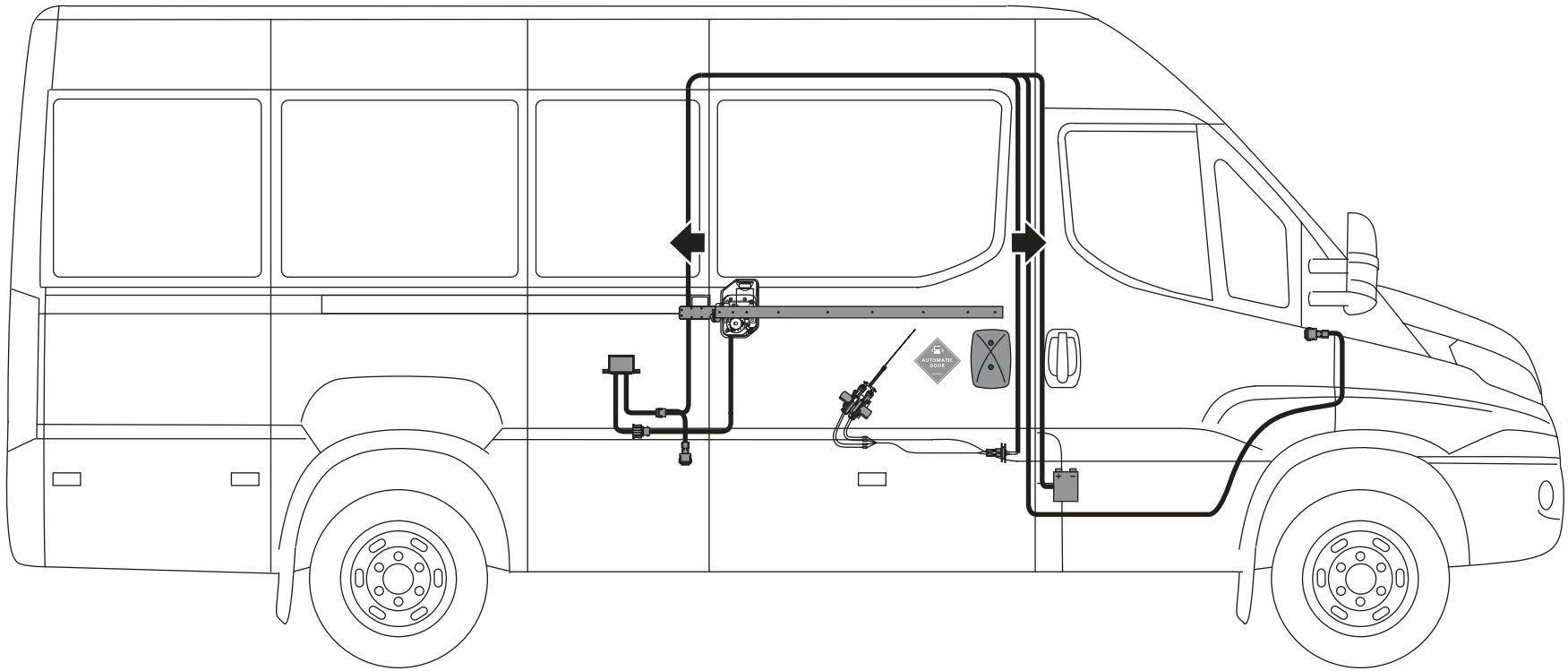
automatic doors

RACK AND PINION DRIVE

02.17.2025

INSTALLATION MANUAL CAYMAN102

IVECO DAILY from 2015



Version 24.00

Contents

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	Cayman 102

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

1.1 Intended use

The Cayman 102 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).

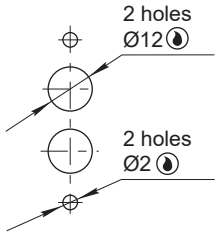
1.5 Environmentally conscious working

> 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 heads10 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.

Cayman 102 rack-and-pinion drive for sliding doors

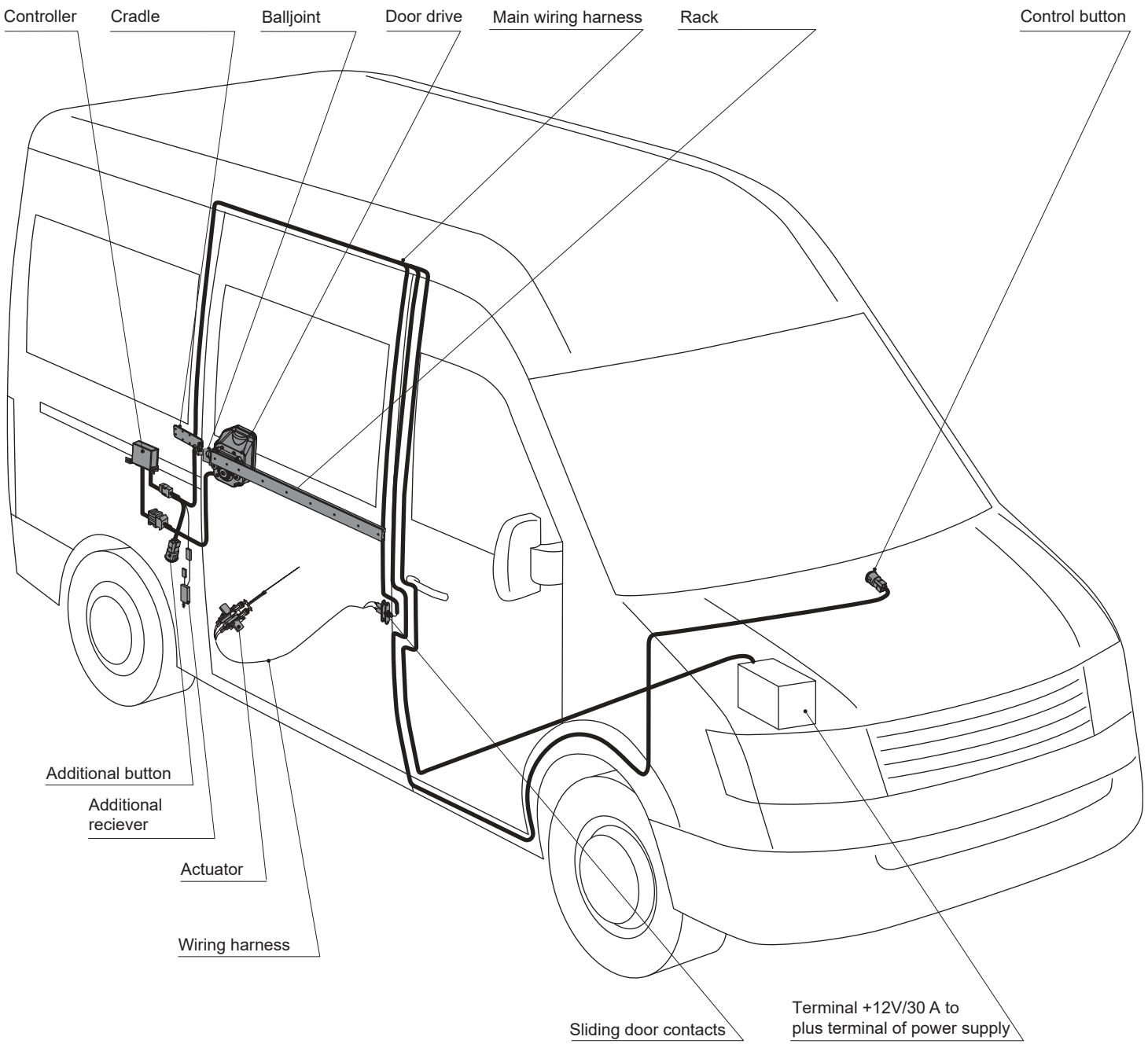
> Drive
> Controller
> Main wiring harness
> Rack according
  > Spacer strip (3x)
  > Slab
  > Mounting set
> Cradle
> Actuator
> Contacts

Accessories (option)

> Remote control (1 or 2 keys)
> Touch button
> 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 Iveco Daily minibus.

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

This manual discribes 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

CAYMAN 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 - 6 sec.
Door-closing time, (it depends upon the opening width adjustment)	2 - 6 sec.
Category temperature range	-40°C up to +40°C
Maximum slop for the door to be closed	15%
Resources	Not less then 1.200. 000 cycles
Maximum drive power	370 N (37 kg)

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

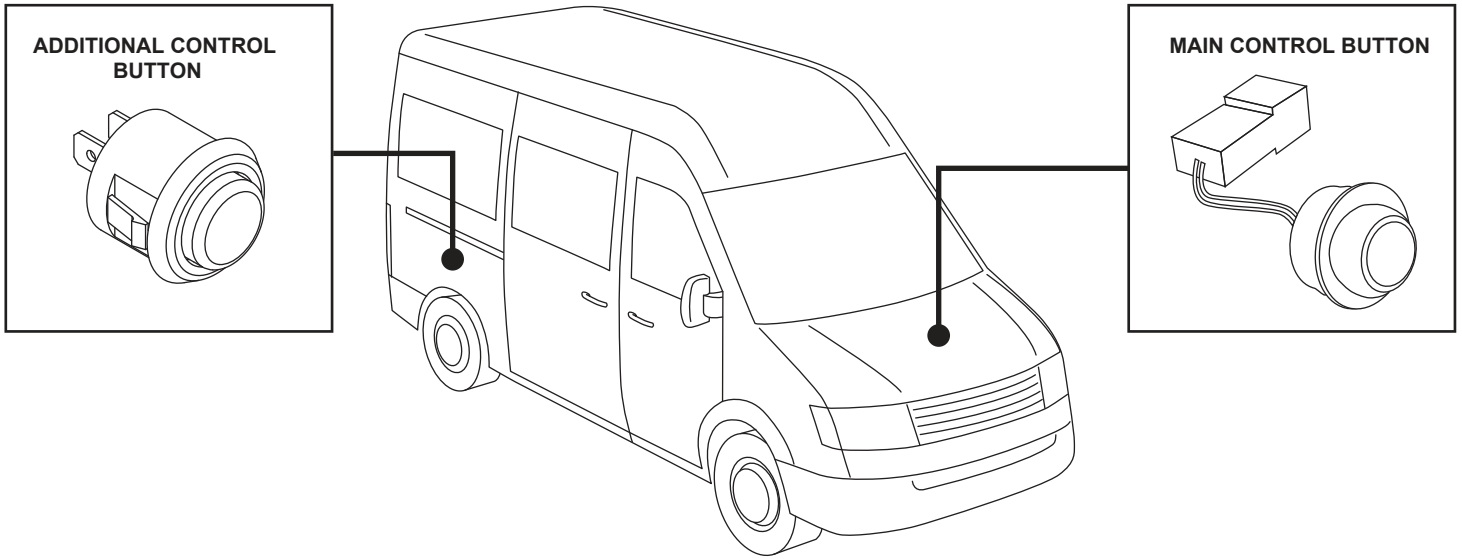
The latch actuator opens its latch, the sliding door drive opens and closes its door.

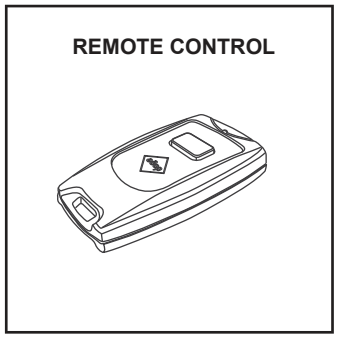
The drive control is performed with the help of:

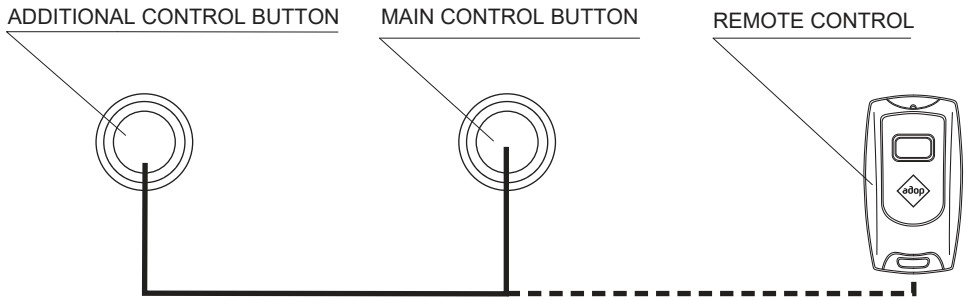
- **Control buttons**
  These buttons are designed for cotrolling the door and system adjustment.
- **Remote control**
  It is used for controlling the door.

