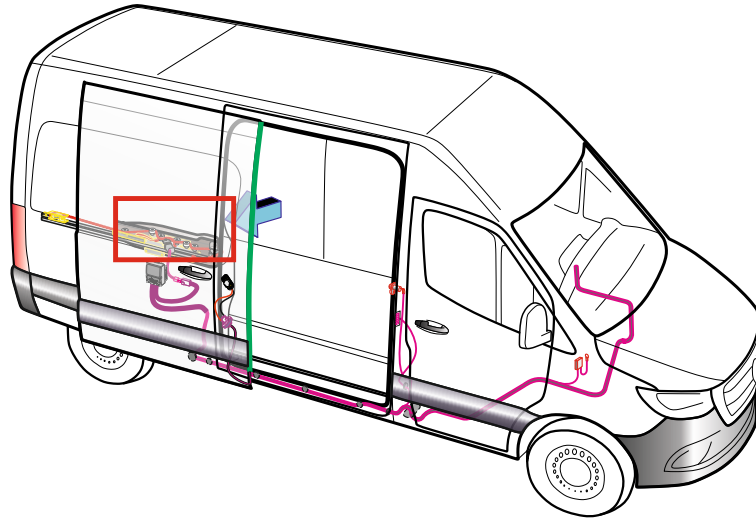


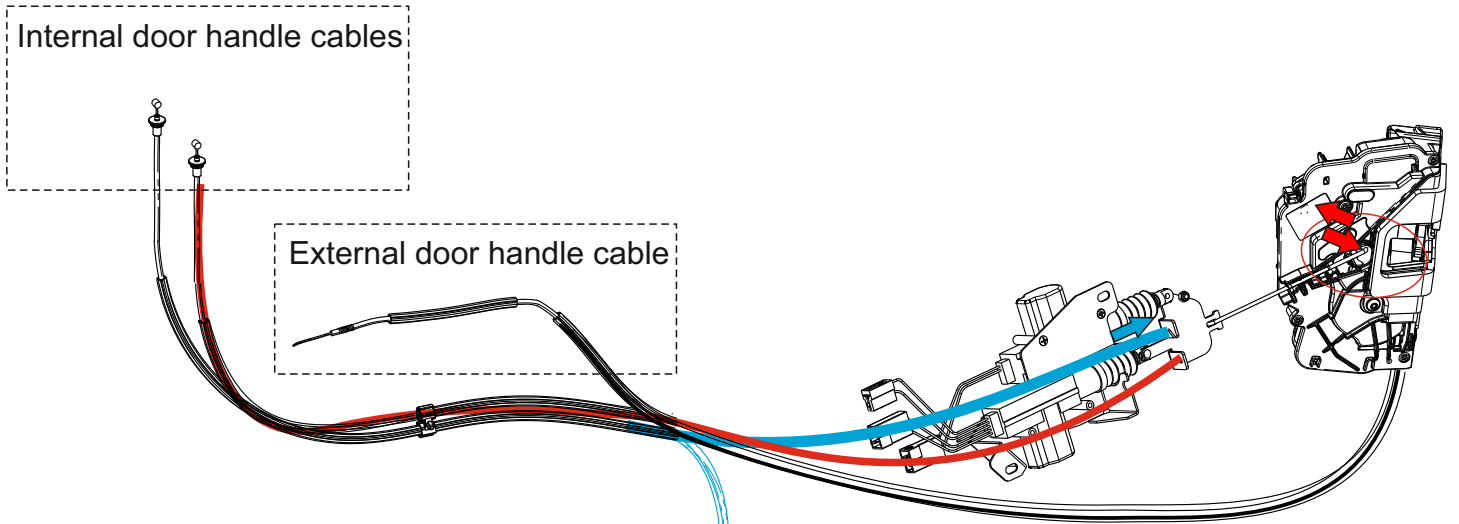
Find two twisted wires (blue and blue/white)
Connect VSS converter as show in the figure

Option 2



 Find two twisted wires (blue and blue/white)
Connect VSS converter as show in the figure





Cancel the lower latch



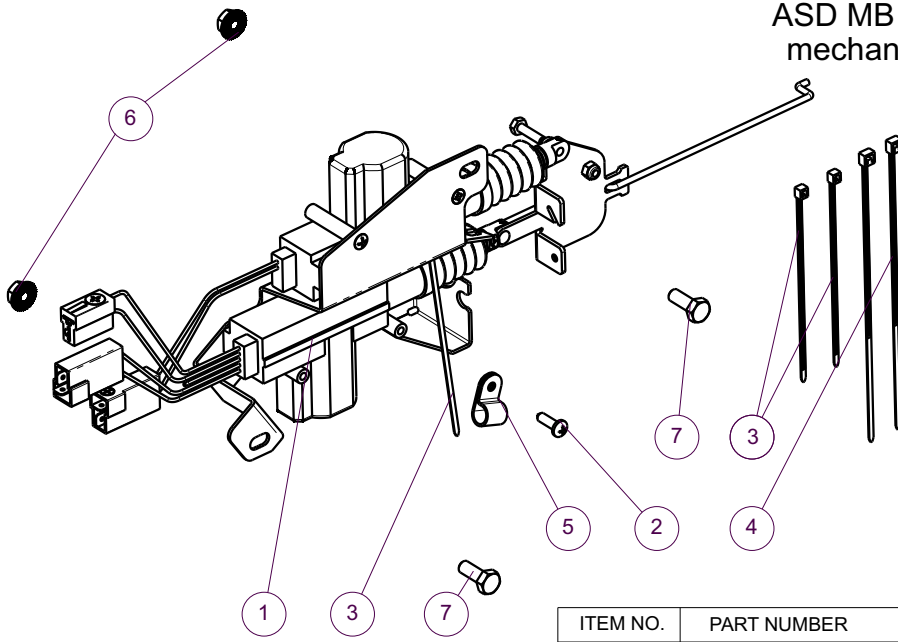
Lower release cable



Disconnect the cable and move him to a new location

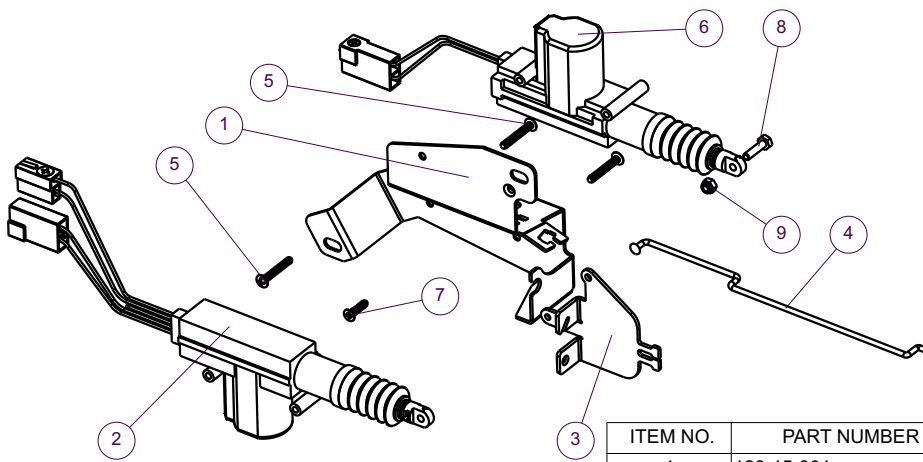


ASD MB Sprinter Original Door latches mechanism & operation with handles
160-15-301



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	111-15-301	MB Sprinter locker bracket ASSY	1
2	646-08-020	Phillips screw 6x3/8"	1
3	125-10-016	Cable strap 100mm	3
4	125-10-014	Cable strap 150mm	2
5	125-10-005	Plastic clamp UC-2 3/8"	1
6	601-06-006	Hex flange nut M6 DIN 6923	2
7	632-06-016	Hex cap screw M6x15	2

MB Sprinter lockers ASSY
111-15-301



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	128-15-301	Actuator bracket	1
2	110-01-006-10	Lock actuator ASSY	1
3	128-15-203	Cables adapter	1
4	128-36-309	V363: V408 Lock Actuator arm	1
5	Phillips cross Screw 4.2		3
6	110-11-006	Actuator ASSY	1
7	647-11-046	Phillips cross screw 4-5/8"	1
8	632-04-016	Hex bolt M4x16 , DIN933	1
9	602-02-004	Lock nut M4 DIN985	1



Figure 1. Pull off door latch mechanism



Figure 2. Disconnect inner door handle cable (A)



