

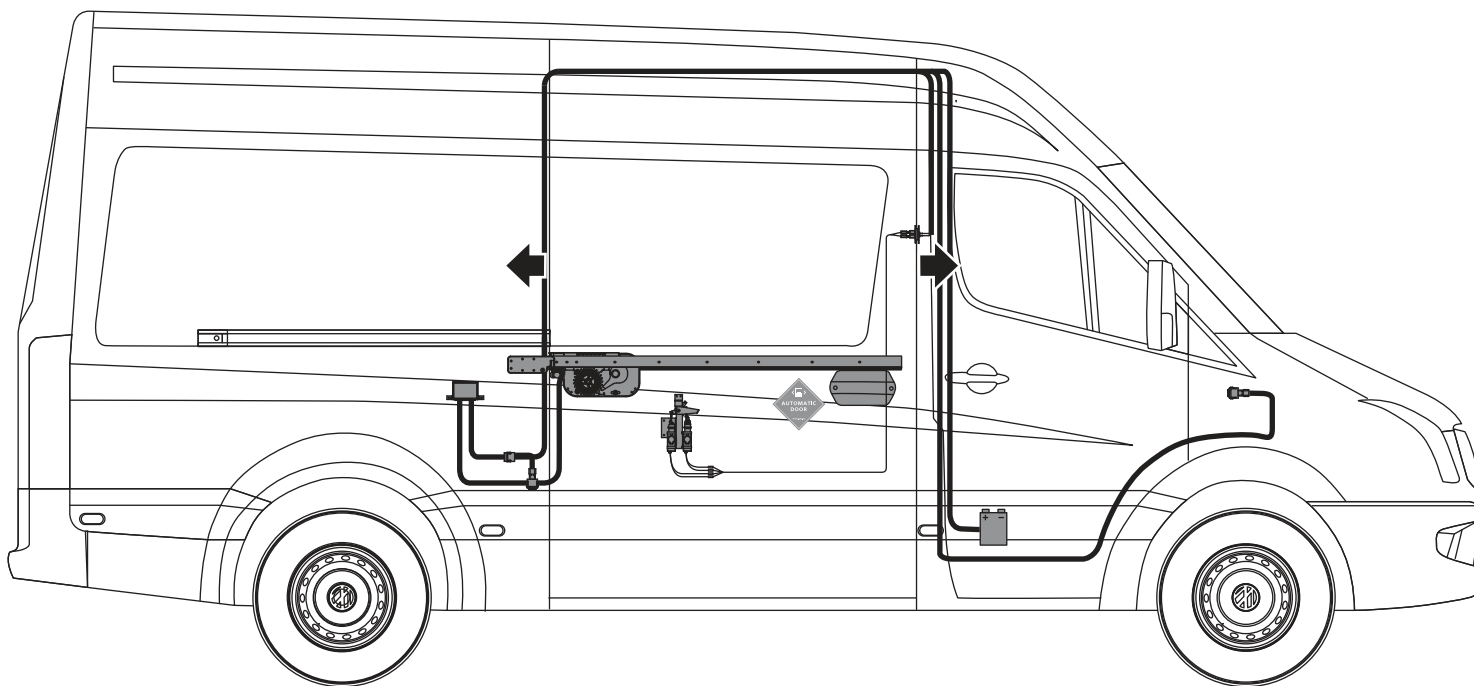


automatic doors

RACK AND PINION DRIVE

INSTALLATION MANUAL CROCO 102/107

MERCEDES SPRINTER BR907, 906 from 2006
VOLKSWAGEN CRAFTER 2006-2018




Symbols and means of visualisation

Warnings




Warning notices are used in these instructions to warn you of damage to property and personal injury.

- Always read and follow these warnings.
- Follow all measures labelled with the warning symbol and warning word.

Warning symbol	Warning word	Meaning
	WARNING	Hazards for persons. Non-observance can lead to serious injuries.

Other symbols and visualisation aids

Important information and technical instructions are specially emphasised to clarify correct operation.

Symbol	Meaning
	means 'Important information'. Information to prevent material damage, to understand or optimise work processes.
	means 'additional information'
	Symbol for an action: You have to do something here. ► Keep to the sequence for several action steps.

Product liability

In accordance with the manufacturer's liability for its products as defined in the Product Liability Act, the information contained in this brochure (product information and intended use, misuse, product performance, product maintenance, information and instruction obligations) must be observed. Failure to do so releases the manufacturer from his liability obligation.

Applicable documents

Type	Name
Operations Manual	Croco 102 / 107

The plans are subject to change. Only use the latest version.

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1.1 Intended use

The Croco 102 / 107 rack-and-pinion drive is designed for the automatic opening and closing of sliding doors. The door operator is only suitable for use in panel vans.
This door operator fulfils the requirements of UN/ECE R107, 7.6.5.

Any use other than the intended use, e.g. permanent manual operation, and all modifications to the product are not permitted.
Observe the 'ADOR product information for drives'.

1.2 Safety instructions

- > Prescribed installation and maintenance work must be carried out by qualified personnel.
- > Assembly requires holes to be drilled in the body parts. The exact position of these drill holes is required in order to maintain the positional accuracy of the assembled components.
- > The country-specific laws and regulations must be observed for safety inspections must be observed.
- > Unauthorised modifications to the drive exclude any liability on the part of ADOR for resulting damage.
- > ADOR accepts no warranty for combinations with third-party products.
- > Only original ADOR parts may be used for repair and maintenance work.
- > In accordance with the Machinery Directive 2006/42/EC, a hazard analysis must be carried out before the door system is a risk analysis must be carried out and the door system labelled in accordance with the CE marking directive 93/68/EEC.
- > Observe the latest directives, standards and country-specific regulations, in particular:
 - > DIN VDE 0100-600: 'Installation of low-voltage systems; Part 6: Tests'
 - > DIN EN 60335-2-103, DIN 18263-4
 - > Accident prevention regulations, in particular BGV A1 'Principles and prevention' and BGV A3 DA 'Implementation instructions for the accident prevention regulation 'Electrical Installations and Equipment'



The product should be installed in such a way that easy access to the product for repairs possible repairs and/or maintenance with relatively little effort and that any and any removal costs are not disproportionate to the economic value of the product. disproportionate to the value of the product.

1.3 Safety-conscious working

- > Secure the workplace against unauthorised access.
- > Only use the cables specified in the cable plan.
- > Secure loose, drive-internal cables with cable ties.
- > Before working on the electrical system: Disconnect the power supply to the starter battery.
- > Always use insulated wire end ferrules for stranded wires.
- > Ensure sufficient lighting.
- > Risk of injury when the sliding door is open. Hair, clothing, cables, etc. can be pulled in by moving parts!
- > Risk of injury due to unsecured crushing, impact, shearing and pull-in points!
- > Risk of injury due to sharp edges on the bodywork!
- > Risk of injury due to freely moving parts during assembly!

1.4 Testing the installed drive

Measures to safeguard against and avoid crushing, impact, shearing and drawing-in points:

- > Check the function of the automatic reversing in the event of contact with an obstacle.
- > Carry out a safety analysis (hazard analysis).




1.5 Environmentally conscious working

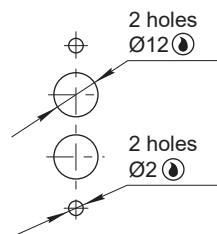
- > When disposing of the door system, separate the different materials and recycle them.
- > Do not dispose of batteries and rechargeable batteries with household waste.
- > Observe the legal regulations when disposing of the drive and batteries/rechargeable batteries.

2 List of tools and aids

Rivet nut _____	15 pieces
Drills 2,5; 3,2; 5; 6,5 _____	1 piece each
Drill _____	1 piece
Cutter _____	1 piece
Wire for pulling through _____	3 metres
Hacksaw _____	1 piece
Blade screwdriver _____	1 piece
Hammer _____	1 piece
Clip remover _____	1 piece
Center punch _____	1 piece
Combination pliers _____	1 piece
Cross-slotted screwdriver _____	1 piece
Torch _____	1 piece
Spanner wrenches, Open-end wrenches _____	1 set
Knife _____	1 piece
Sliding calipers _____	1 piece
Riveter for blind rivet nuts Gesipa GBM10 _____	1 piece
Set of interchangeable heads 10 up to 17 mm _____	1 piece
Ratchet _____	1 piece
Industrial spirit _____	1 bottle
Set of Allen keys _____	1 set
Set of Torx bits _____	1 set
Cutting nippers _____	1 piece
Metal ruler _____	1 piece
Taper drill 4 up to 24 mm or peeler drill _____	1 piece each
Electrical socket extender _____	1 piece

There may appear some edge fin after making holes, finally it leads to the damage of the paint coat. There are symbolic notations on the places where some treatment is required:

-  --- Remove edge fin
-  --- Unedge
-  --- Treat with acid-free antirust liquid



3 Scope of delivery and completeness

- Open the packaging units and check for completeness.

Croco 102 / 107 rack-and-pinion drive for sliding doors

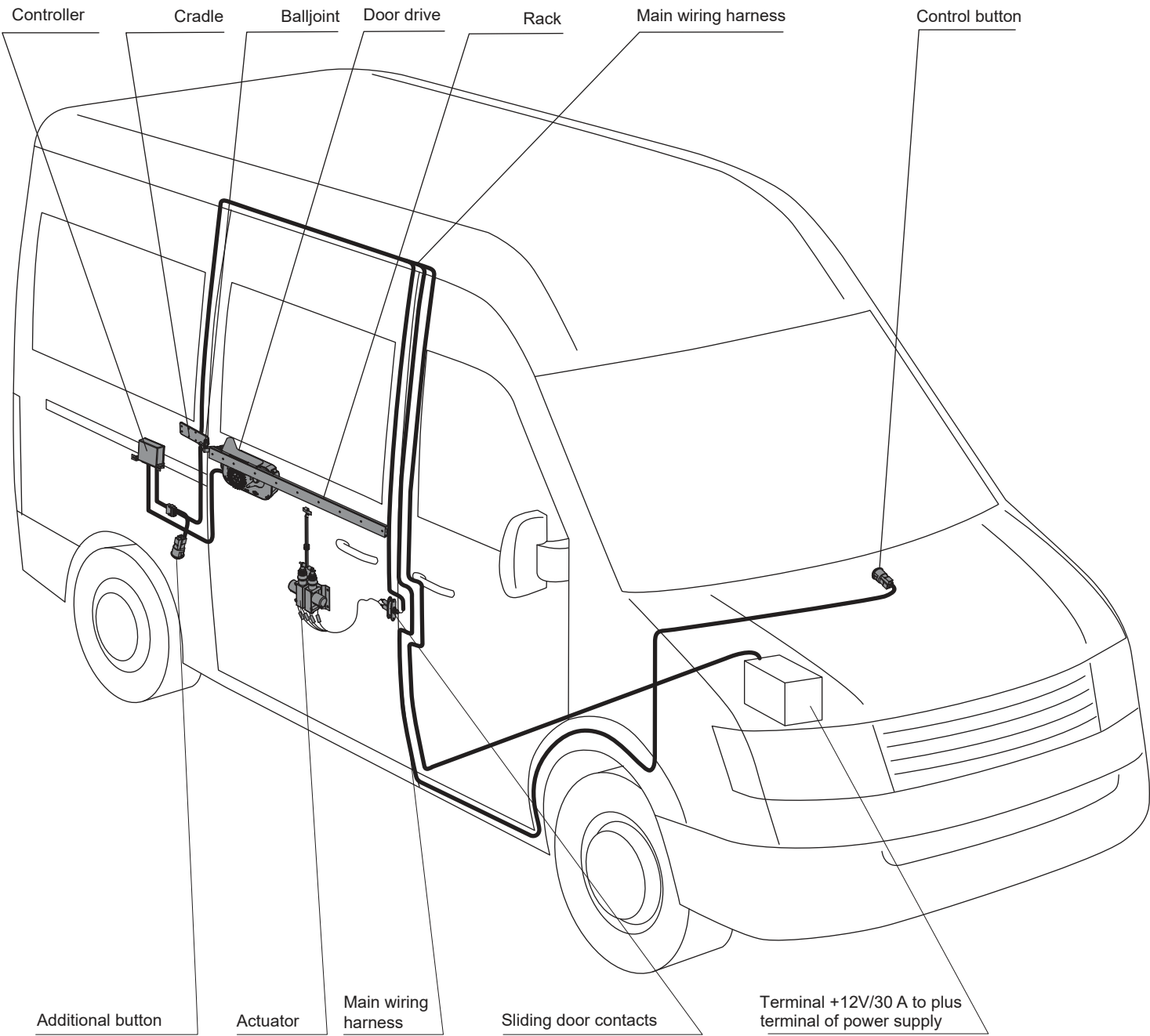
- > Drive
- > Controller
- > Main wiring harness
 - > Rack according
 - > Spacer strip (3x)
 - > Slab
 - > Mounting set
- > Cradle
- > Actuator
- > Contacts

Accessories (option)

- > Remote control (1 or 2 keys)
- > Touch button
- > Uninterruptible power supply (UPS)
- > Outside door handle cover
- > Safety edge on door edge
- > Operation of sliding door drive via inside and outside handle

4 Transport and storage.

- > The rack-and-pinion drive is not designed for hard knocks or for falling from a height. Do not throw or drop.
- > Storage temperatures below -30 °C and above +60 °C can damage the device.
- > Protect from moisture.



5.1 Product description

This rack-and-pinion drive is designed to open and close sliding door in Mercedes Sprinter (906, 907) and VW Crafter to 2018 minibus.

The layout of the units is shown on the base of the universal minibus prototype.

i This manual describes the installation of the rack-and-pinion drive with the widest range of drive units. If you install the rack-and-pinion drive without latch actuator or remote control then you have to omit the corresponding items of the manual.

5.2 Technical data

CROCO drive is designed for opening and closing doors in minibuses working as taxi buses or camper vans. You will find a list of models on the cover page. If your model is not listed, please ask us.

Power consumption (rating)	70 W
Power consumption (max)	250 W
Door-opening time, (it depends upon the opening width adjustment)	2 - 3 sec.
Door-closing time, (it depends upon the opening width adjustment)	2 - 3 sec.
Category temperature range	-40°C up to +55°C
Maximum slop for the door to be closed	10%
Resources	Not less then 800. 000 cycles



Durability and failure-free operation of Ador's drive depend directly on the quality of installation. Installation in specialised workshops is recommended. Experienced non-specialists should prepare themselves well and seek help if necessary.

5.3 Operating elements

Ador's drive is an electromechanical device powered from electric battery of a minibus. The drive consists of 2 parts:

a latch actuator and a sliding door drive

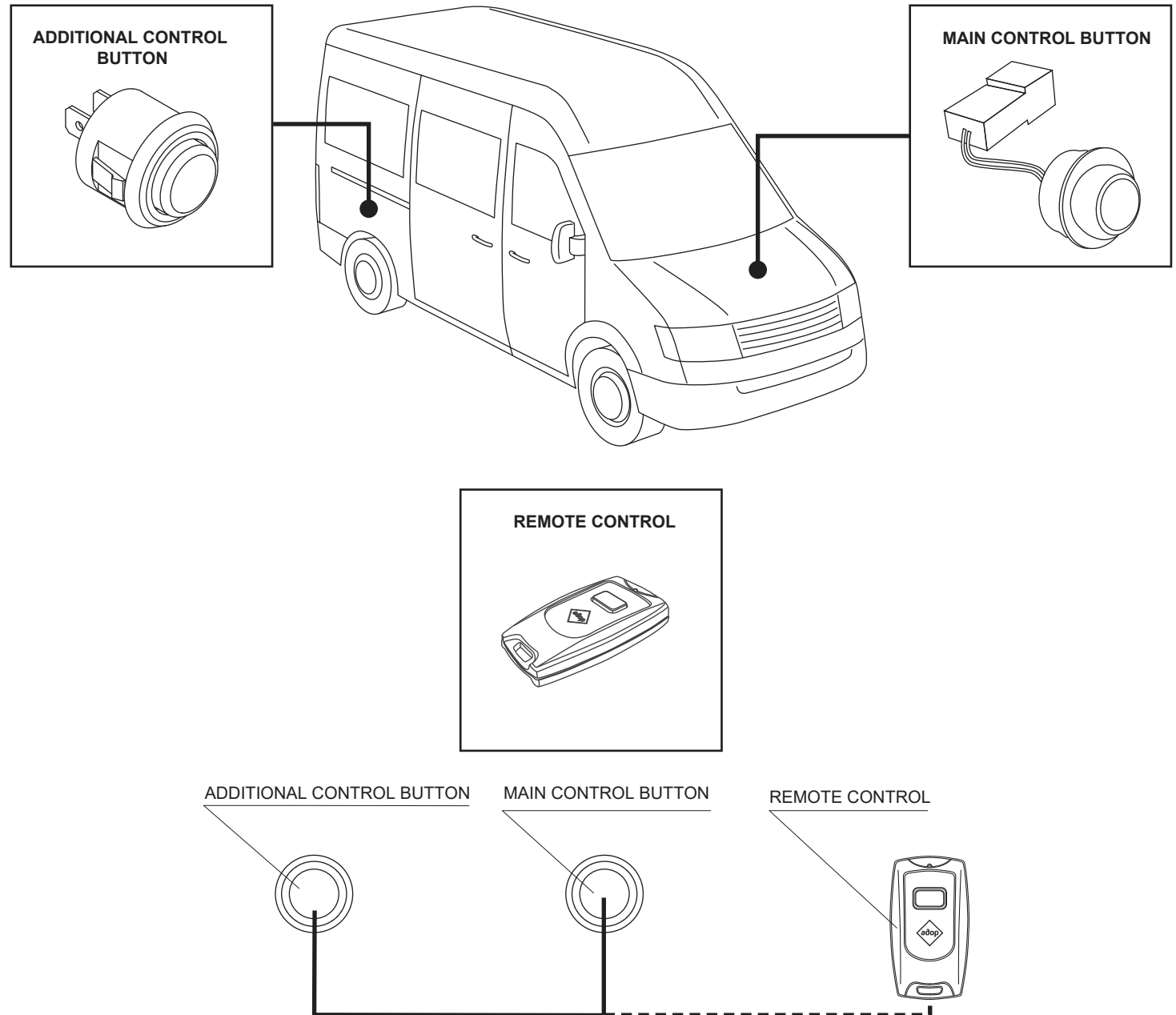
The latch actuator opens its latch, the sliding door drive opens and closes its door.