5.4 Drive functions

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





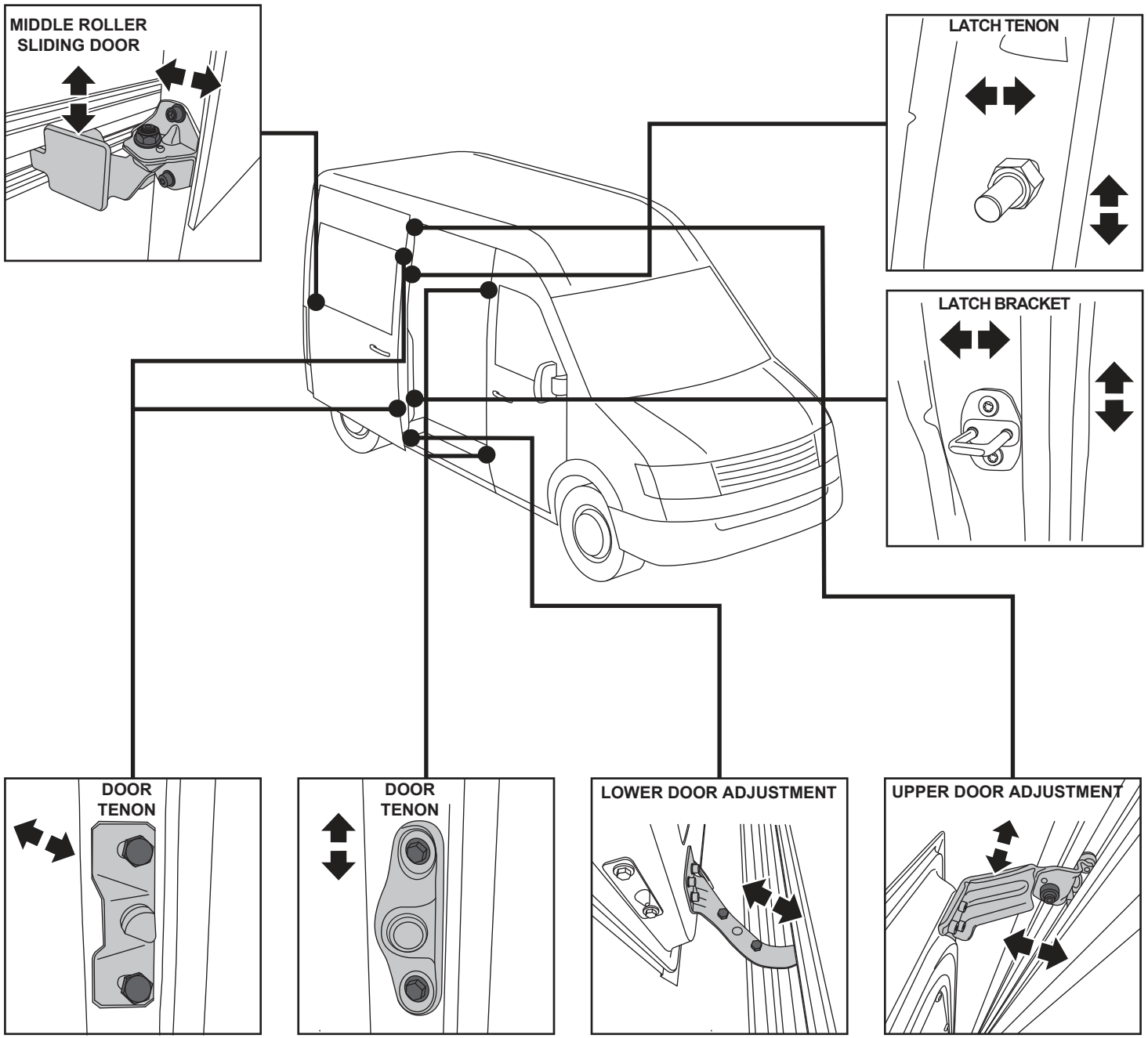


6 Installation

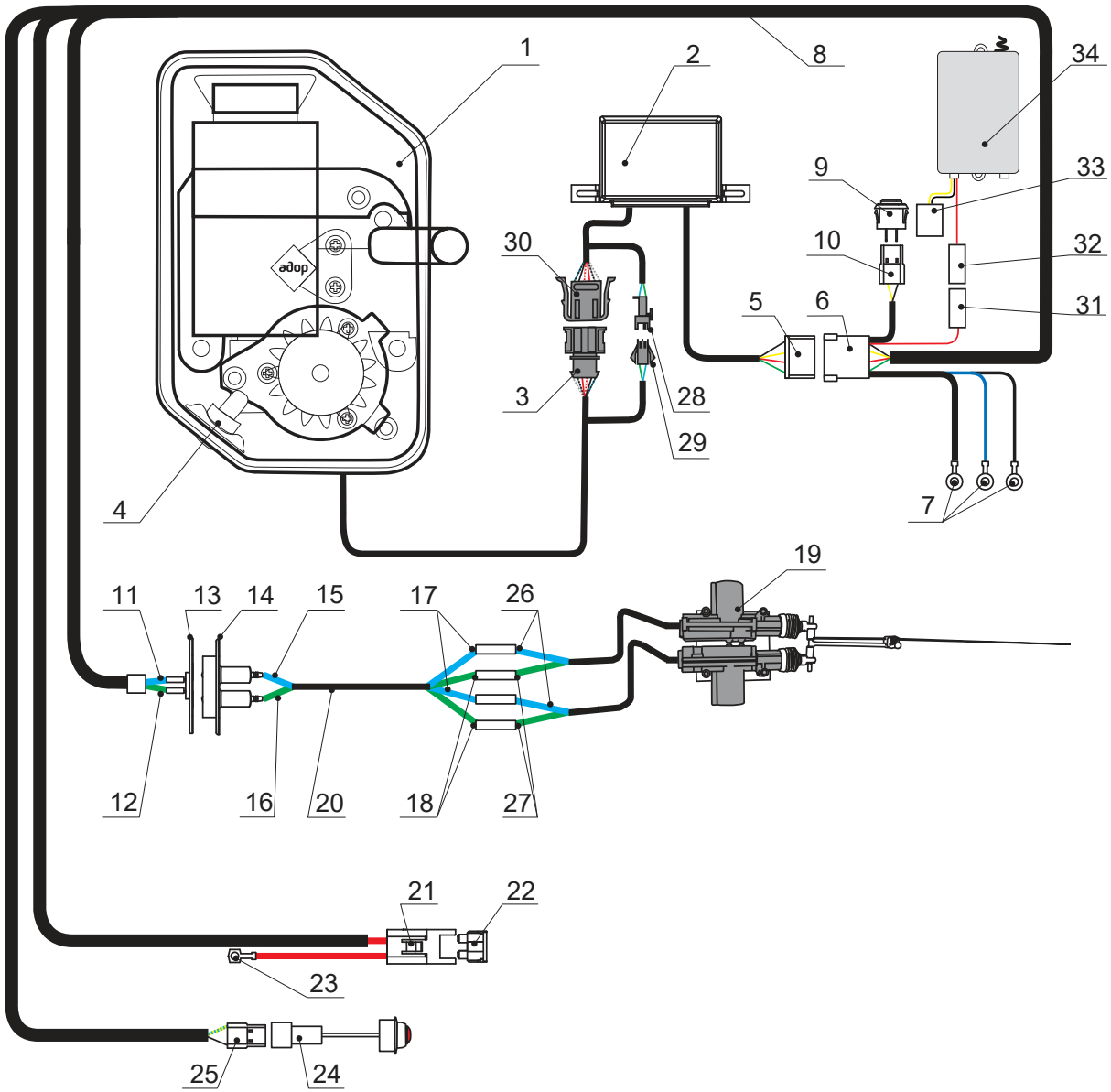
6.1 Instructions before starting installation

Before installing the drive, the position of the sliding door in the van must be checked: Check the gap between the sliding door and the body on the left and right as well as at the top and bottom for evenness. The sliding door must be readjusted, if necessary.

This adjustment influences the function of the drive.

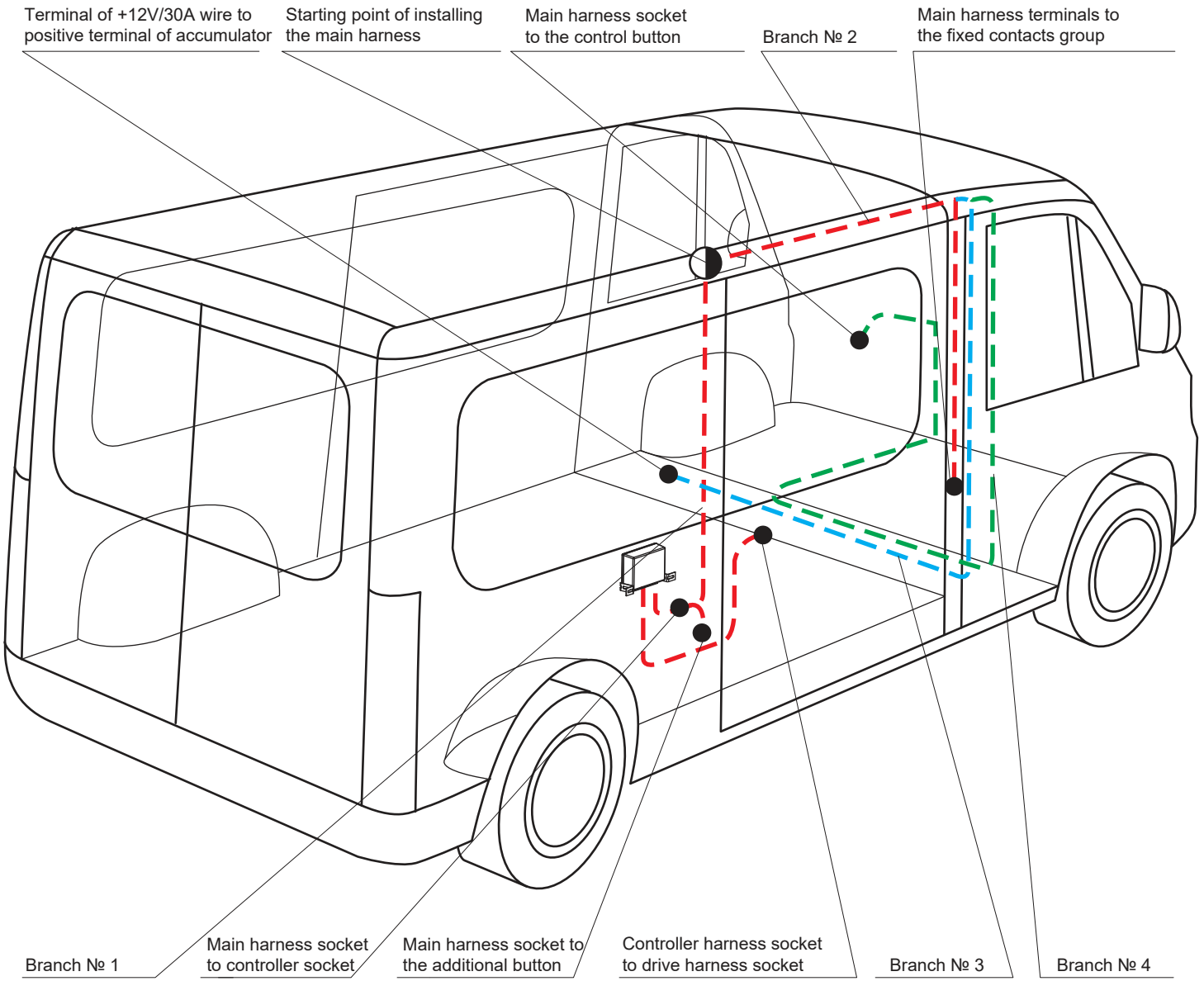


6.2 Wiring harness and connection diagram



1. Cayman 102 drive
2. Cayman 102 controller
3. Drive wiring harness coupling
4. LED Torch
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. Actuator
20. Actuator wiring harness
21. Terminal of 30 A fuse red wire
22. 30 A fuse
23. Plus red wire terminal (+12V) to plus terminal of power supply
24. Main control button
25. Main control button connector
26. Terminal of the activator blue wire
27. Terminal of the activator green wire
28. LED torch coupling
29. LED torch plug
30. Controller wiring harness plug
31. Main harness +12V coupling
32. Main harness +12V plug
33. Reciever coupling remote control or/and drive control module to 10.
34. Reciever remote control or/and drive control module

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 followi ng 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.
Remove the paint around the hole completely so you can see metal in order to provide a good contact as shown in fig. 2.
With the bolt M6x14, toothed washer and the nut M6 from hardware bag fix the ground wire "-" terminals as shown in fig. 3.
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)