Figure 3. Connect inner door handle cable to the new position

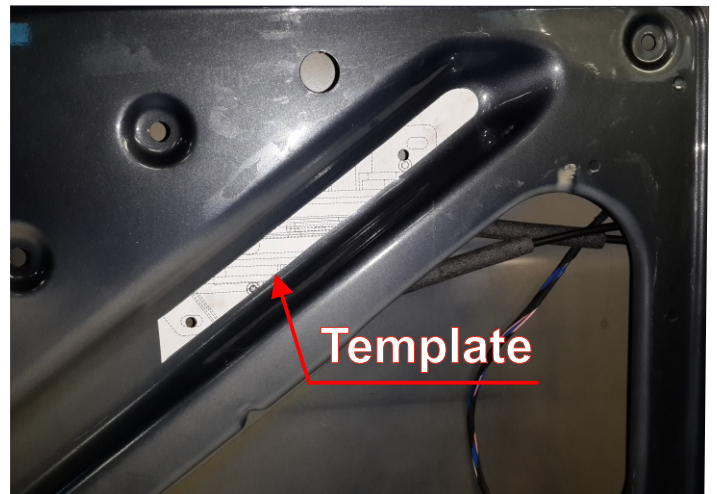


Figure 4. Drill 6.5 mm two holes



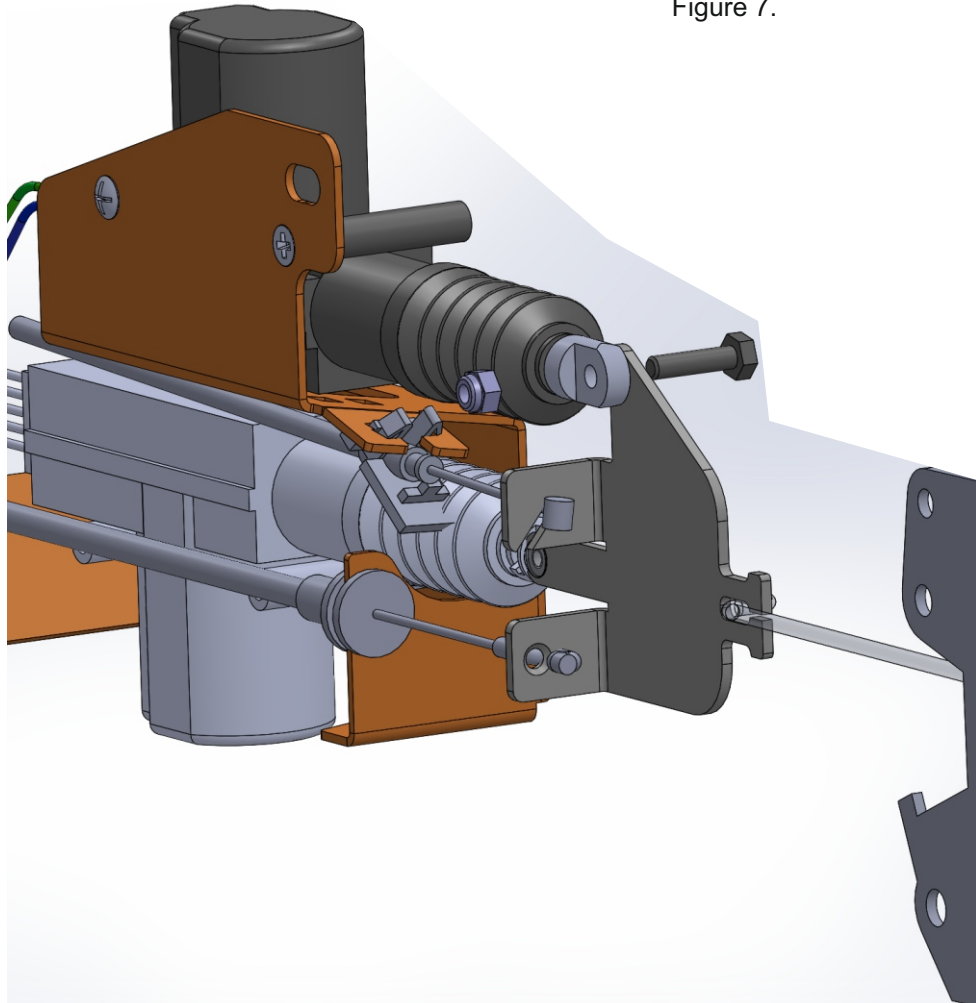
Figure 5.

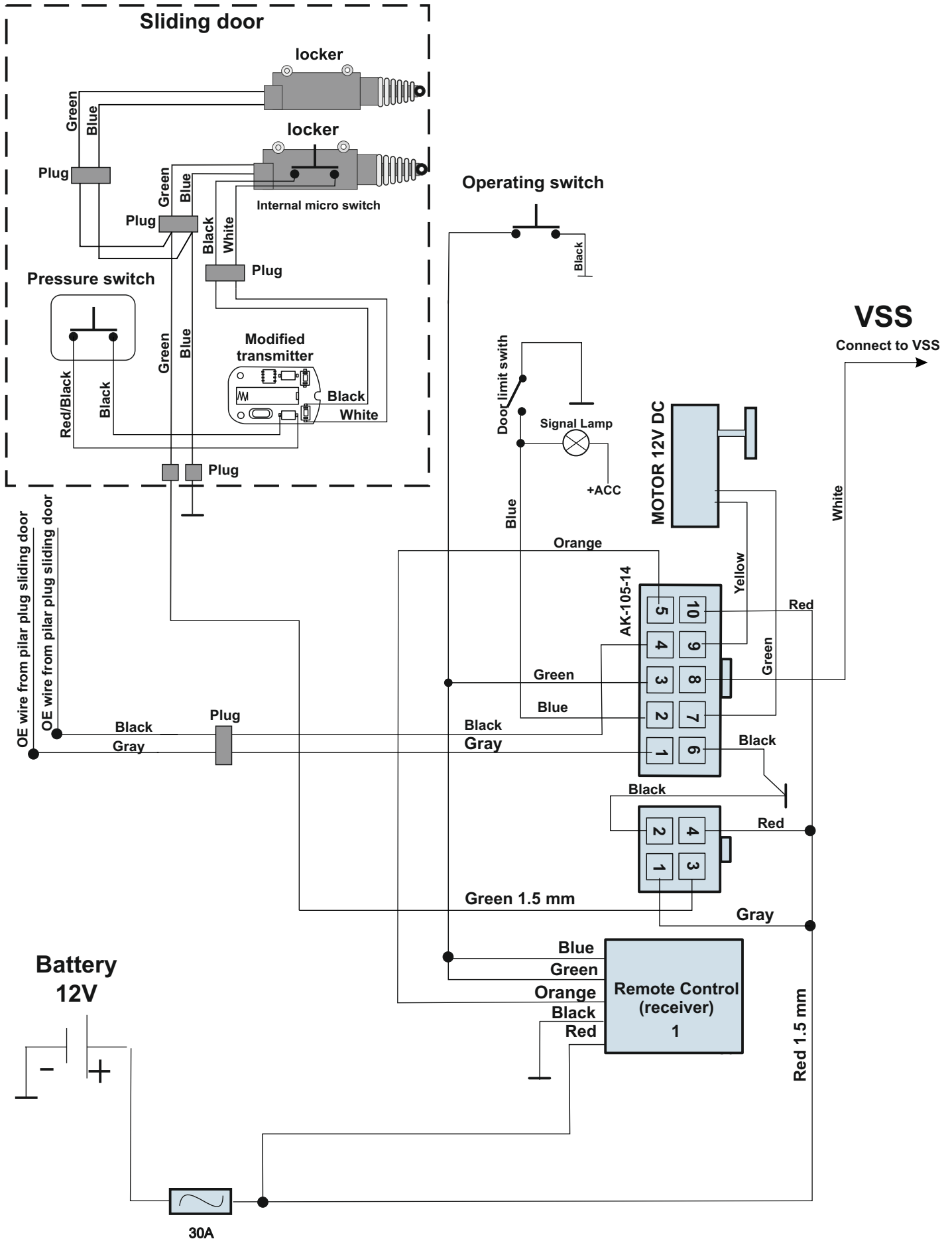


Figure 6.

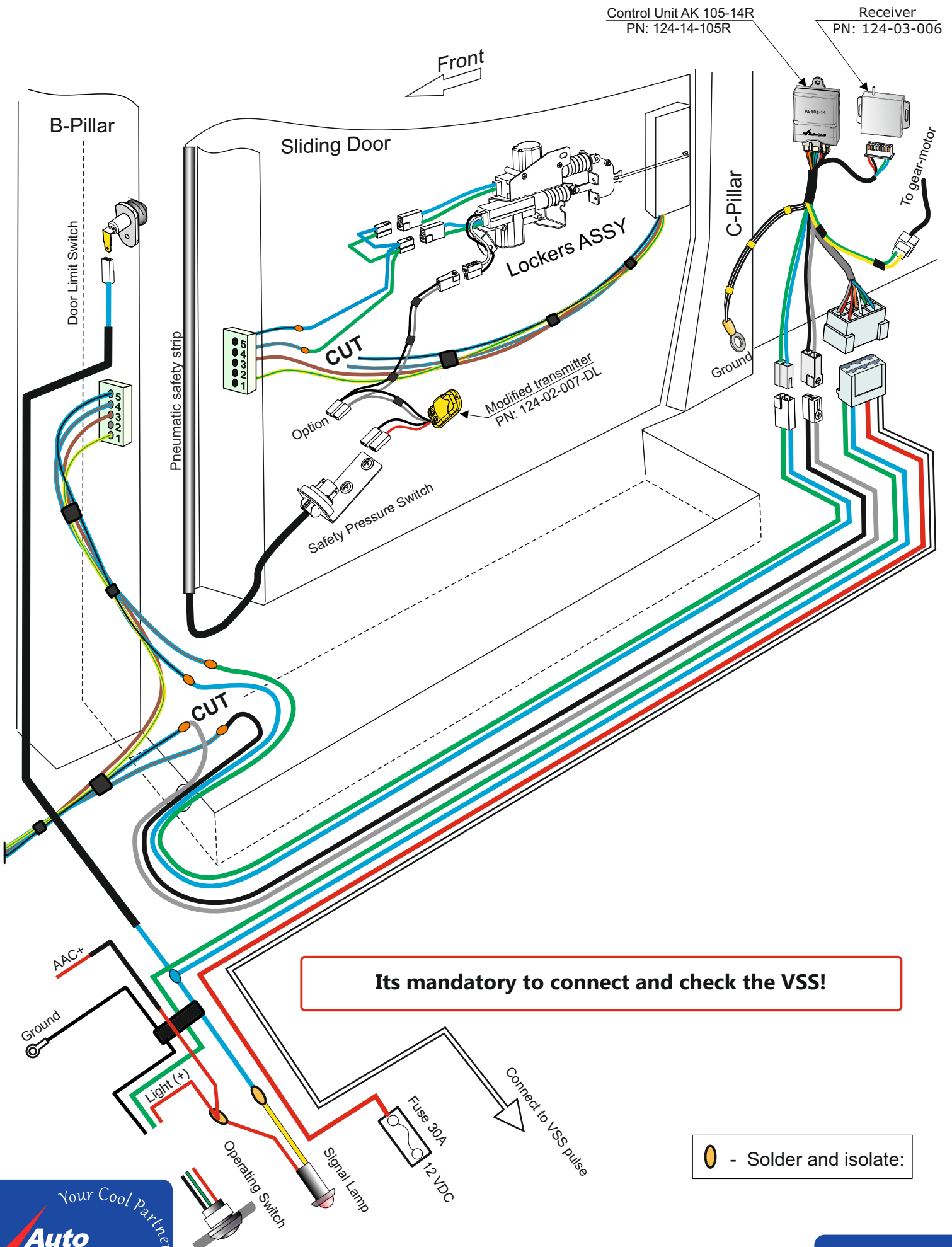


Figure 7.