The drive control is performed with the help of:

- **Control buttons**
These buttons are designed for controlling the door and system adjustment.
- **Remote control**
It is used for controlling the door.

5.4 Drive functions

- **Opening and closing**
- **Stopping**
- **Automatic rollback**
- **Beep during opening/closing**
- **Adjustment of opening width**

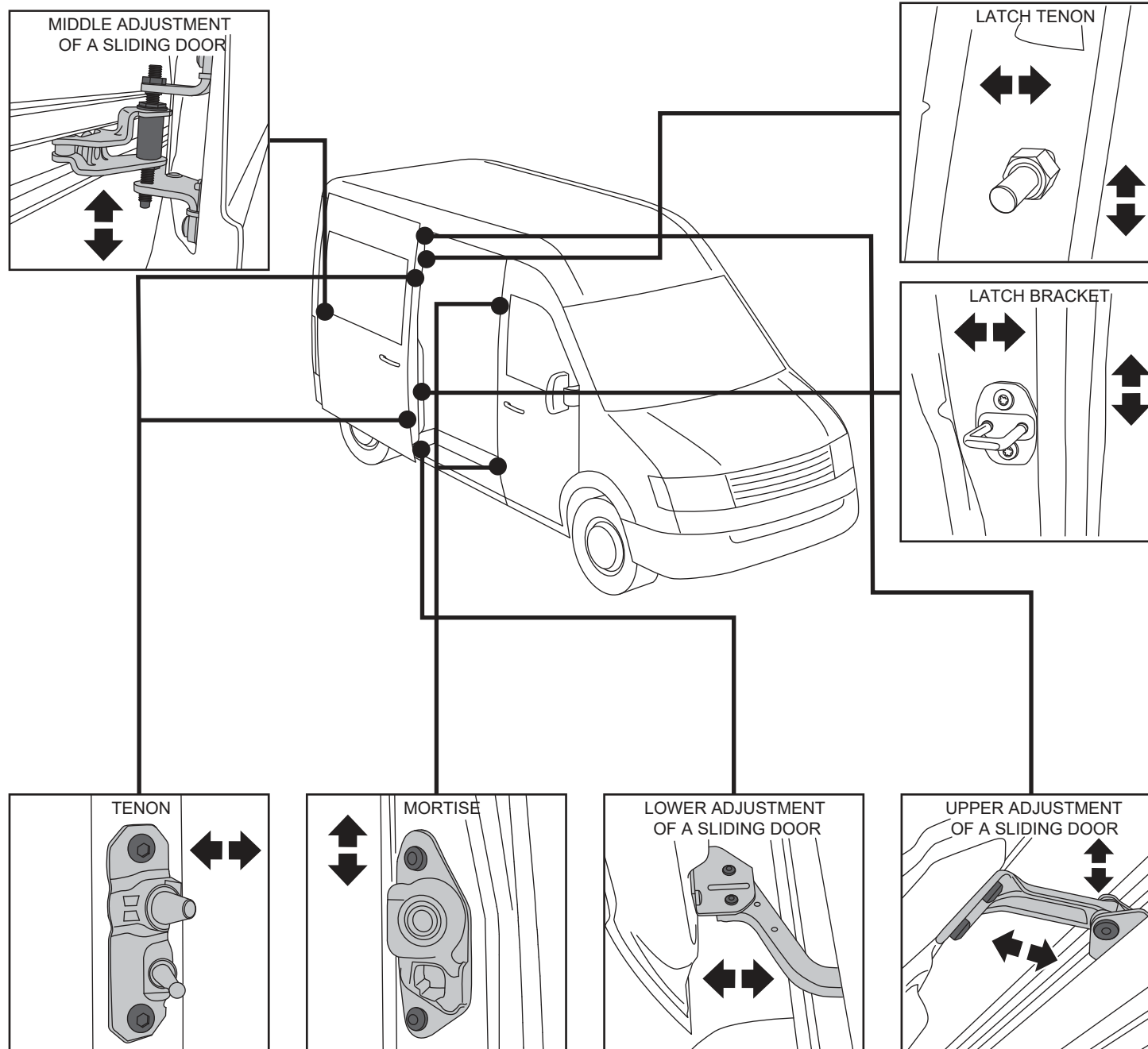


6 Installation

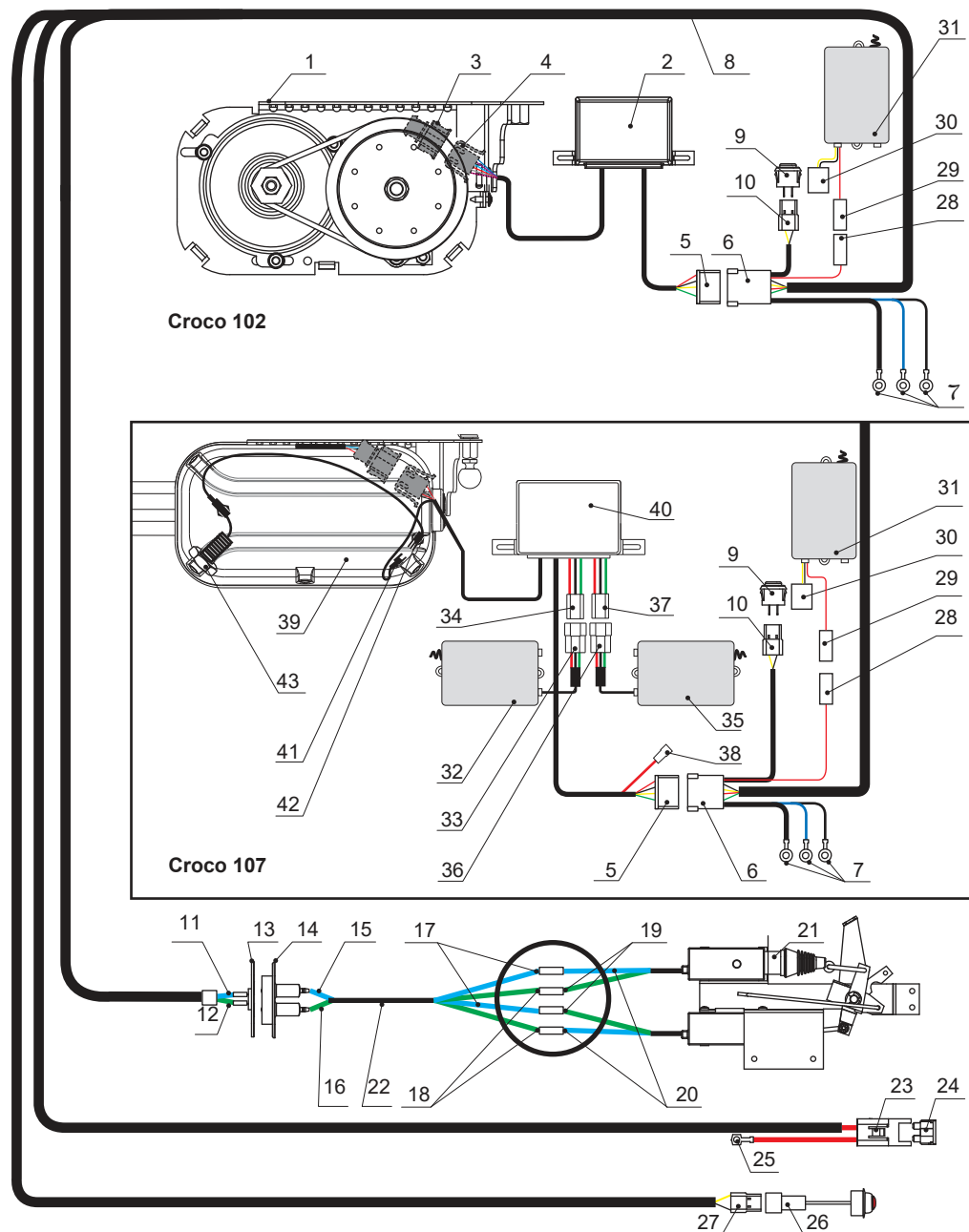
6.1 Instructions before starting installation

Before installing the drive, adjust the minibus's door because its adjustment influences the drive operation.

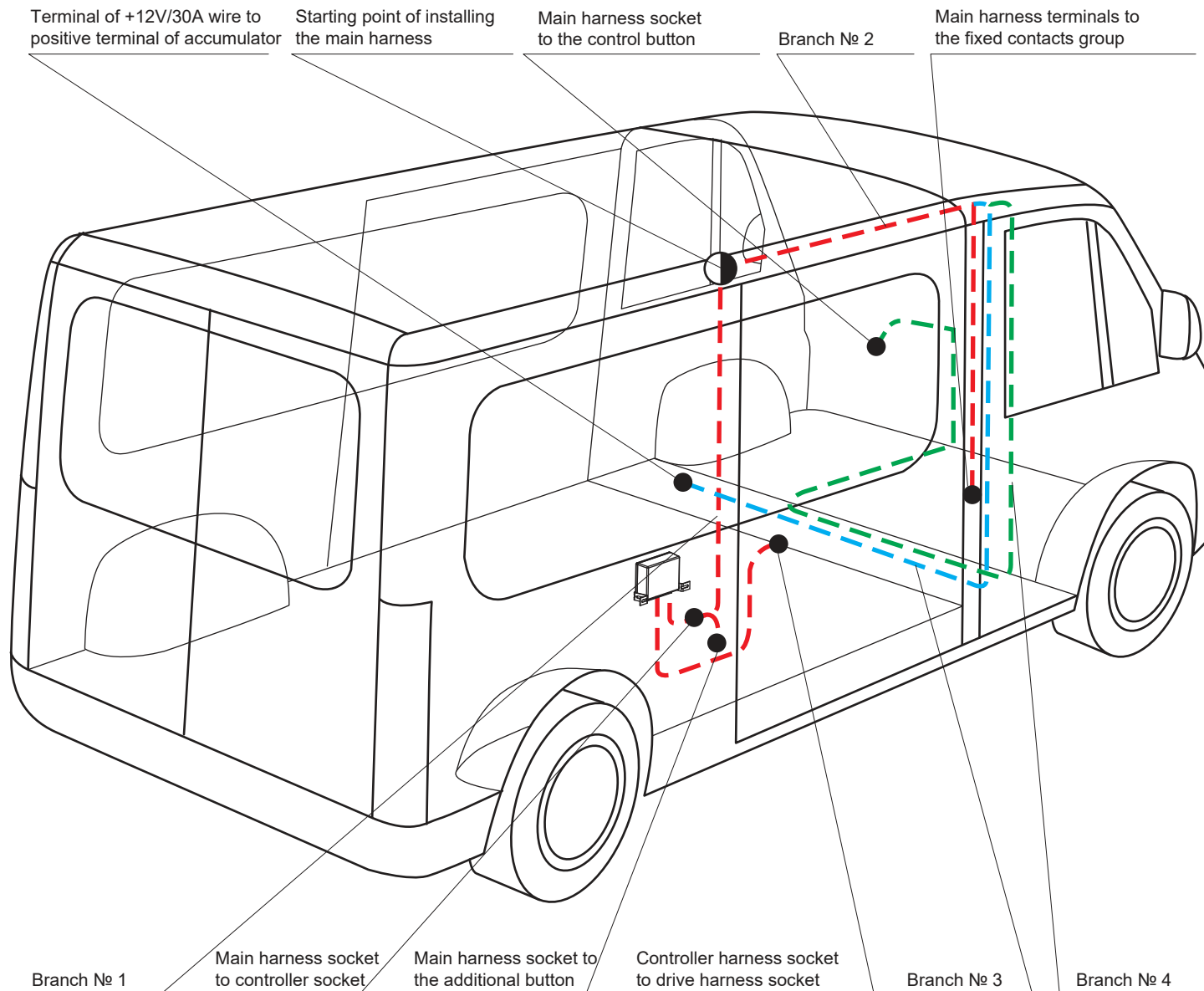
1. Wash out the door carriage guides with petrol and wipe them with dry rags.
2. Wash out the door latch mechanism, dry it and lubricate with WD-40.
3. Remove door tenons.
4. Adjust the door position in relation to its doorway (it is adjusted with the carriages). The closed door must not sag or go inwards minibus overly.
5. Adjust the latch tenon and latch bracket on the rear post in such way that it provides the minimum possible closing speed.
6. Check the sealing material when the door is closed. The sealing material must not shrink overly. Otherwise remove the sealing material and unbend its edge in the compressed places.
7. Install the door tenons, adjust their position.
8. Open and close the door when the bus is motionless.
9. Make sure that the sliding door retainers are in their positions and have no any visible damage or wear. Do not use the minibus without retainers or with damaged sliding door retainers.
10. Check the upper, middle and lower door adjustments. The door must go along the door guide easily without any jerks and knocks, it must open and close freely. The correctly adjusted door in a closed position must come to the sealing material tightly having the same equal gaps.



1. Croco 102 drive
2. Croco 102 controller
3. Drive wiring harness coupling
4. Controller wiring harness plug
5. Controller wiring harness plug
6. Main wiring harness coupling
7. Terminals of the ground wires "-" to the minibus's body
8. Main wiring harness
9. Additional button
10. Additional button connector and remote control
11. Terminal of main wiring harness's blue wire to the fixed contacts group
12. Terminal of main wiring harness's green wire to the fixed contacts group
13. Fixed contacts group
14. Movable contacts group
15. Terminal of the activator blue wire to the movable contacts group
16. Terminal of the activator green wire to the movable contacts group
17. Terminal of the activator blue wire
18. Terminal of the activator green wire
19. Terminal of the activator blue wire
20. Terminal of the activator green wire
21. Actuator
22. Actuator wiring harness
23. Terminal of 30 A fuse red wire
24. 30 A fuse
25. Plus red wire terminal (+12V) to plus terminal of power supply
26. Main control button
27. Main control button connector
28. Main harness +12V coupling
29. Main harness +12V plug
30. Reciever coupling remote control or/and drive control module to 10.
31. Reciever remote control or/and drive control module
32. Reciever drive control module of door handles
33. Reciever coupling of drive control module of door handles
34. Controller 107 plug of drive control module of door handles
35. Reciever safety edge
36. Reciever coupling to safety edge
37. Controller 107 plug of safety edge
38. Speedometre plug
39. Croco 107 drive
40. Croco 107 controller
41. LED torch coupling
42. LED torch plug
43. LED Torch



6.3 Main wiring harness layout 030.00.007.0005



All wires must be protected and firmly attached to avoid any breakage, abrasion or chafing.

When installing the main harness use steel wire to conceal the harness in the hidden places. Disposition of the main harness is shown in the picture. Be careful while installing the harness insulating material must not be damaged.

Begin installing the main harness at the starting point as shown in the picture in the following order:

- Extend branch №1
- Extend branch №2
- Extend branch №3
- Extend branch №4

When extending branch №1 disconnect socket from the main harness. Do not forget to mark the colours of the wires in the socket.

6.4 Controller installation and minus terminal connection

In the car C-pillar place and screw up a controller with two self-tapping screws 4,2x12 from the hardware bag as shown in fig. 1

To fix ground wire «-» terminals it is required to make a hole with diameter Ø 6.5 mm in any place of the car inside bar, next to the controller as shown in fig. 1 and fig. 2. Remove the paint around the hole completely so you can see metal in order to provide a good contact as shown in fig. 3. With the bolt M6x14, toothed washer and the nut M6 from hardware bag fix the ground wire «-» terminals as shown in fig. 4. The toothed washer must be between terminals and a car body. After tightening an M6 screw, apply the rust proofing on the surface with damaged rust-proofing paint.