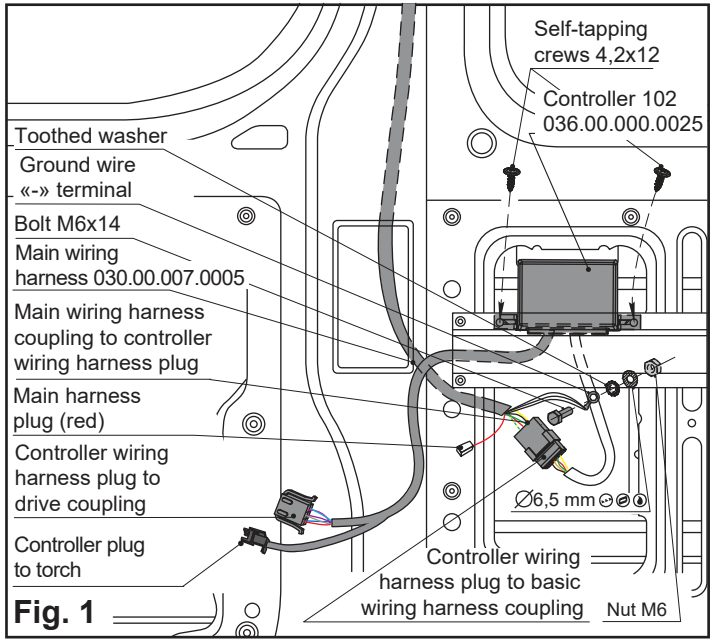


Fig. 1

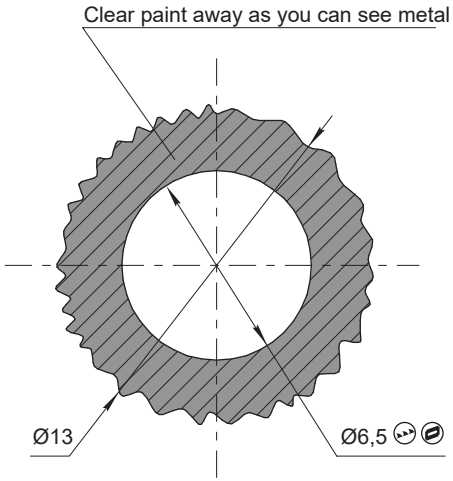


Fig. 2

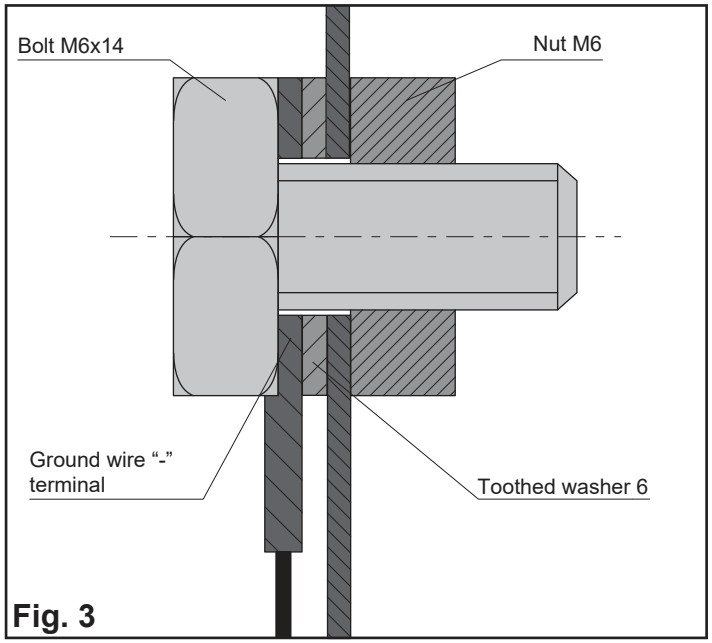
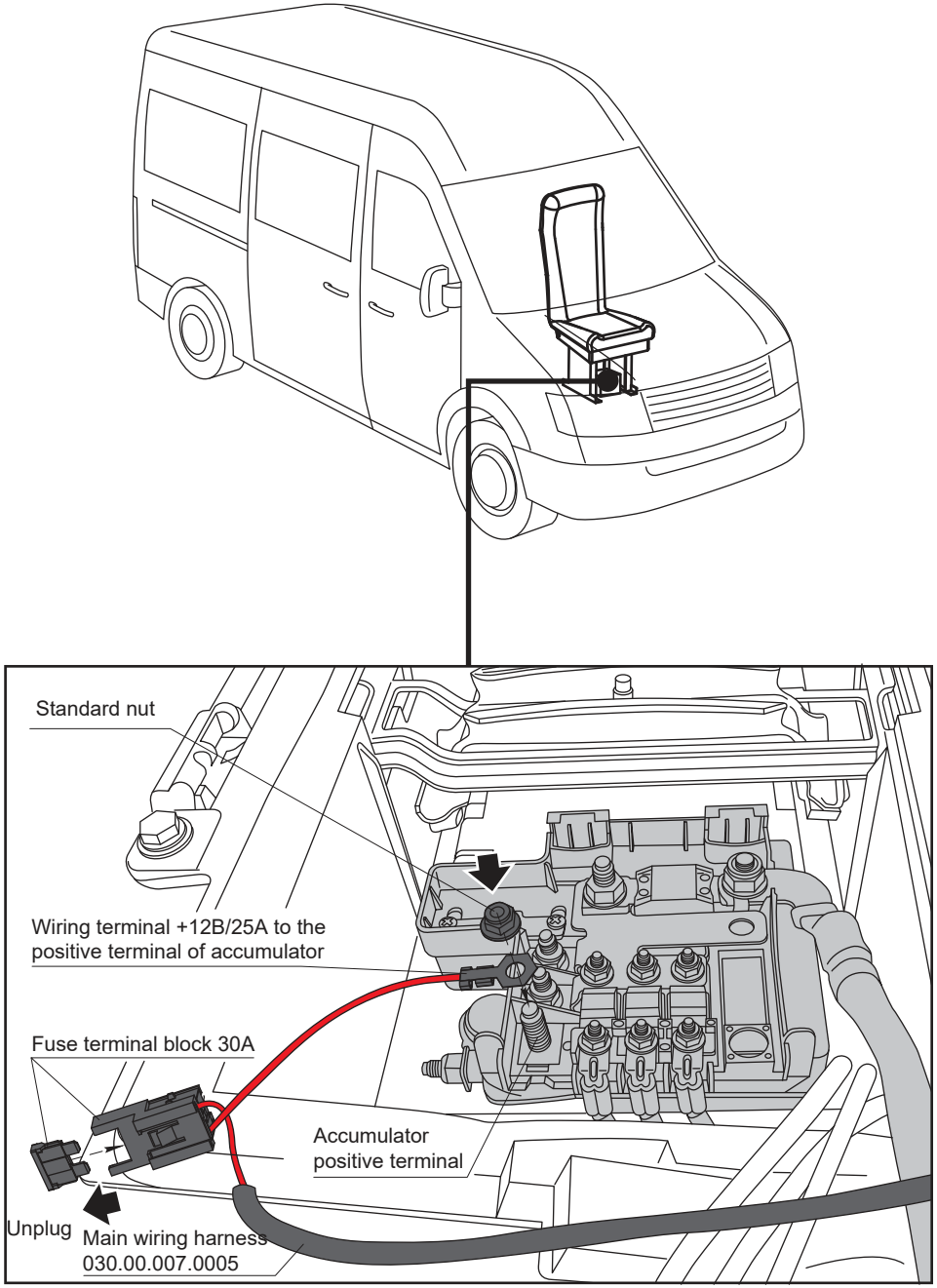


Fig. 3

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 030.19.000.0004 and actuator wiring harness installation 030.10.007.0001

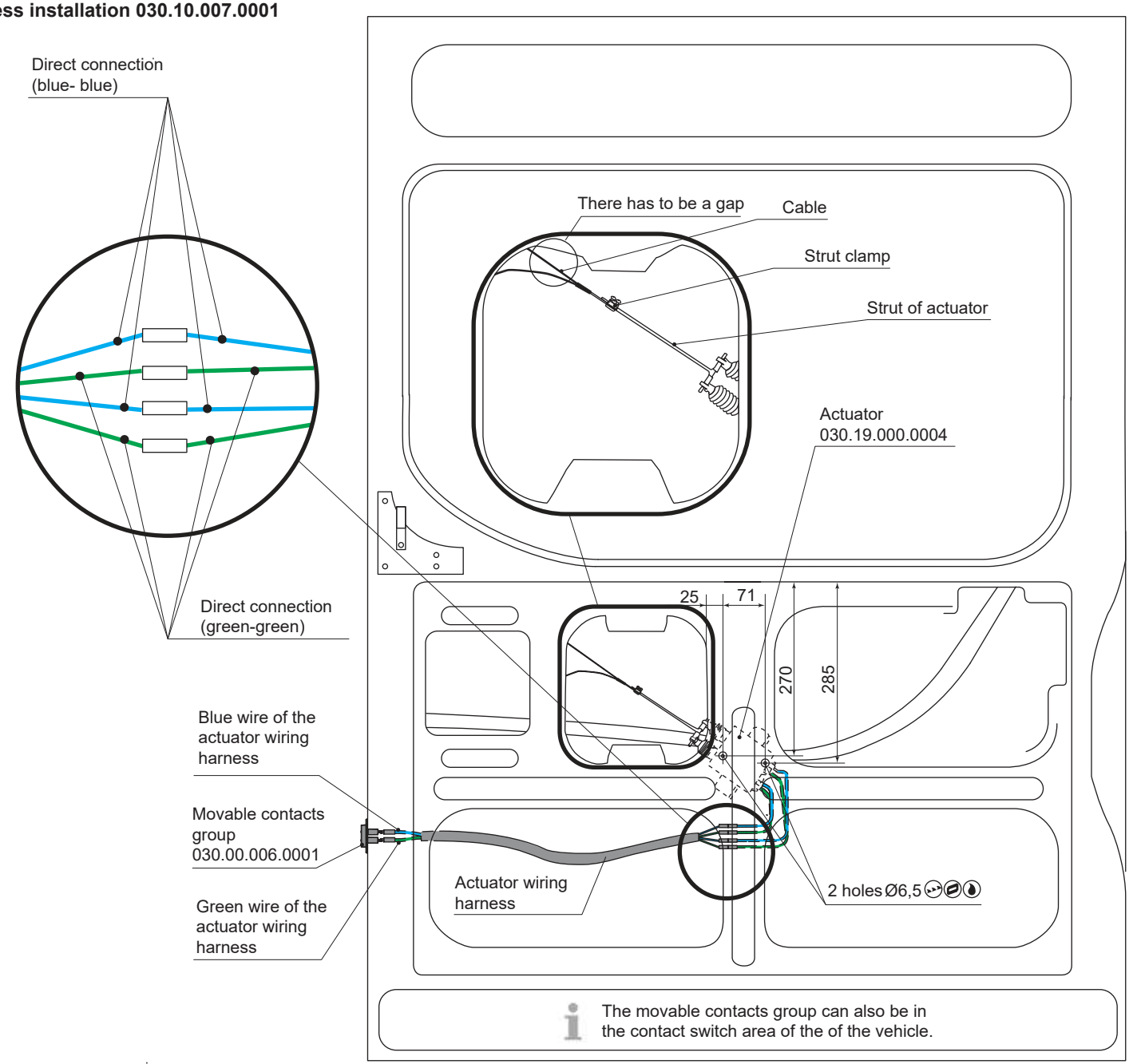
Put the drive with the bracket to the door reinforcement and mark out the fixing holes. Drill 2 holes Ø 6.5 mm. Put the drive inside the door and fix it with 2 screws M6x10.

Close the door manually.

With the help of terminal strip adjust rod length so as the cable was tightened to the utmost, but sliding door locks were closed safely.

Connect the terminals of the green wires of the actuator wiring harness, and the blue wires of the lock drive to the terminals of the blue wires of the actuator wiring harness.

There has to be a gap between the lock drive cable and the edge of the door reinforcement.



Installation of the actuator 030.19.000.0004

Detach the inner door handle, fig. 4.

Disconnect the two cables from the inner door handle (fig. 5).

Detach the shirt holder from the inner door handle (fig. 6) and drill a hole Ø 1.5 mm, as shown in fig. 7.

Pull the lock drive cable through the hole in the shirt holder (fig. 8).

Install the holder with the cable on the inner handle (fig. 9).

Pull the drive cable inside the door and connect both cables to the handle in reverse order (fig. 5).

Place the inner handle back (fig. 6).

Adjust the length of the strut so that the cable tensioned to the maximum, but the lock of the sliding door lock is not unlocked.

Connecting the wiring harness

Connect the green cables of the actuator to the green cables of the harness and the build cables of the actuator to the blue cables of the harness.
Cables of the wiring harness, see page 12.

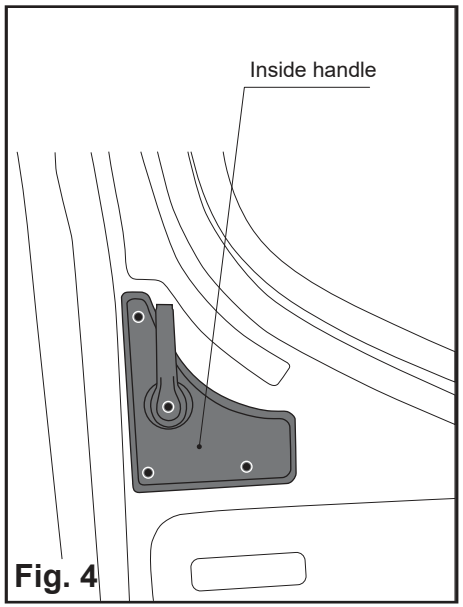


Fig. 4

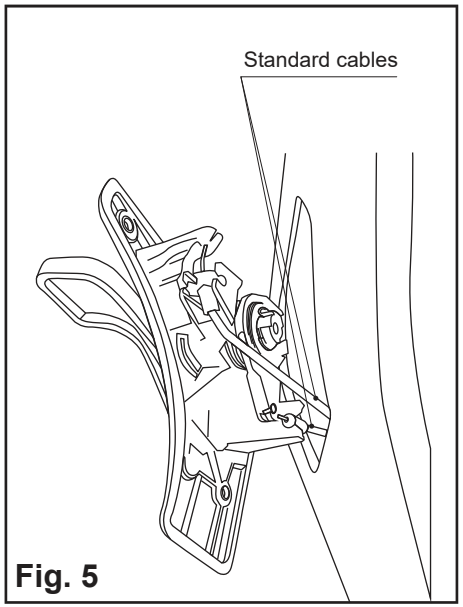


Fig. 5

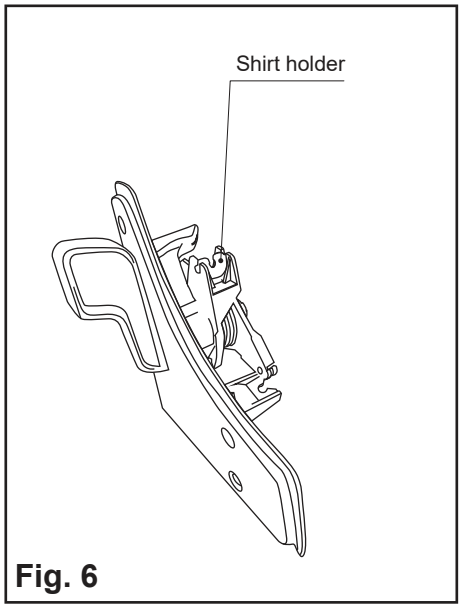


Fig. 6

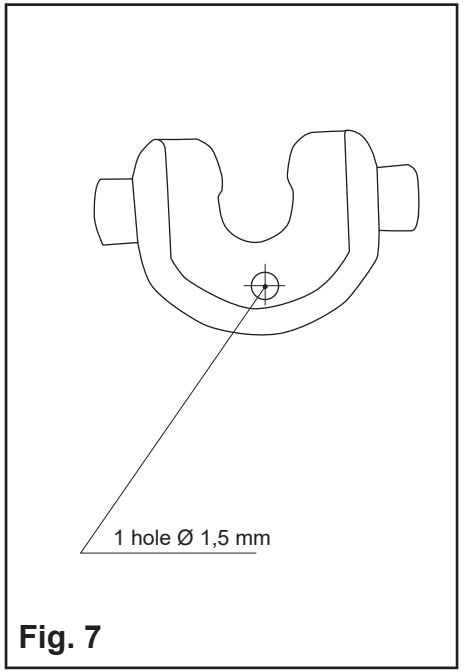


Fig. 7

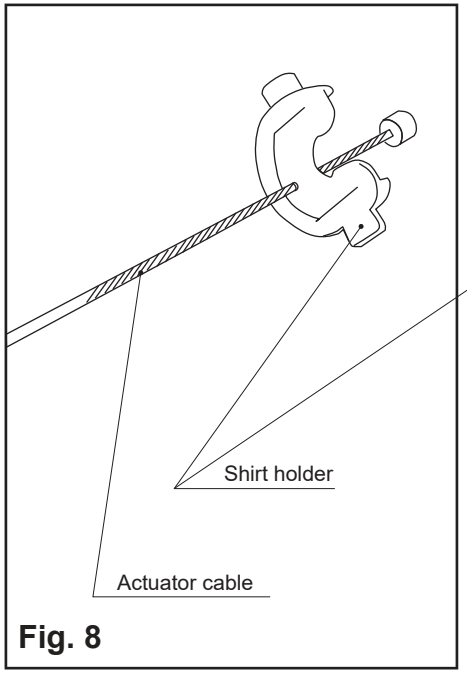


Fig. 8

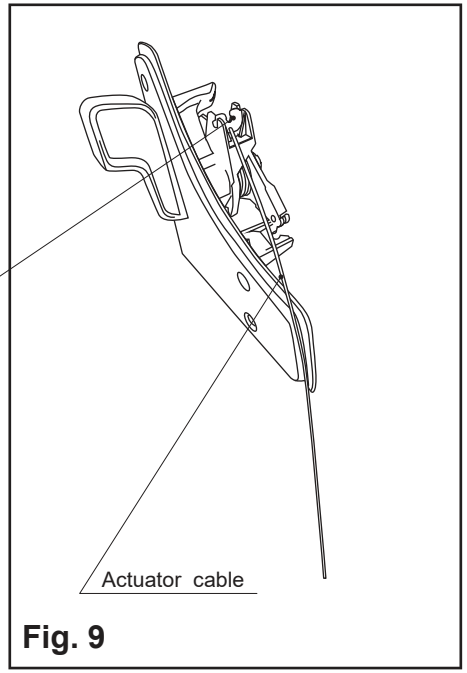


Fig. 9

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. 10.
Drill two holes with Ø14 mm and
two holes with Ø2.5 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. 10.