Wiring harness PN:116-03-198-DL



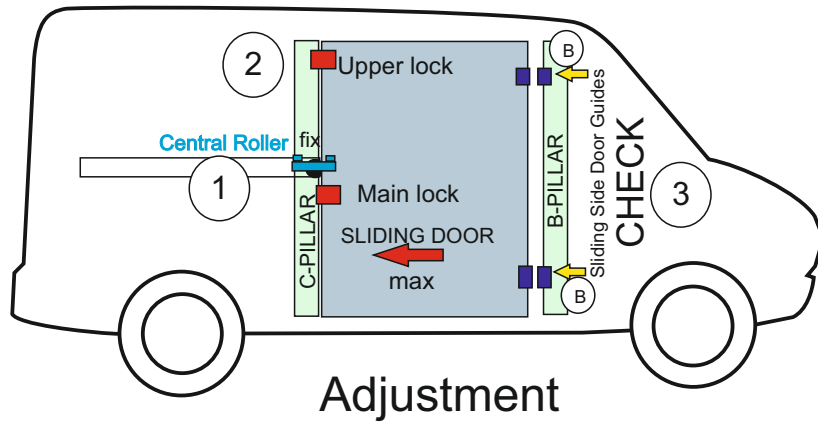
Its mandatory to connect and check the VSS!

○ - Solder and isolate:

Parts list of ASD system

No	Designation	Part No	Quantity
1	Chain Slide strip	134-00-0081	1
2	Flat Head Screw M4X20	613-04-020	1
3	Lock Nut M4	602-02-004	1
4	Gear-Motor Support	111-00-0081	1
5	Thick Washer 6	600-32-061	4
6	Bolt M6X16	632-06-016	10
7	Washer 6	600-12-080	8
8	Hex flange nut M6	601-06-006	17
9	Gear-Motor ASSY	111-00-013	1
10	Front Idler	111-02-017	1
11	Front Idler Support	128-00-008C	1
12	Bolt M6X30	632-06-030	3
13	Idler Wheel	107-11-004-1	1
14	Nut M6	601-02-006	3
15	Lock Nut M6	602-02-006	5
16	Rear Idler	111-02-013	1
17	Socket button bolt M6x16	614-06-016	1
18	Chain Support	128-00-008D	1
18.1	Chain Support	128-15-030	1
19	Chain Drive	178-00-0081	1
20	Connecting link	900-01-072	3
21	Socket button bolt M5X16	614-05-016	1
22	Lock Nut M5	602-02-005	1
23	Cover	151-20-003	1
24	Philips Screw 8X5/8	646-08-058	1
25	Bolt M6X25	632-06-025	5
26	Nut Plastic Cover	112-10-002	1
27	Rear Idler Cover	151-10-003	1
27.1	Rear Idler Cover	151-15-803	1
28	Hex flange nut M8	601-08-008	2
29	Limit Door Switch	124-00-039	1
30	Self Drill Screw 8-1/2"	647-08-003	1
31	Pneumatic Safety Switch ASSY.	160-10-042	1
32	Rubber Grommet #12	112-04-000	3
33	Pneumatic Safety Strip	113-65067	2m
34	Rubber Tube	113-06-067	1

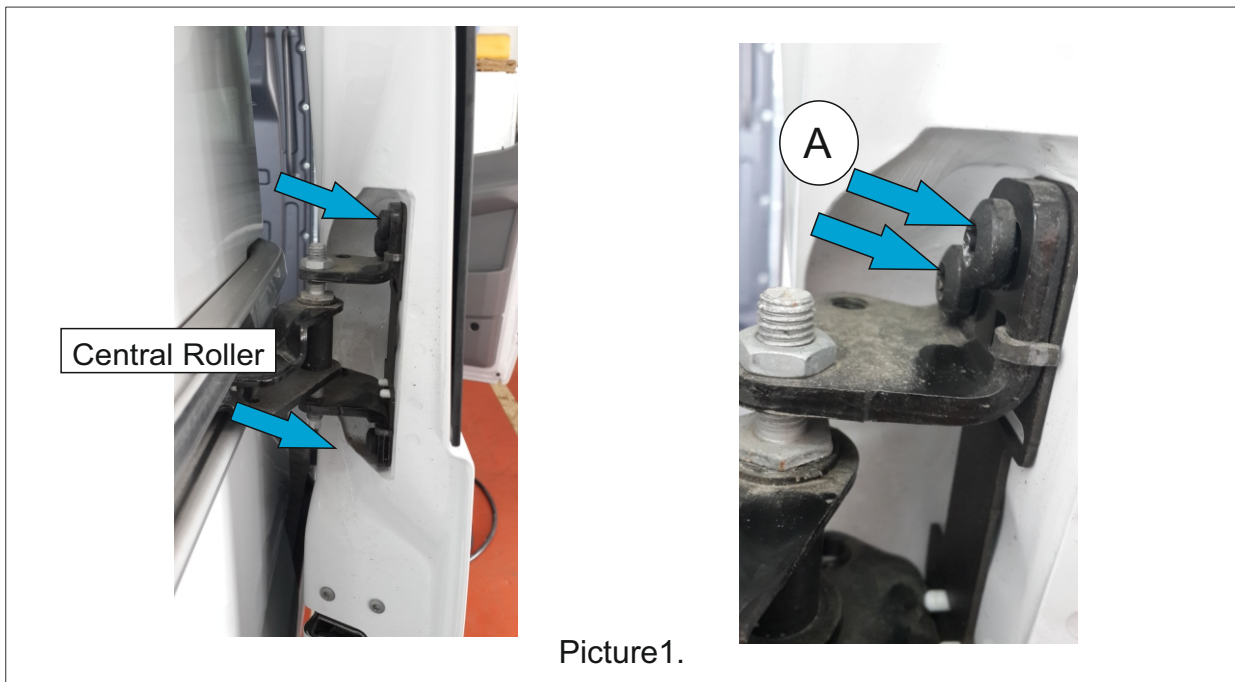
No	Designation	Part No	Quantity
35	Pneumatic Plastic Tube	113-26063	1
36	Plastic cap for safety strip		1
37	Single barb connector 1/4"	113-15-047	1
38	Remote Control (Receiver)	124-03-006	1
39	Modified transmitter	124-02-007-DL	1
40	Operating Switch	124-00-057	1
41	Signal Light	124-10-069	1
42	Control Unit AK 105-14 V05.19	R	1
43	VSS converter	124-10-510	1
45	Gear-Motor Cover	153-00-0081	1
46	Flat Head Screw M6X20	632-06-020-1	2
47	Emergency Handle	128-05-012	1
47	Wiring harness	116-03-198-DL	1



Adjustment

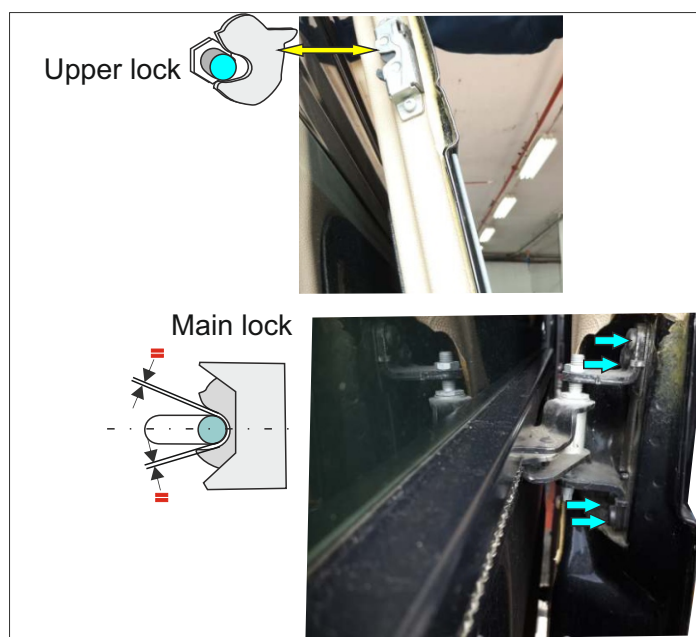
1. Adjust the sliding door.

- a. Loosen the 4 screws. see Picture 1.
- b. Move the door max c-pillar direction, relatively to the central roller.

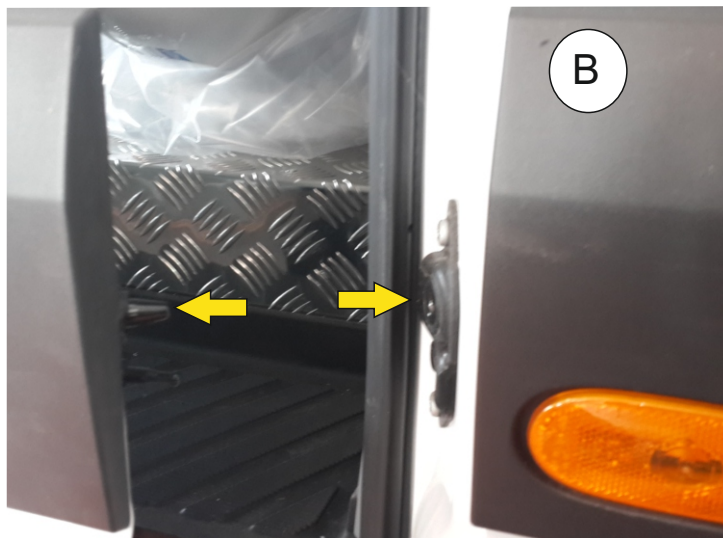


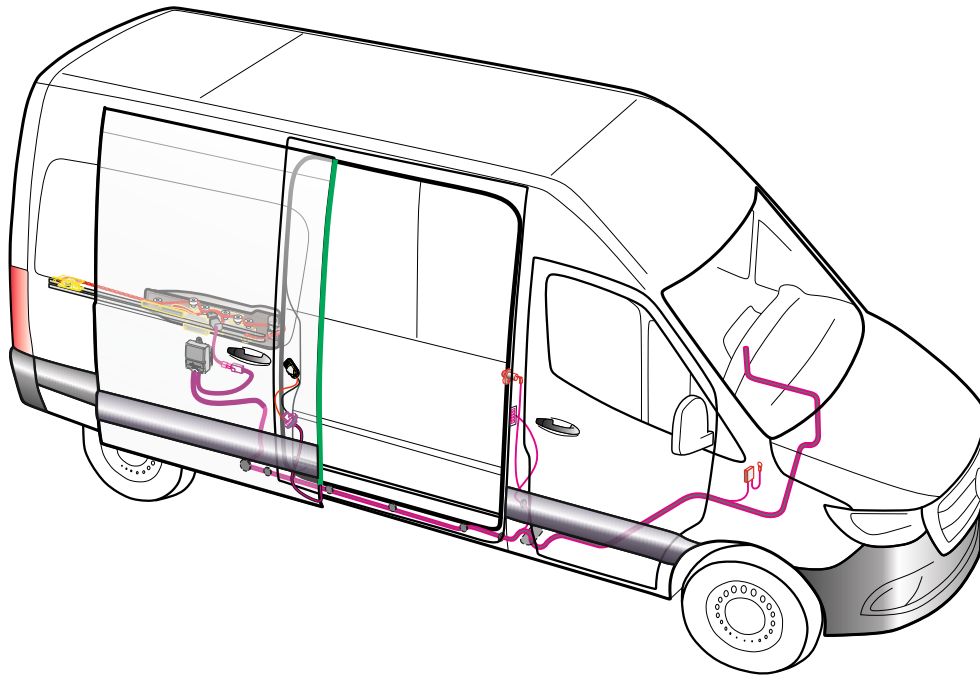
Picture1.