It is necessary to place the controller so as working hole looked down to prevent the controller card from ingress and accumulation of condensate (v. fig. 1)

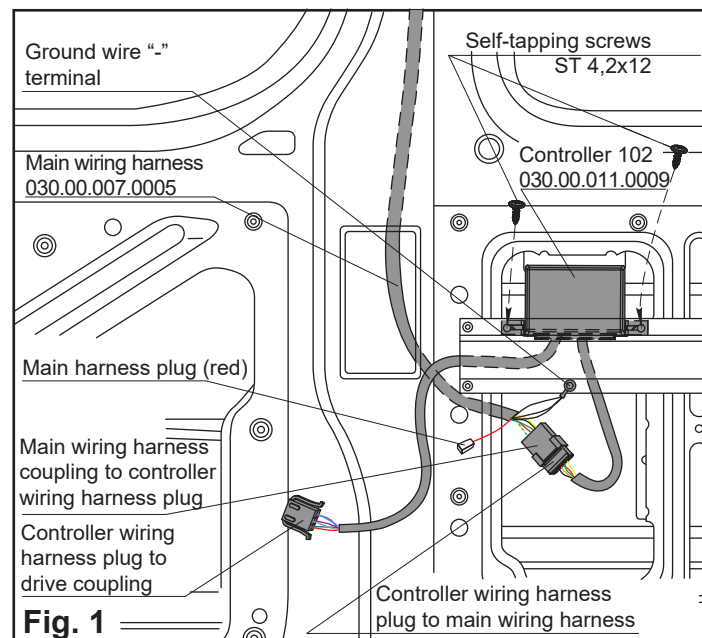


Fig. 1

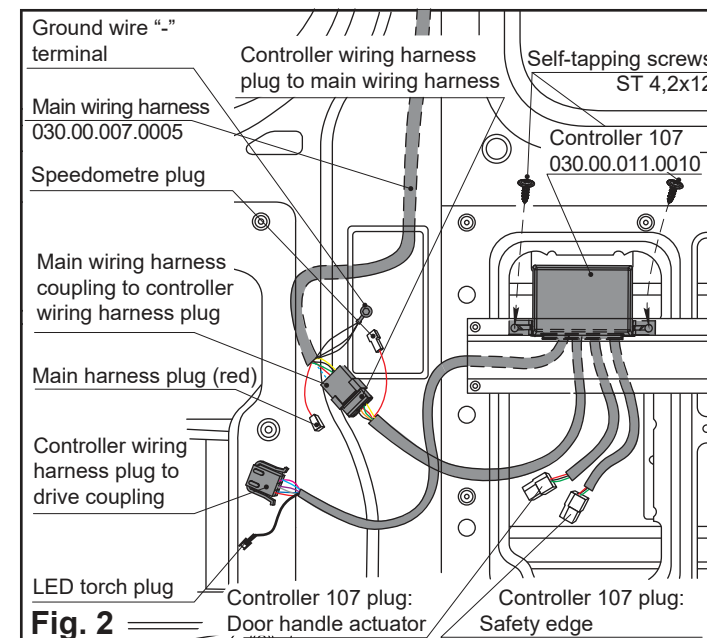


Fig. 2

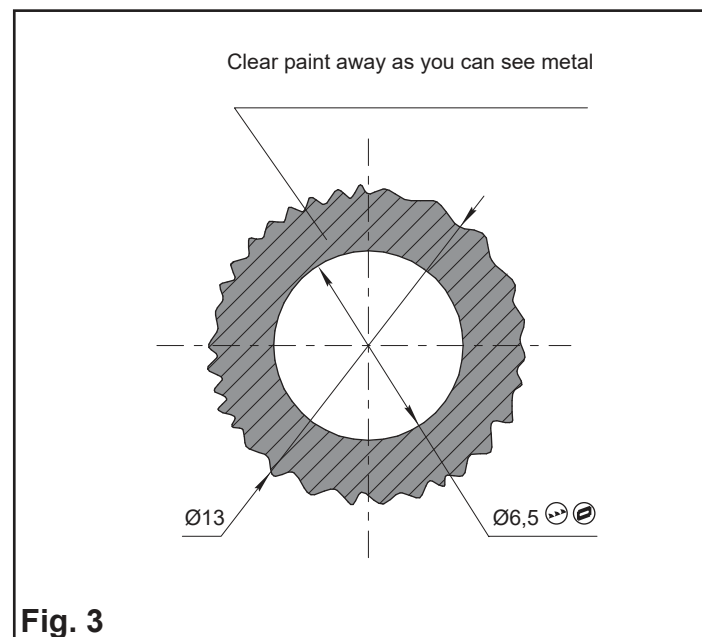


Fig. 3

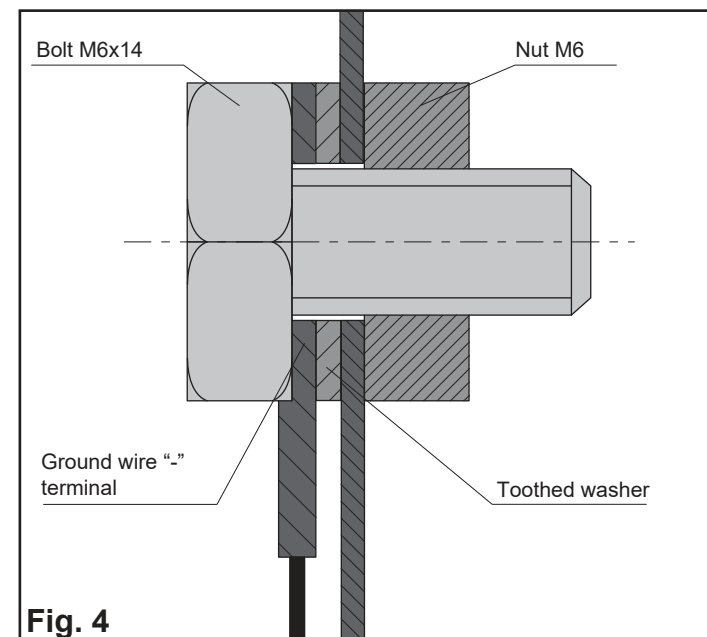
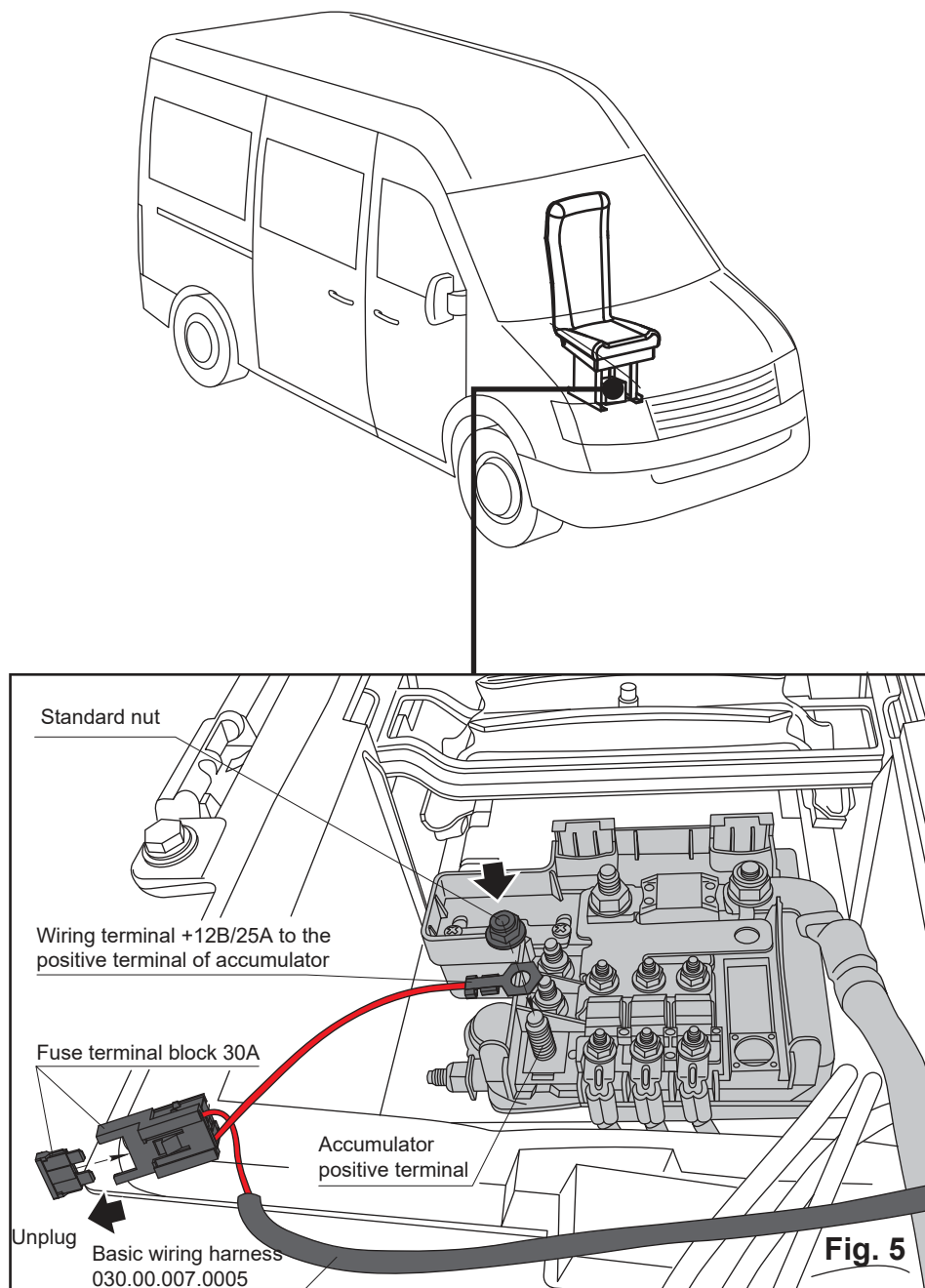


Fig. 4

6.5 Positive wire connection to power supply

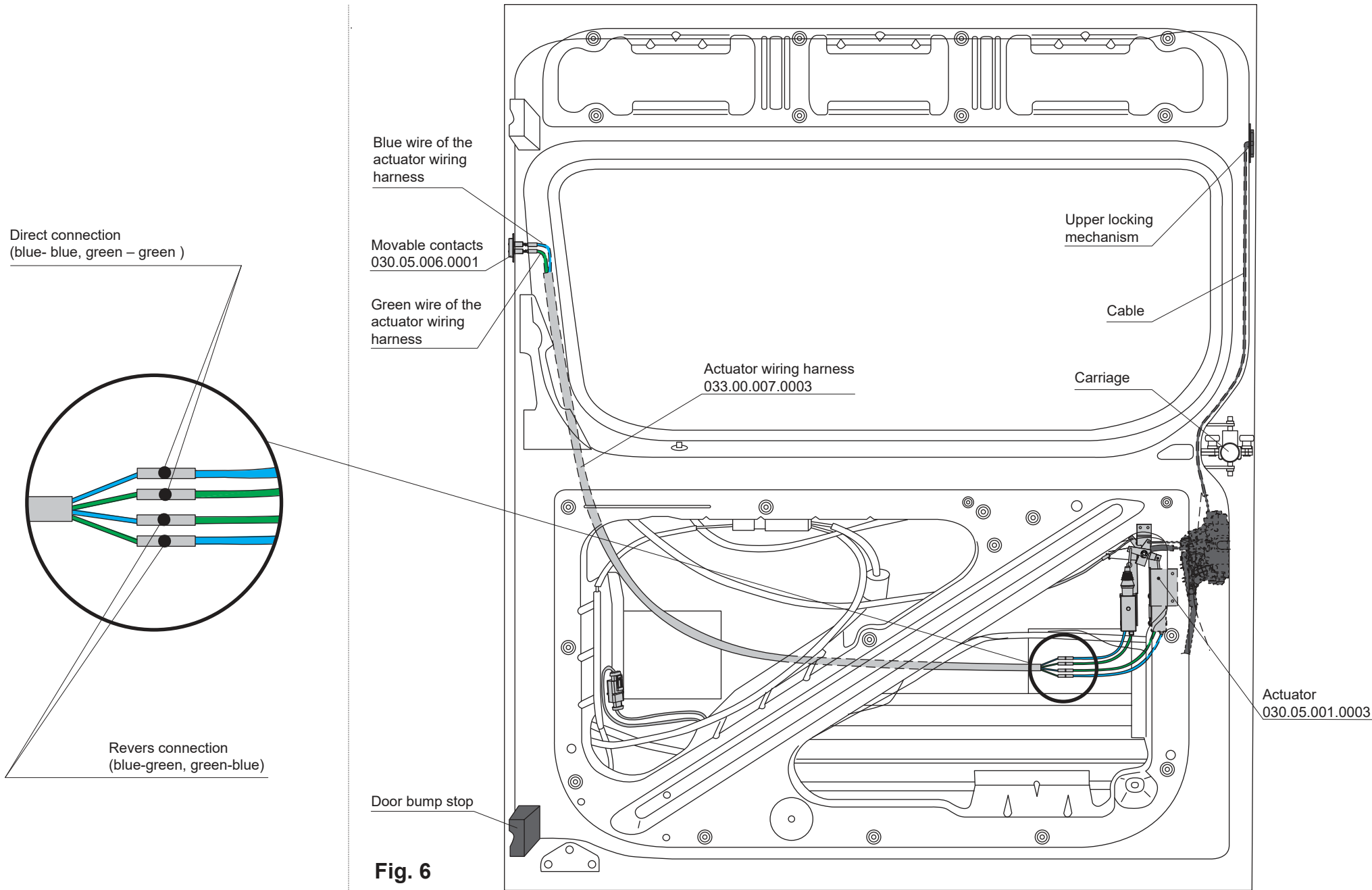


Connect the wire terminal +12V of the main wiring harness to a free positive accumulator terminal, which is under a driver's feet. Fix the wire terminal +12V of the main wiring harness with the standard accumulator nut.



Before connecting, please, take the fuse 30A out of the fuse terminal block.

6.6 Actuator 030.05.001.0003 and actuator wiring harness installation 033.00.007.0003

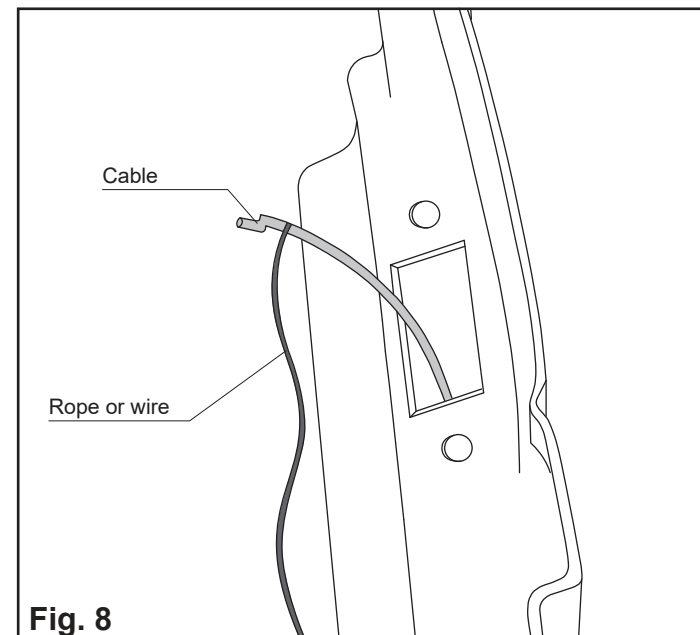
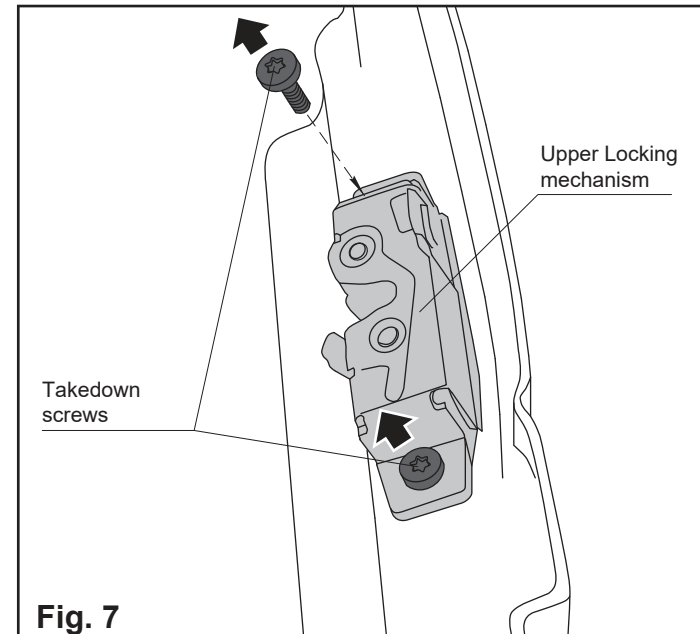


Removing the upper locking mechanism

Remove the upper locking mechanism by loosening 2 screws (Fig. 7).

Clamp the end of the cable.

Secure the cable with a rope or wire against falling (Fig. 8).



Dissemble the lock door. To do so undo three screws from its fixation (fig. 9).



The lock cannot be detached until upper locking mechanism is attached and cable connected.

Remove the lock from the door housing. Disconnect the labeled cable (fig. 10).