Fixed contacts group

The position of the fixed contacts group can be adjusted
by opening and closing with contact marks on the paint,
Fig. 11.
Alternatively, the position between the sliding door
and the body can be measured.

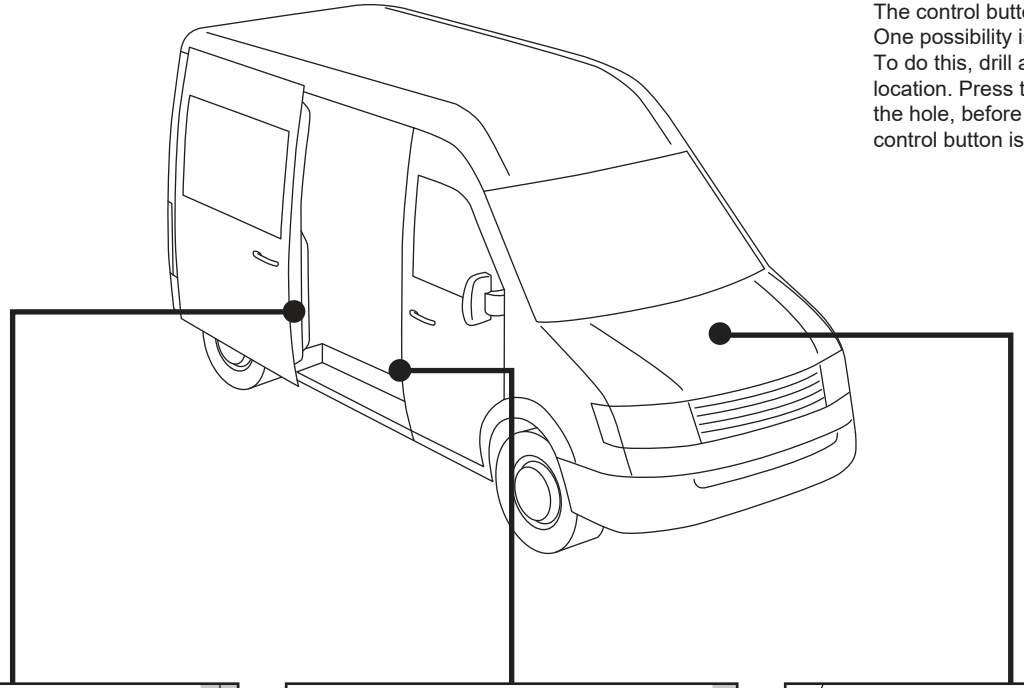
Mark the drill holes as shown in Fig. 11.
Drill one hole with Ø20 mm and
two holes with Ø2.5 mm.

Secure the fixed contacts group with two countersunk
screws ST3.5x16 (supplied), Fig. 11.

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 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 Ø23 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. 13).



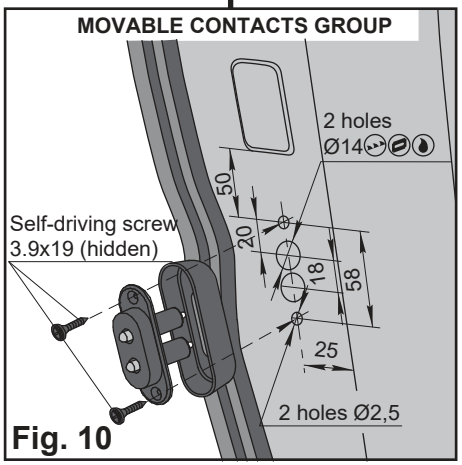


Fig. 10

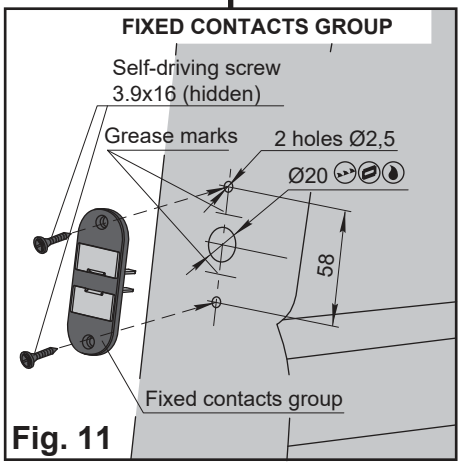


Fig. 11

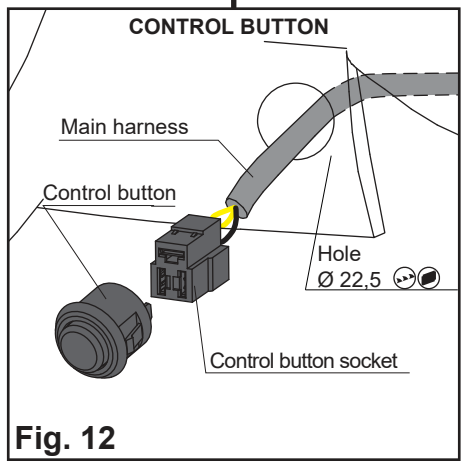


Fig. 12

6.8 Installing the rack 030.00.009.0002

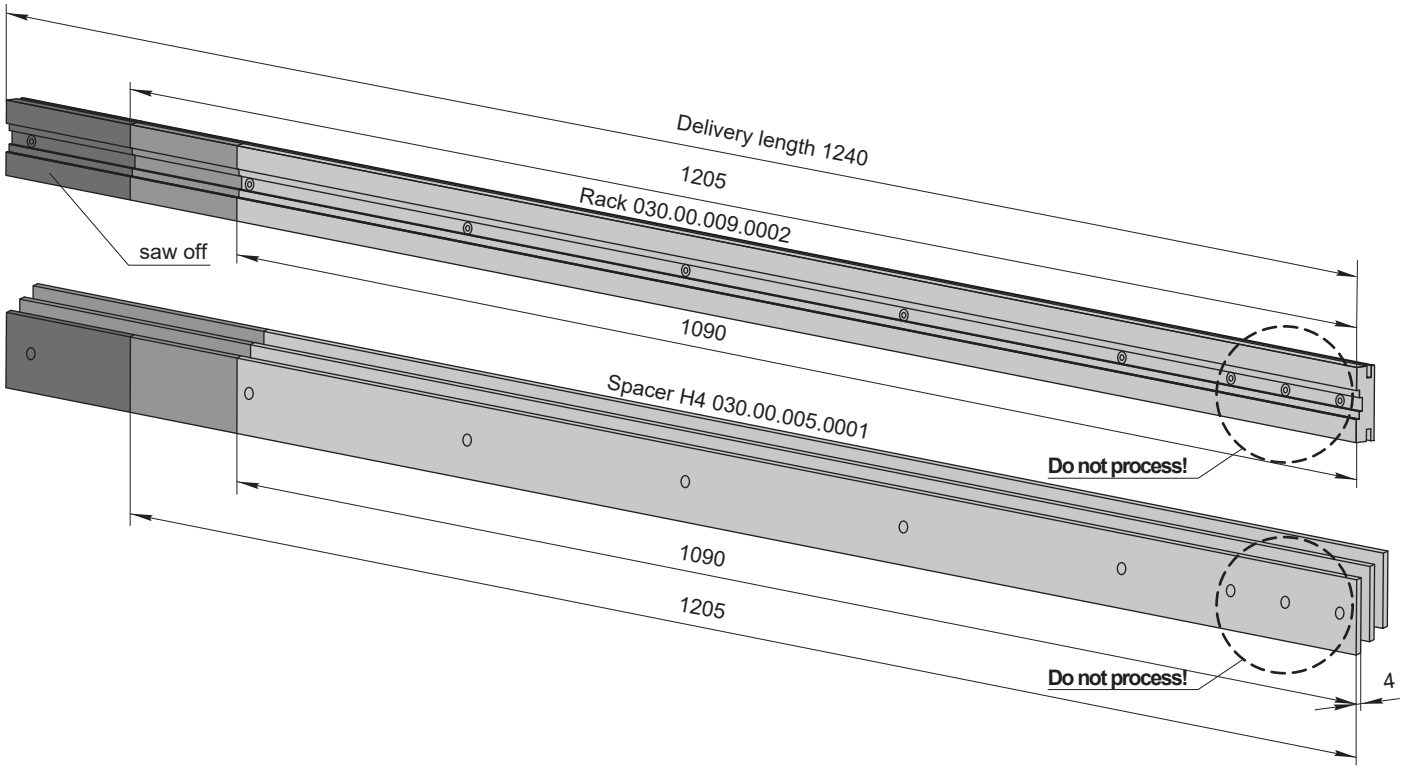
For the recommended position of the rack
use the supplied length.

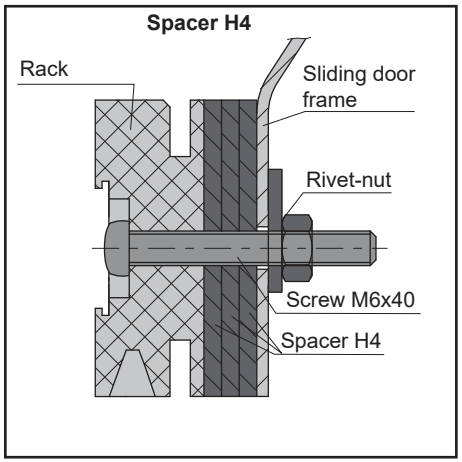
For other positions, adjust the length if necessary.

Cut the rack and the spacer H4,
on the left-hand side as shown.

Only saw off rach and spacer on the left!

Fasten the rack with 1x to 3x spacer H4
depending on the installation situation.





Put the rack to the marked place as shown in figure 13. The lower edge of the rack should be aligned with the lower convex edge of the plastic door cover (Fig. 13 A), and the rear part of the rack should be at 45 mm distance from the opening seal (Fig. 13 B). Using the holes in the rack, mark out the centres of the fixing holes on the door.

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

Drill the holes with Ø6,5 mm according to the markings. The holes must be aligned.

Fasten the rack using the following scope of delivery:

1. screws M6x40

2. 4x M6 nuts on slab

3. 5x M6 nut on mounting plate

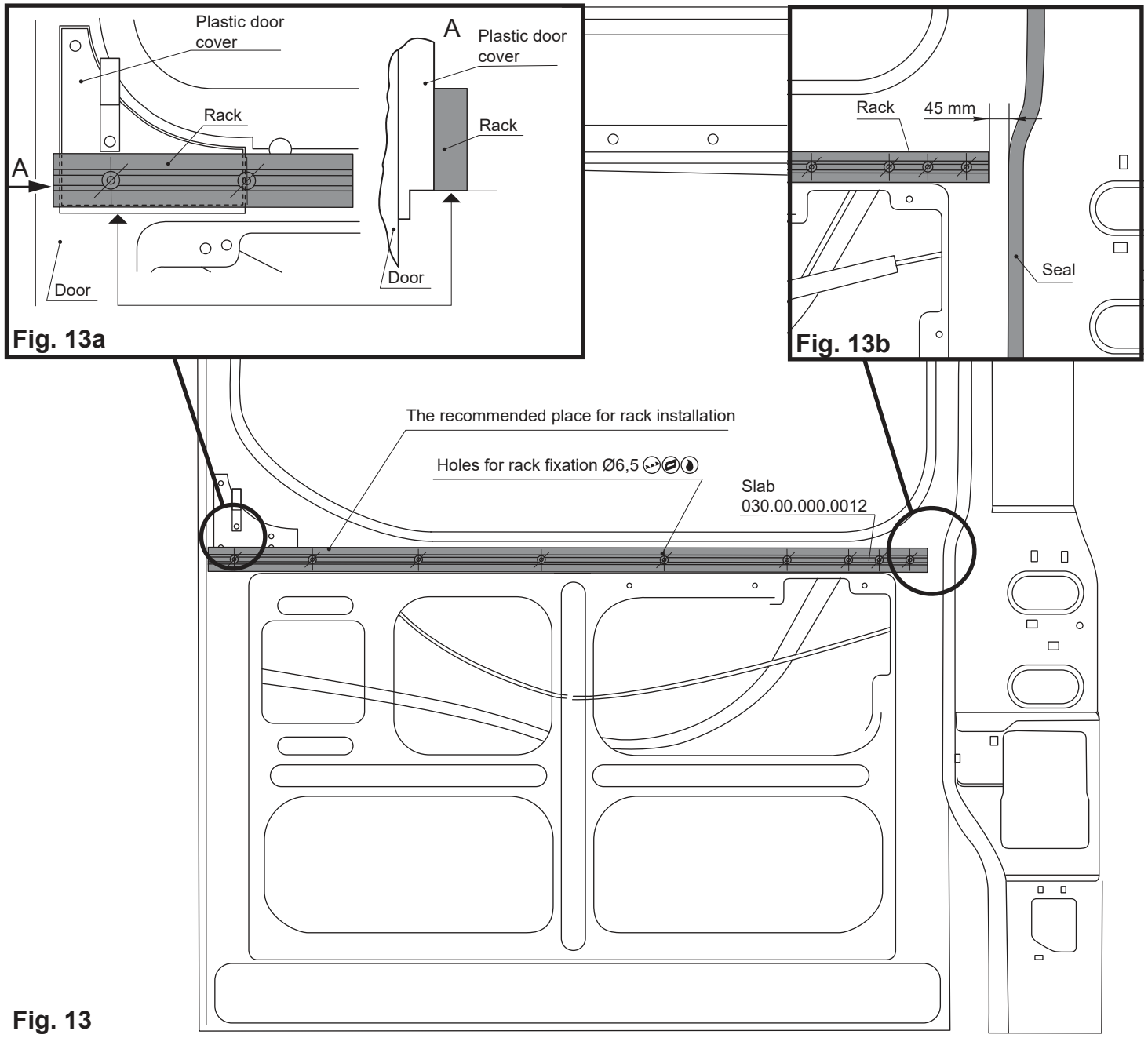


Fig. 13

6.9 Bracket mounting

Remove the door seal in the mounting area of the bracket Fig. 14.