2. Check Main lock and Upper lock



3. Adjust the sliding door guides (parts on the sliding door). See pictures. (B)

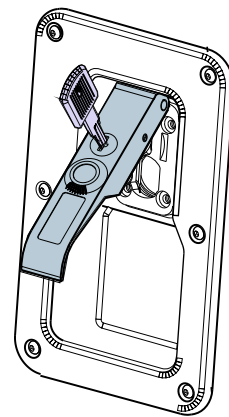


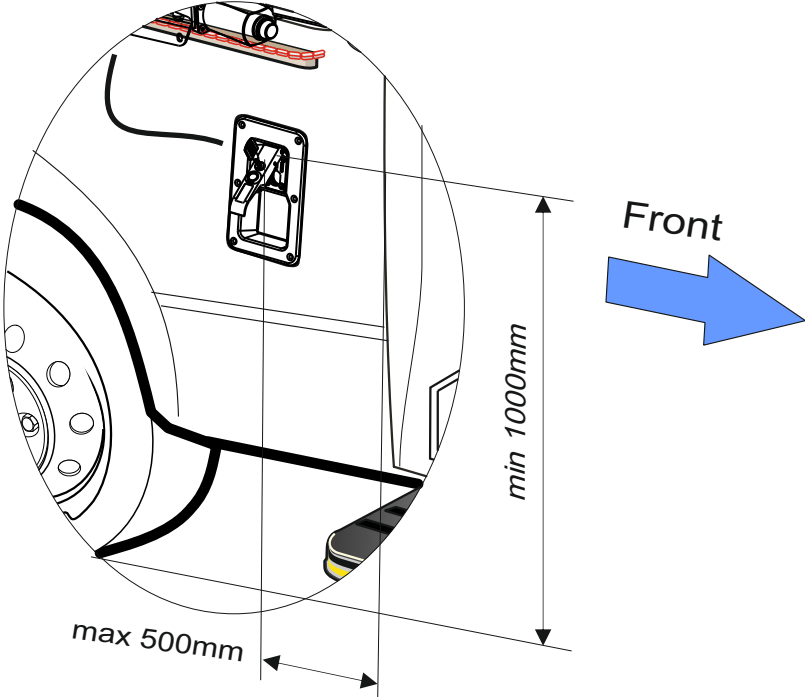
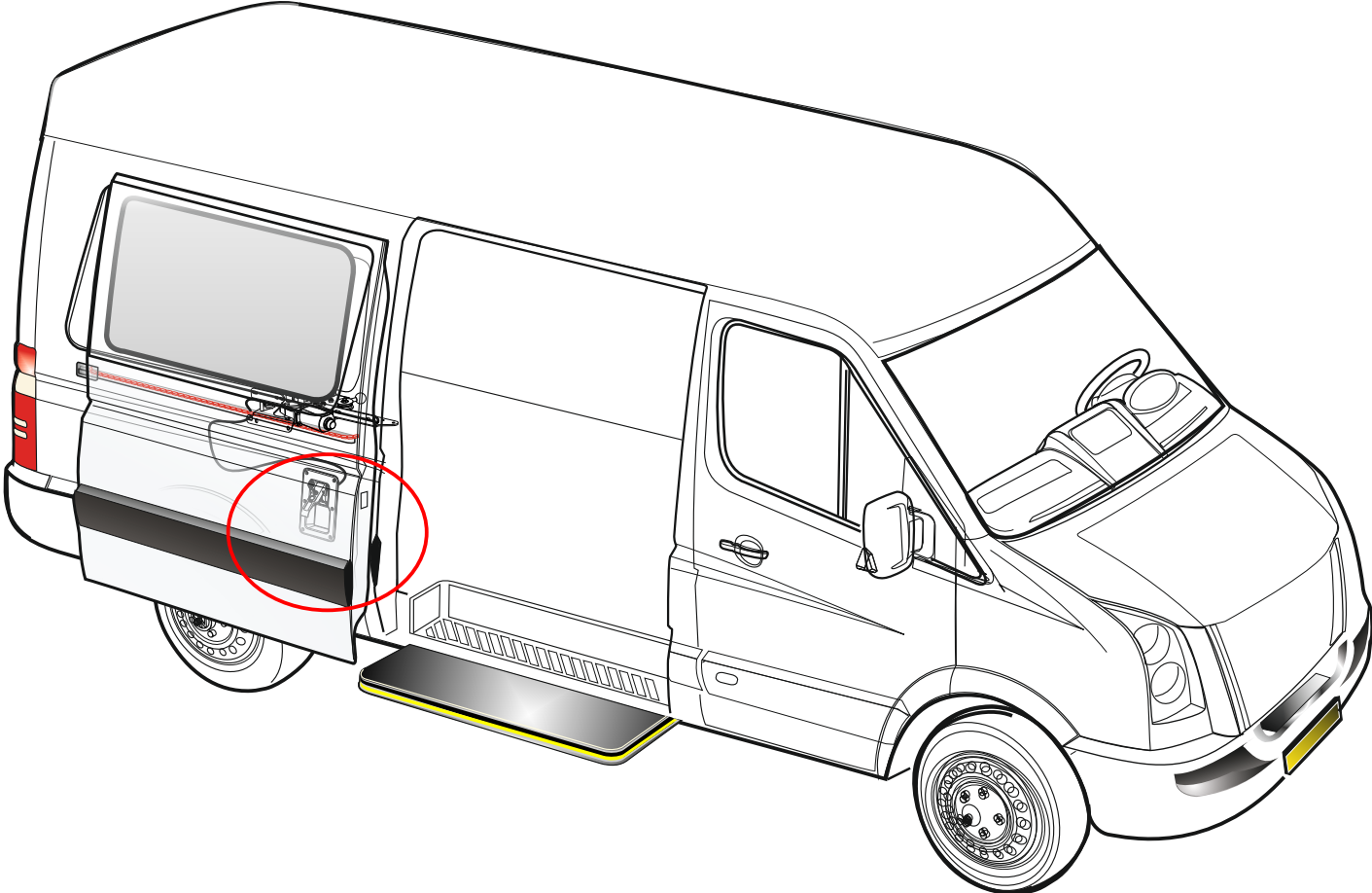