Set the rod instead of it, and fix the cable on the lock actuator bracket (fig. 11).

Set the lock and the upper locking mechanism back (fig. 7 and fig. 9).

Close the door.

Put the lock actuator into door housing as shown in fig 12. Adjust the preliminary pull-up of the lock actuator rod, moving it to the right or to the left (free movement of the rod must be 2-3 mm), see fig. 11.

Fix the lock actuator with one self-tapping screw, and try to place the actuator so as standard lock must be opened both with inside and outside handles.

If door is blocked, the lock must open only from inside.

Mark up four fixing holes with diameter Ø5 mm and drill them. Fix the door lock actuator with rivets 4.8x12 from the hardware bag (fig. 12)

Connecting the cables see Fig. 6.

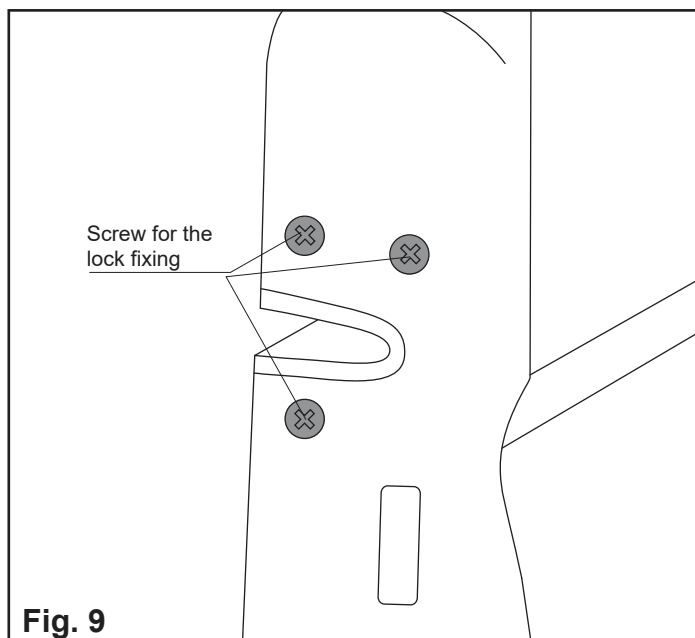


Fig. 9

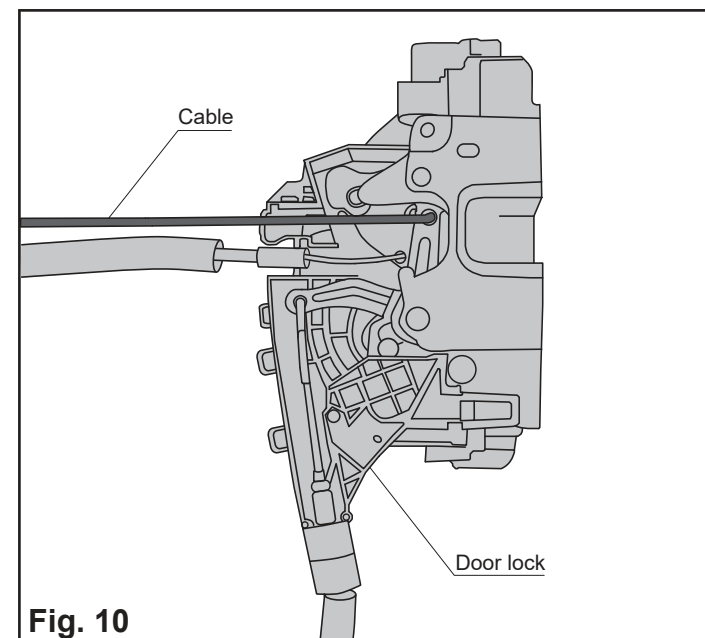


Fig. 10

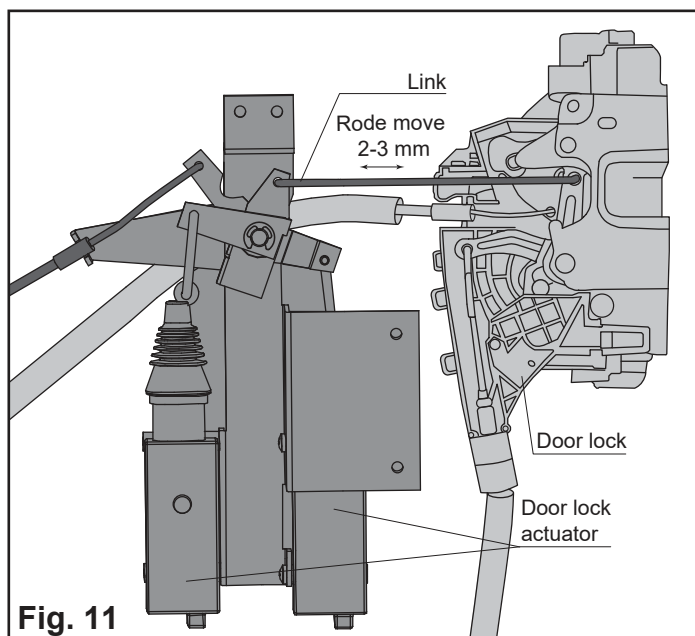


Fig. 11

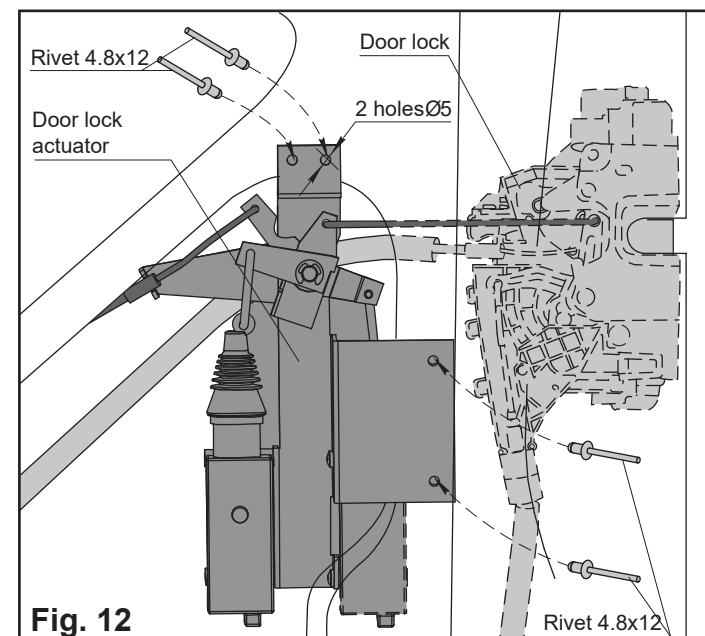


Fig. 12

6.7 Layout of sliding door limit switch 030.00.006.0001 and control button installation

Movable contacts group

Mark the drill holes as shown in Fig. 13.
Drill two holes with $\varnothing 14$ mm and
two holes with $\varnothing 2.5$ mm.

Attach the blue cable to the upper flag
and the green cable to the lower one, see
page 12.

Secure the movable contacts group with two countersunk
screws ST3.5x19 (supplied), Fig. 13.

Fixed contacts group

The position of the fixed contacts group can be adjusted
by opening and closing with contact marks on the paint,
Fig. 14.

Alternatively, the position between the sliding door
and the body can be measured.

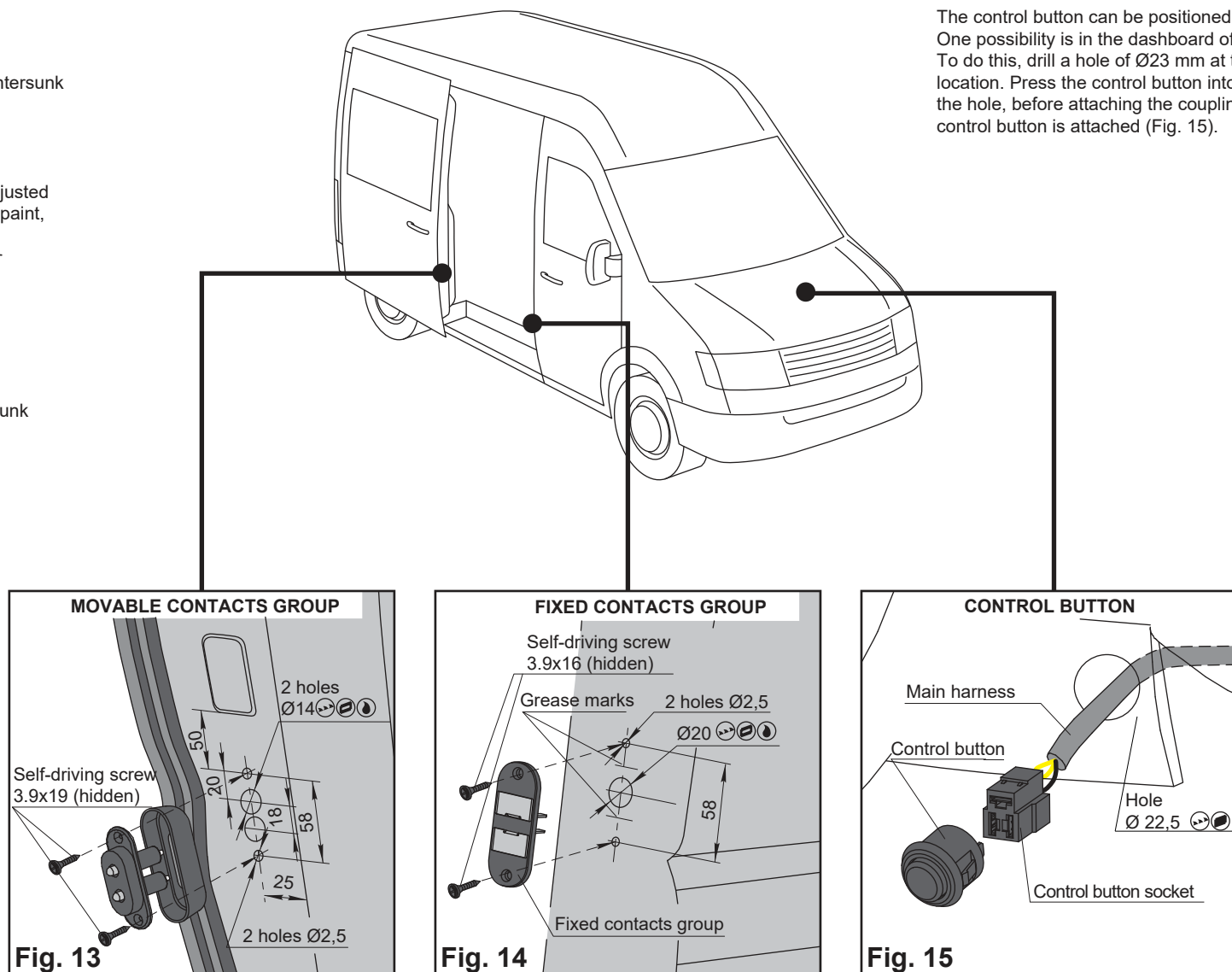
Mark the drill holes as shown in Fig. 14.
Drill one hole with $\varnothing 20$ mm and
two holes with $\varnothing 2.5$ mm.

Secure the fixed contacts group with two countersunk
screws ST3.5x16 (supplied), Fig. 14.

Attach the blue cable to the upper lug
and the green cable to the lower one.



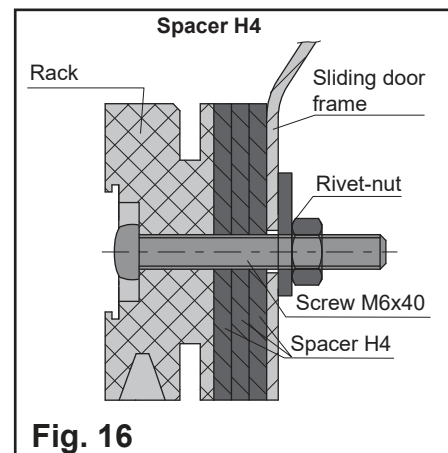
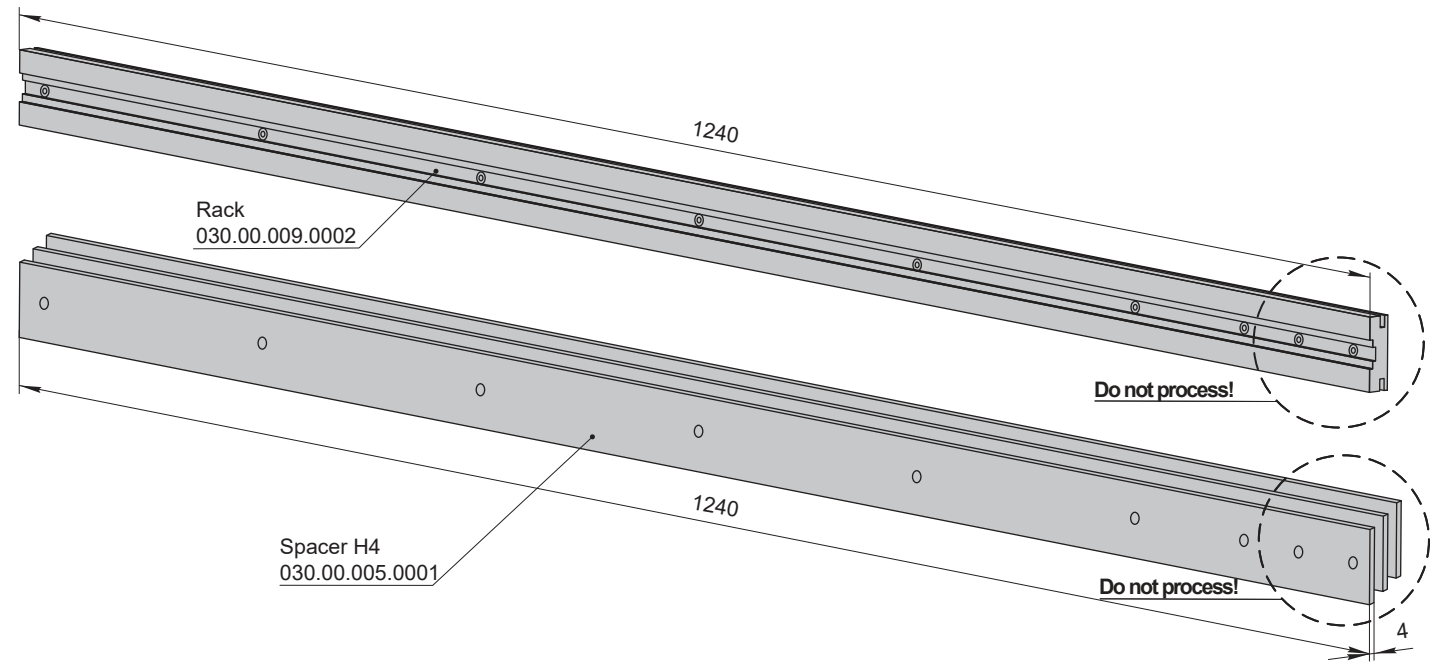
The contacts group can also be
in the area of the contact switches
of the vehicle.

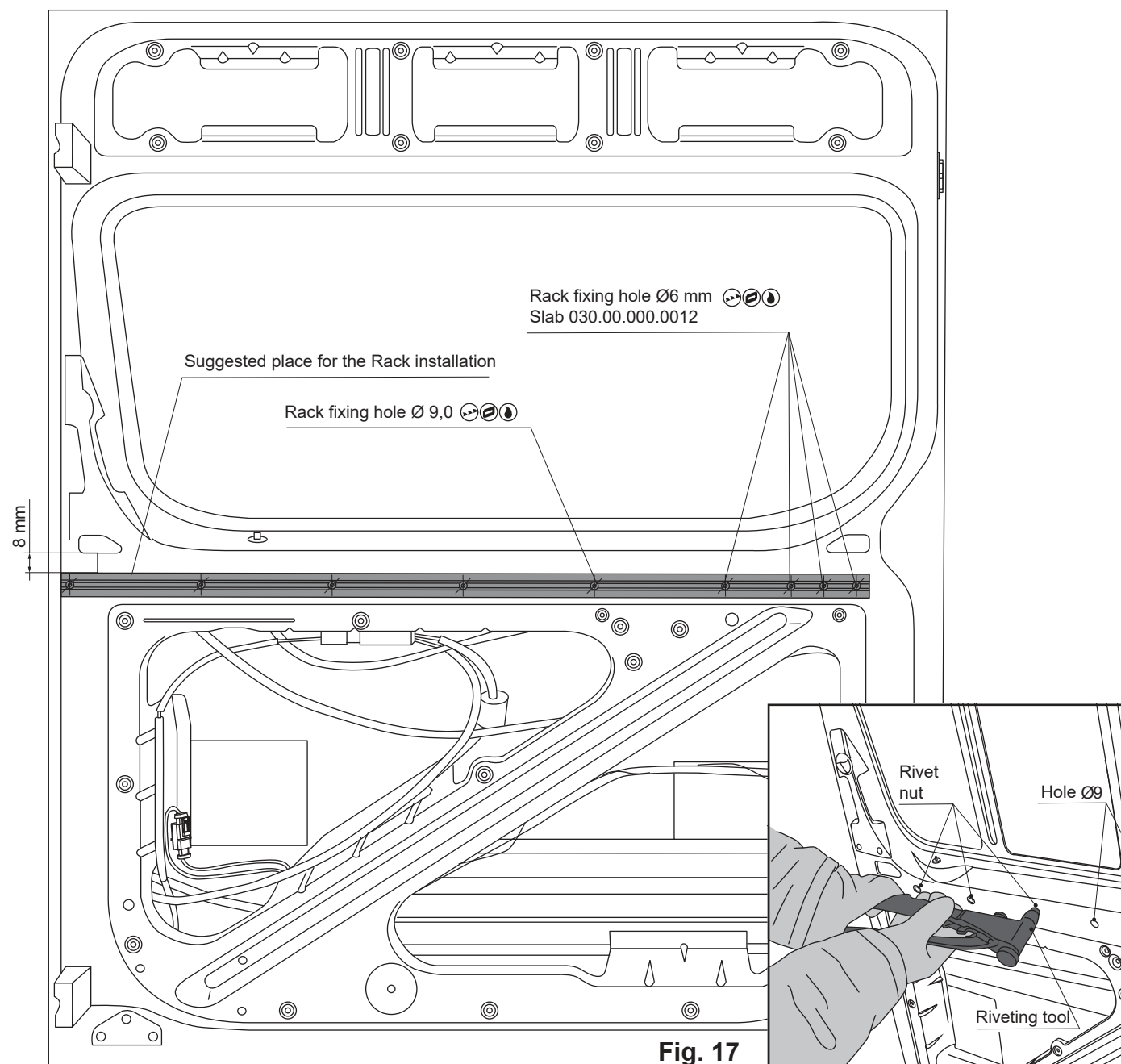


The control button can be positioned anywhere.
One possibility is in the dashboard of the vehicle.
To do this, drill a hole of $\varnothing 23$ mm at the desired
location. Press the control button into the hole
the hole, before attaching the coupling for the
control button is attached (Fig. 15).

