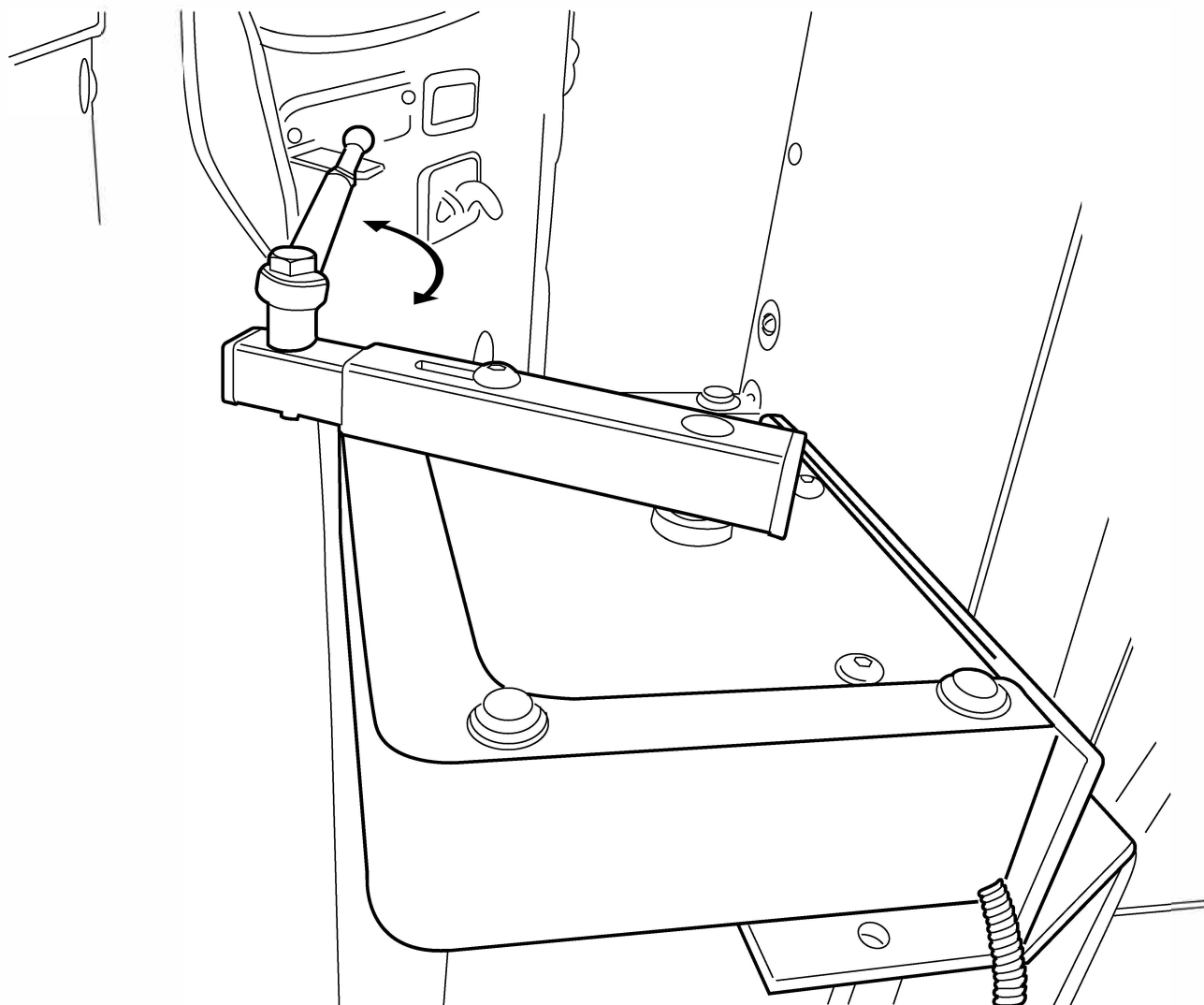


MOUNTING INSTRUCTIONS

mobilityRDO™

REAR DOOR OPENER



FOR MOUNTING IN VEHICLES:



NISSAN
INTERSTAR



OPEL
MOVANO



RENAULT
MASTER



VW
T5



MERCEDES
SPRINTER / VIANO



FORD
TRANSIT CUSTOM



230.MI.EN

Mobility
NETWORKS
VEHICLE ACCESSIBILITY SOLUTIONS

ENGLISH

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HandiRDO™ / Universal lift bracket

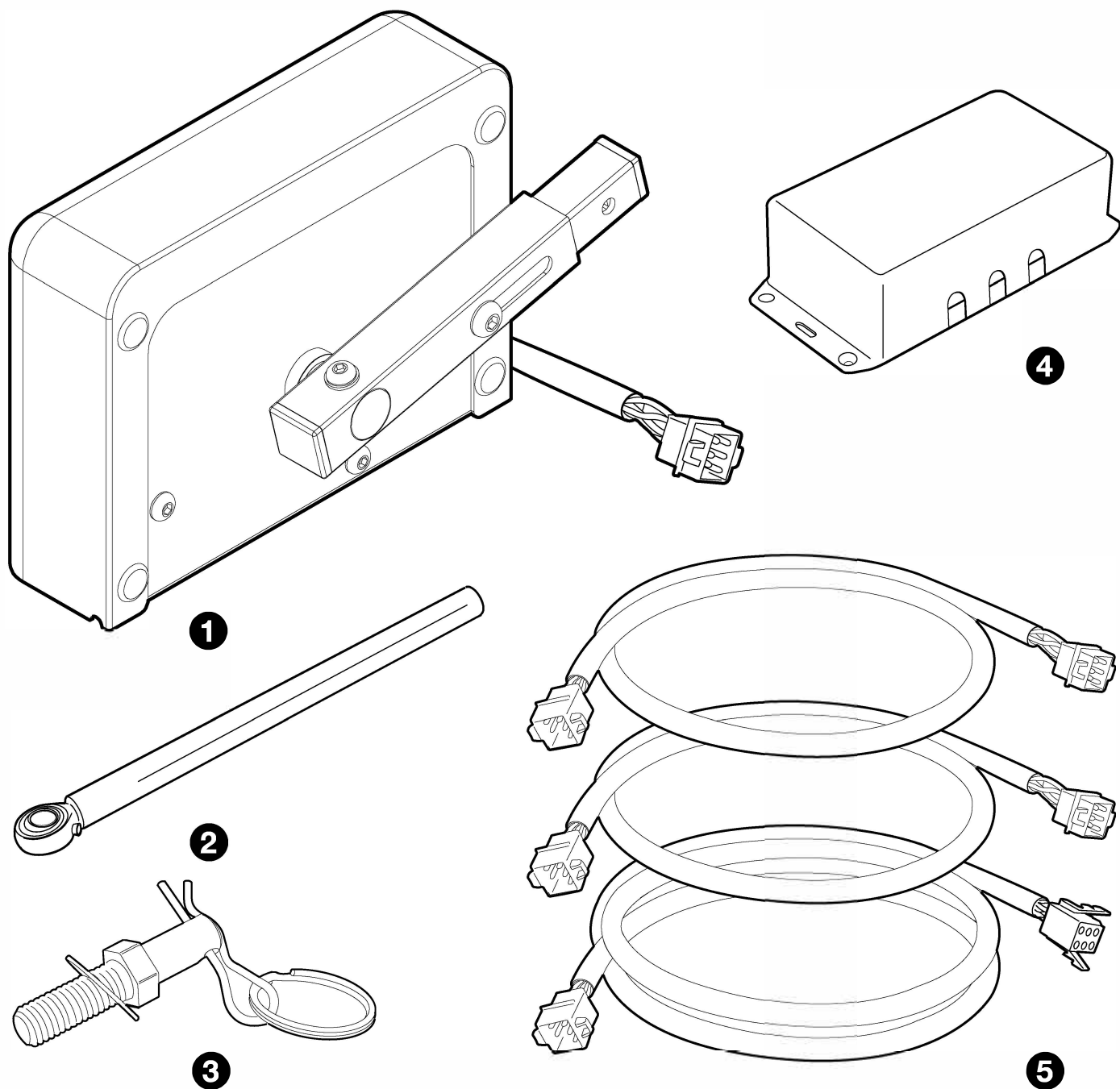
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Configurations.....	5
Universal lift bracket.....	6
Mounting of lift bracket.....	7
Mounting of door opener onto universal lift bracket.....	8
Connection.....	10
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Mounting of door bracket

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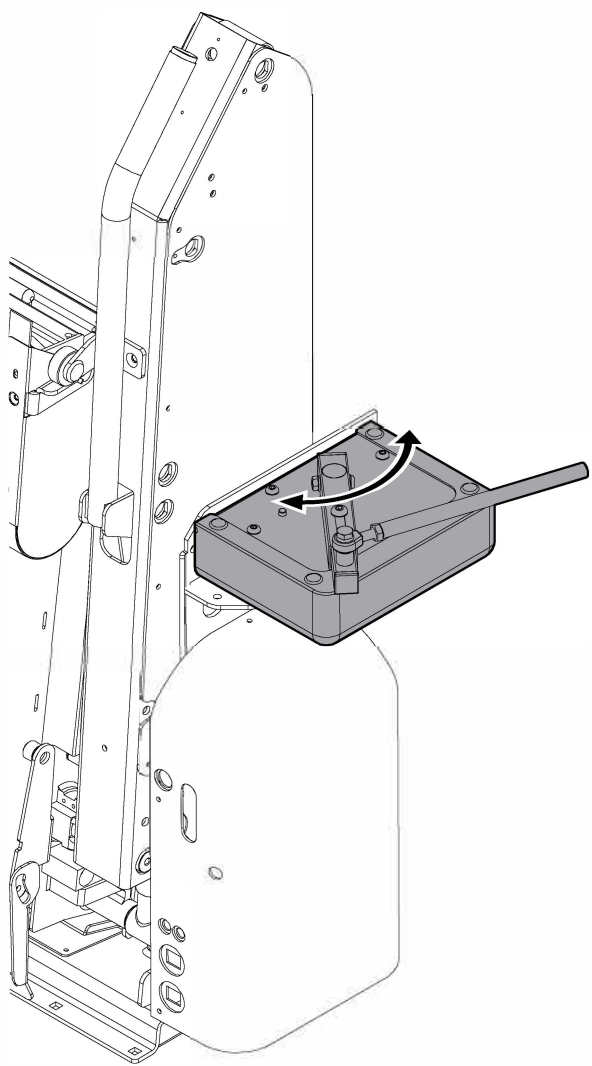
Package overview

mobilityRDO™
REAR DOOR OPENER

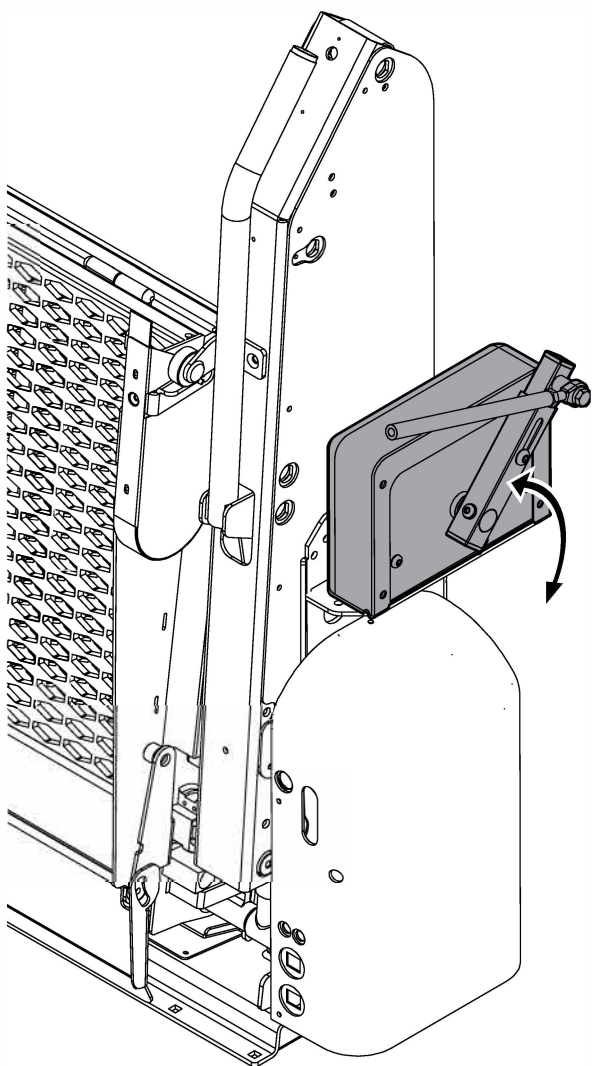


- 1** 2x HandiRDO™
- 2** 2x Mounting rods
- 3** 2x Emergency release pins
- 4** 1x Control box
- 5** 3x Cables
- 6** 1x Remote control (optional)
- 6a** 1x Wireless control (optional)