ASD

Automatic Sliding Door
Emergency door opening kit

PN: 111-03-013





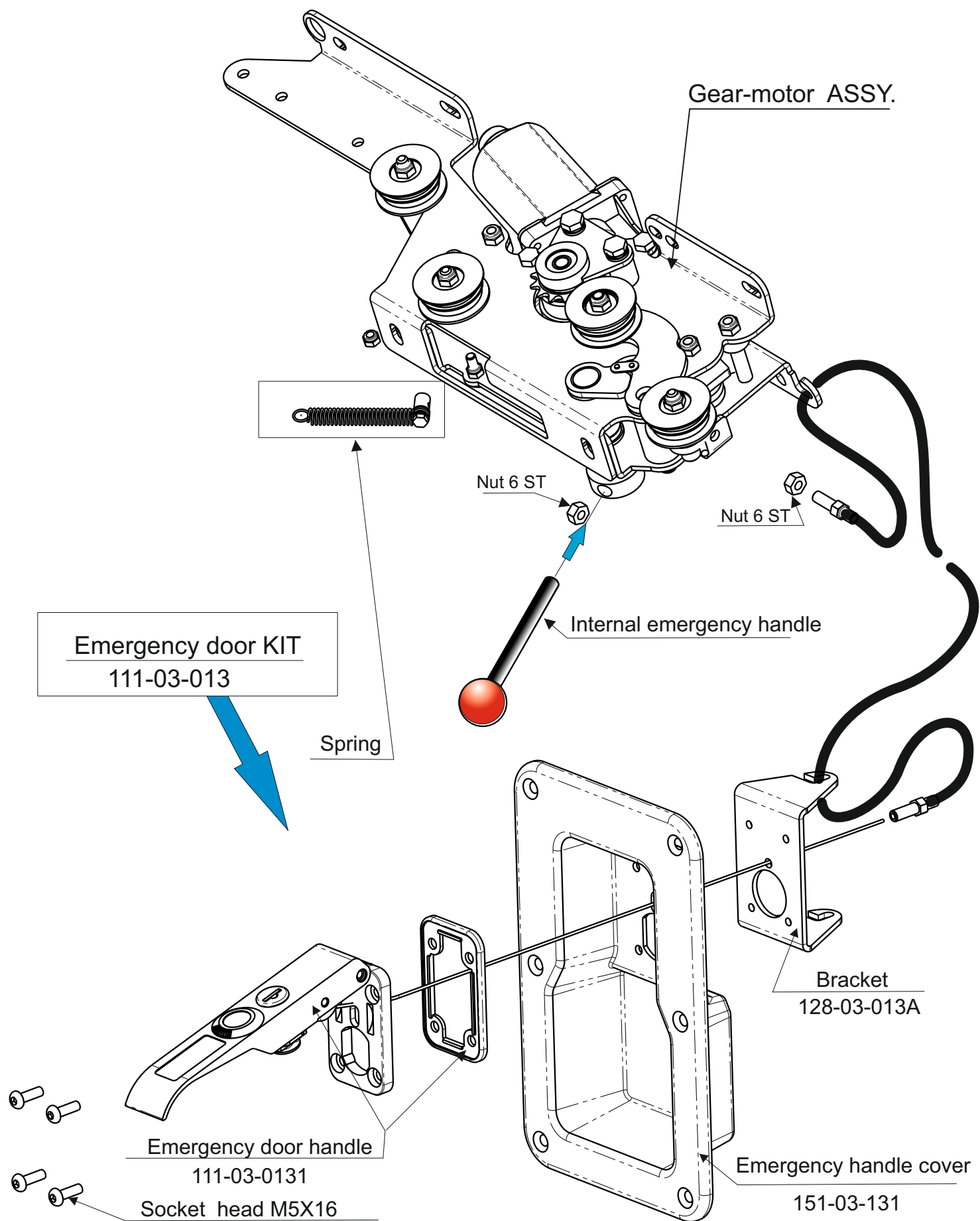
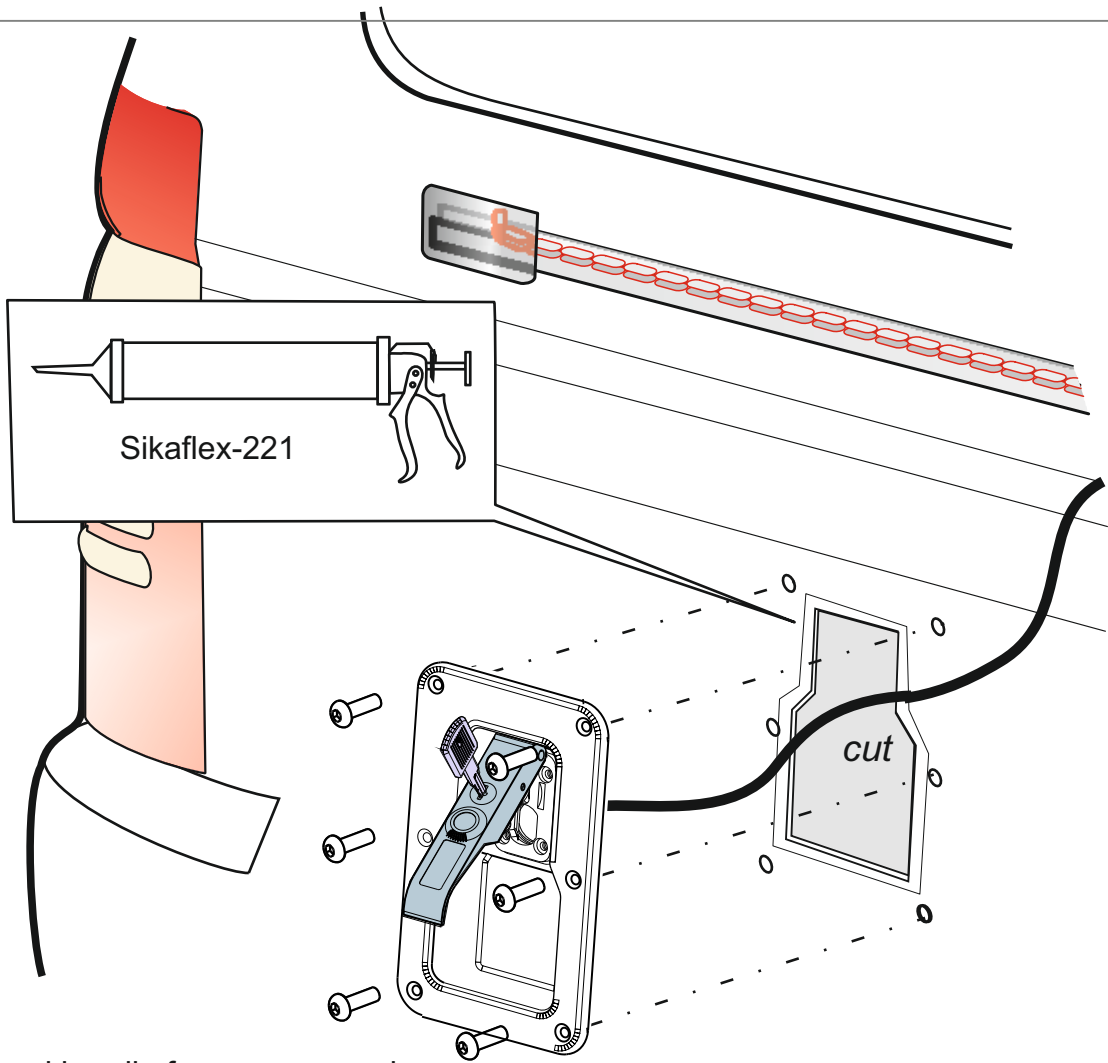
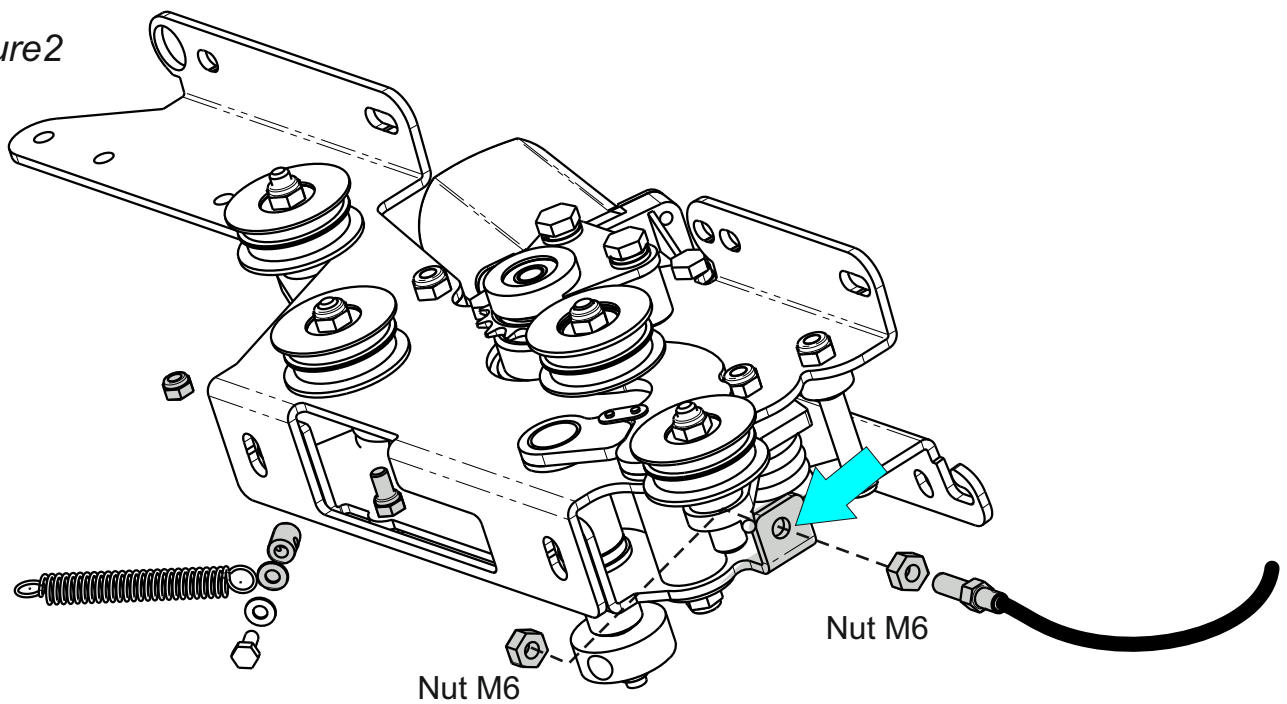


Figure 1

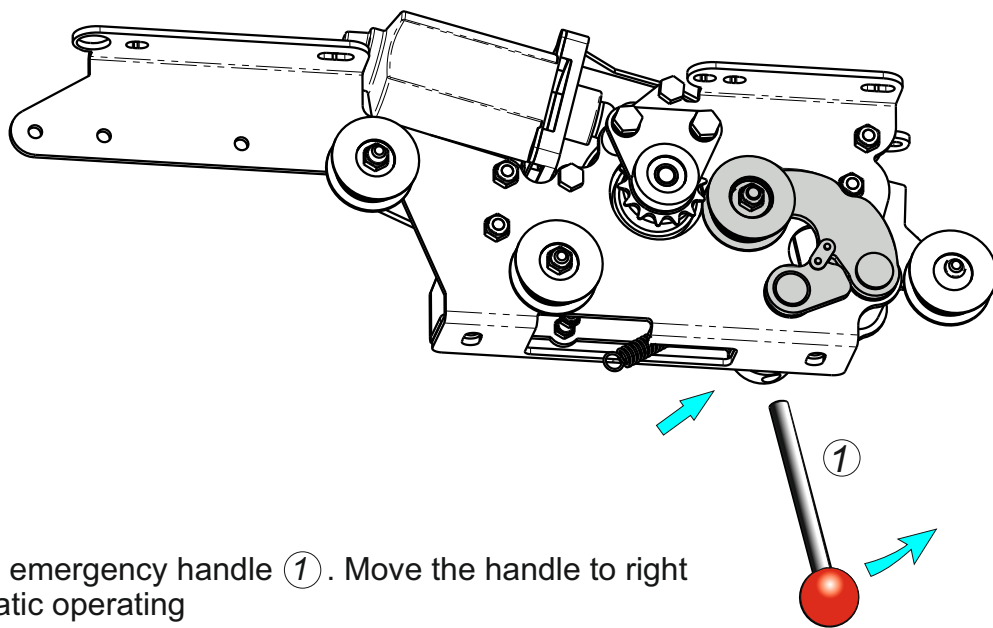
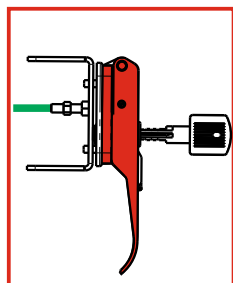