6.8 Rack mounting

It is recommended to lay two linings H4 between the rack and the sliding door panel (fig. 16).
The lining H4 comes as a set of three.





This page shows the recommended installation location for the rack on the sliding door.

Remove the door panelling when the sliding door is unhinged or closed sliding door.

The recommended position for the rack is shown in shown in Fig. 17.

Align the holes in the rack with the holes on the sliding door with a marker.



The four holes on the right and one on the left are required for fastening.
The rack may be fastened in the centre be fastened through a hole in the centre.

Make a mark on these markings with a centre punch.

Use a Ø4 mm drill to drill through the sheet metal at all markings. All holes must be aligned.

Drill the four holes on the right with a step drill to Ø6 mm using a step drill.

Drill the other holes with a step drill to Ø9 mm using a step drill. Insert M6 rivet nuts into these with the riveting tool (not included in the scope of delivery).

Fasten the rack with the following scope of delivery:

1. screws M6x40
2. M6 nut on slab

6.9 Bracket mounting

Remove the door seal in the mounting area of the bracket, Fig. 18.



Position the bracket on the C-pillar as follows horizontally so that level A of the rack is $9 \text{ mm} \pm 1 \text{ mm}$ higher than level B of the bracket and dimension C between the rack and the bracket is $8 \text{ mm} \pm 2 \text{ mm}$.

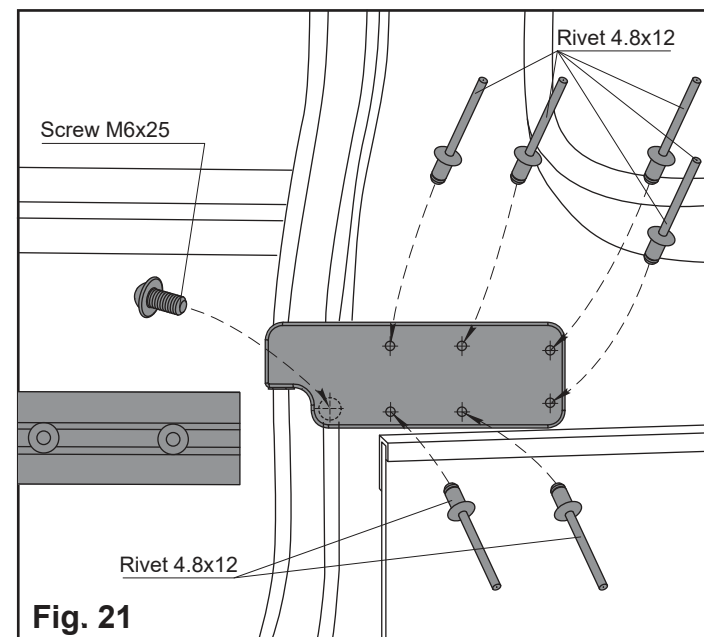
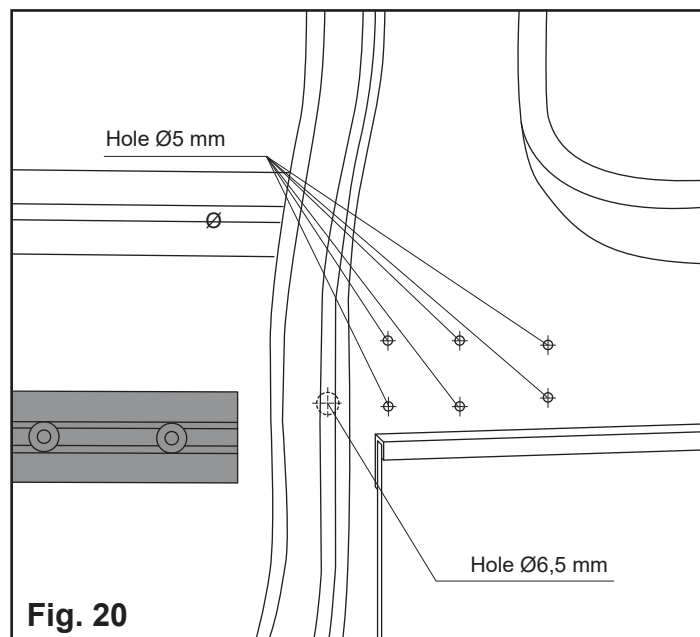
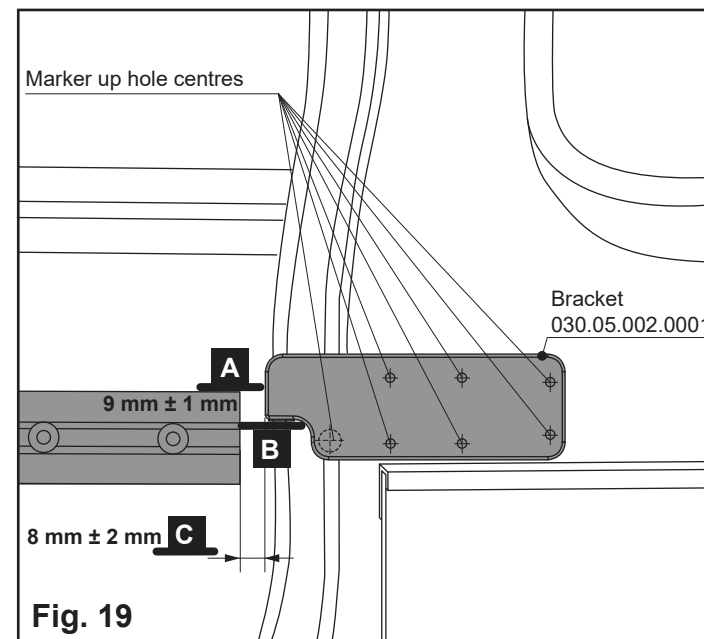
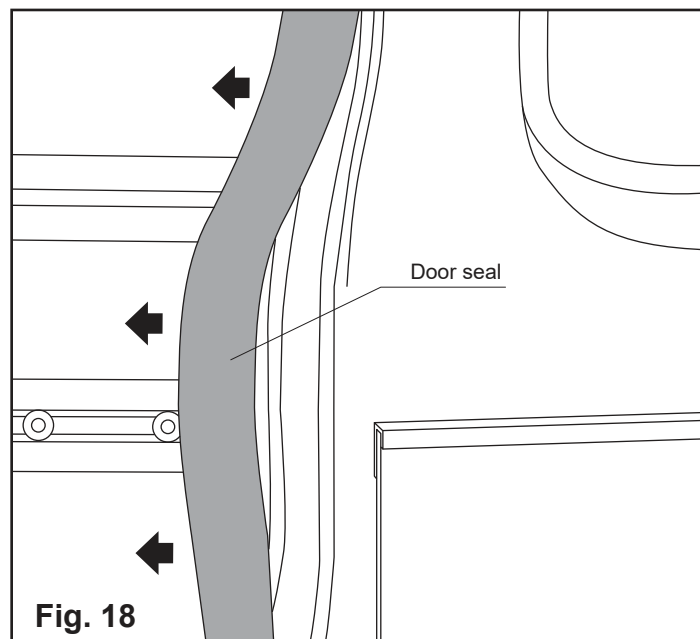
Mark the drilling points over the holes in the bracket, Fig. 19.

Drill the $\text{Ø}6.5 \text{ mm}$ hole for the M6x25 screw.
Drill the 6 $\text{Ø}5 \text{ mm}$ holes for the 4.8x12 rivets, alternatively 4.8x22 self-tapping screws can be used, Fig. 20, 21.

First screw on the hinge plate with M6x25, then fasten the rivets, these fasteners are included in the scope of delivery.

A piece must be cut out of the door seal in the area of the balljoint, Fig. 18.

Replace the door seal.



6.10 Preliminary preparation

Attach the balljoint with the bracket (SW14), Fig. 22.

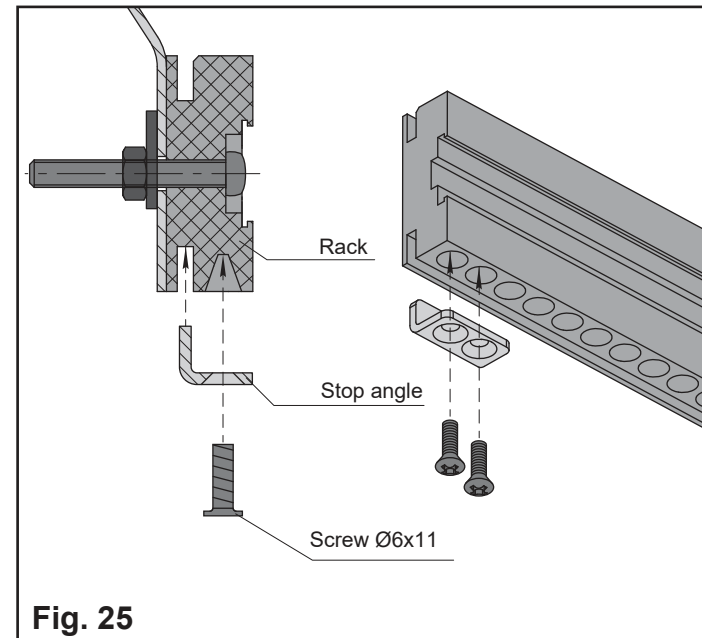
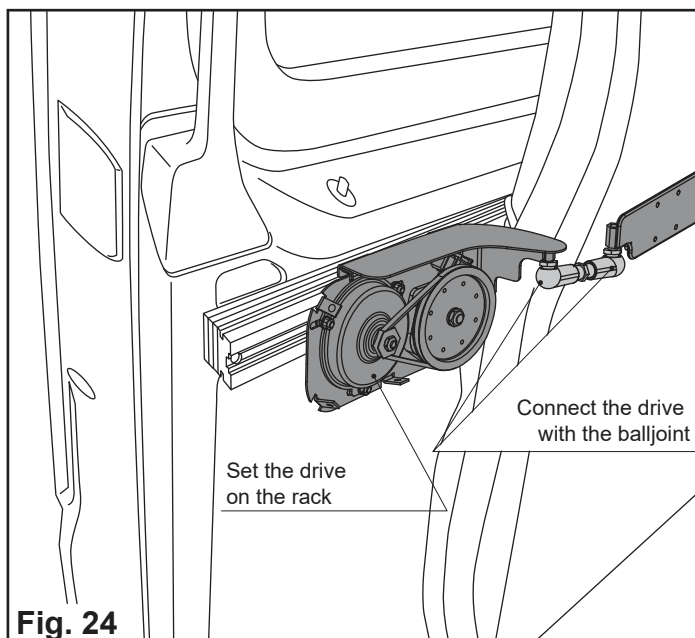
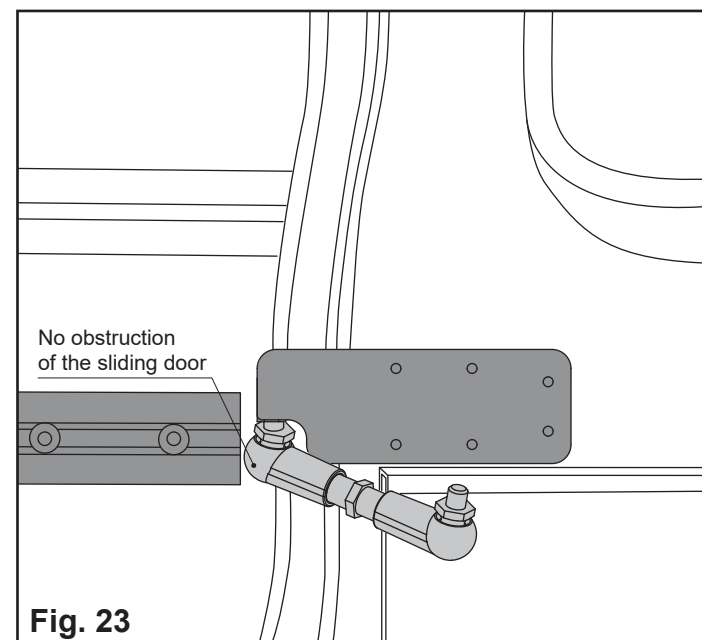
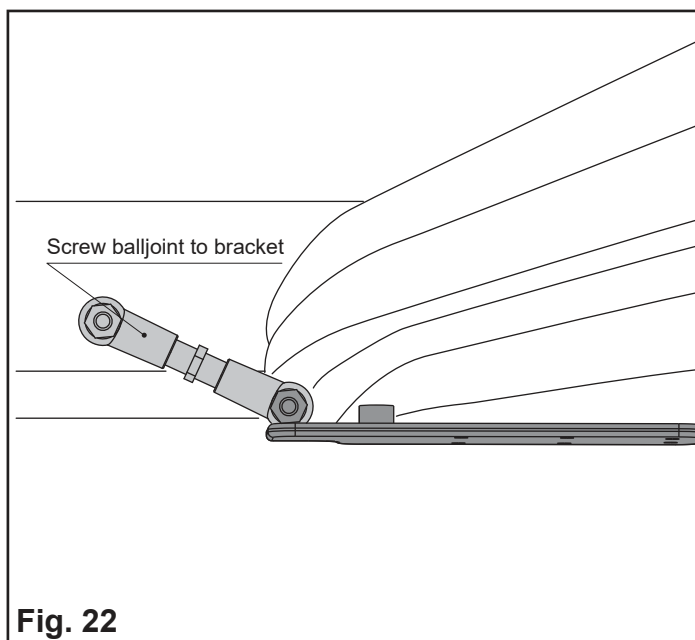
Close the door manually.

Check to be sure that racks of the bearing item and the balljoint do not make the door closing difficult, Fig. 23.

Install the door drive on the rack, Fig. 24.

Connect the drive to the rear bearing with the balljoint (SW14).

For the desired end position in the open position
Install the stop angle. If necessary, two
two Ø3 mm holes can be drilled into the existing
holes, drilling depth approx. 5 mm, Fig. 25.



7 The first cycle

7.1 The first cycle of rack-and-pinion drive

Clean the rack housing from cuttings, Fig. 26, 27.

Connect the drive to the controller.