Configurations

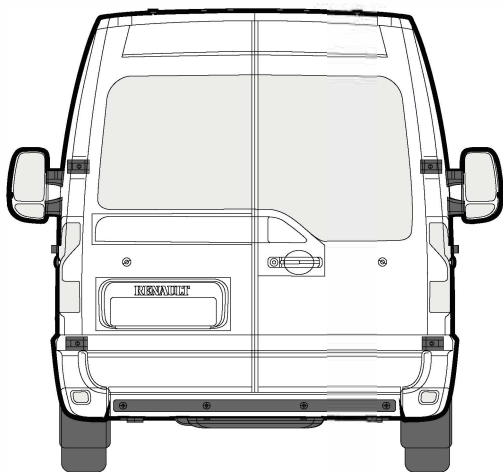


Horizontal



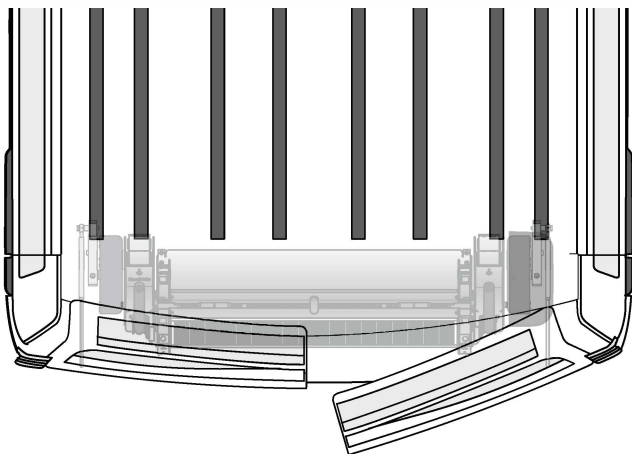
Vertical

The door opener can be mounted in two ways; vertical or horizontal, either way it has full functionality.



Left

Right

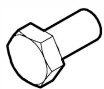
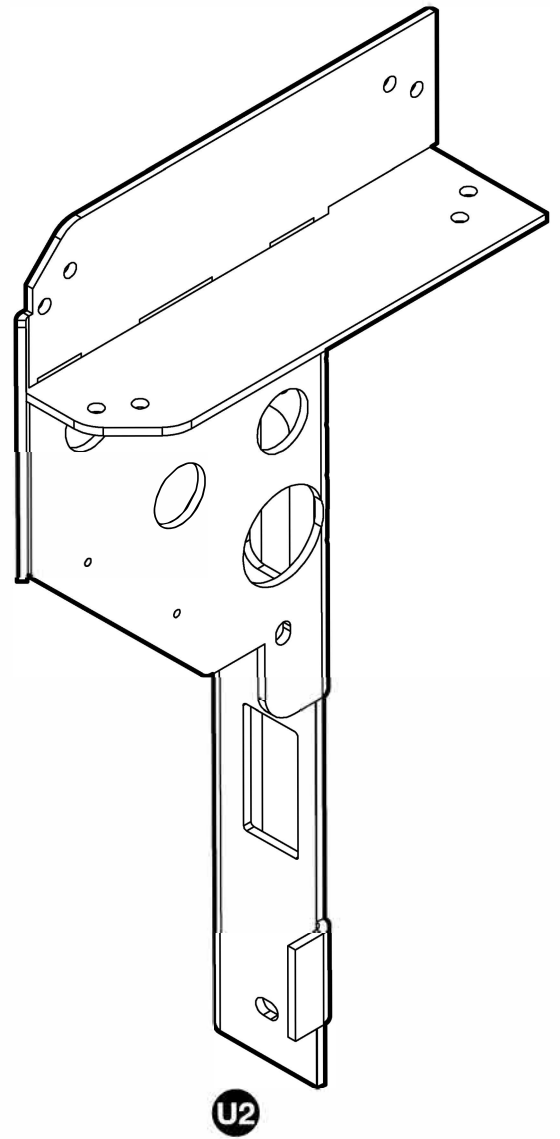
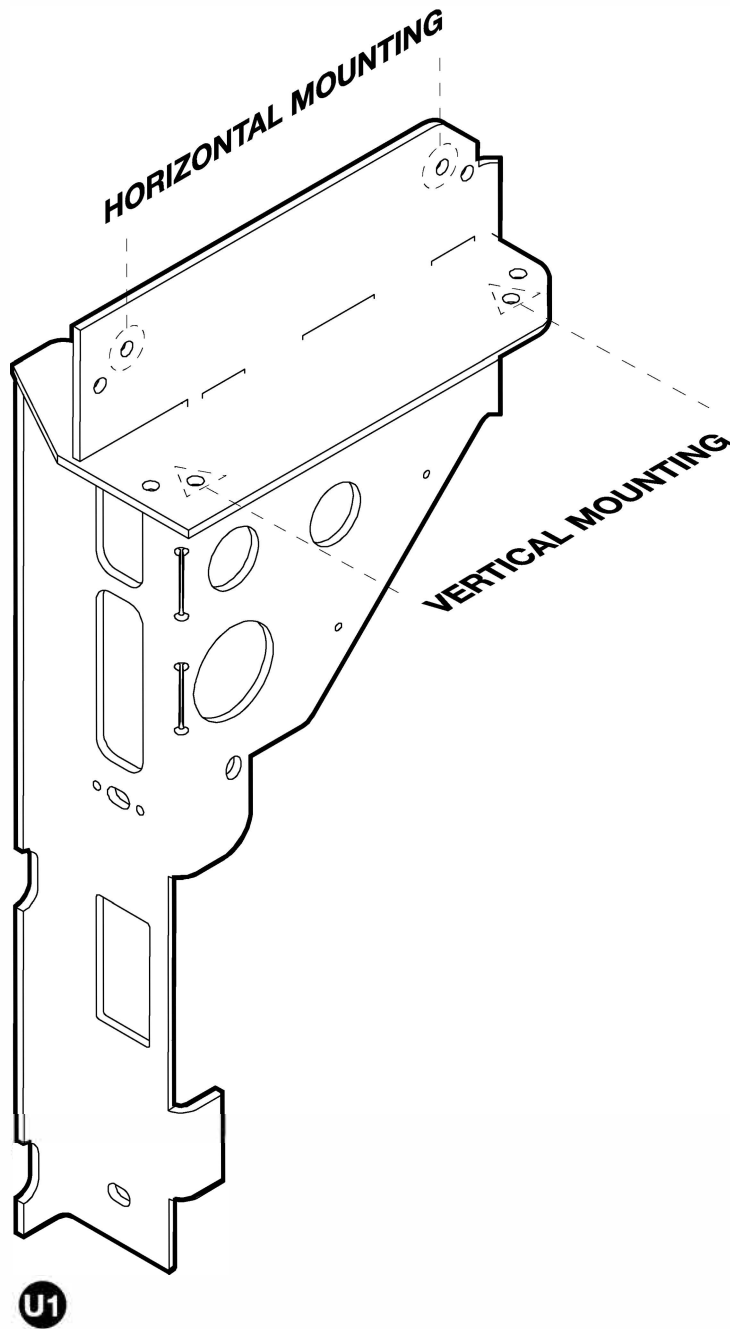


Left

Right

Universal lift bracket

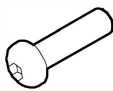
mobilityRDO™
REAR DOOR OPENER



U3



U4



U5



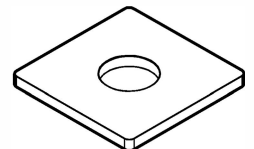
U6



U7



U8



U9

U1 1x Universal lift bracket (Right)

U2 1x Universal lift bracket (Left)

U3 4x M8x16 mm Bolt

U4 4x M8 Nut

U5 4x M8x30 mm Bolt

U6 4x M8 Washser

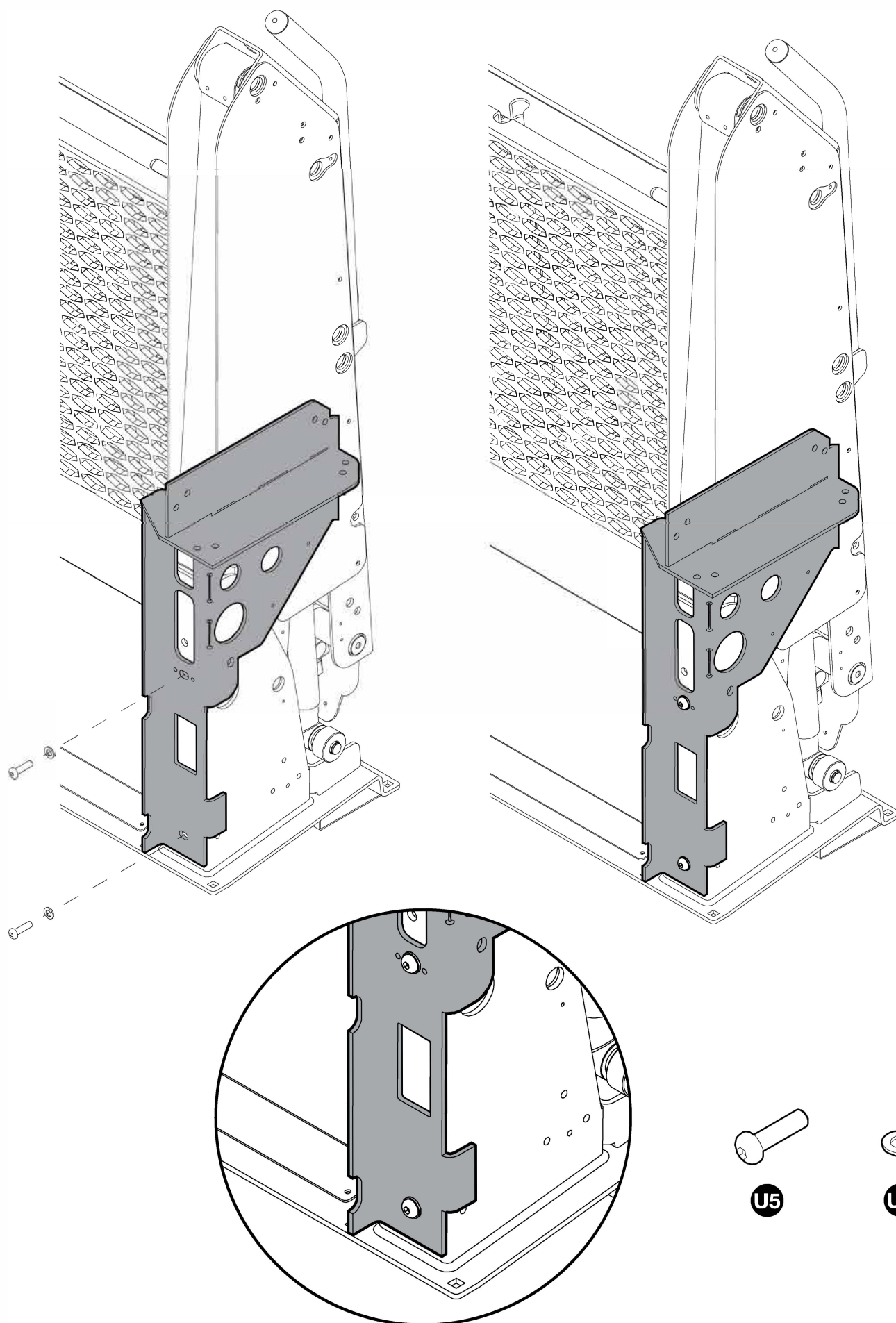
U7 4x M8 Washser

U8 4x M8 Spring washser (optional)