Install the external handle for emergency door

Figure 2

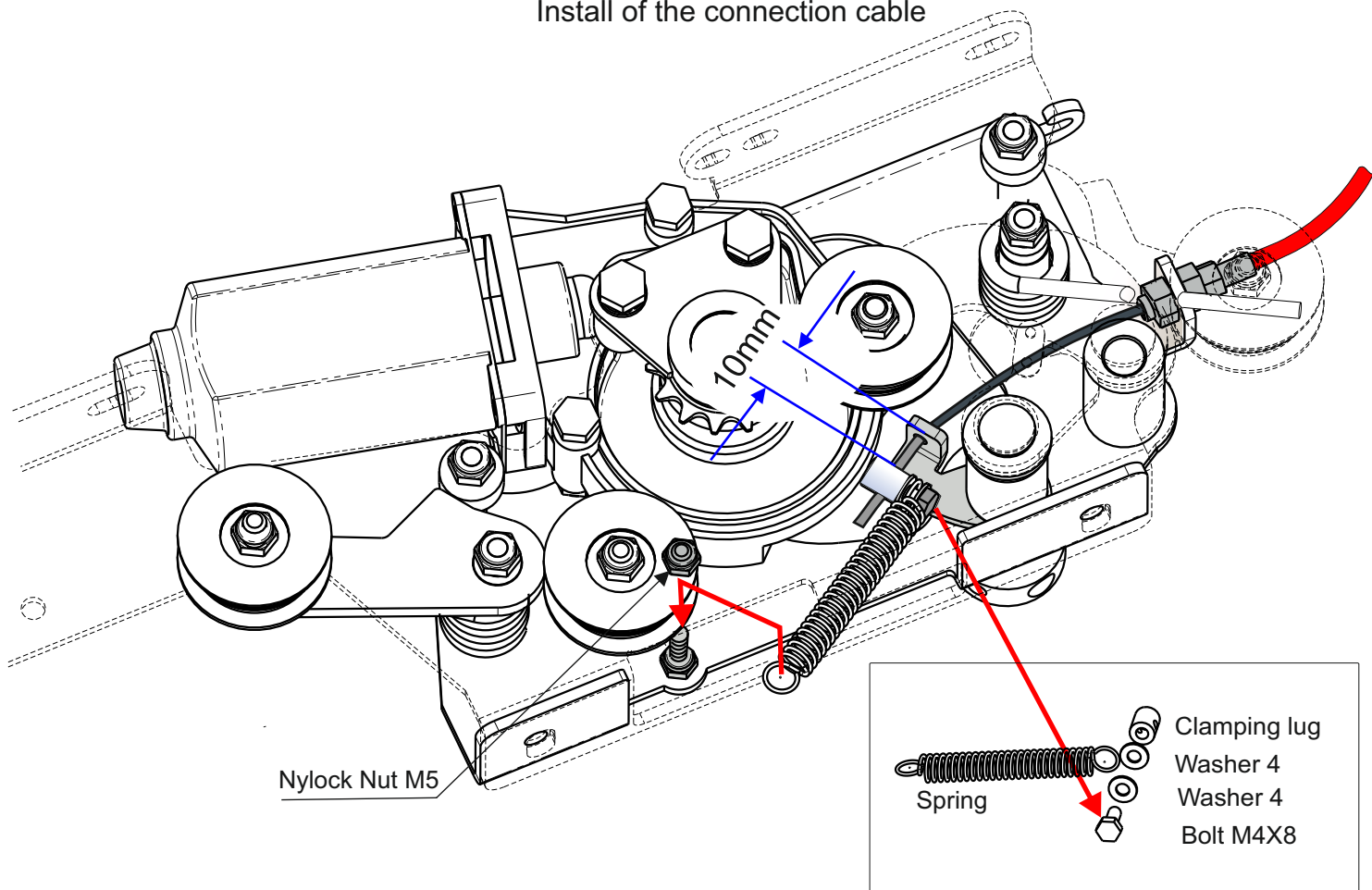


To install the cable:
Insert the cable into the hole (see figure 2) fasten nuts M6



Insert the emergency handle ①. Move the handle to right for automatic operating

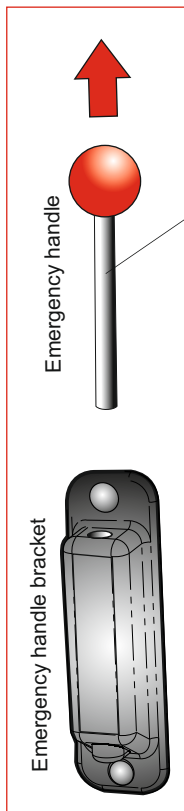
Install of the connection cable



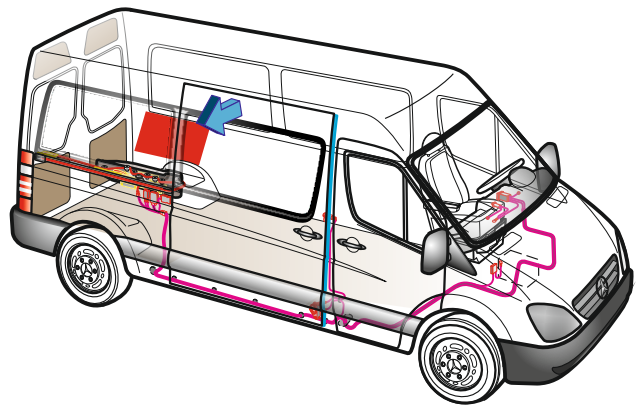
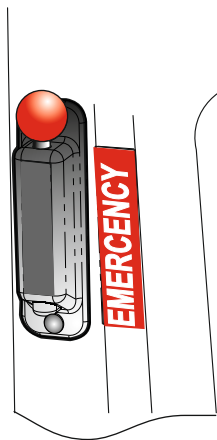
Nylock Nut M5

10mm

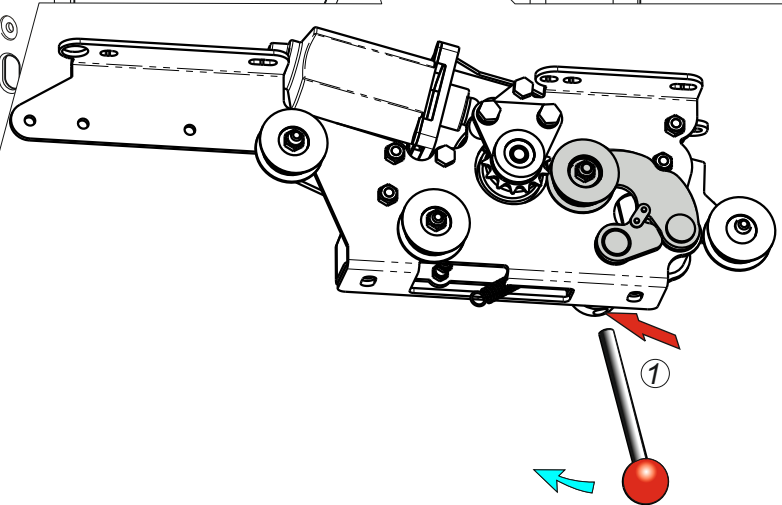
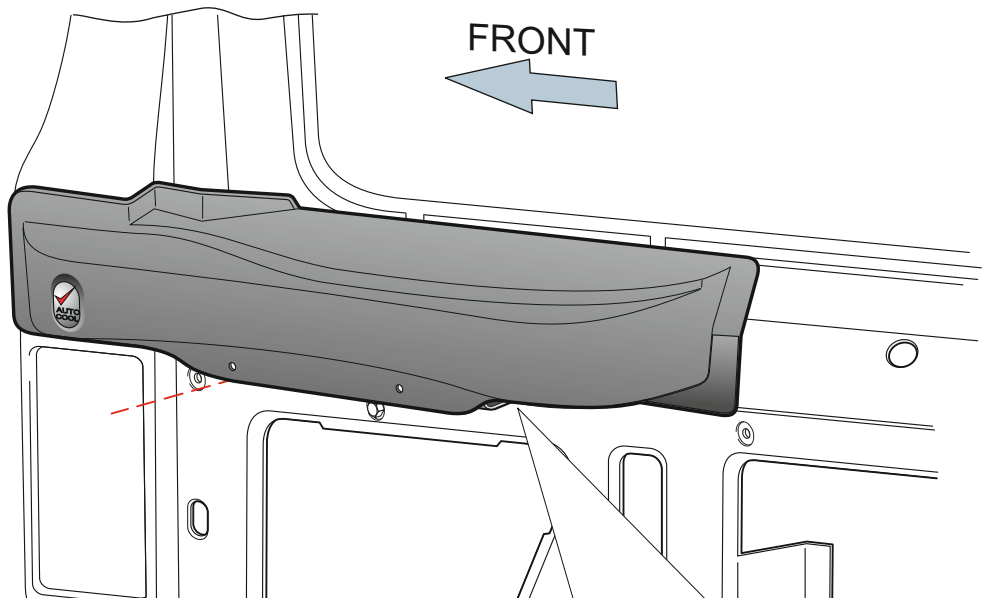
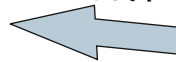
- Clamping lug
 - Washer 4
 - Washer 4
 - Bolt M4X8
- Spring



45



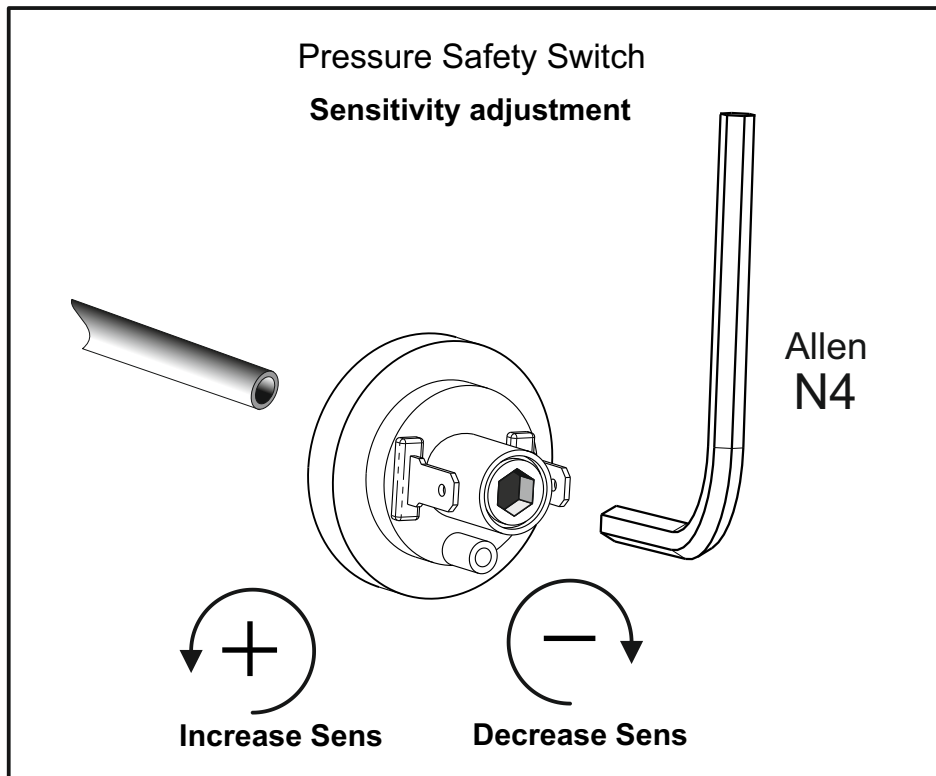
FRONT



Insert the emergency handle ① . Move the handle to left for manual operating

EMERGENCY OPENING

Emergency door opening kit



Replace or add new Transmitter (key) to the Remote Control Unit

1. Press and hold lock button (left knob).
2. Press the receiver programming button one time and release.

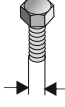

Delete: press and hold programming button about 10-20 seconds.