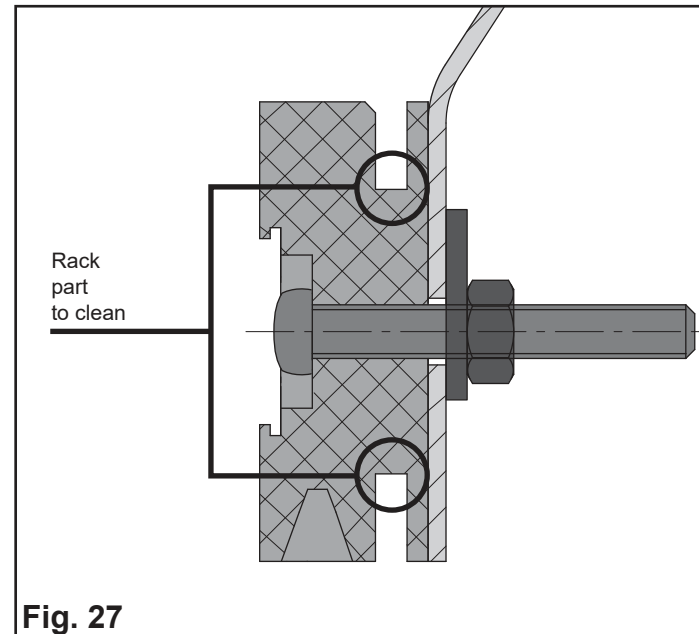
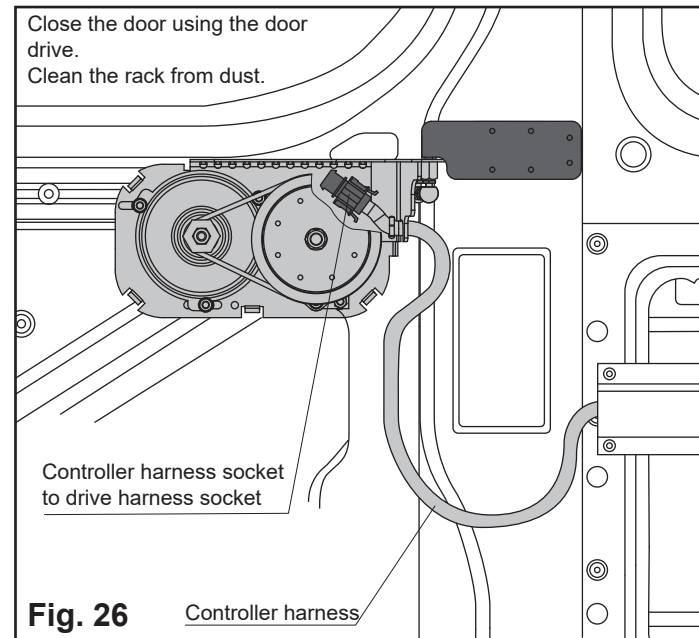
Insert the switch fuse 30A into the fuse block.
Thereby, the controller will produce a long audio signal!

Press the control button. Thereby, the drive will close the door, and the controller will be producing audio signals for 1-2 sec.
After that, launch the opening operation. Thereby, the drive will open the door and slightly move till the block stop lock.

Then the drive will operate as usual.



Before detaching the drive (if needed) or disconnecting controller, unplug switch fuse 30A first.



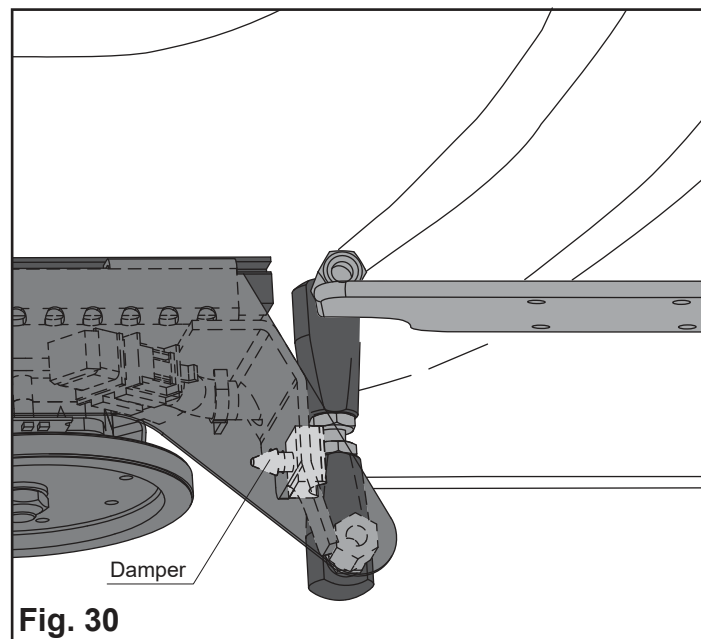
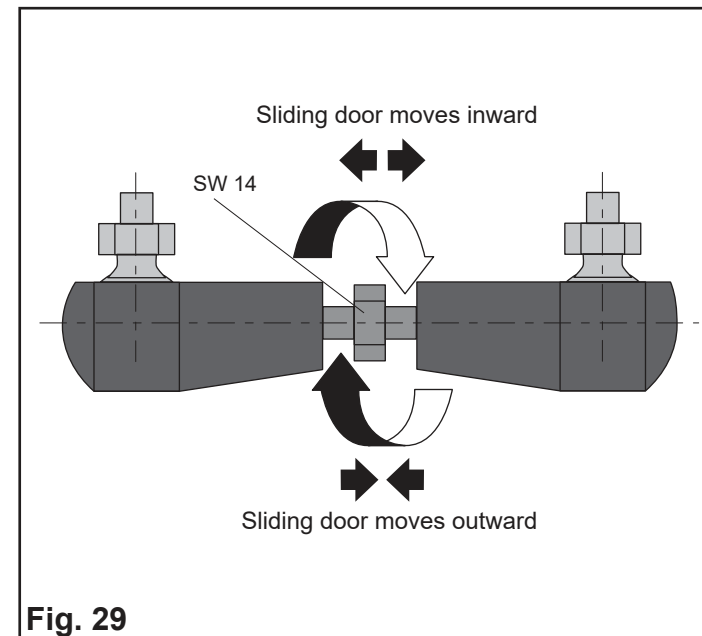
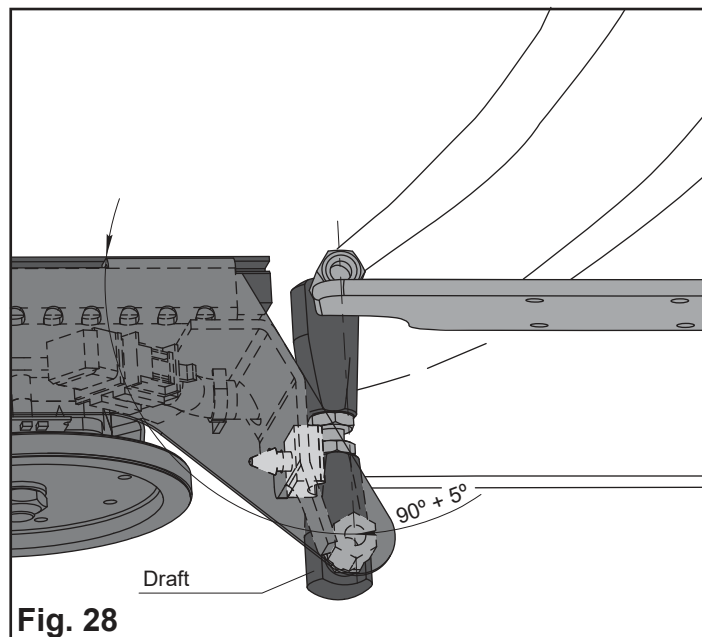
7.2 Drive adjustment

Adjustment via the balljoint

Position of the balljoint with the sliding door correctly closed sliding door as shown in Fig. 28.

Adjust the length of the ball joint (Fig. 29) in such a way that the sliding door lies cleanly against the seal.

When correctly adjusted, the balljoint rests against the the rubber stop on the drive, Fig. 30.

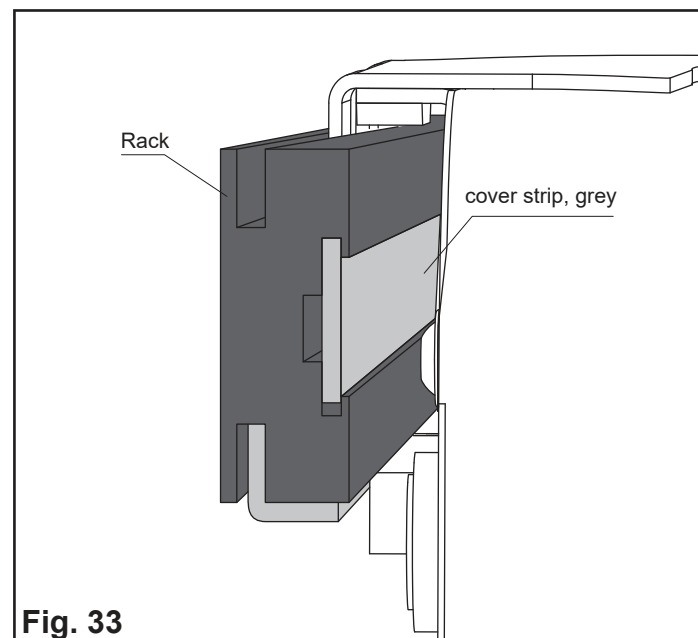
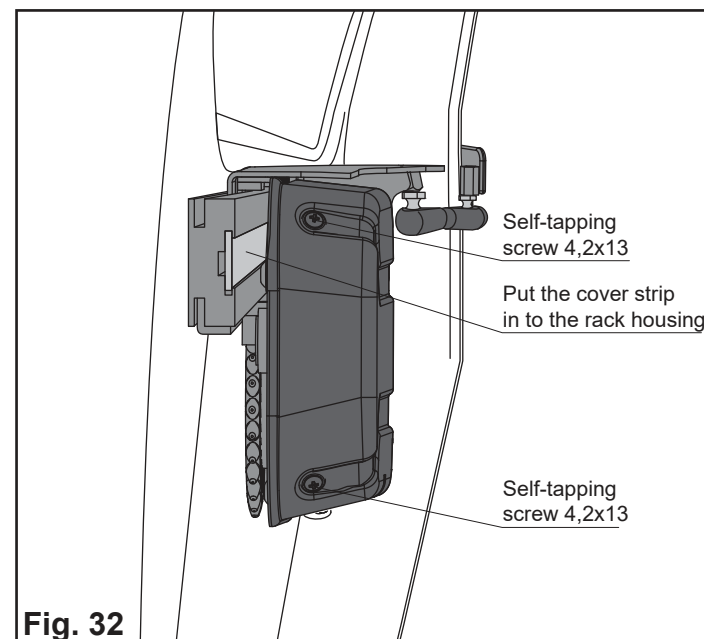
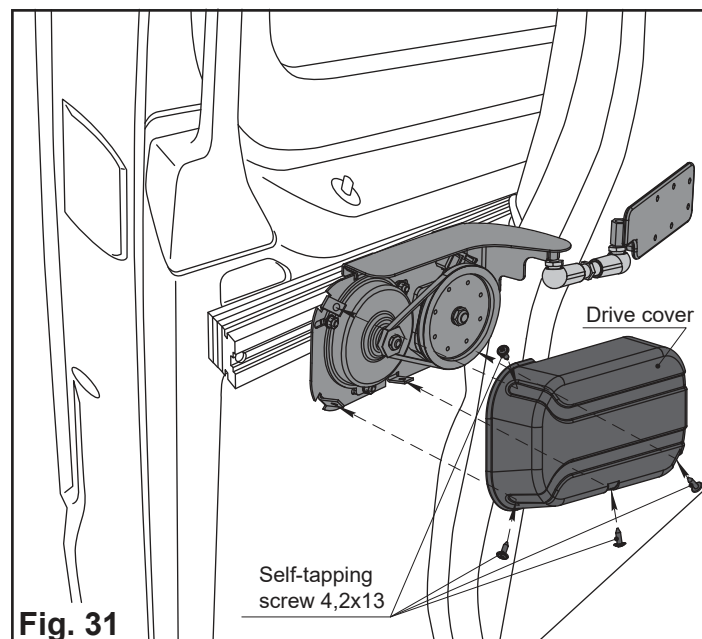


7.3 Monting of door drive cover and decorative cover strip

Fix the cover of the drive with 4 self-driving screws 4,2x13 (included in delivery), Fig. 31.

Cut the cover strip to fit the rack.

Carefully insert the cover strip into the rack groove as shown in Fig. 32 and 33.



7.4 Functions of the rack-and-pinion drive and setting the controller

OPENING / CLOSING THE SLIDING DOOR

Press the control button briefly, ~ 0.5 sec. The sliding door starts moving immediately after the control button is released.

STOPPING THE OPENING MOVEMENT

To stop the sliding door during the opening movement, briefly press the control button. Pressing the control button again closes the sliding door.

STOPPING THE CLOSING MOVEMENT

To stop the sliding door during the closing movement, press the control button once briefly. The sliding door immediately moves immediately to the open position.

AUTOMATIC RETURN DURING THE CLOSING MOVEMENT

If there is a risk of collision with or entrapment of persons or objects, the sliding door stops and returns to the open position.

SETTING THE DOOR OPENING WIDTH

Open the sliding door manually and move it to the desired open position. position. Now press and hold the control button until the acoustic signal sounds twice, ~ 10 sec, then release the control button. The new open position is saved.

SETTING THE DRIVE MODE

Press and hold the control button until the acoustic signal sounds three times, ~ 15 sec, then release the control button. The operator is in CROCO 107 mode.

RESTORING THE FACTORY SETTING

Press and hold the control button until the acoustic signal sounds four times, ~ 20 sec, then release the control button. The drive is in CROCO 102 mode.

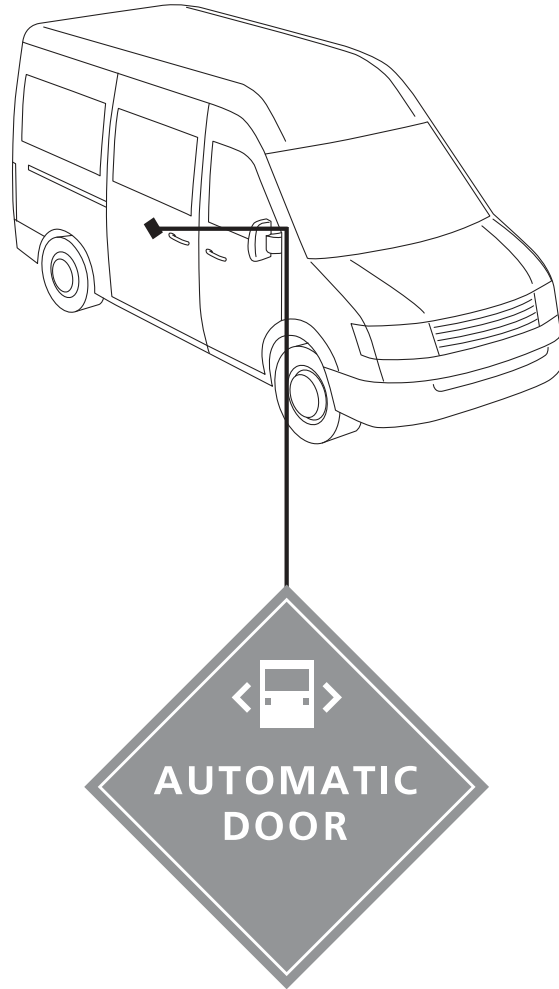
Additional feature Croco 107

The movements to the open and closed positions are approached gently, i.e. the speed is slowly reduced before these.



The drive settings are reset to the factory settings in the event of a power failure.

7.5 Warning sticker



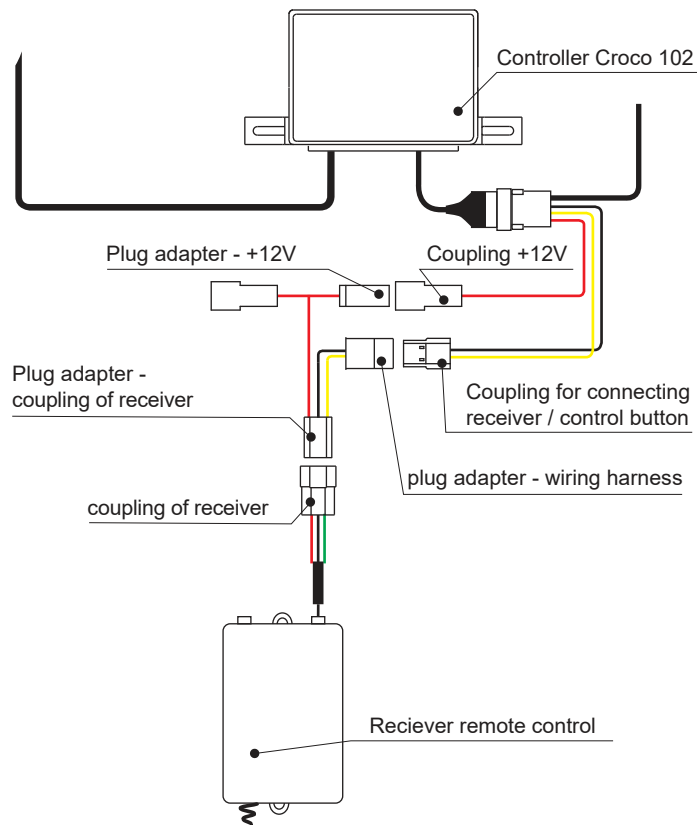
Self-adhesive warning sticker is located outside on the panel of the sliding door. It should be noticeable.

8 Optional accessories

8.1 Remote control

You can use the remote control to operate the sliding door at any time.

Attach the receiver sufficiently close to the controller.
Connect the two couplings of the wiring harness to the the plugs of the adapter.
Connect the coupling of the receiver to the plug of the adapter as shown.