Position the bracket on the C-pillar as follows horizontally so that level

level A of the rack is **9 mm ± 1** mm higher than level B of the bracket and
dimension C between the rack and the bracket is **8 mm ±** 2 mm.

Mark the drilling points over the drill holes in the bracket, Fig. 15.

Drill the hole with Ø6.5 mm for the screw M6x25 screw. Drill the 6 Ø5 mm holes for the rivet 4.8x12, alternatively sheet metal screws 4.8x22 can be used, Fig. 16, 17.

First screw on the bracket with M6x25, then fasten the rivets; these fastening are included in the scope of delivery.

A piece must be cut out of the door seal in the area of the ball, Fig. 14.

Replace the door seal.

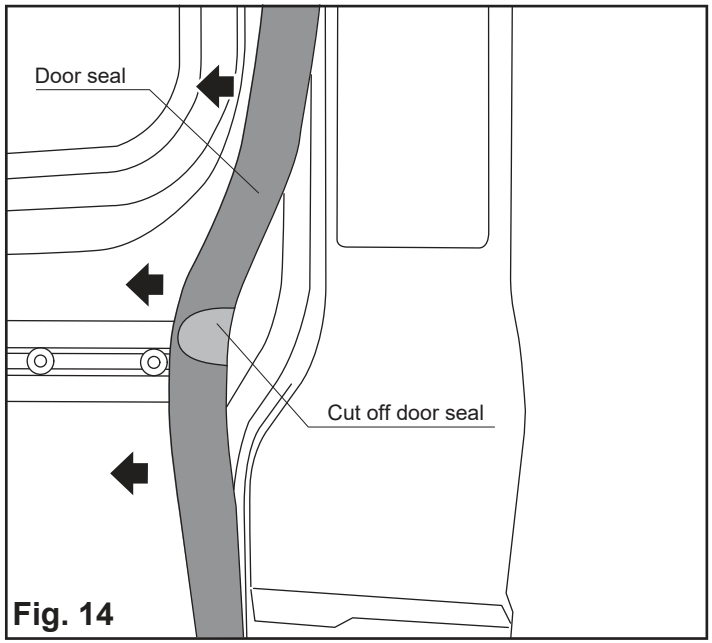


Fig. 14

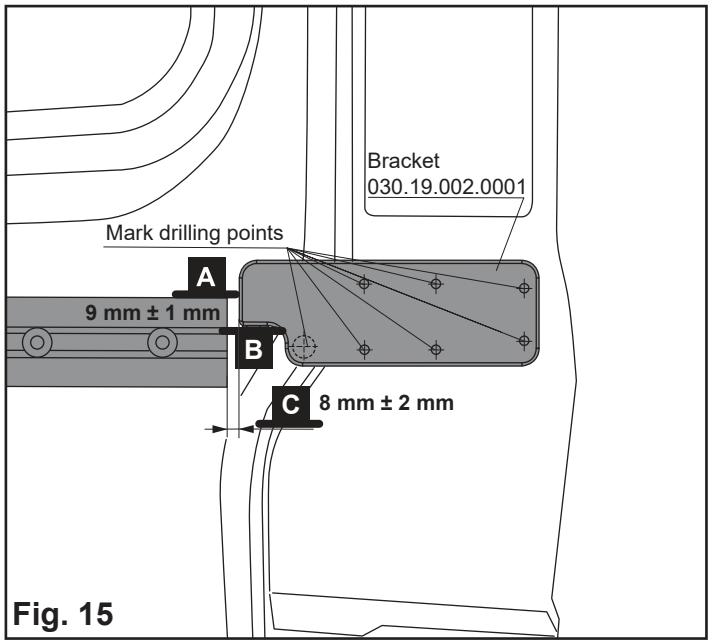


Fig. 15

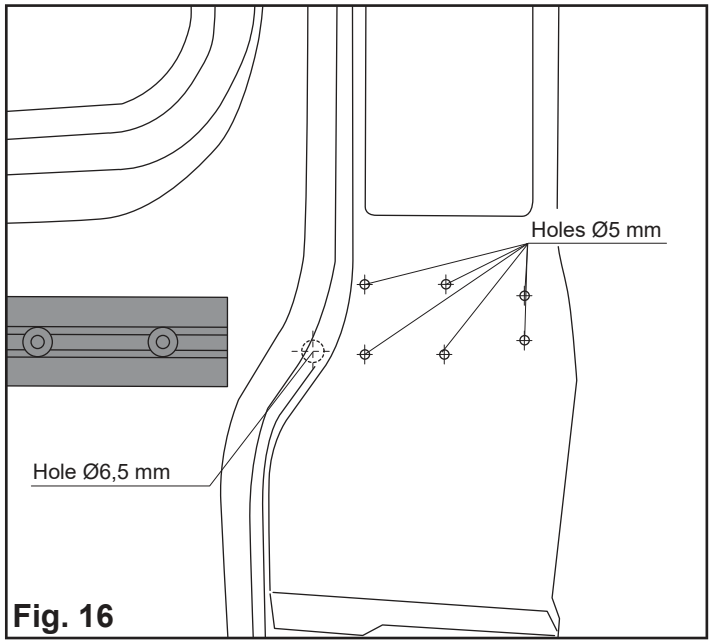


Fig. 16

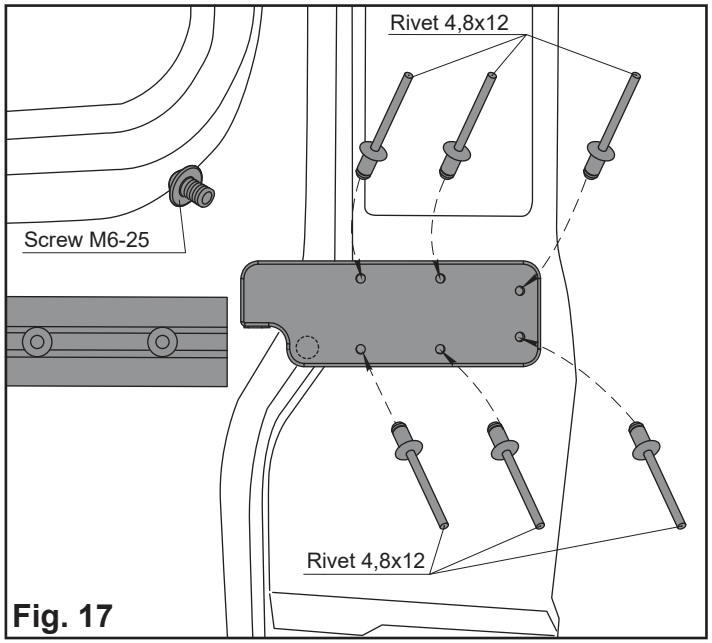


Fig. 17

6.10 Preliminary preparation

Attach the balljoint with the bracket (SW14), Fig. 18.

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. 19.

Install the door drive on the rack, Fig. 20.

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. 21.

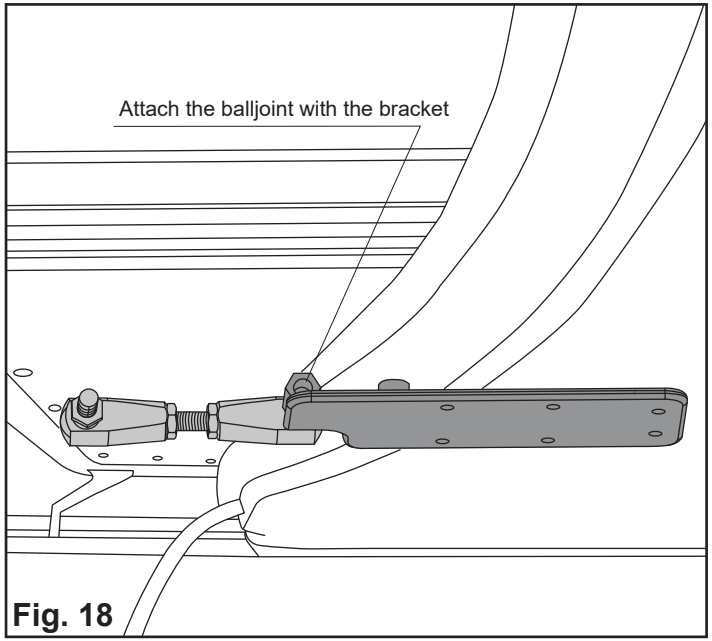


Fig. 18

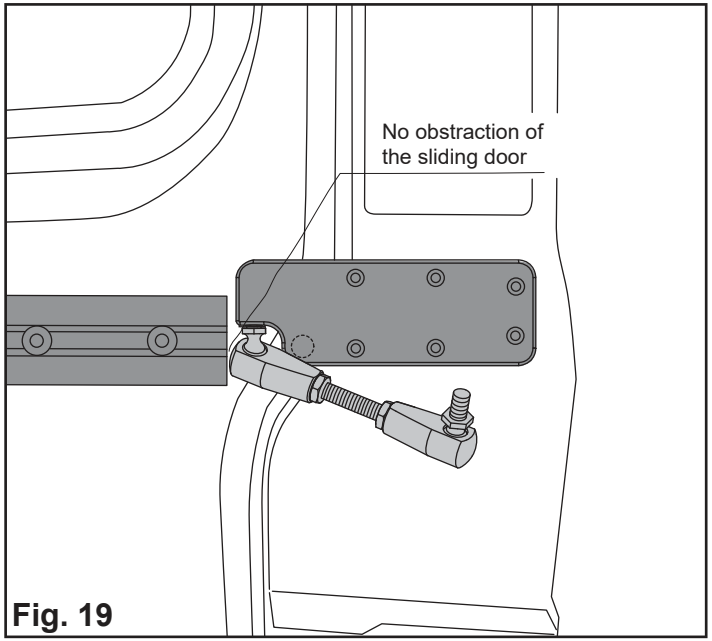


Fig. 19

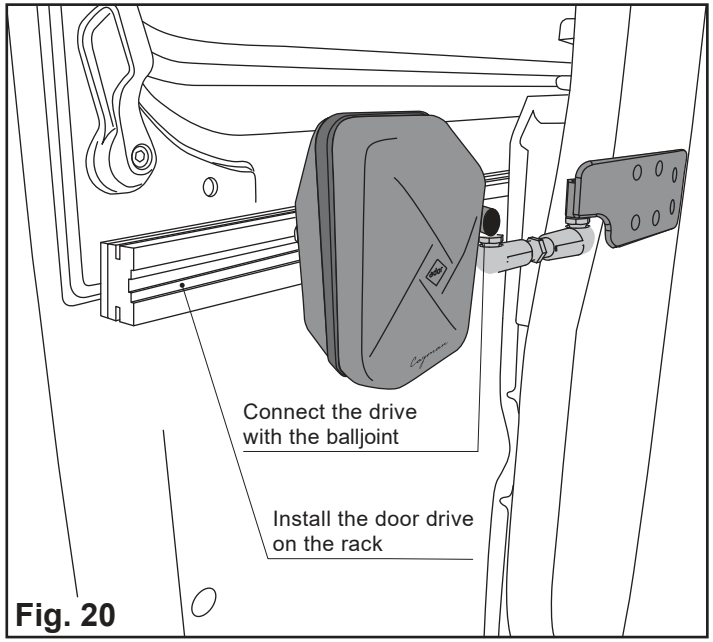


Fig. 20

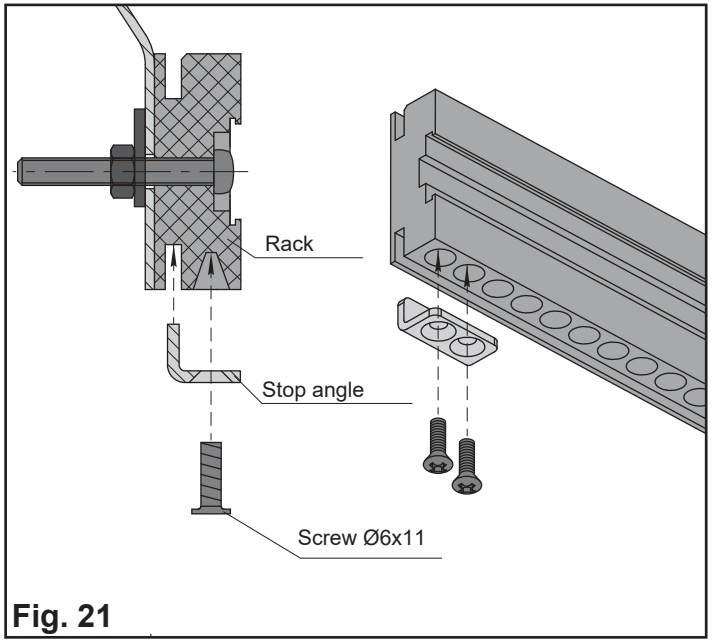


Fig. 21

7 The first cycle

7.1 The first cycle of rack-and-pinion drive

Clean the rack housing from cuttings, Fig. 22, 23.

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 stop angle.

Then the drive will operate as usual.