Lock Button

Programming Button



RECOMMENDED TORQUE FIGURES
(In newton metres)

	8.8	TORQUE Nm		TORQUE Nm
M5		6.3	M5	8
M6		10.3	M6	10
M8		25.4	M8	13

Automatic Sliding Door user's Manuel **Operation Instructions**

- The door is operated by a switch located on the dashboard or remote control:
- To open**—press the switch shortly, door opens to end of its range.
- To close** - press the switch shortly, door closes and locks.
- To change its direction while in motion** - press the switch shortly - the door will stop; press the switch shortly again - the door will change direction.
- To control opening range** – Continuous pressure on the control switch will set the door in motion upon its release, the door will stop.
- Visual status indications** – When the vehicle's main ignition switch is on and the door is open, the indication light is visible.
- Audio status indicators** – **Independently of the vehicle's main switch** – the vehicle's buzzer is always functioning whenever the door is in closing motion.

Safety measures

The system includes **safety features** to protect the passengers.

- Closing** – When encountering an obstruction, the controller automatically reverses the door direction to open full way .
- In addition, a pneumatic switch is attached to the front side of door or B pillar, which upon sensing pressure performs the same function and retracts immediately.
- Opening** - When encountering an obstruction, the controller stops the door.
- While the vehicle is in motion:** the AAD will not be operational at speeds exceeding 5 km\h. If the door is open, the system close the door automatically and buzzer will operated.

Emergency facility

The system has inside and outside (optional) emergency releasing handle. Pulling one of them will result in disconnecting the ASD mechanism device and the door will function normally immediately.

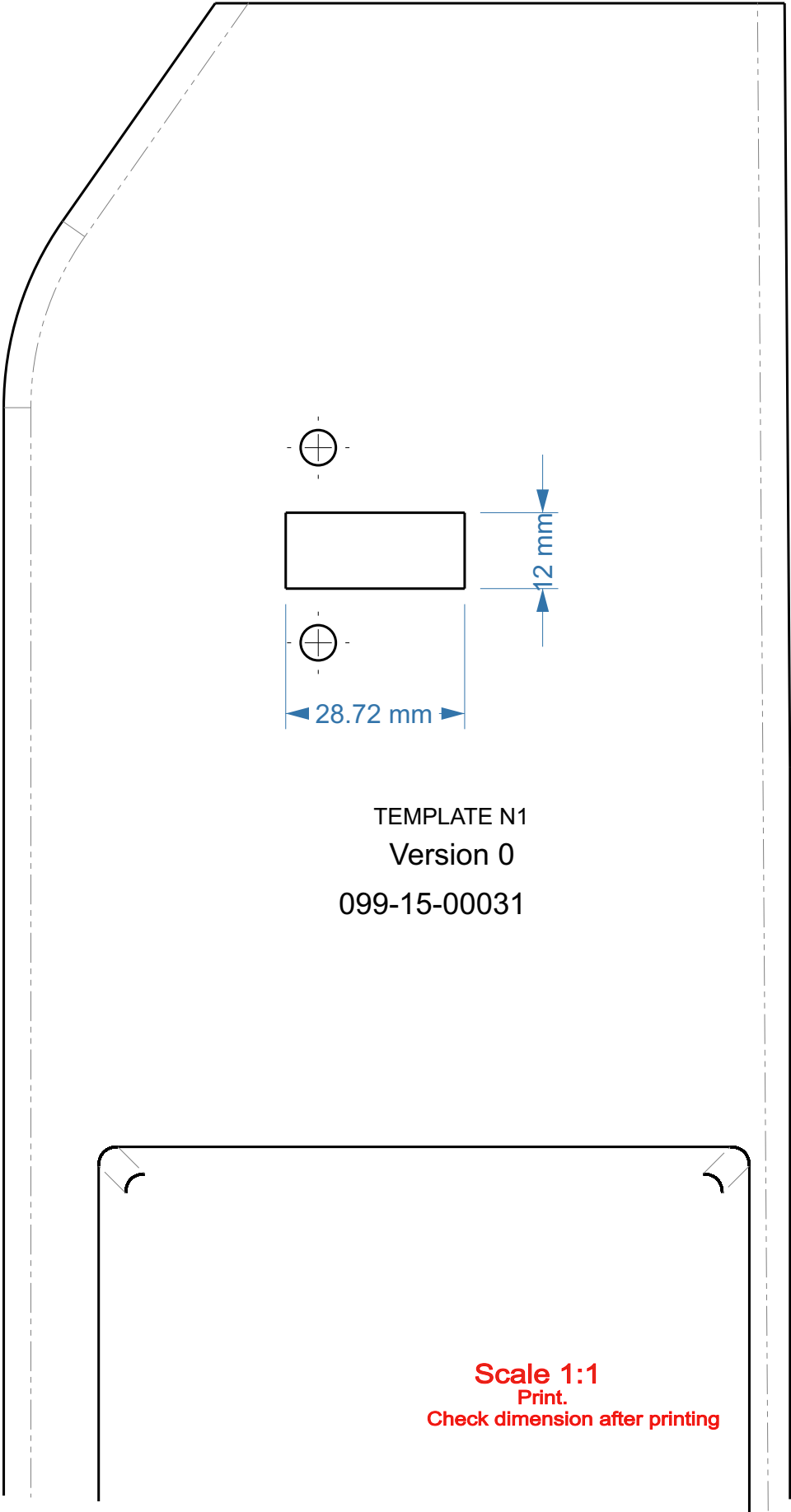
Please note:

Original central lock system still work with ASD. It remains fully functioning. For open door mechanism first turn OFF central lock.

ASD: Basic Troubleshooting

1. Door does not function.
 - Check main fuse.
 - Check connections of power terminals to the control unit, motor and operating switch.
 - Check Control units
 - Check motor.
2. Door does not operate upon commencing the closing mode or when reaching the fully closed positions it reverses.
 - Check the safety pneumatic pressure tube; disconnect the plugs of pressure switch and close the door.
 - If the issue is not solved, try to regulate the sensitivity of the pressure switch.
 - Check safety switch.
 - Check control unit.
3. Door does not close completely.
 - Check voltage of battery, if low, start the engine.
4. Door does not open, although the electrical motor is engaged.
 - Check position of the locker unit, which annuls the OEM locking system of the door.
 - Check lock actuator (for DL model only).
5. Door does not automatically reverse when encountering an obstruction during the closing mode.
 - Check safety pneumatic switch.
 - Check pressure tube & switch.
 - Check control unit.
 - Check remote device (inside sliding door for DL model only).
6. Noise from the door's chain during opening and or closing modes.
 - Check installation and alignment of all wheel supports, front and rear, as well as the gear motor support.
 - Very loose chain may also jump over and cause damage to the sprocket's main motor.
 - Check chain tension and if needed shorten it by removing one or two "links".
7. Remote control unit does not function.
 - Check connection of power terminals.
 - Check battery of the key unit transmitter.

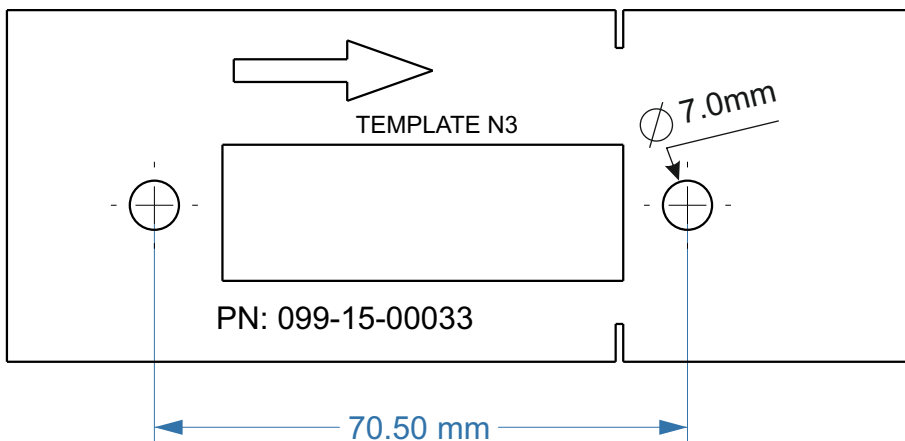
If issue still persist replace remote control receiver with two transmitters
8. If equipped with VSS, the door operates although the vehicle is in motion over 5Km/h.
 - Check connections to VSS.
 - Check control unit.
9. Buzzer does not operate during the closing mode.
 - Check control unit.