U9 4x Spacer (optional)

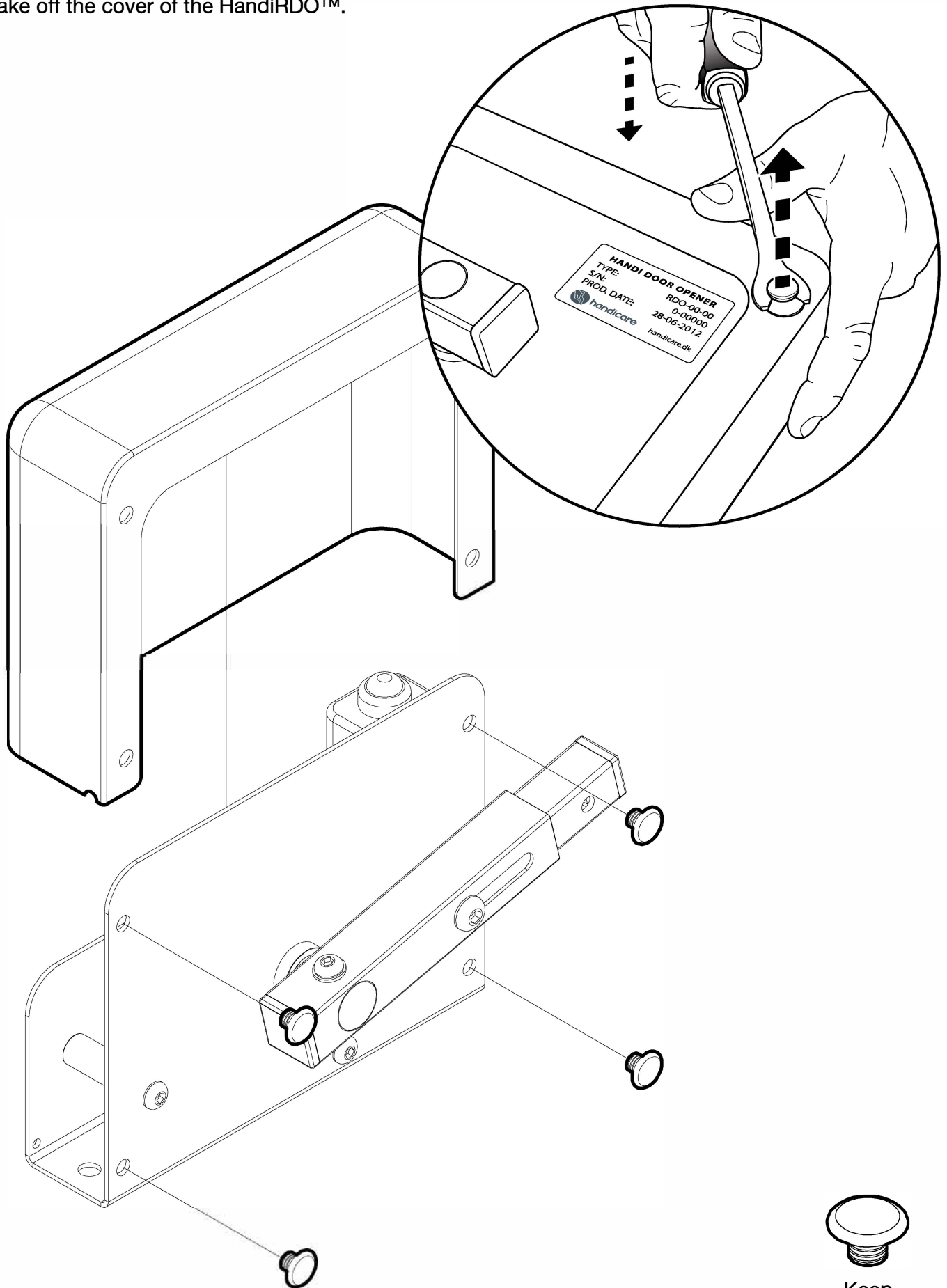
Mounting of lift bracket

mobilityRDO™
REAR DOOR OPENER



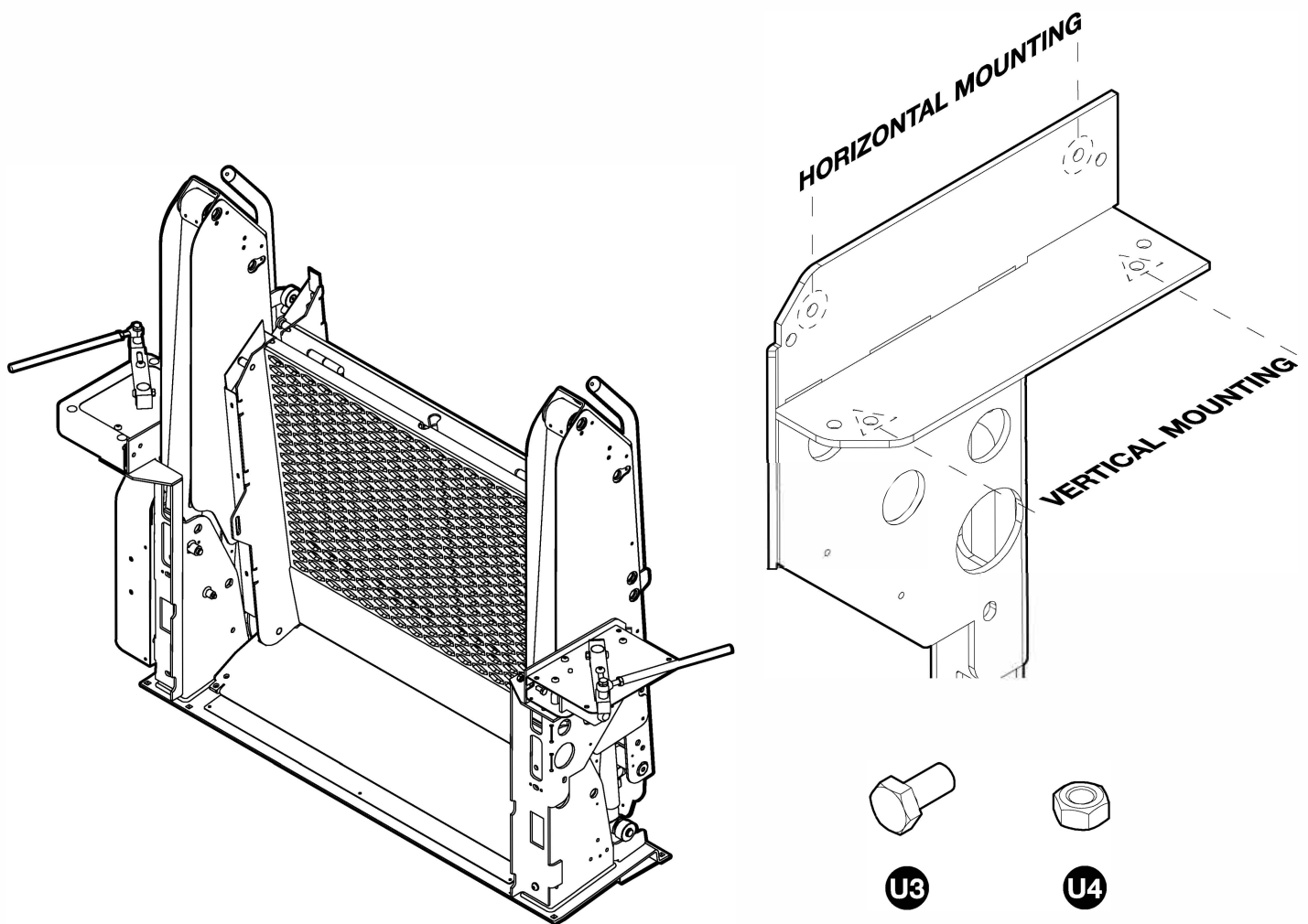
Mounting of door opener onto universal bracket

Take off the cover of the HandiRDO™.

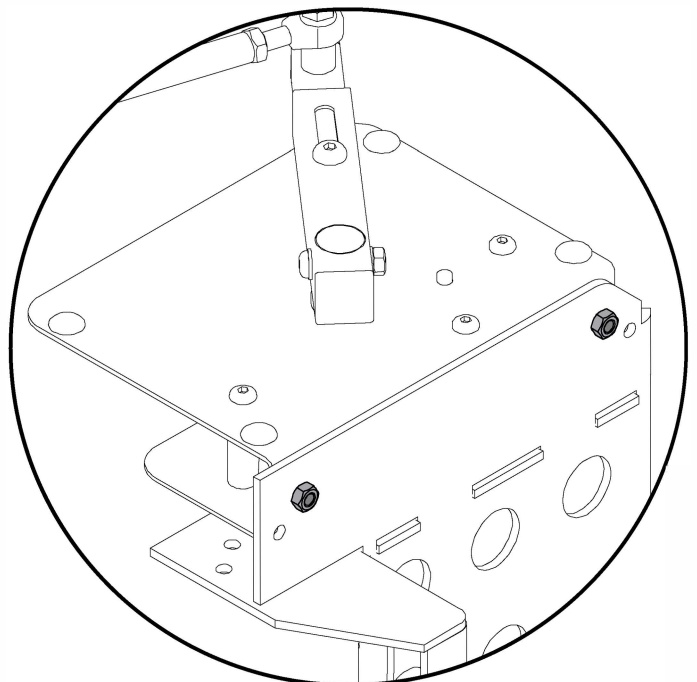
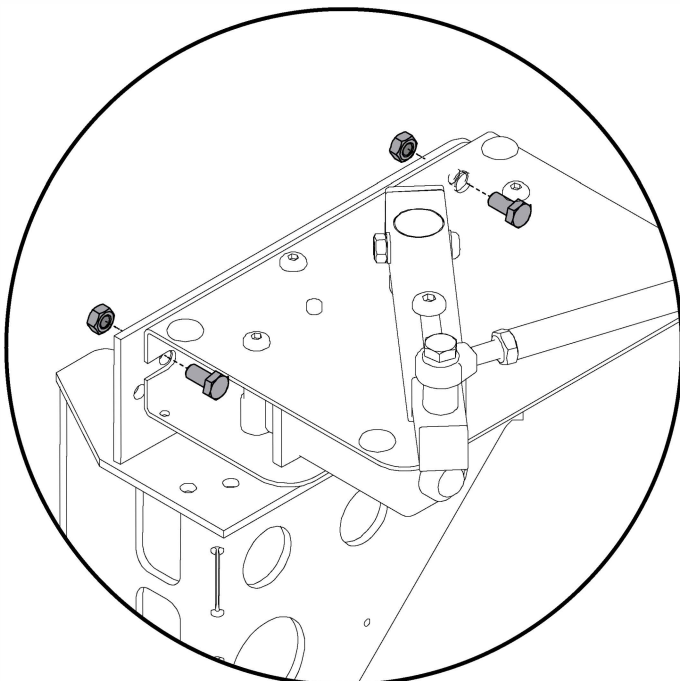