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

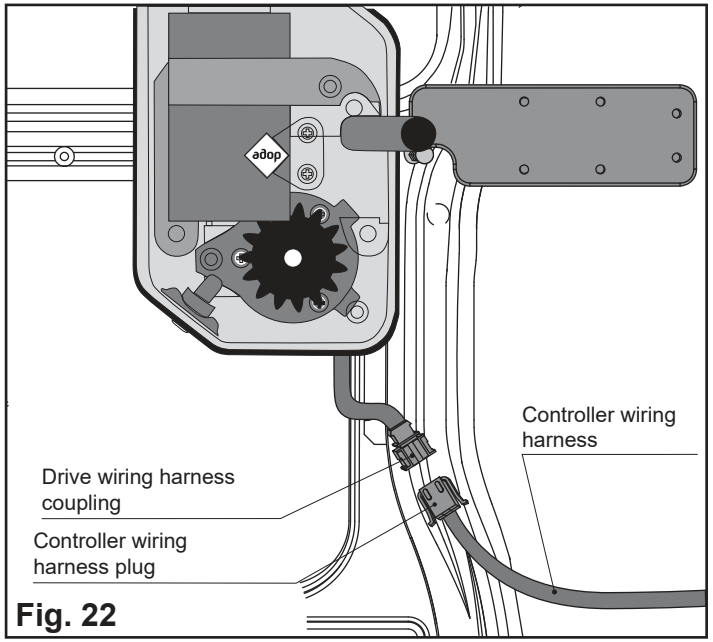


Fig. 22

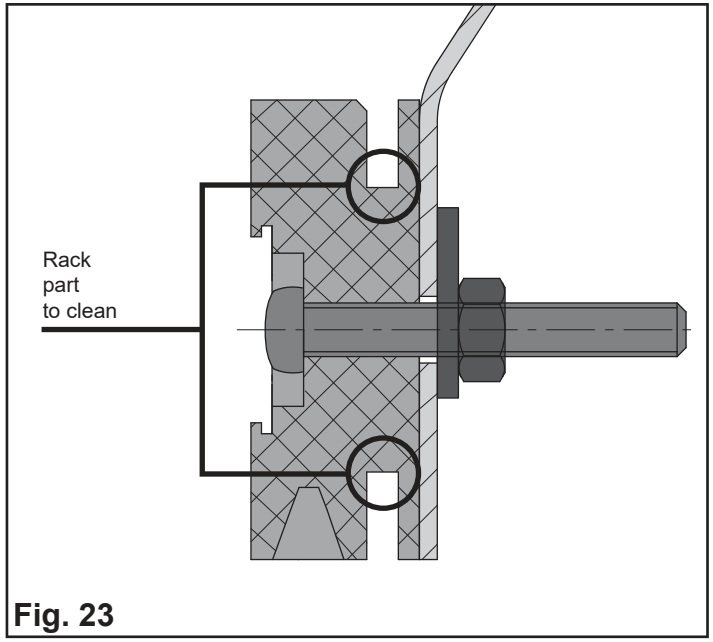


Fig. 23

7.2 Drive adjustment

Adjustment via the balljoint

Position of the balljoint with the sliding door correctly closed sliding door as shown in Fig. 24.

Adjust the length of the ball joint (Fig. 25) 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. 26.

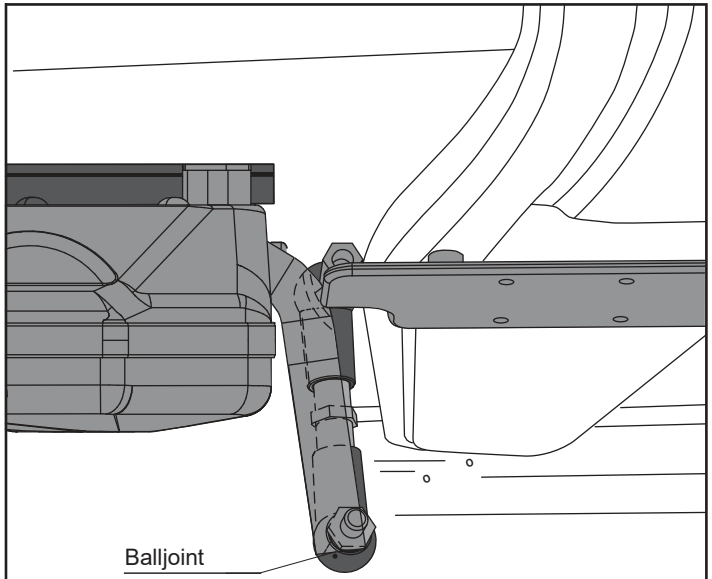


Fig. 24

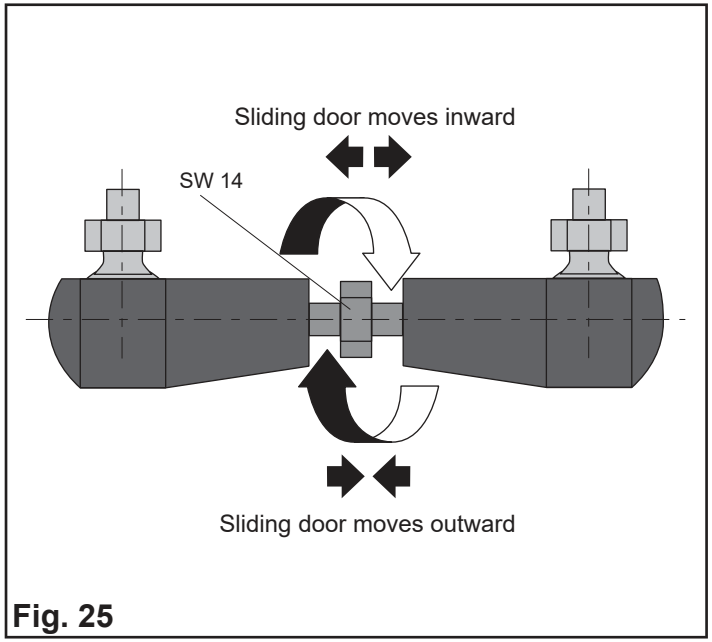


Fig. 25

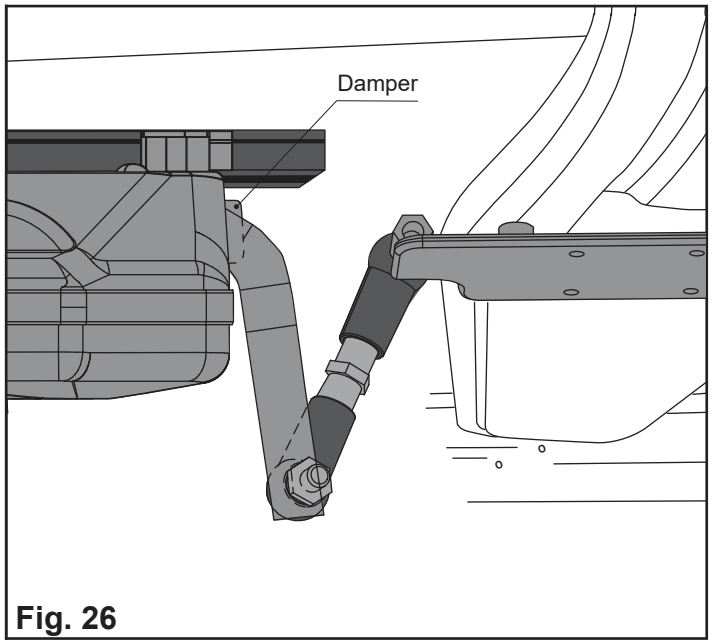


Fig. 26

7.3 Monting of decorative cover strip

Cut the cover strip to fit the rack.

Carefully insert the cover strip intp the rack goove as shown in Fig. 28 and 29.

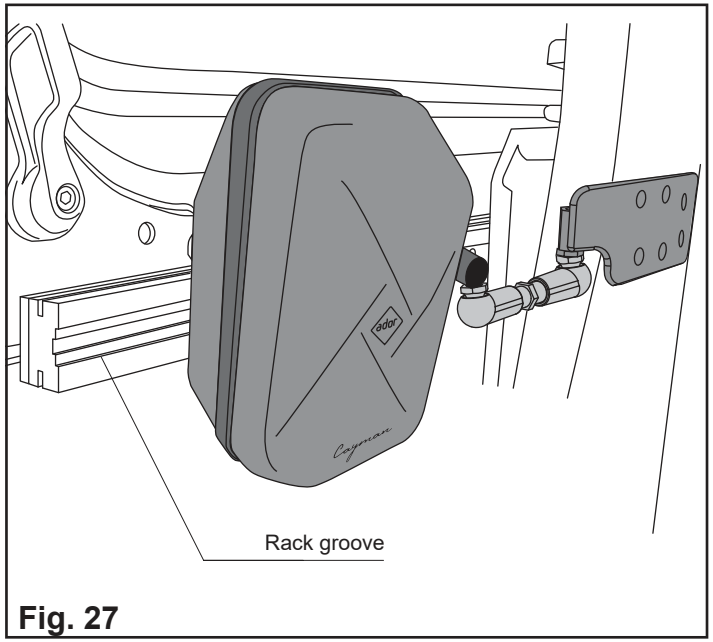


Fig. 27

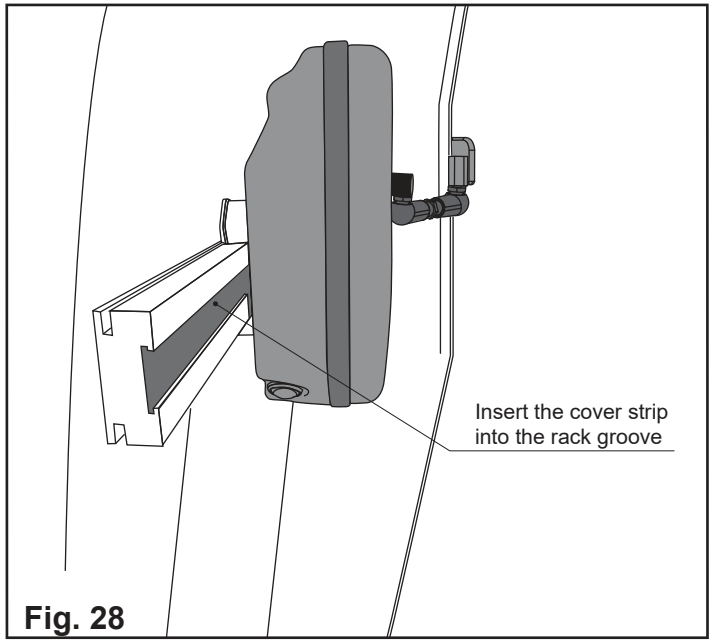


Fig. 28

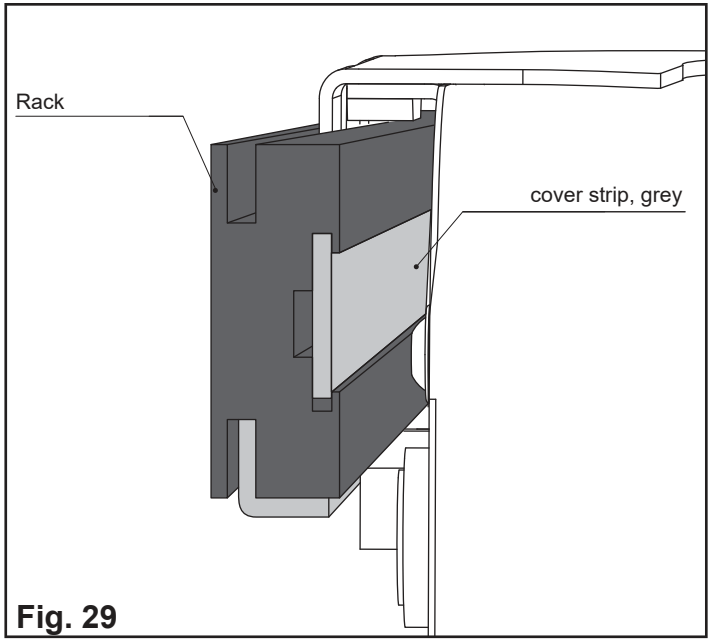


Fig. 29

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 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.

The controller stops the drive 20 mm before this open position.
Recommendation: move the desired open position 20 mm further.

SETTING THE DOOR CLOSING SPEED
Press the control button until the acoustic signal sounds four times, ~ 20 sec, then release the button.

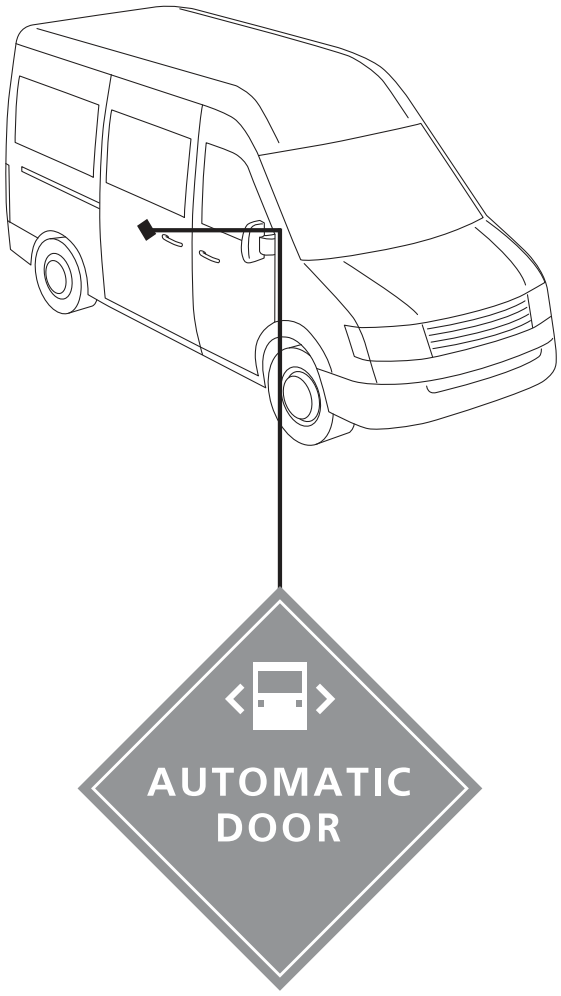
TO REDUCE THE SPEED, it is necessary to press the control button several times while the sliding door is opening.
Each time the button is pressed, the speed is reduced by one level.

TO INCREASE SPEED, it is necessary to press the control button several times while the sliding door is closed. Each time the button is pressed, the speed is increased by one level.

RESTORING THE FACTORY SETTING
Press and hold the control button until the acoustic signal sounds five times, ~ 25 sec, then release the control button.