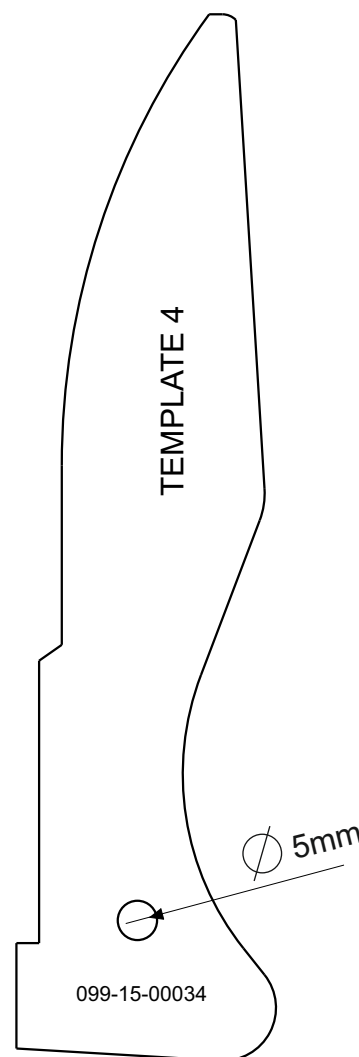
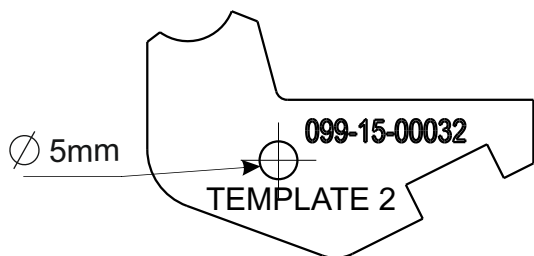
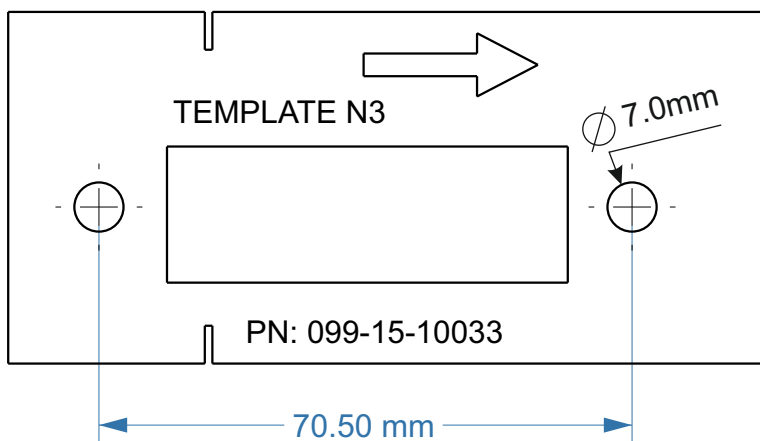
TEMPLATE N1
Version 0
099-15-00031

Scale 1:1
Print.
Check dimension after printing

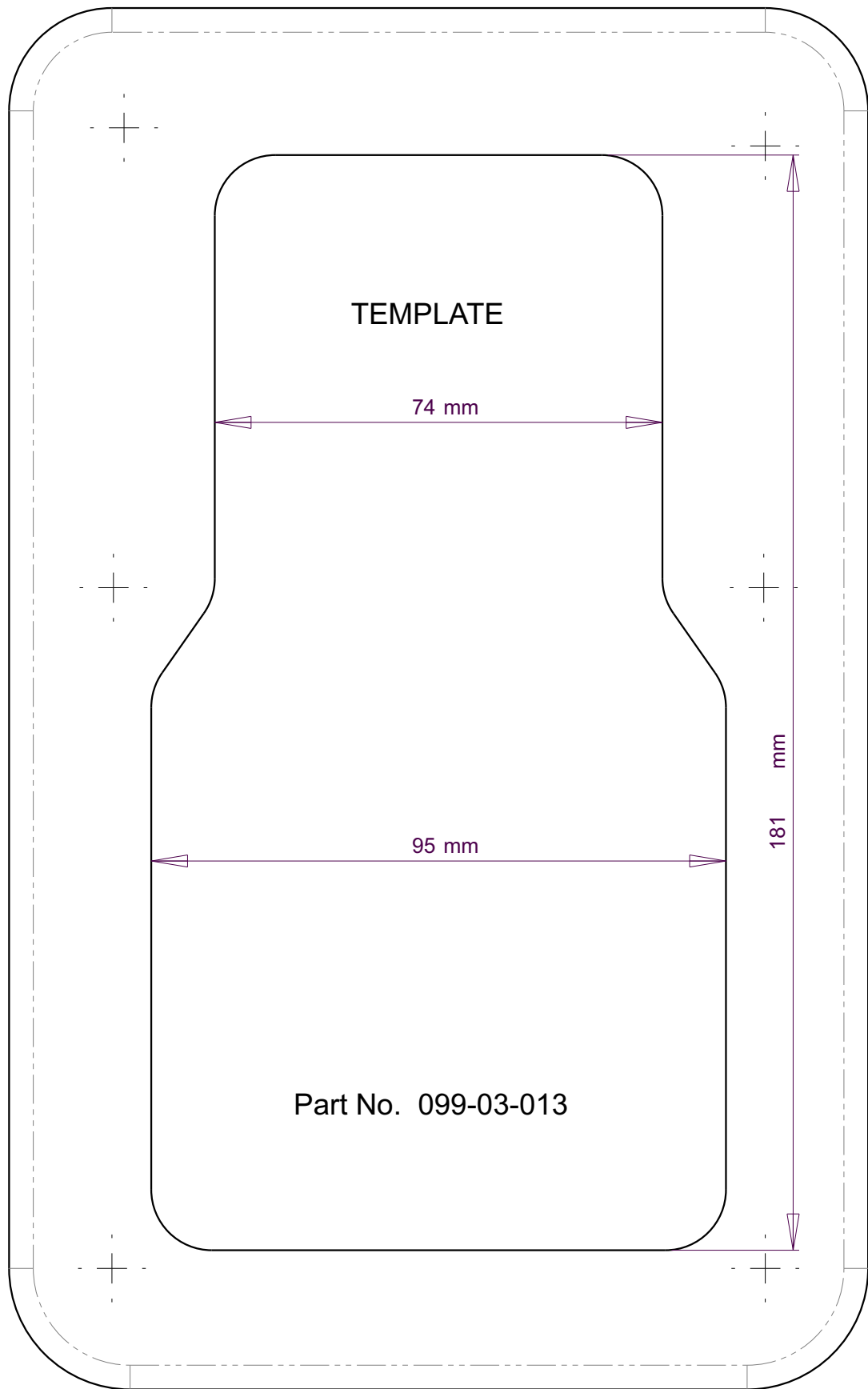
Compact standard roof and panel van (See Page 7)



With side window (See Page 9)



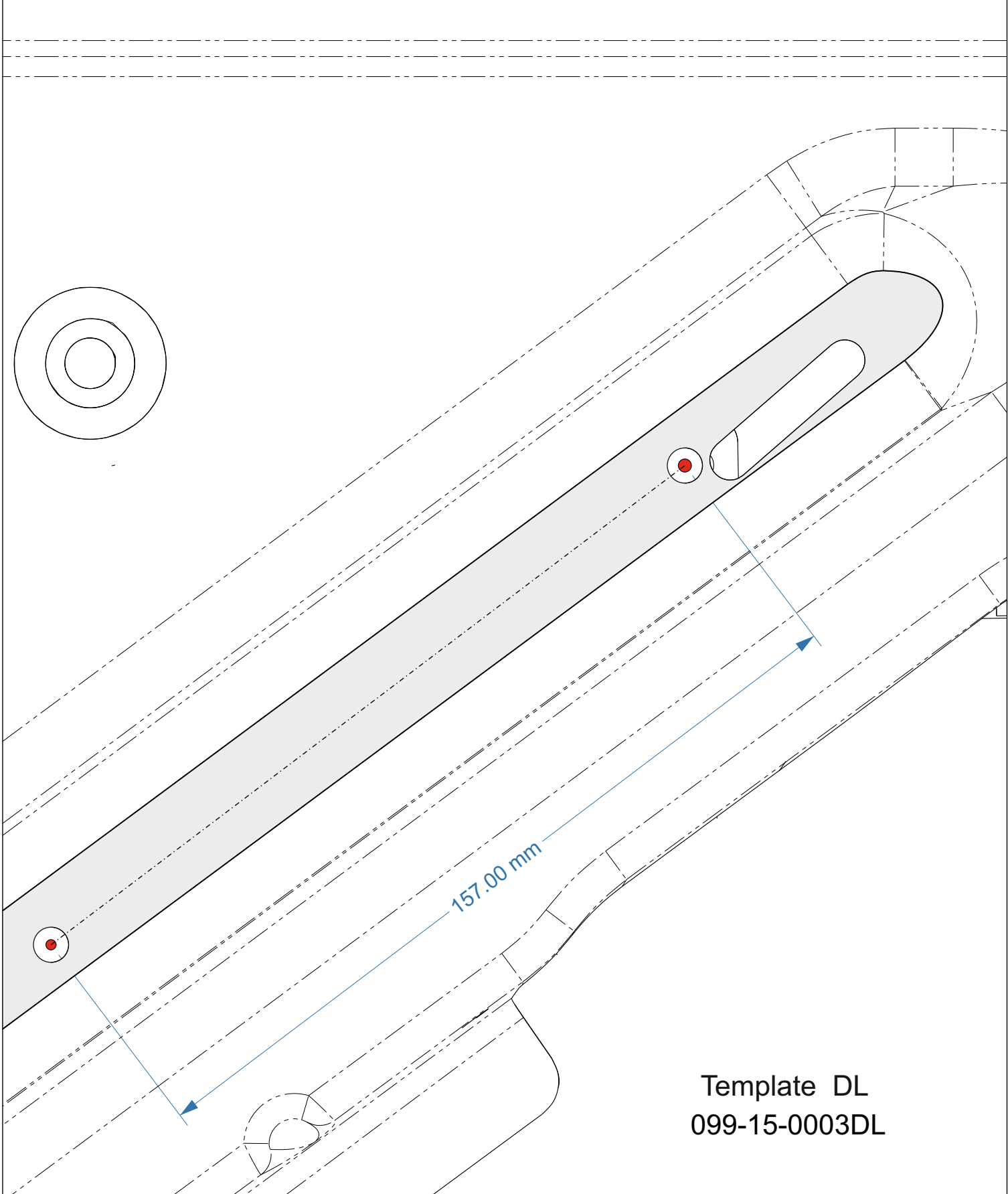
Scale 1:1
Print.
Check dimension after printing



Scale 1:1

Print.

Check dimension after printing



Template DL
099-15-0003DL

Scale 1:1

Print.

Check dimension after printing

Version 0

Tools required for installation

ASD. AAD. STEP. ATG



Air Reciprocating Saw




Saw BLades



13mm Pneumatic Drill




Hand holding battery-powered electric drill




or

High speed threaded insert tool



or

Heavy duty hand tool for field and low volume production use



or

Small hand tool for prototype work and repairs.



Soldering-iron



Flashlight or drop light

Pencil or marker

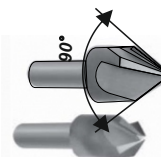
Safety Glasses



Tape 50mm Masking



Straight Flute HSS Step Drill
diameter 4-30mm



Drill Point Countersinks



Straight Shank Twist Drill
diameter 4mm / 5mm / 6mm/ 6.5mm / 7mm / 9.5mm 12mm



T-Handle Set



Hand Files



Heavy Duty Snap Blade Knives



Wire Stripper/Crimper



Locking plier



Combination Wrench Set Metric



Plier Set



1/4" Drive Socket Set metric



Screwdriver Set