Mounting of door opener onto universal bracket

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REAR DOOR OPENER

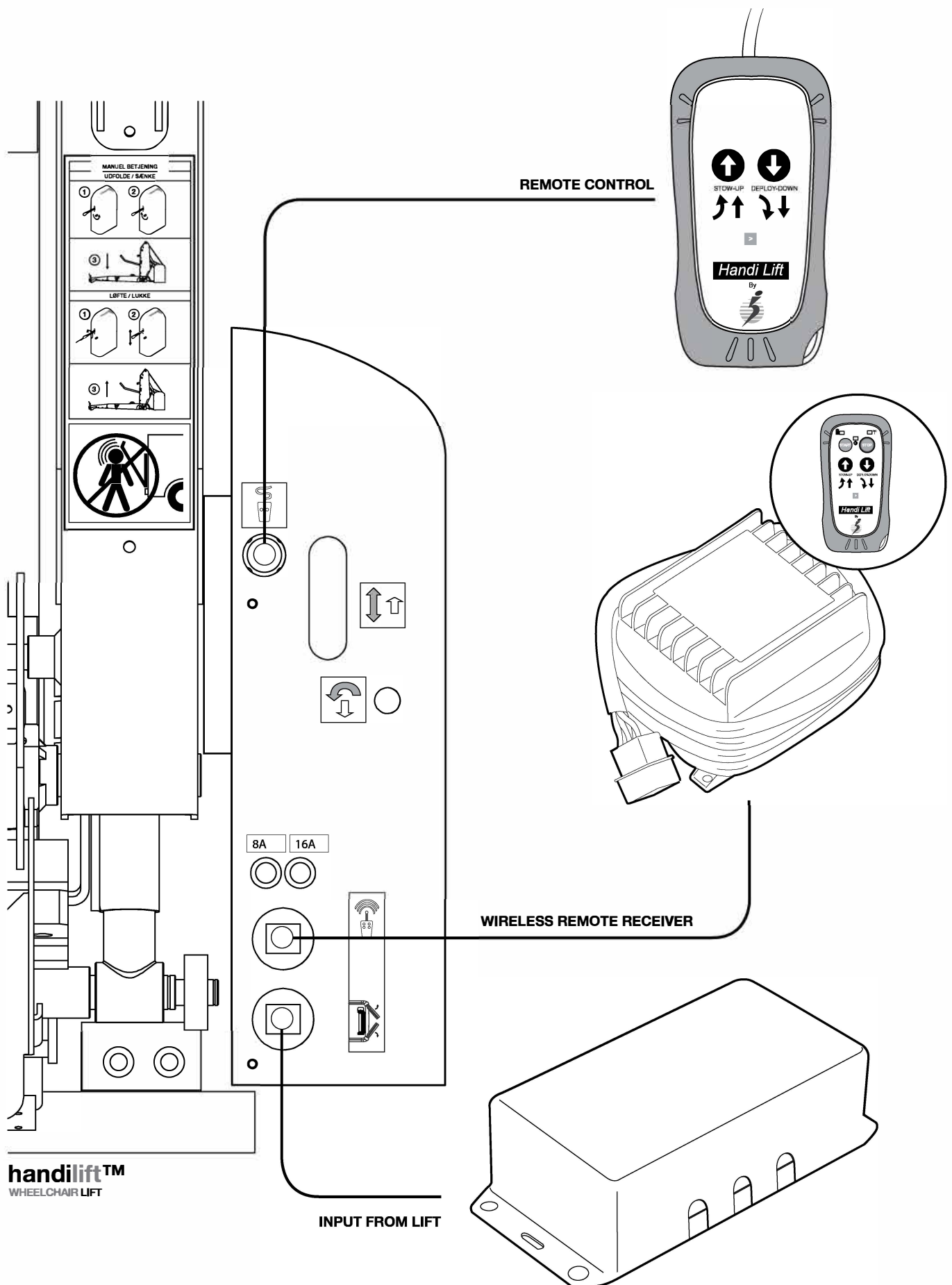


Mount the door opener with screws and nuts **U3** **U4** onto the bracket. Horizontal mounting shown.



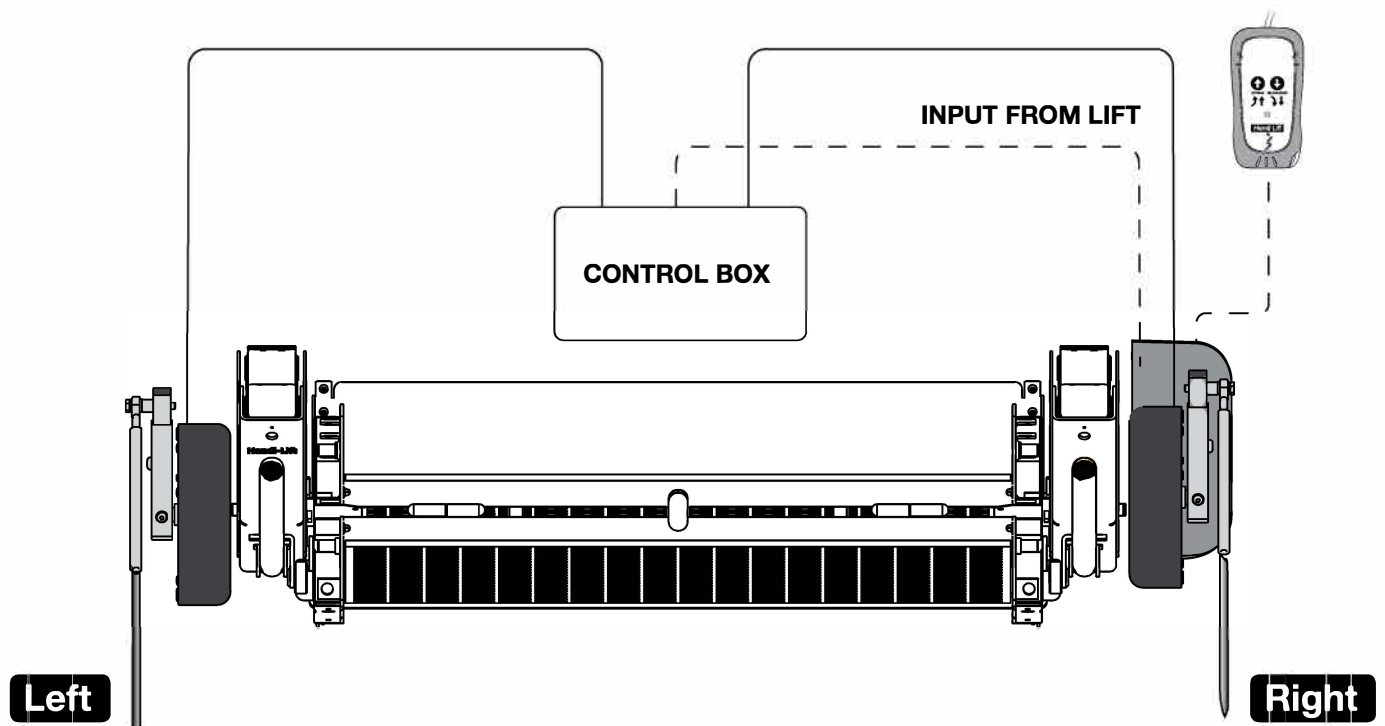
Connection

mobilityRDO™
REAR DOOR OPENER



Connection

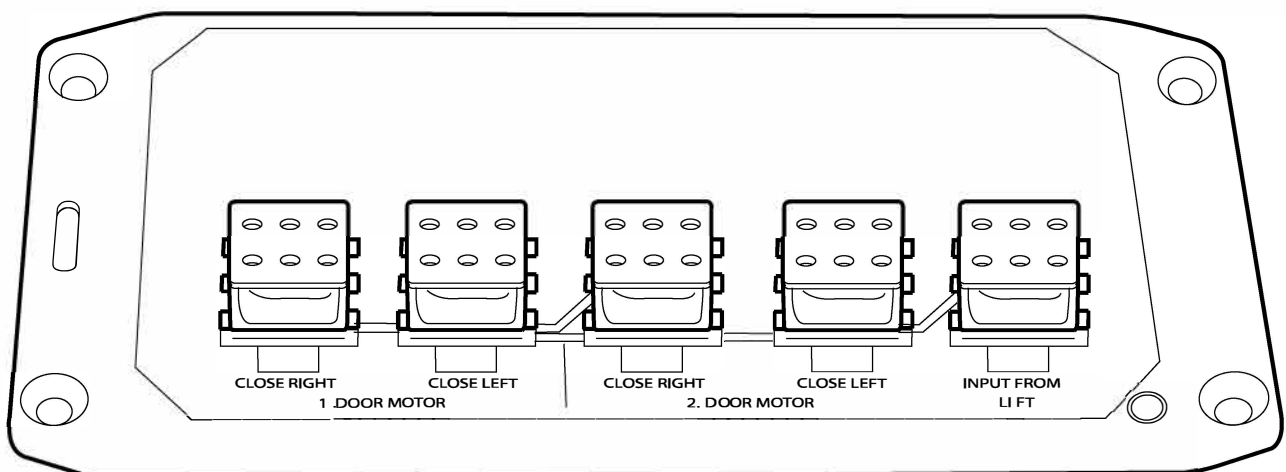
mobilityRDO™
REAR DOOR OPENER



Control box

INPUT FROM LIFT CONNECTOR:

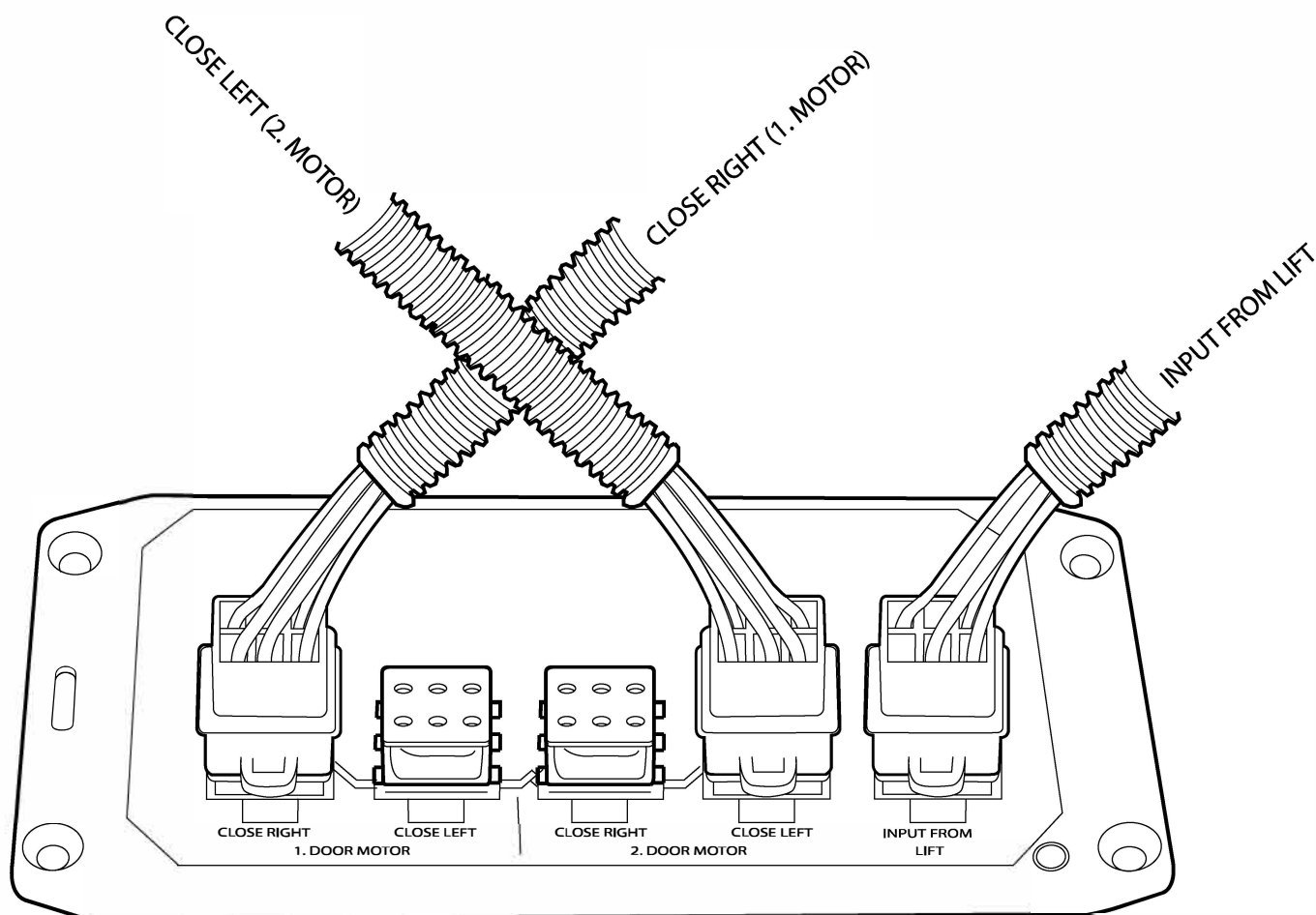
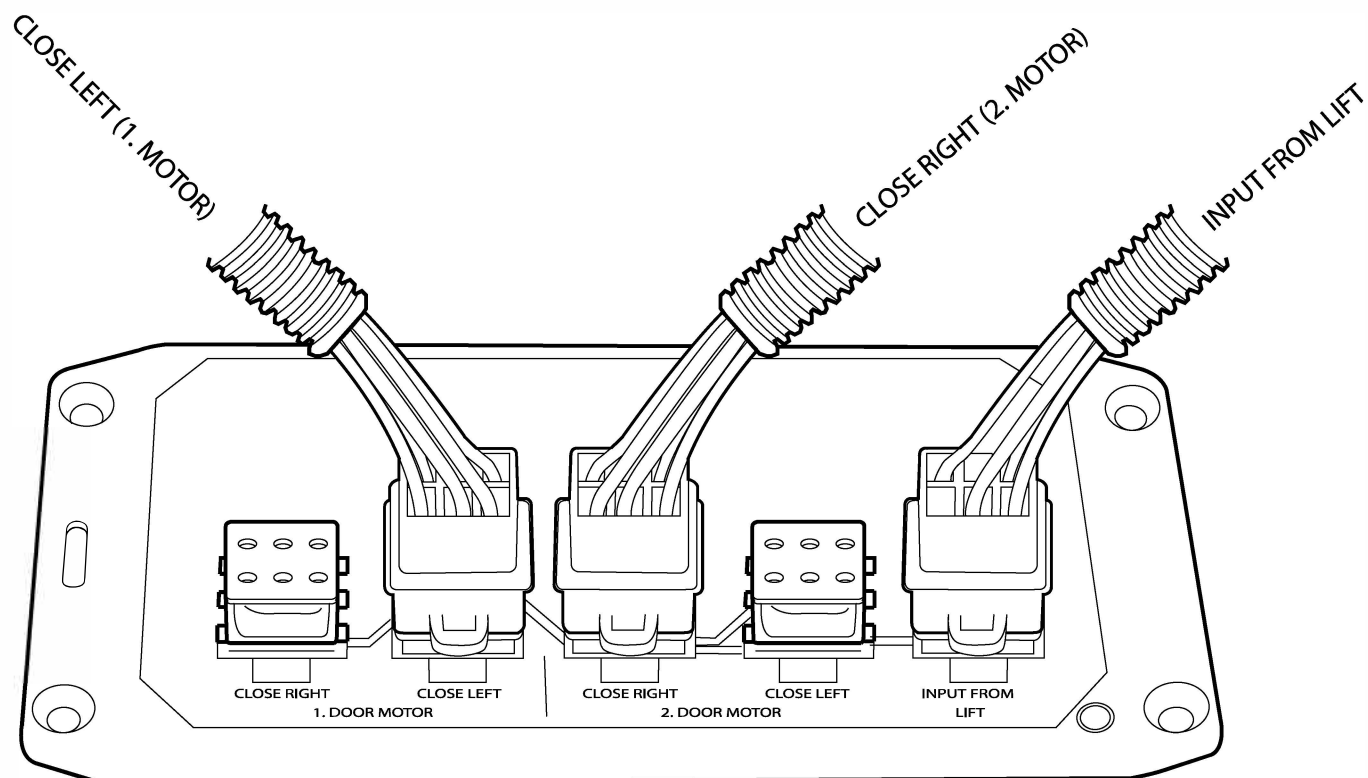
- Pin 1** - +12V Input for opening (green wire)
- Pin 2** - +12V Input for closing (yellow wire).
- Pin 3** - Ground Mass (black wire).
- Pin 4** - Ground output when door is fully opened.
- Pin 5** - +12 Volt.
- Pin 6** - +12 Volt output when door is fully opened.



Connection

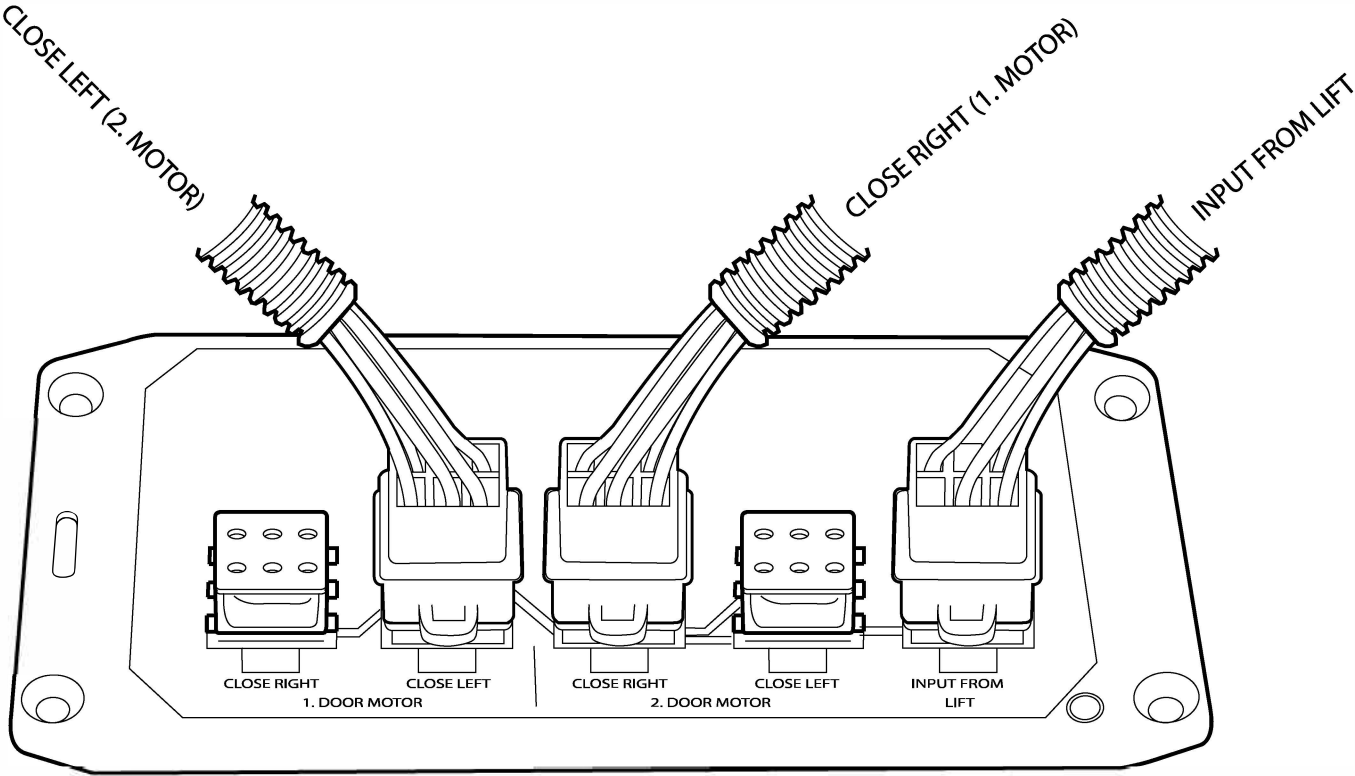
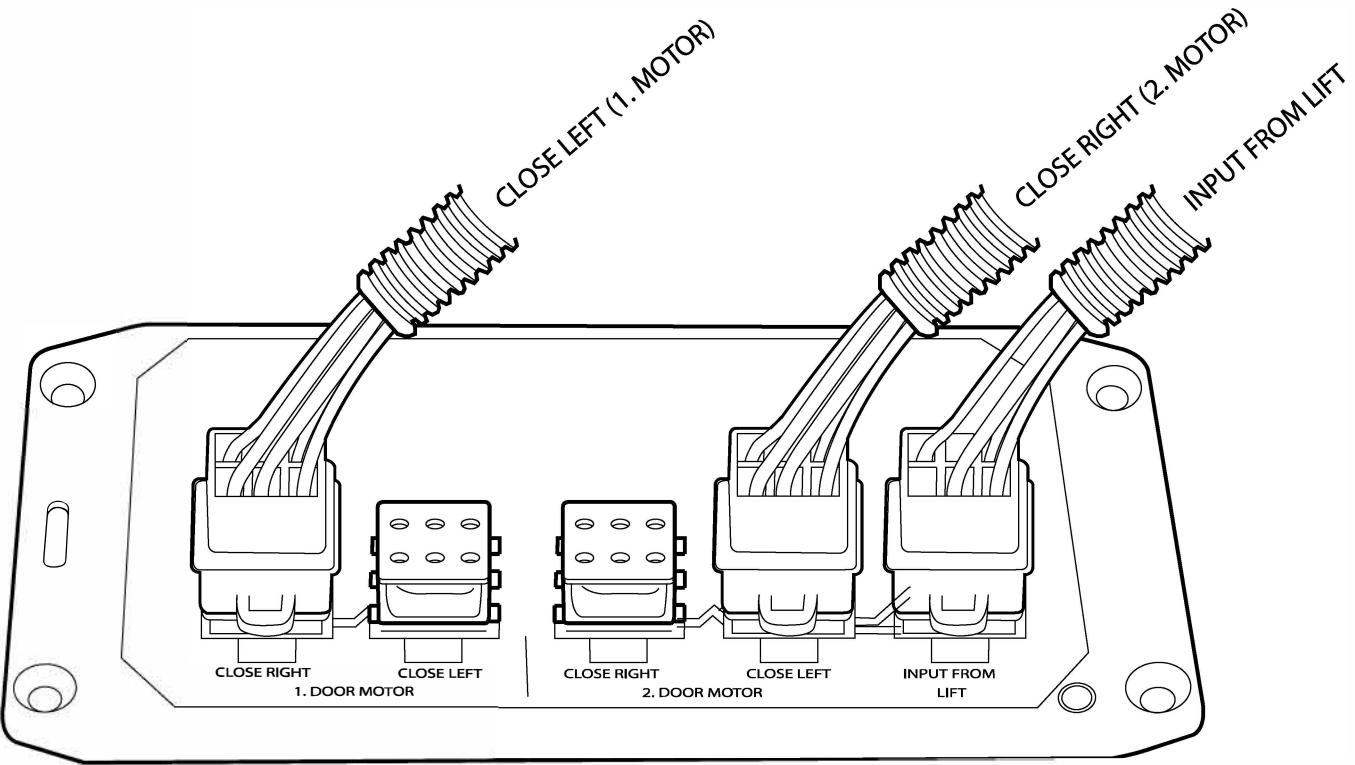
Vertical mounting