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

7.5 Warning sticker



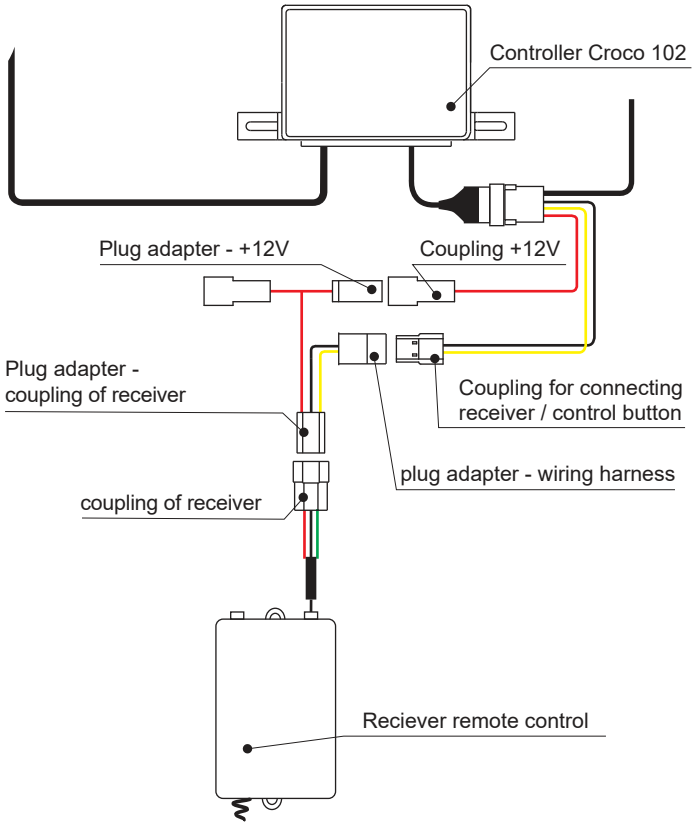
Self-adhesive warning sticker is located outside on the panel of the sliding door. It should be noticeable.

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.



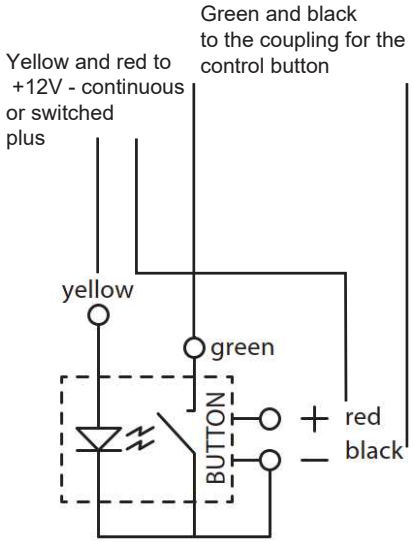
8.2 Touch button

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 Handle cover outside 030.10.004.0001

Position the cover on the outside door handle.
Mark the two drill holes.
Drill a Ø3 mm hole in the handle.
Screw the cover to the outside door handle using two self-tapping screws 4.2x16 (included in delivery) to the outside door handle, see Fig. 30.

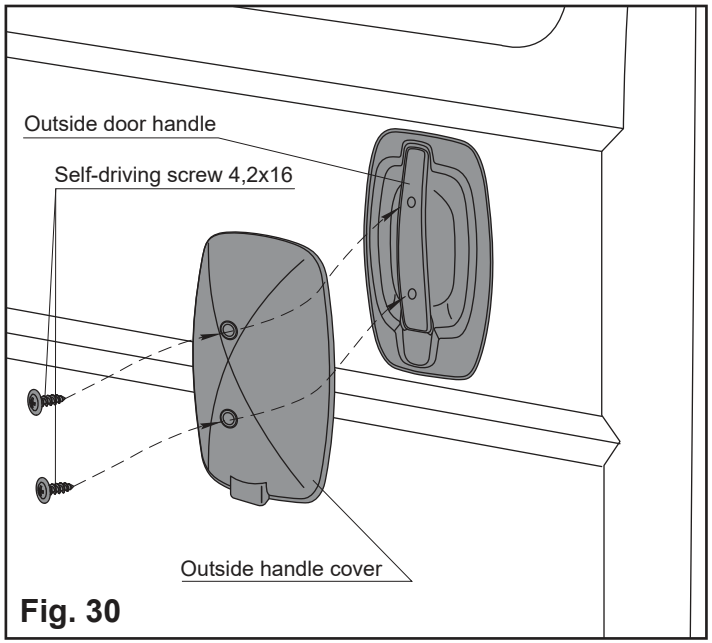


Fig. 30

8.4 Safety edge 030.18.000.0020 on door edge

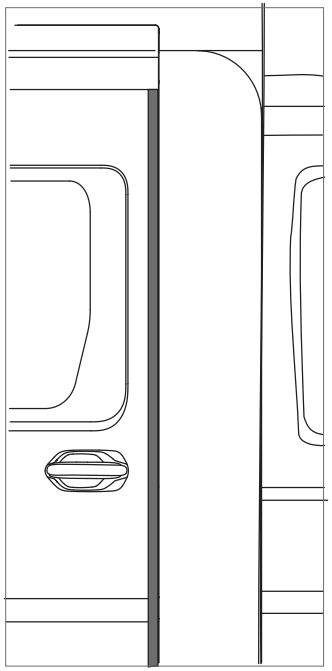


Fig. 31

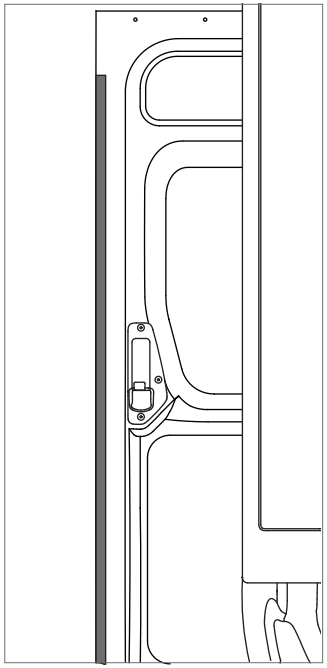


Fig. 32

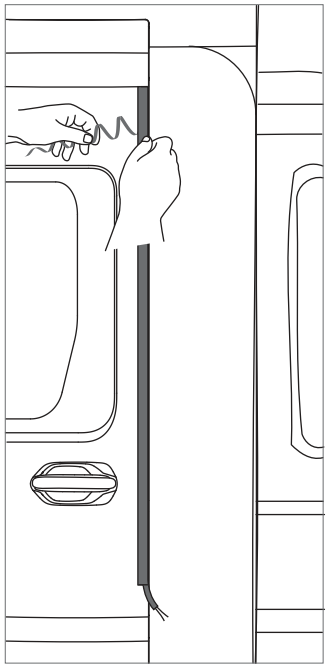


Fig. 33

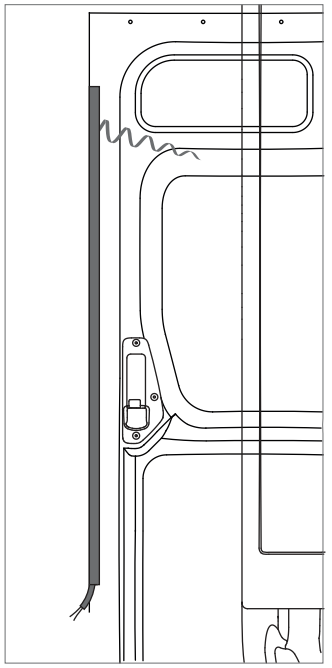


Fig. 34

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. 31, 32).

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. 33) and press the safety edge firmly into place.
Carry out the same procedure on the inside (Fig. 34).

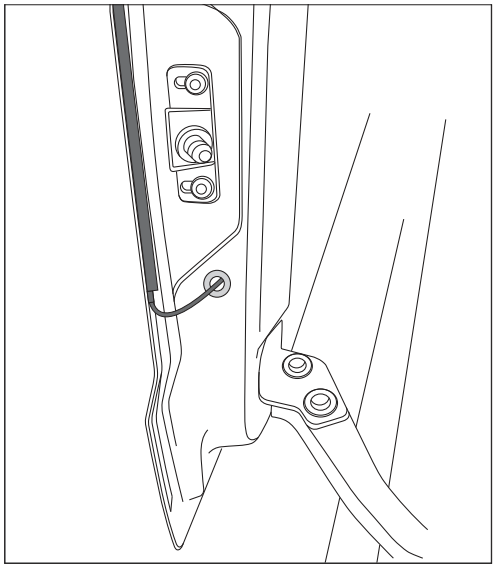


Fig. 35

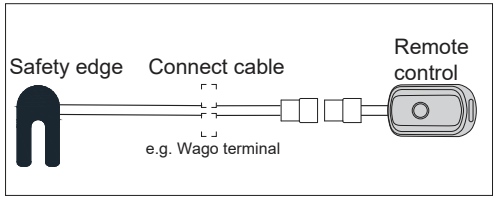


Fig. 36

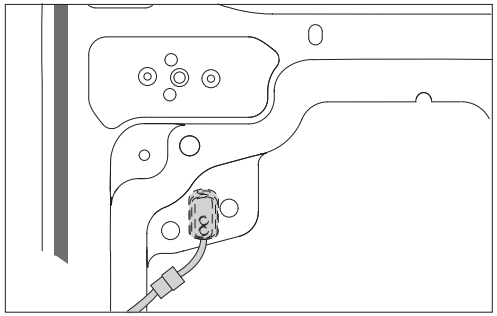


Fig. 37

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. 36).
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. 37).
Attach the remote control to a suitable location using double-sided adhesive tape (Fig. 38).

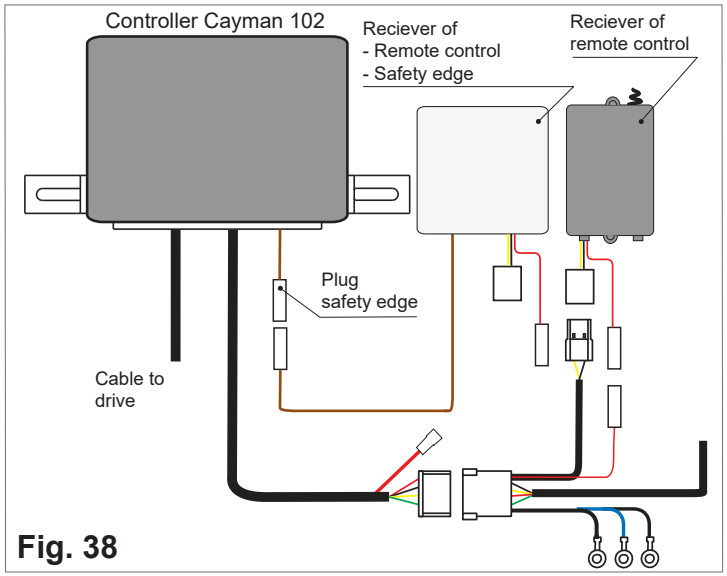
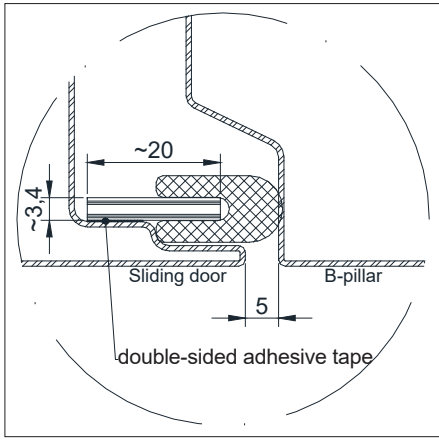


Fig. 38

Cayman 102: Connect the corresponding receiver to the control unit as shown in Fig. 38.



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 26, Fig. 31 and following.

9 Notes

9.1 Emergency door opening from the outside

1. Remove the cover, if present, (Fig. 39).
2. Pull and hold the door handle (Fig. 40).
3. Pull the left-hand part of the door towards you (Fig. 40).
4. Open the door with the door handle to the left, (Fig. 40).

9.2 Emergency door opening from the inside

1. Turn and hold the door handle (Fig. 41).
2. Push the drive diagonally outwards to the left (Fig. 41).
3. Open the door with the door handle to the right, (Fig. 41).