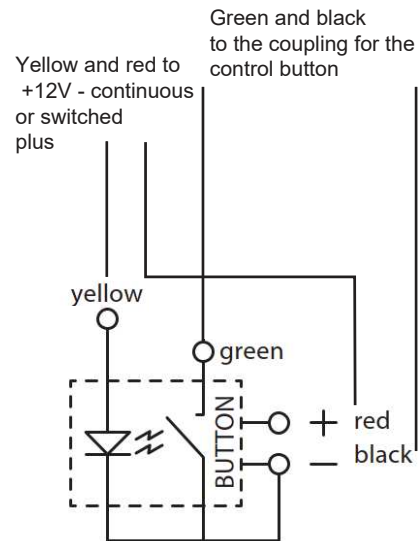
8.2 Touch button

This touch button reacts to a light touch.

In standby mode, it lights up GREEN.

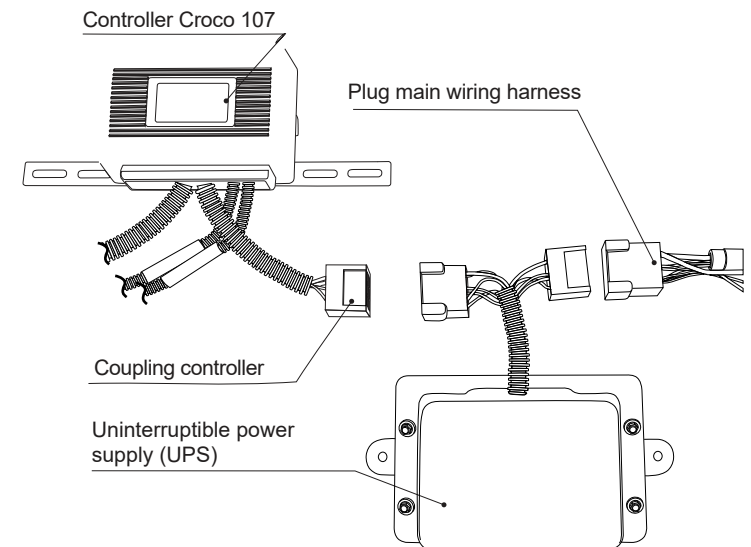
When in operation, it lights up RED, no further contact possible.

Hole with Ø22.5 mm



8.3 Uninterruptible power supply (UPS) (only Croco 107)

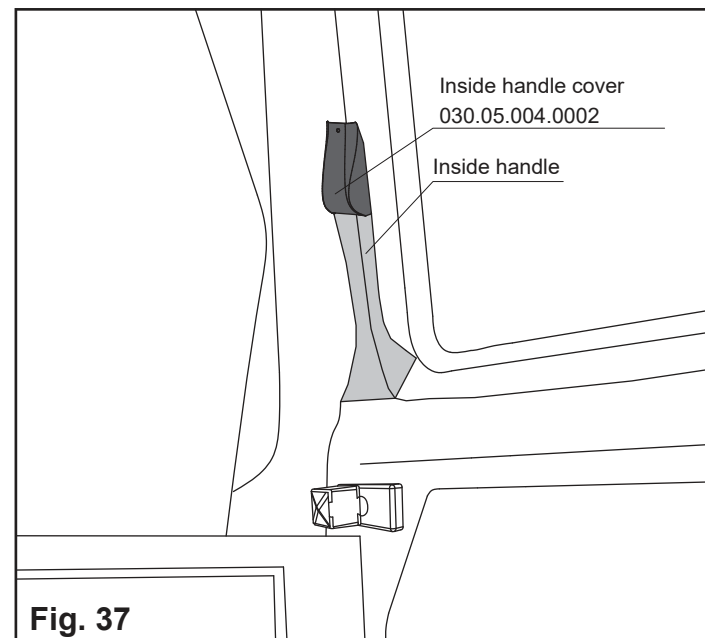
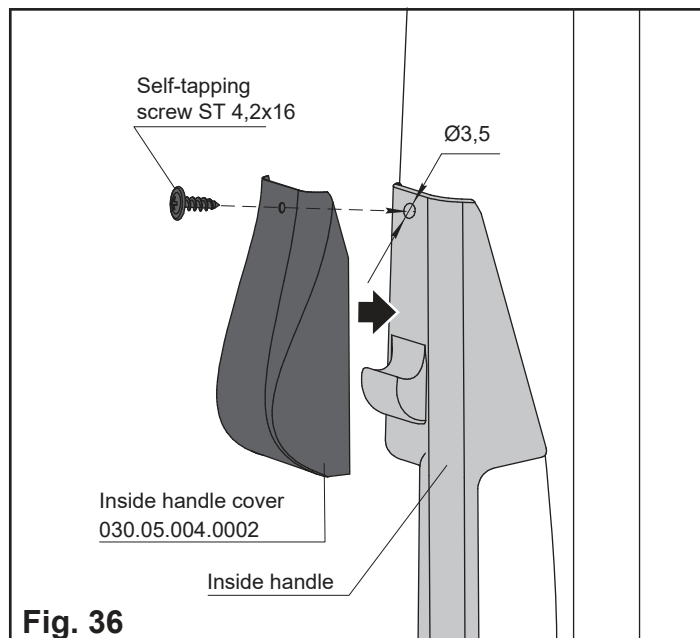
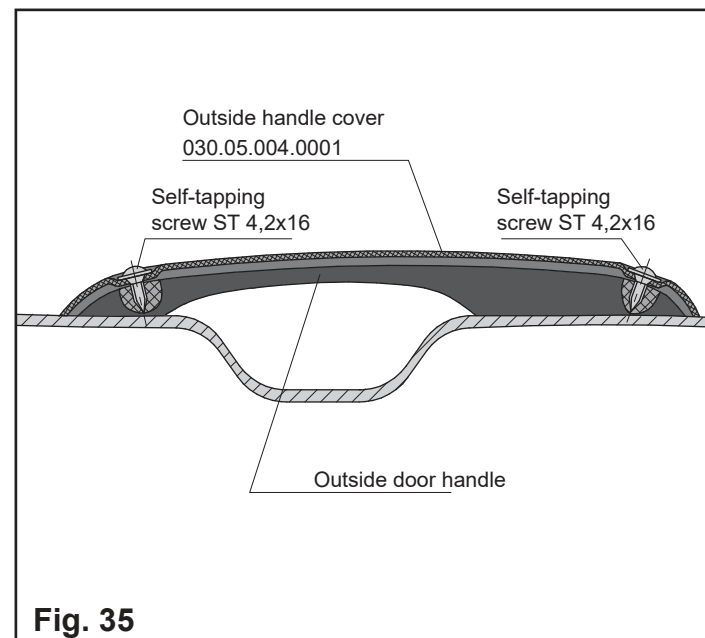
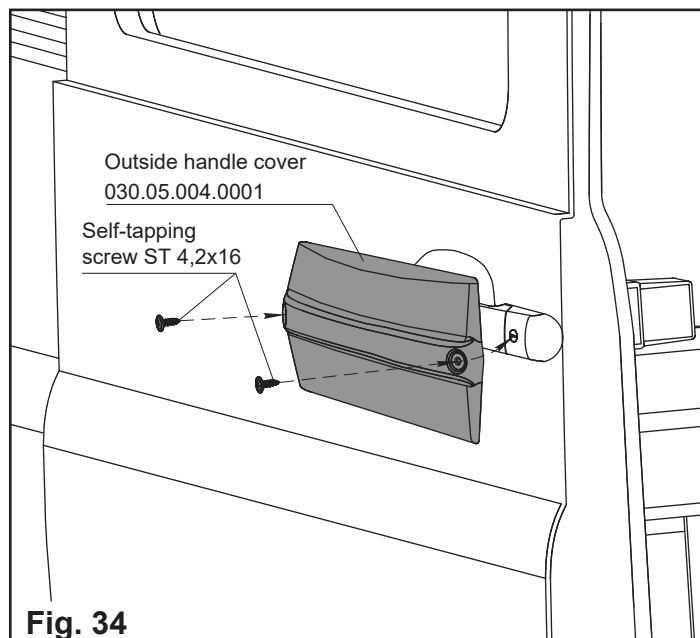
Regardless of the vehicle's supply voltage, the sliding door can be sliding door, e.g. for free opening.
Disconnect the plug connection from the main wiring harness and control unit.
Connect the main wiring harness plug to the coupling of the UPS and the coupling of the controller to the UPS plug, as shown.



8.4 Handle cover outside and inside

Put the outside handle cover to the handle itself, mark on and make two holes with diameter $\varnothing 3.5$ mm. Screw up the cover on the handle with two self-tapping screws 4.2x16 from the hardware bag, as shown in figures 31 and 32.

Put the inside handle cover to the marked place. Screw up the cover with the self-tapping screw 4.2x16 from the hardware bag, as shown in figures 33 and 34



8.5 Safety edge 030.18.000.0020 on door edge

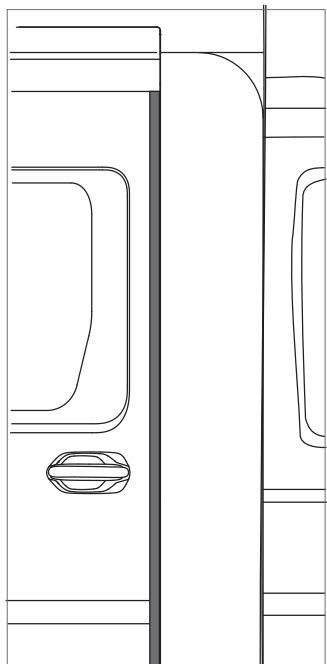


Fig. 38

To fit the safety edge, degrease both sides of the outer closing edge of the sliding door using a grease-soluble cleaner.

Stick the double-sided adhesive tape over the entire length of the outer and inner edge (Fig. 38, 39).

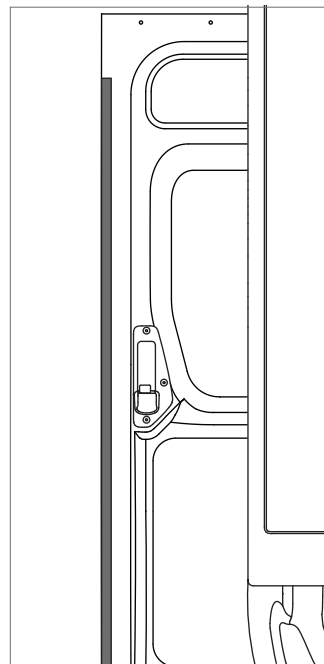


Fig. 39

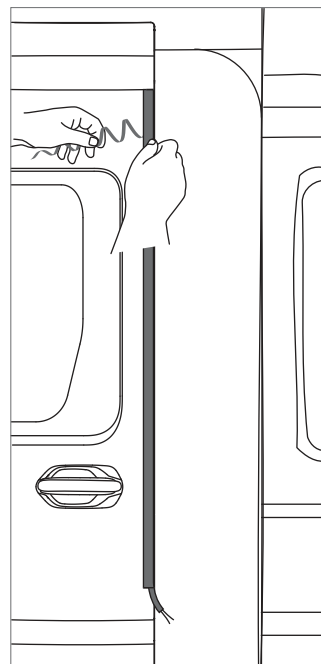


Fig. 40

Apply primer (adhesion promoter) to the inside of the safety edge.

Slide the safety edge over the closing edge without removing the protective film.

Then carefully remove the protective film from the double-sided adhesive tape on the outside (Fig. 40) and press the safety edge firmly into place.

Carry out the same procedure on the inside (Fig. 41).

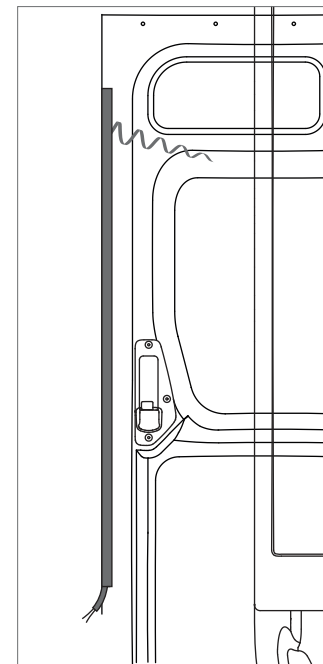
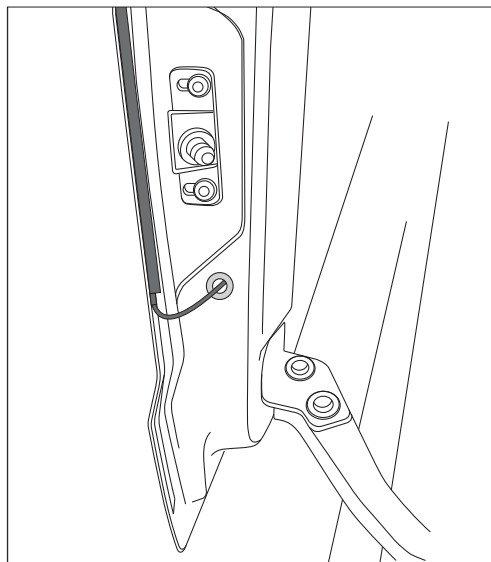
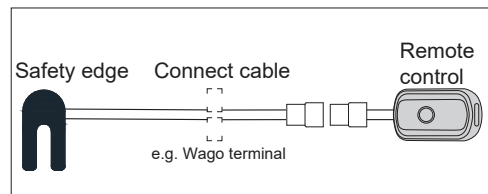
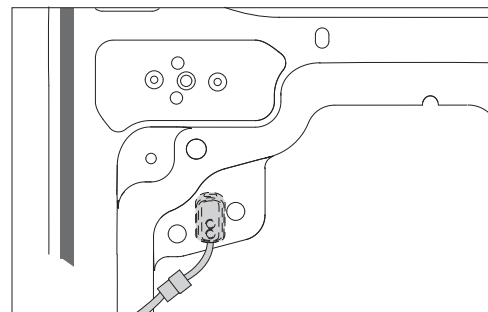


Fig. 41

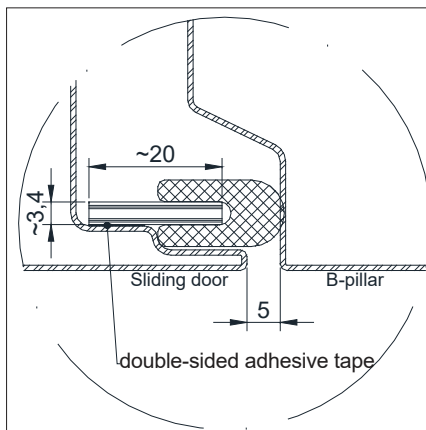
**Fig. 42****Fig. 43****Fig. 44**

Drill a hole (hole at least Ø8 mm for the rubber grommet) in the front face of the sliding door, to feed through the cables of the safety edge and insert a rubber grommet (Fig. 42).

Connect the cables of the safety edge with the cables of the coupling, e.g. Wago terminal.

Plug the coupling into the plug of the remote control (Fig. 43).

Attach the remote control to a suitable location using double-sided adhesive tape (Fig. 44).



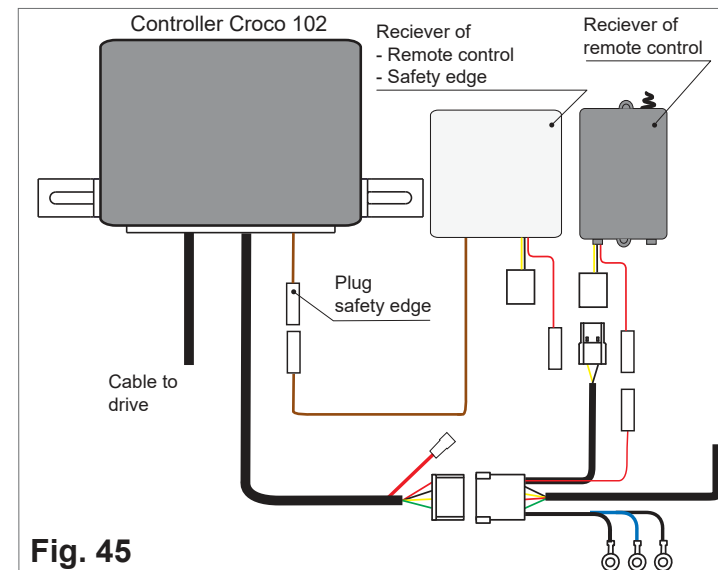
Option for other vehicles:

You need a flexible rectangular profile approx. 3.4x20mm, e.g. rubber, in the length of the safety edge. After priming, stick the double-sided adhesive tape to the rectangular profile. Then carefully remove the protective film from the double-sided adhesive tape and stick the corner profile to the inside of the sliding door.