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REAR DOOR OPENER



Connection

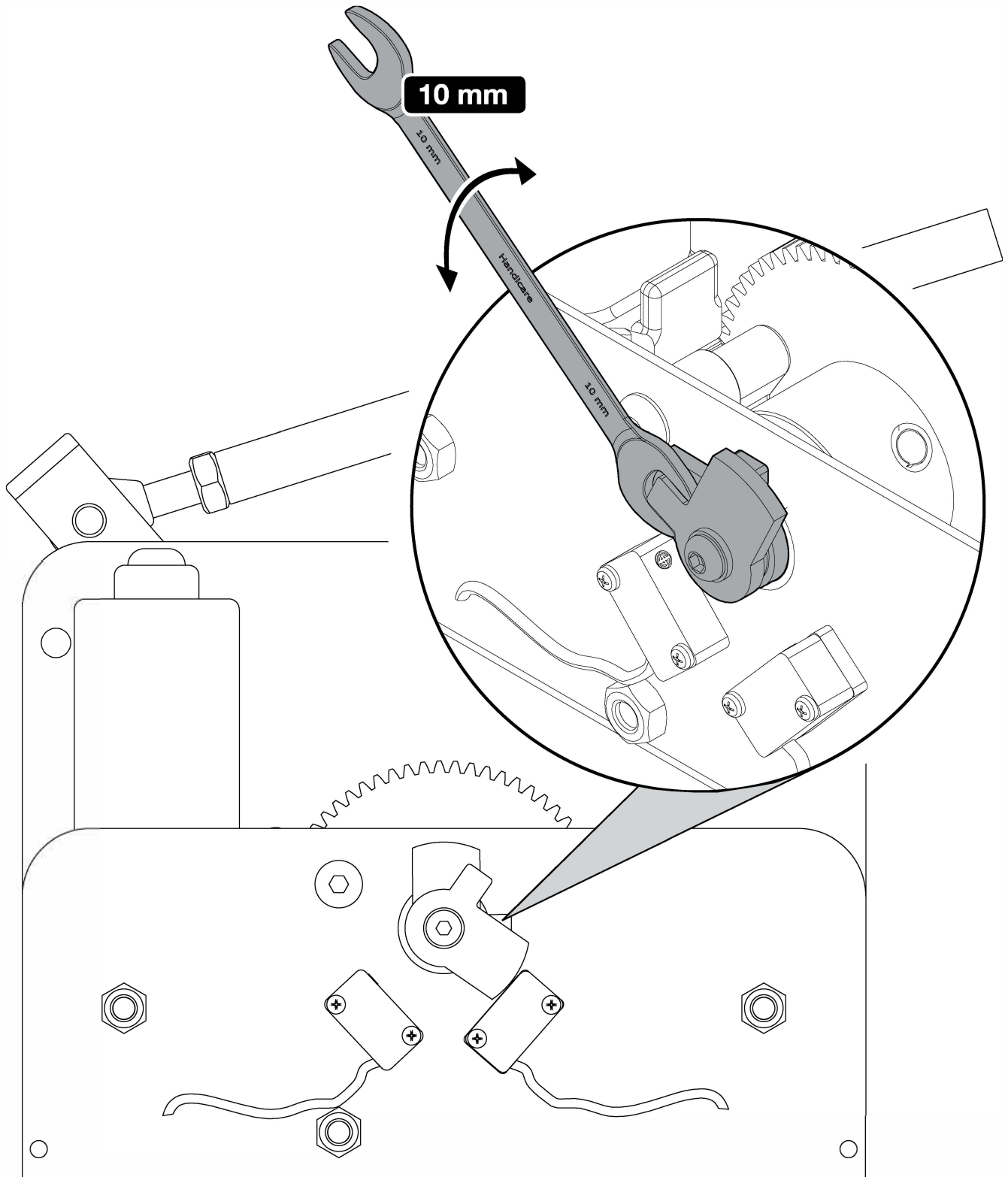
Horizontal mounting



Adjustment

The door openers opening and closing position can be timed by adjusting the triggers for the two sensors.

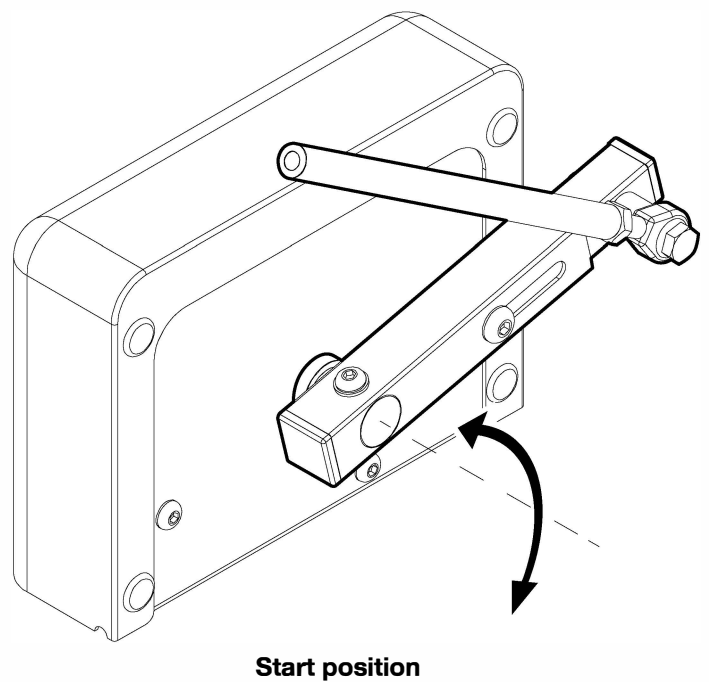
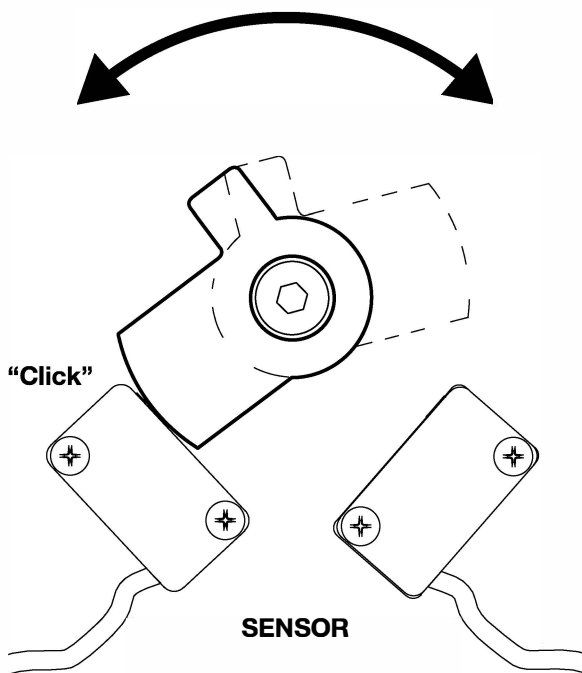
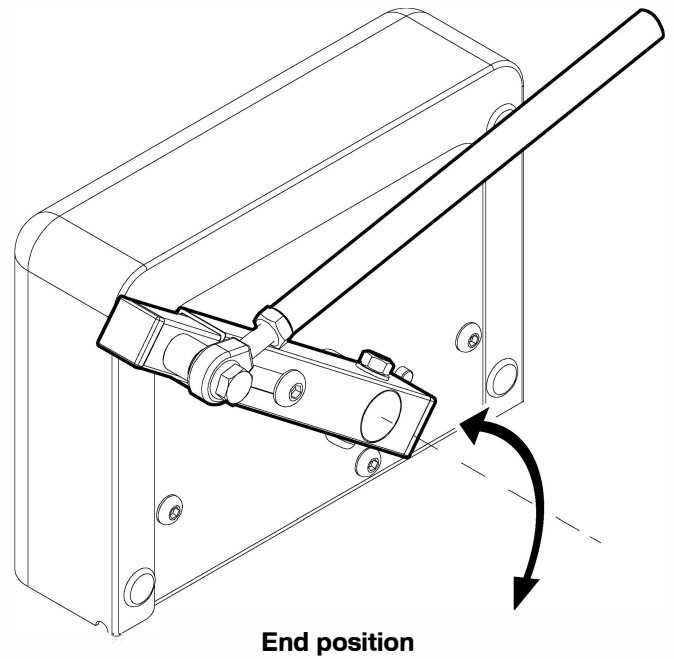
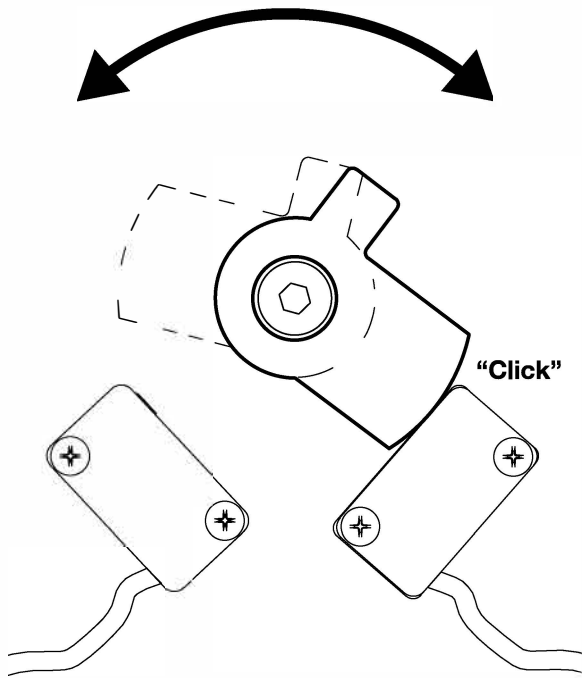
The position of the triggers are adjusted using a 10 mm wrench.



Adjustment

The triggers are connected to the arm shaft, rotating in sync. A sensor on both sides registers when the trigger blocks it, turning it off or on. The start and stop sequence is controlled by

The start/end position can then be easily adjusted.