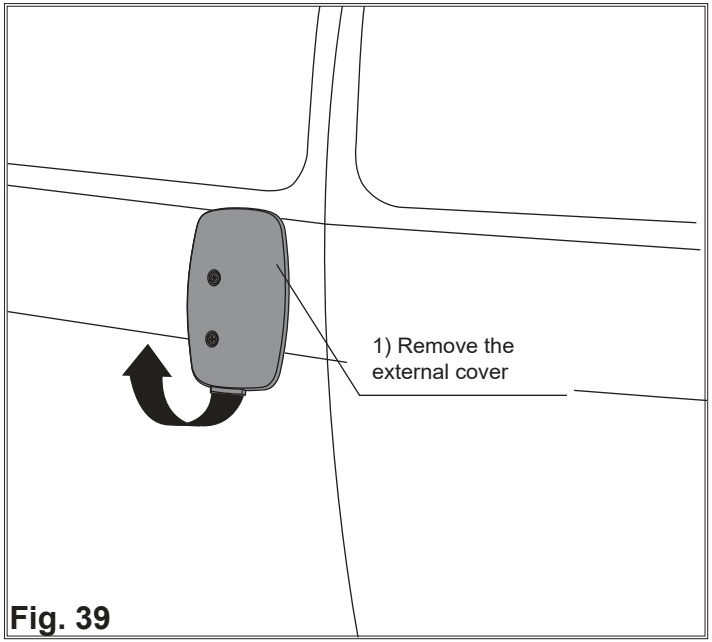


Fig. 39

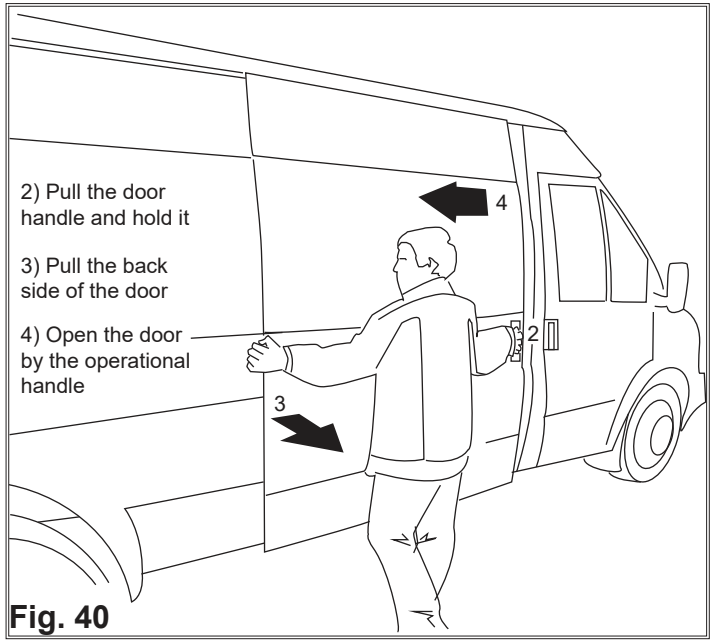


Fig. 40

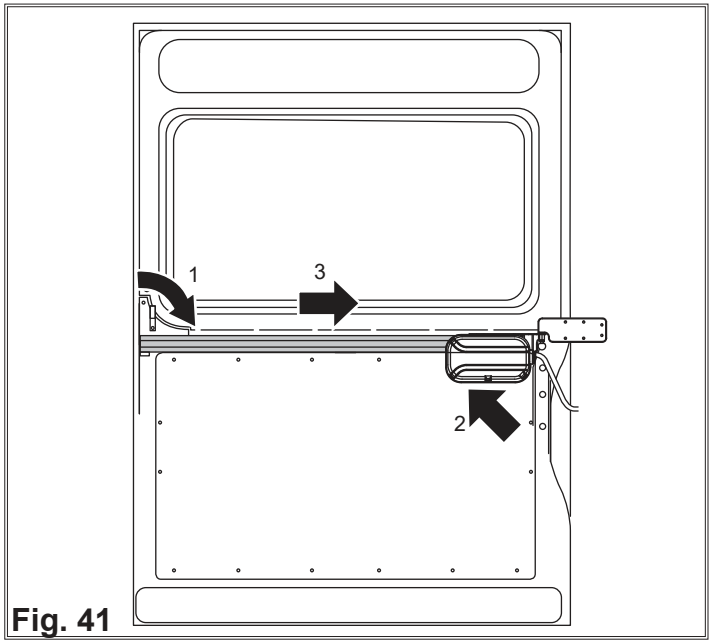


Fig. 41

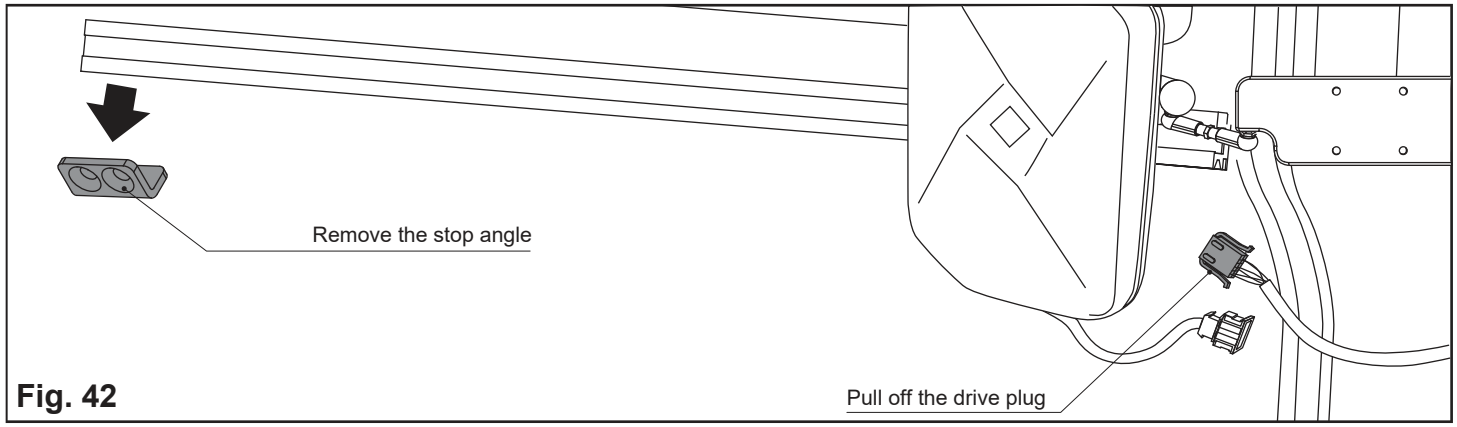


Fig. 42

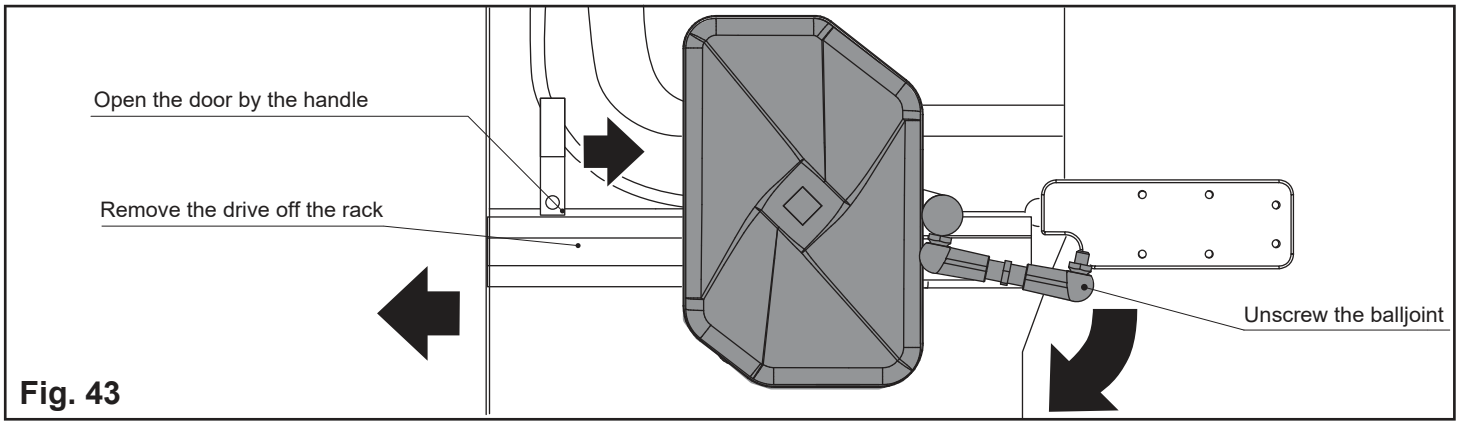


Fig. 43

10 Manual mode reset

10.1 Rack-and-pinion drive

1. Remove the stop angle (Fig. 42).
2. Remove the drive cover (Fig. 42).
3. Pull off the drive plug (Fig. 42).
4. Unscrew the balljoint (Fig. 43).
5. Remove the drive off the rack (Fig. 43).

The sliding door now operates manually.

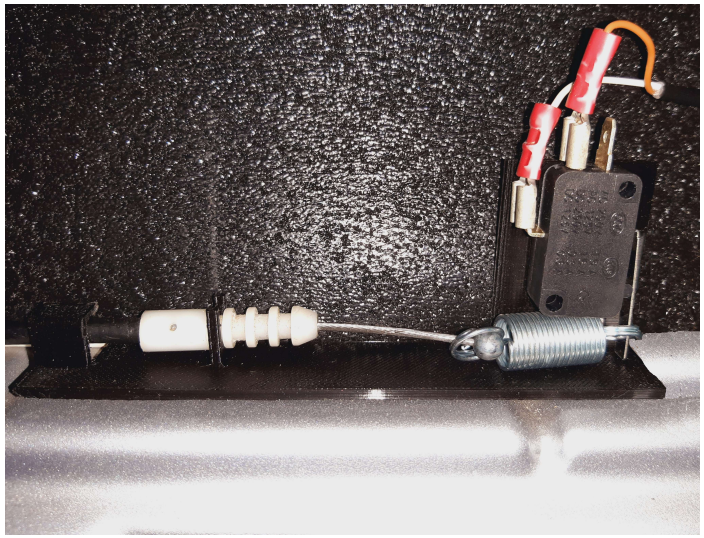
11 Extensions

11.1 Switching the remote control receiver on/off with the vehicle's central locking system (30.99.000.0001)

> Operation via handle on the outside and inside

> Signal scanning of the vehicle's central locking system

The ‘Remote control with 1 key’ accessory is required



Assembly:

1. Lay the Bowden cable inwards
2. Glue/screw the bracket with switch to the surface, see photo
3. Hook the Bowden cable into the spring loop and compress the spring loop with pliers, if necessary adjust the pre-tension using the notches in the Bowden cable
4. Connect the two cables of the remote control to the two cables of the switch as required, secure the remote control with the double-sided adhesive tape or stow it away elsewhere

Connection to the cables to the vehicle contact switch
Sliding door unlocked/locked

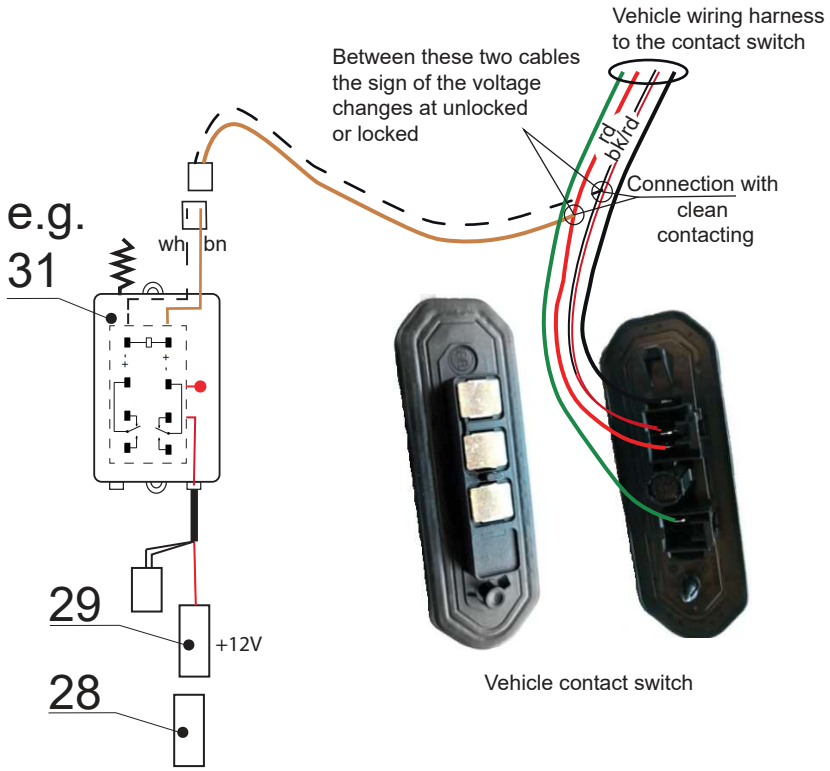


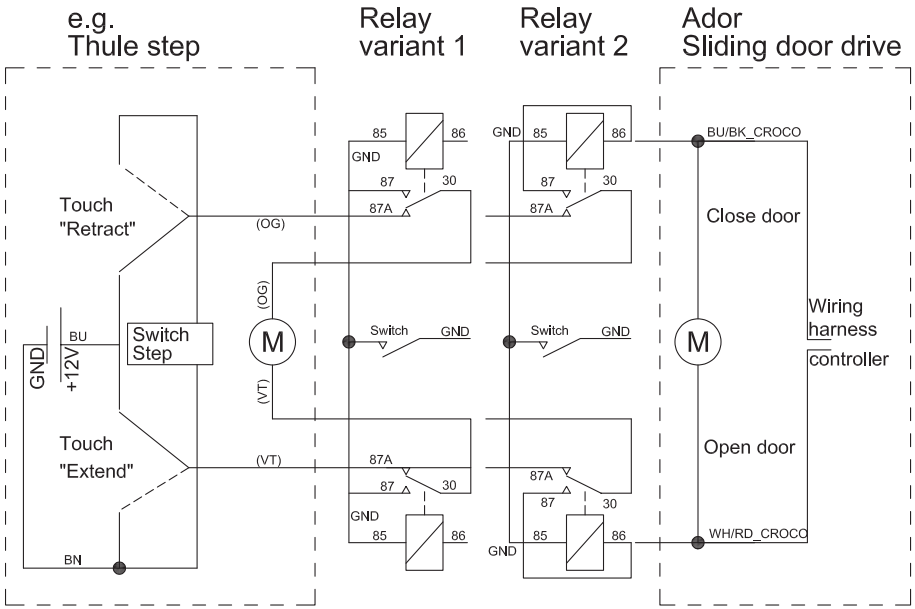
Illustration: Extract from 6.2 Wiring harness and connection diagram

The scope of delivery is customised to your requirements.

We recommend that you purchase a key for the remote control (item no. 30.00.000.0038) if you select the following accessories:

> Safety edge

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.

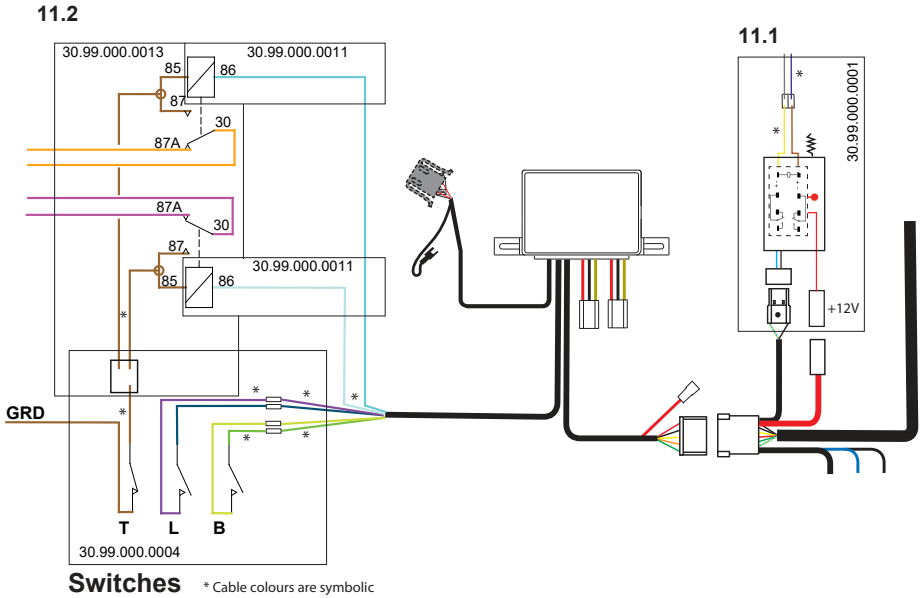
We recommend that you send us your wiring diagram for the step.

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



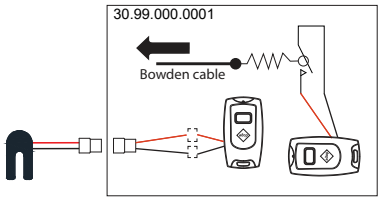
11.1 Remote control variant

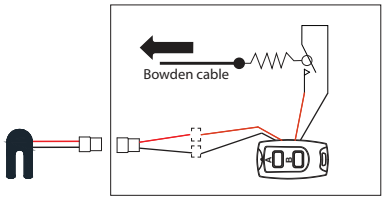
Door handle actuation has a remote control

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.