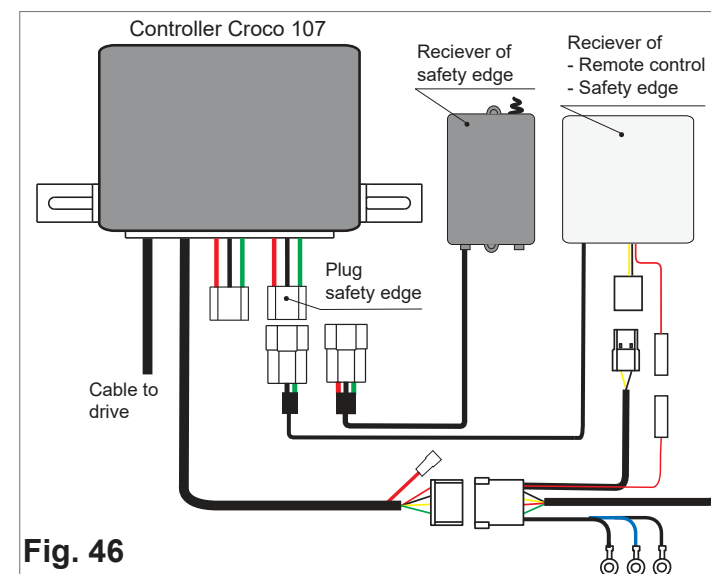


The safety edge must not be deformed or pressed by the B-pillar.

Proceed as described on page 27, Fig. 38 and following.

**Fig. 45**

Croco 102: Connect the corresponding receiver to the control unit as shown in Fig. 45.

**Fig. 46**

Croco 107: Connect the corresponding receiver to the control unit as shown in Fig. 46.

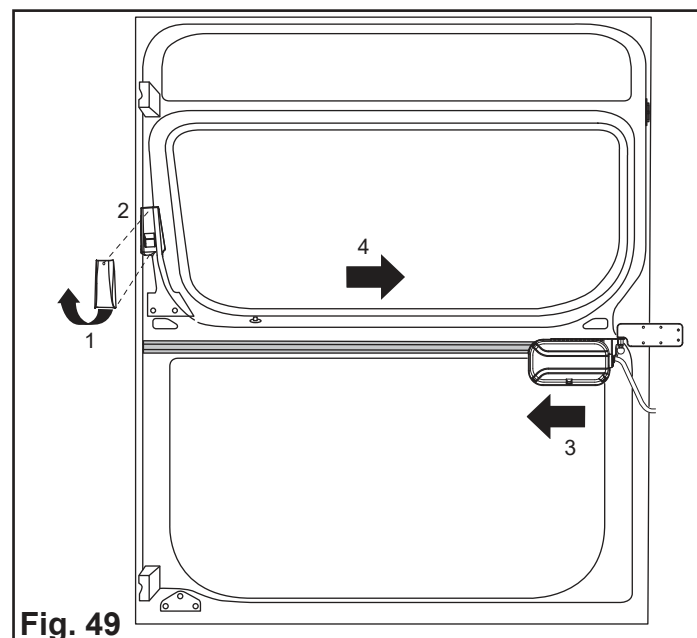
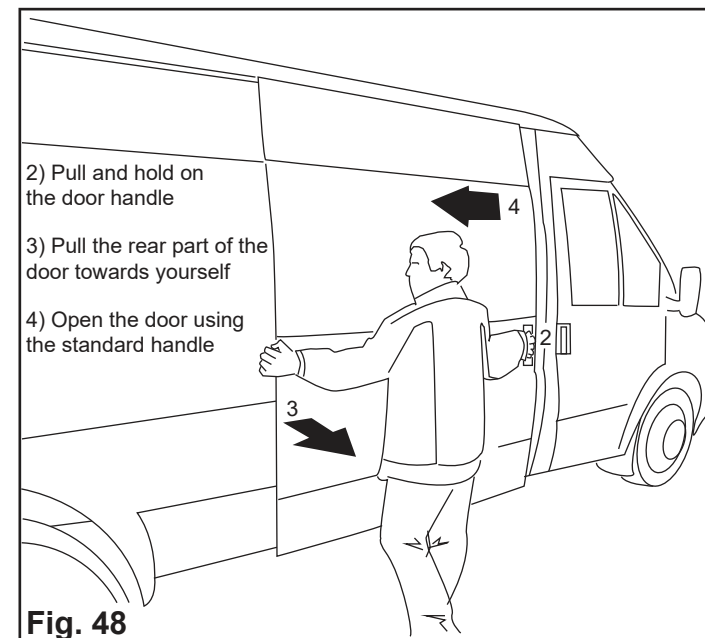
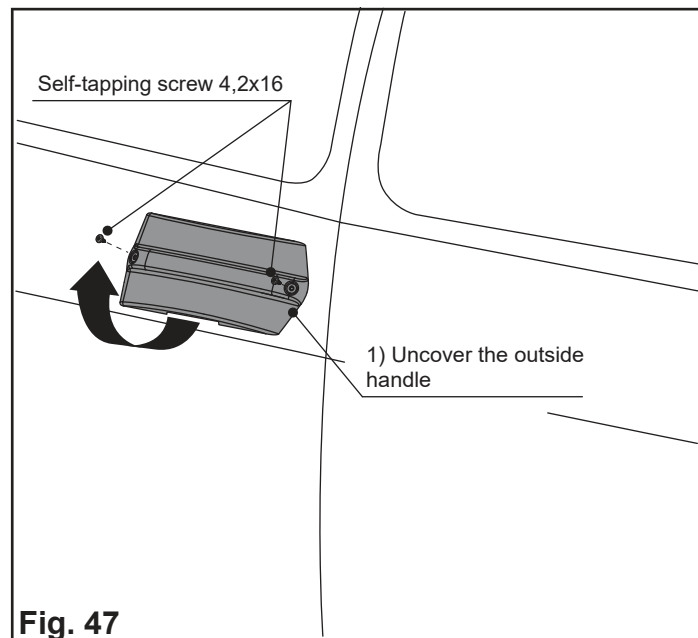
9 Notes

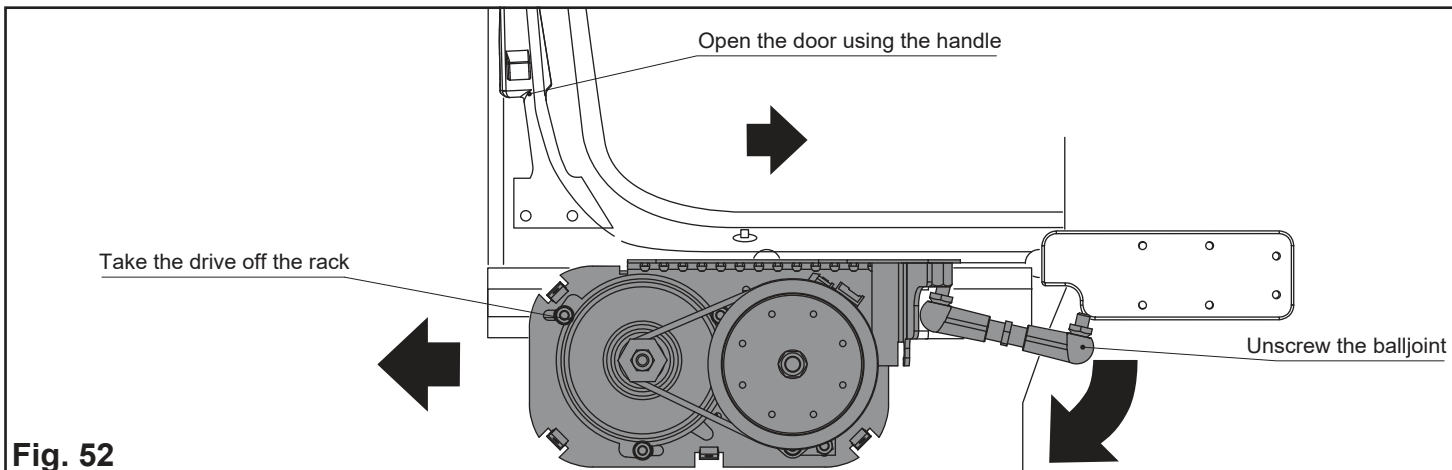
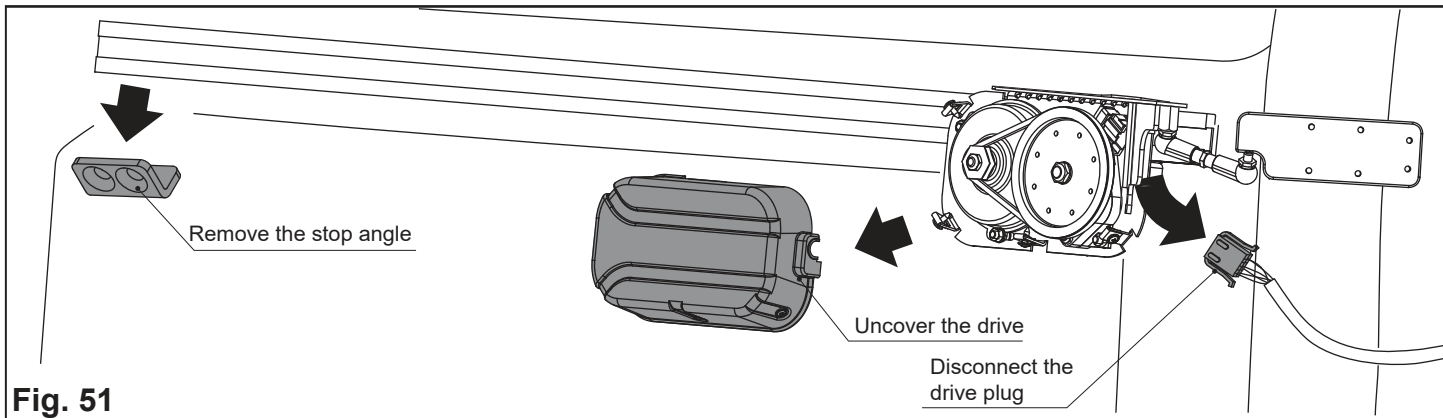
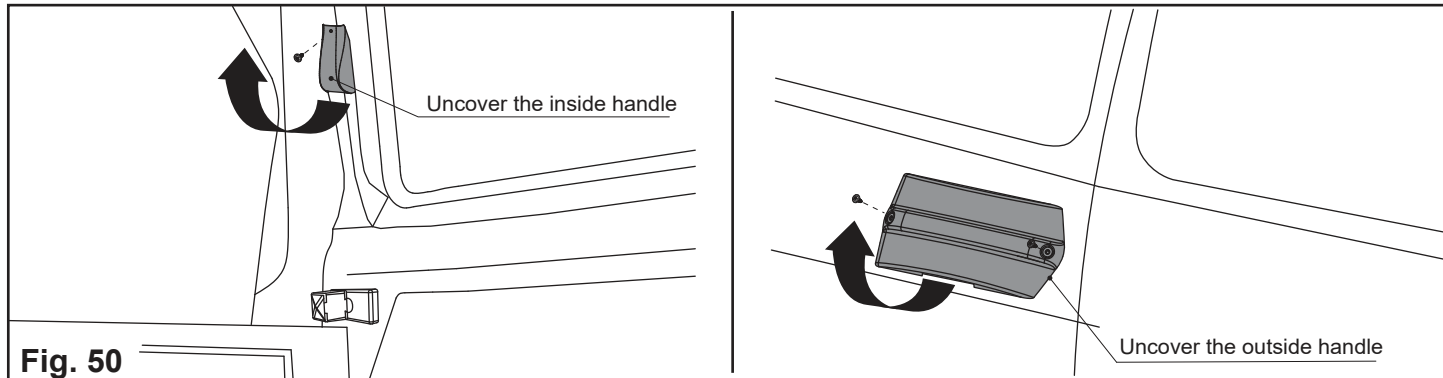
9.1 Emergency door opening from the outside

1. Remove the cover, if present, (Fig. 47).
2. Pull and hold the door handle (Fig. 48).
3. Pull the left-hand part of the door towards you (Fig. 48).
4. Open the door with the door handle to the left, (Fig. 48).

9.2 Emergency door opening from the inside

1. Turn and hold the door handle (Fig. 49).
2. Push the drive diagonally outwards to the left (Fig. 49).
3. Open the door with the door handle to the right, (Fig. 49).





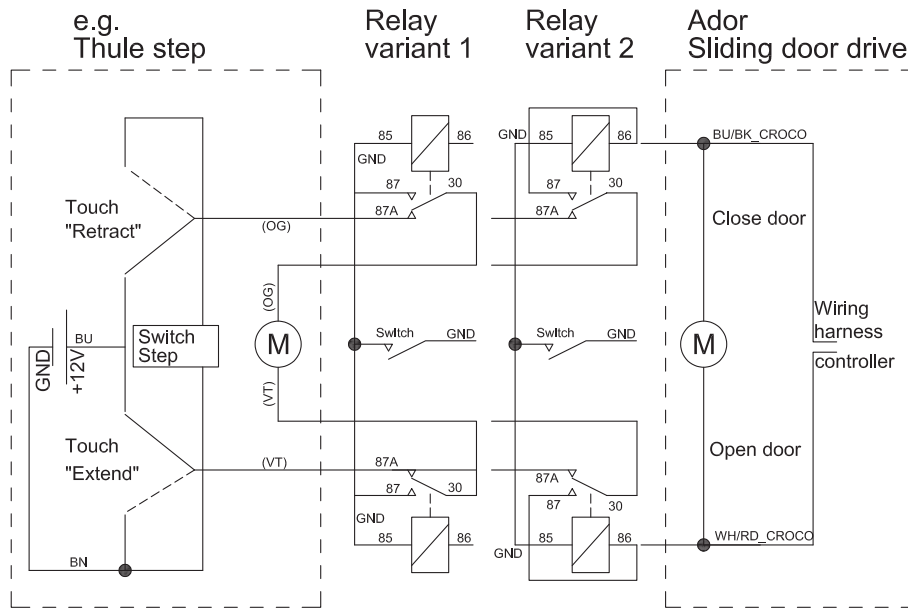
10 Manual mode reset

10.1 Rack-and-pinion drive

1. Open the door manually, having unscrewed handle covers. (fig. 50).
2. Remove the clumper (fig. 51).
3. Uncover the drive (fig. 51).
4. Disconnect the drive plug (fig. 51).
5. Undo the rod (fig. 52).
6. Take the drive off the rack (fig. 52).

The sliding door now operates manually.

11.2 Coupling the electric step with the Ador drive (30.99.000.0011 und 30.99.000.0013)



The relays are used to switch the step depending on the movement of the sliding door.

These relays can be switched with a switch so that the step does not move every time the sliding door moves.

The scope of delivery is customised to your requirements.

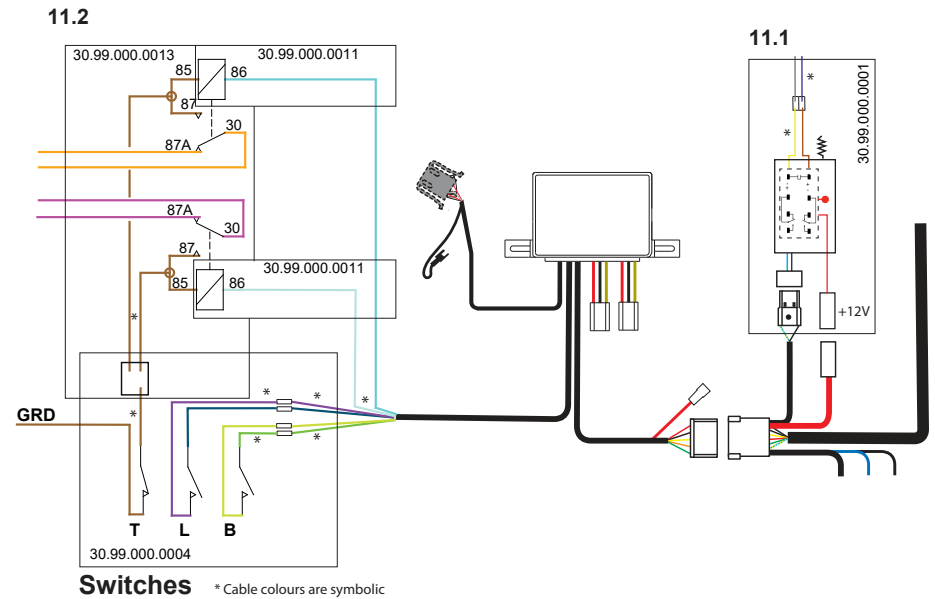
We recommend that you send us your wiring diagram for the step.

The circuit diagram shows 2 variants of the relay connections to the step switch

(colour) may vary

Relay connection plug colour codes:
30 - RD, 85 - BK, 86 - WH, 87 - BU, 87A - YE

11.3 Connection diagram of the extensions



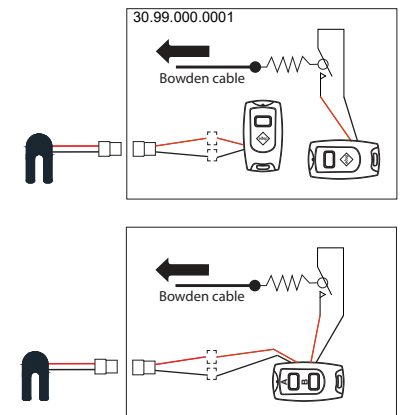
11.1 Remote control variant

Door handle actuation has a remote control

Safety edge has a remote control

Remote control battery: 2x CR2016

Door handle actuation and safety edge have a common remote control



12 Information

For warranty claims and service enquiries, please contact our representative in Germany.

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Subject to technical changes.