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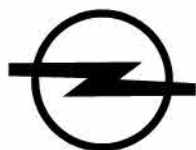
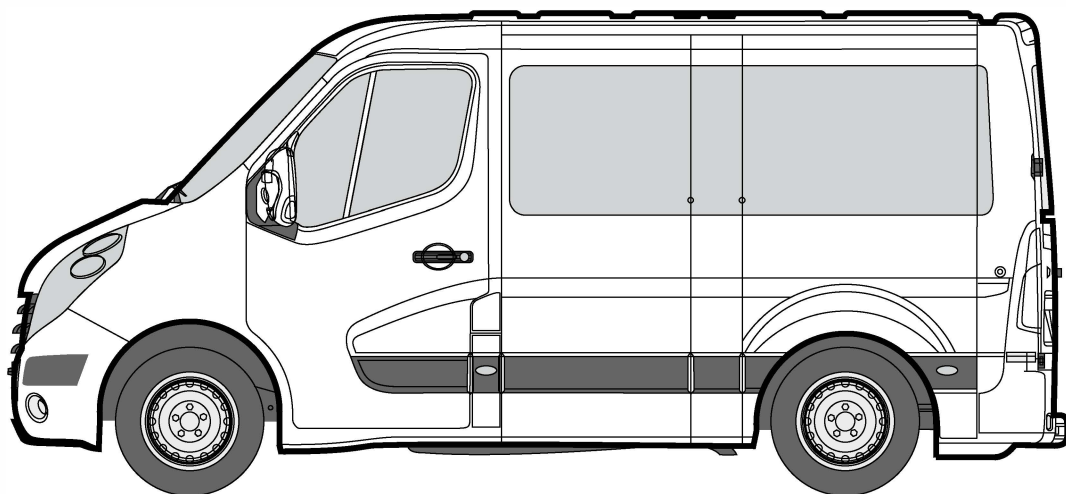
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mobilityRDO™
REAR DOOR OPENER

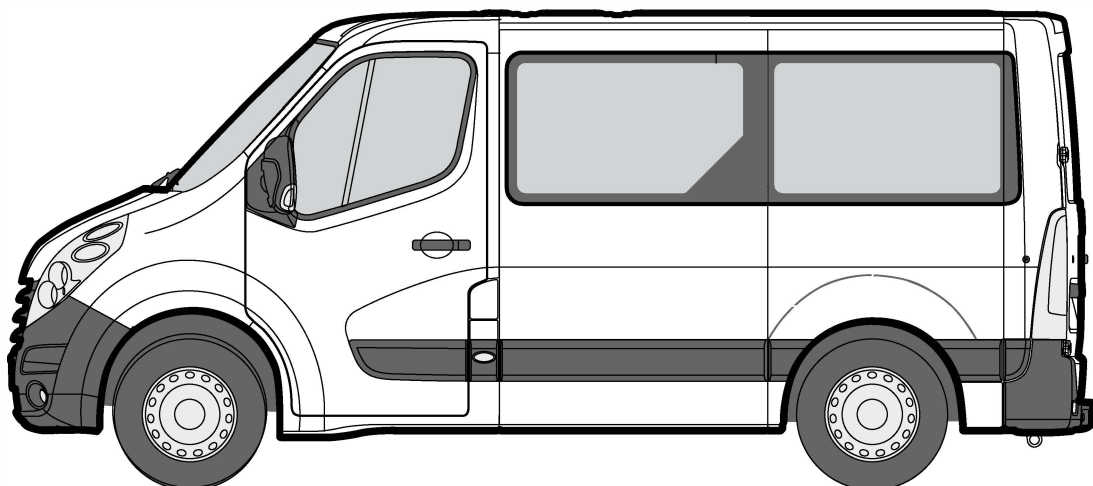
MMI



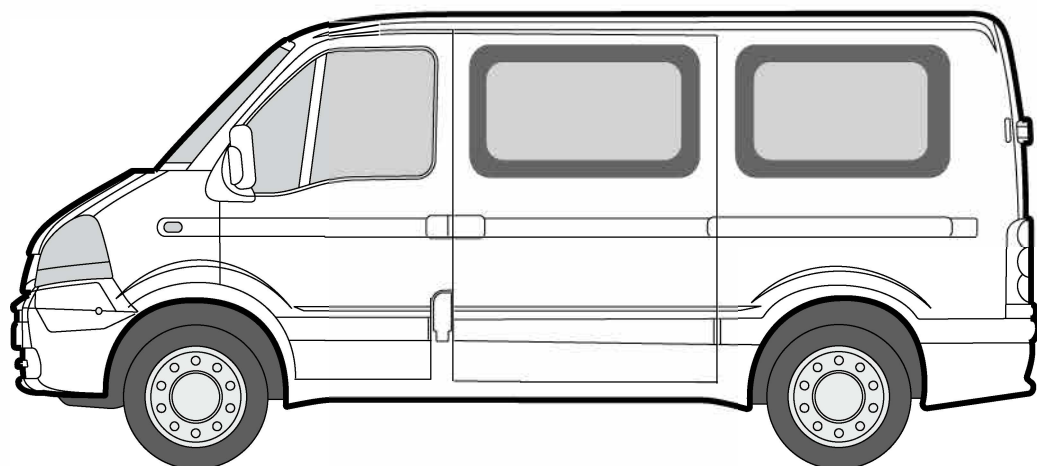
**RENAULT
MASTER**



**OPEL
MOVANO**



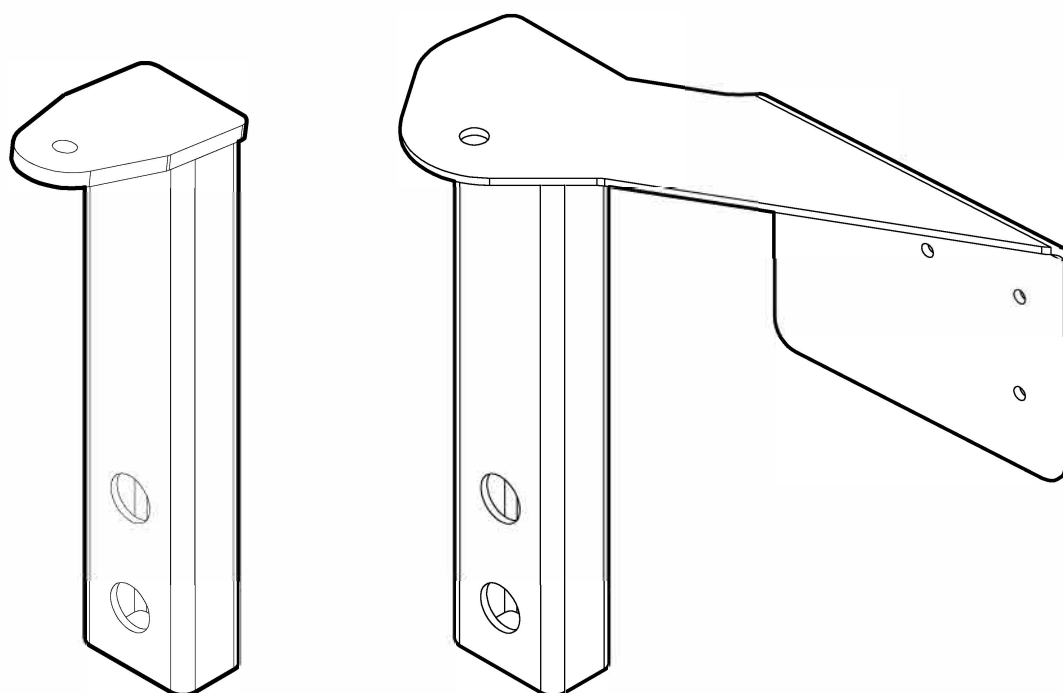
**NISSAN
INTERSTAR**



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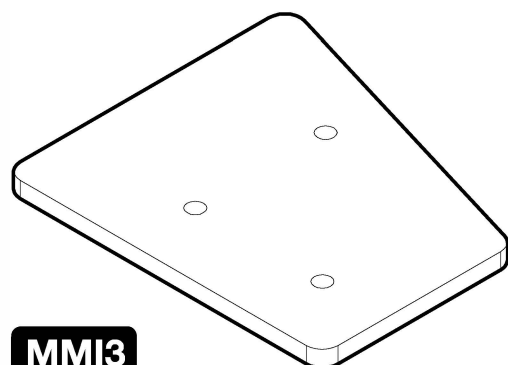
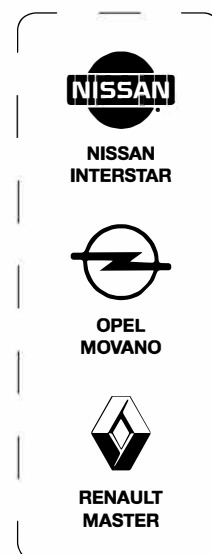
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mobilityRDO™
REAR DOOR OPENER

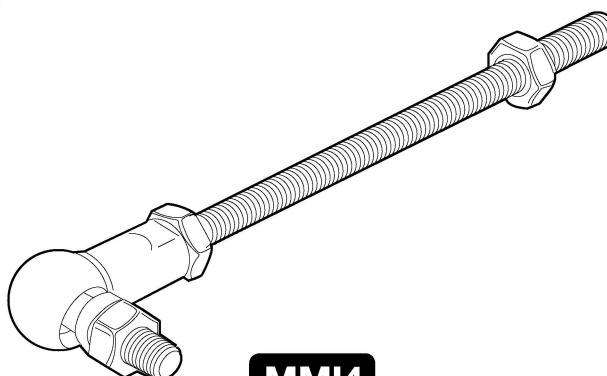


MMI1

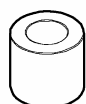
MMI2



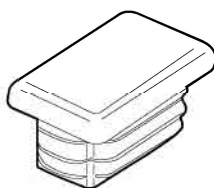
MMI3



MMI4



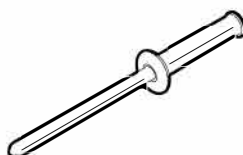
MMI5



MMI6



MMI7



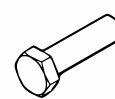
MMI8



MMI9



MMI10



MMI11

- | | | |
|---------------------------------------|----------------------------------|----------------------------|
| MMI1 1x Left door bracket | MMI6 2x Rectangular plug | MMI11 4x M8x30 Bolt |
| MMI2 1x Right door bracket | MMI7 4x Round plug | |
| MMI3 1x Right door bracket (2) | MMI8 4x Pop rivet | |
| MMI4 2x Ball joint | MMI9 4x M8 Washer | |
| MMI5 2x Spacer | MMI10 4x M8 Spring washer | |

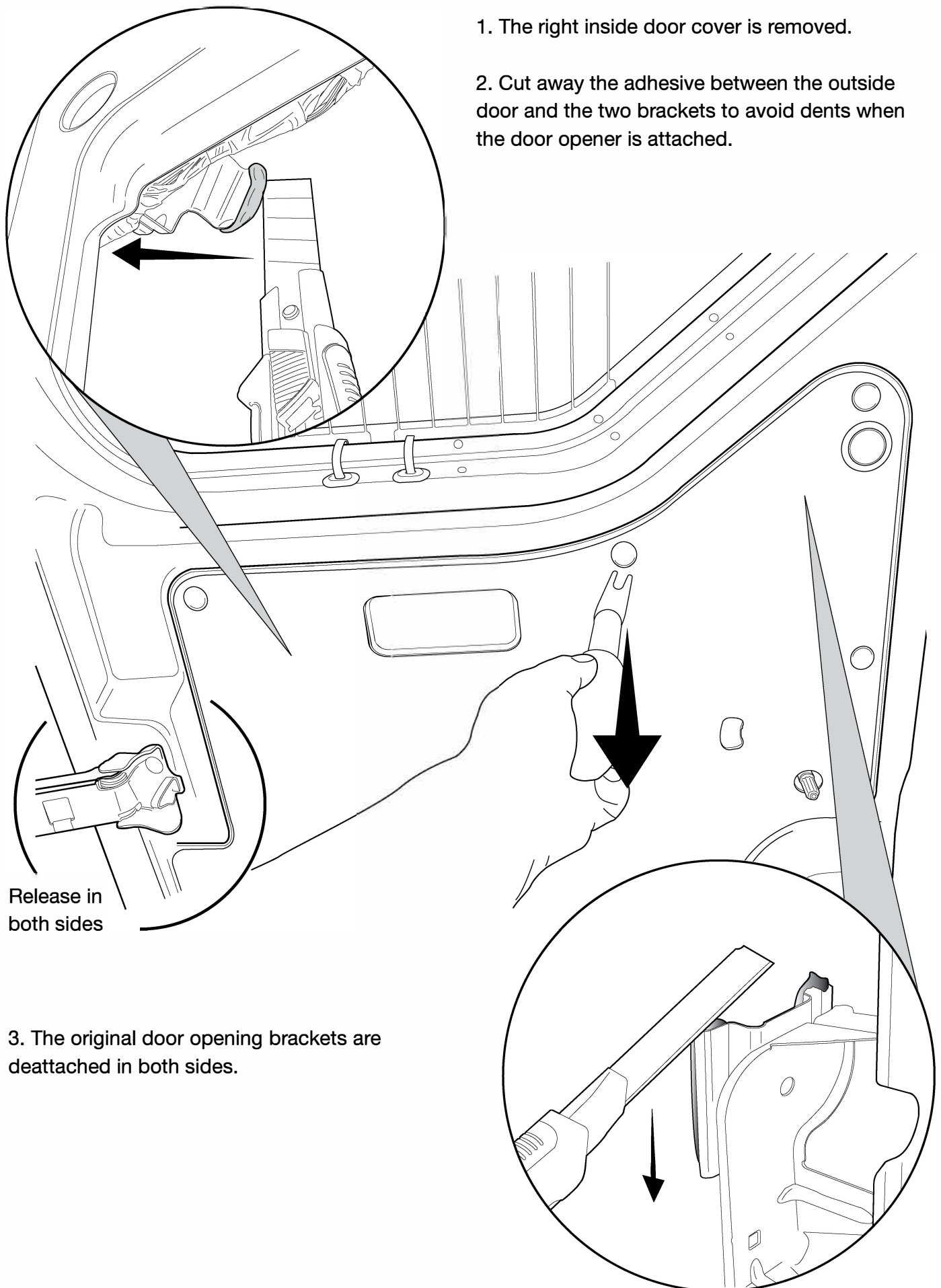
Mounting of door bracket

MMI - Right side

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REAR DOOR OPENER

1. The right inside door cover is removed.

2. Cut away the adhesive between the outside door and the two brackets to avoid dents when the door opener is attached.

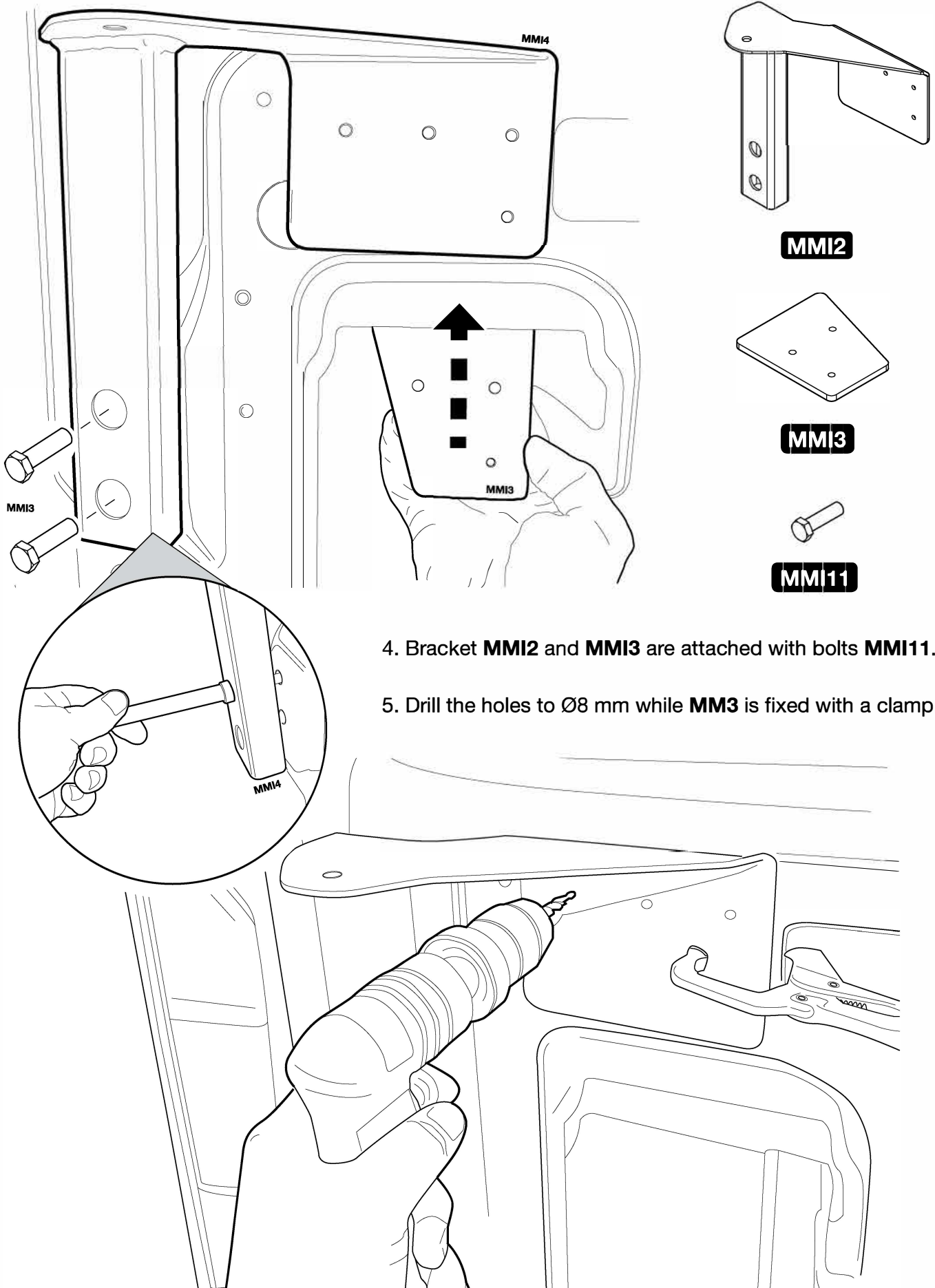


3. The original door opening brackets are deattached in both sides.

Mounting of door bracket

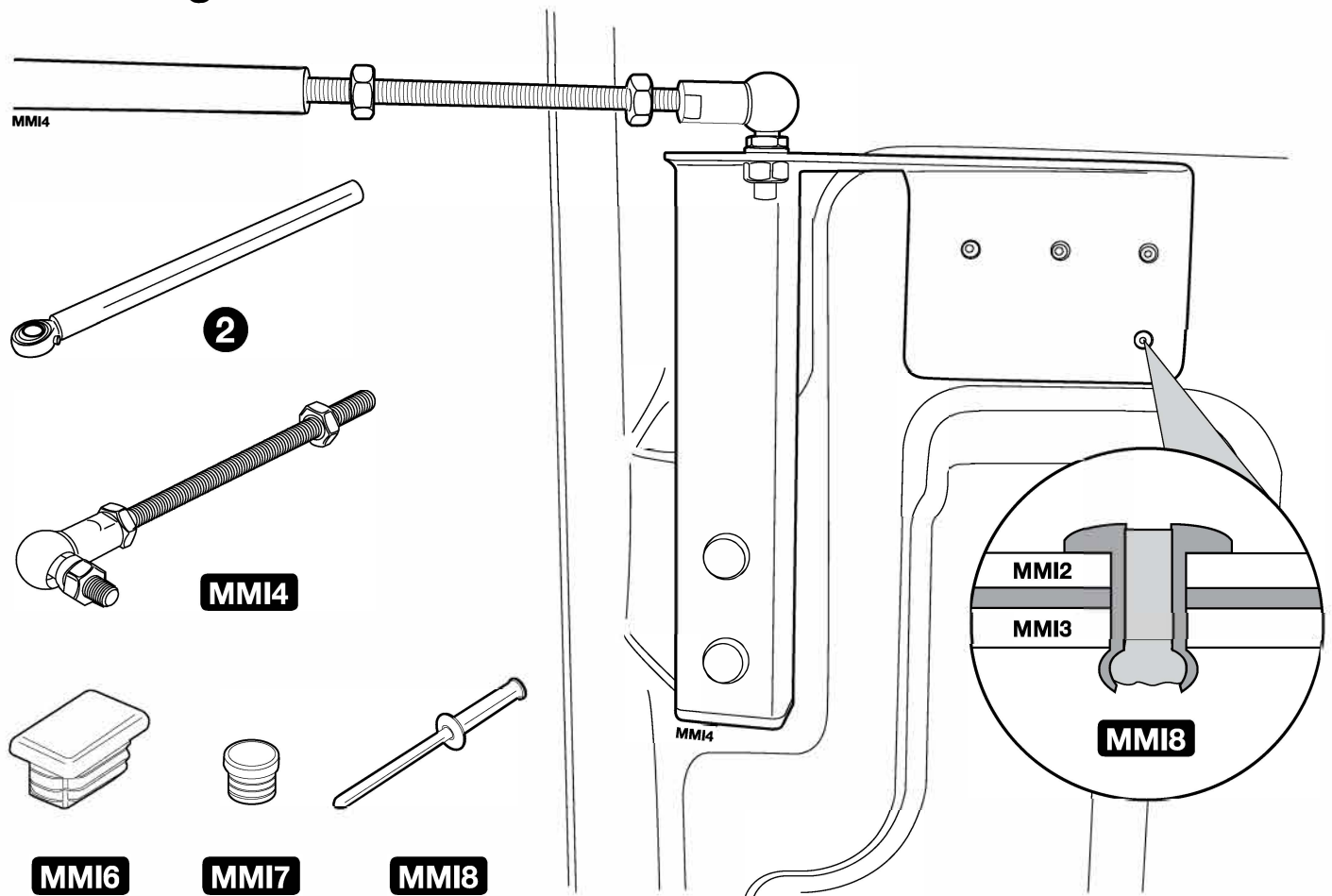
MMI - Right side

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Mounting of door bracket

MMI - Right side

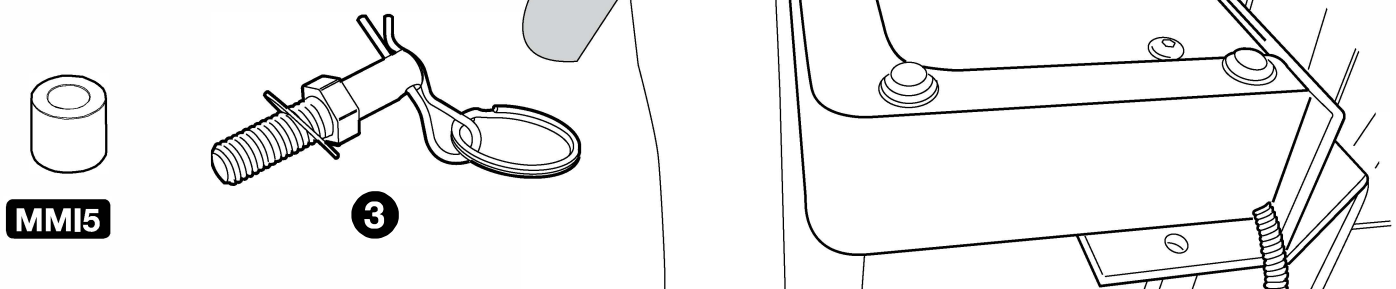


7. Bracket **MMI2** and **MMI3** are attached with pop rivets **MMI8**. Plug the openings with **MMI6** and **MMI7**.

Bottom plug, MM6, can be mounted before it is attached.

8. The door opener is connected to the bracket using the mounting rods **MMI2** and **MMI4**.

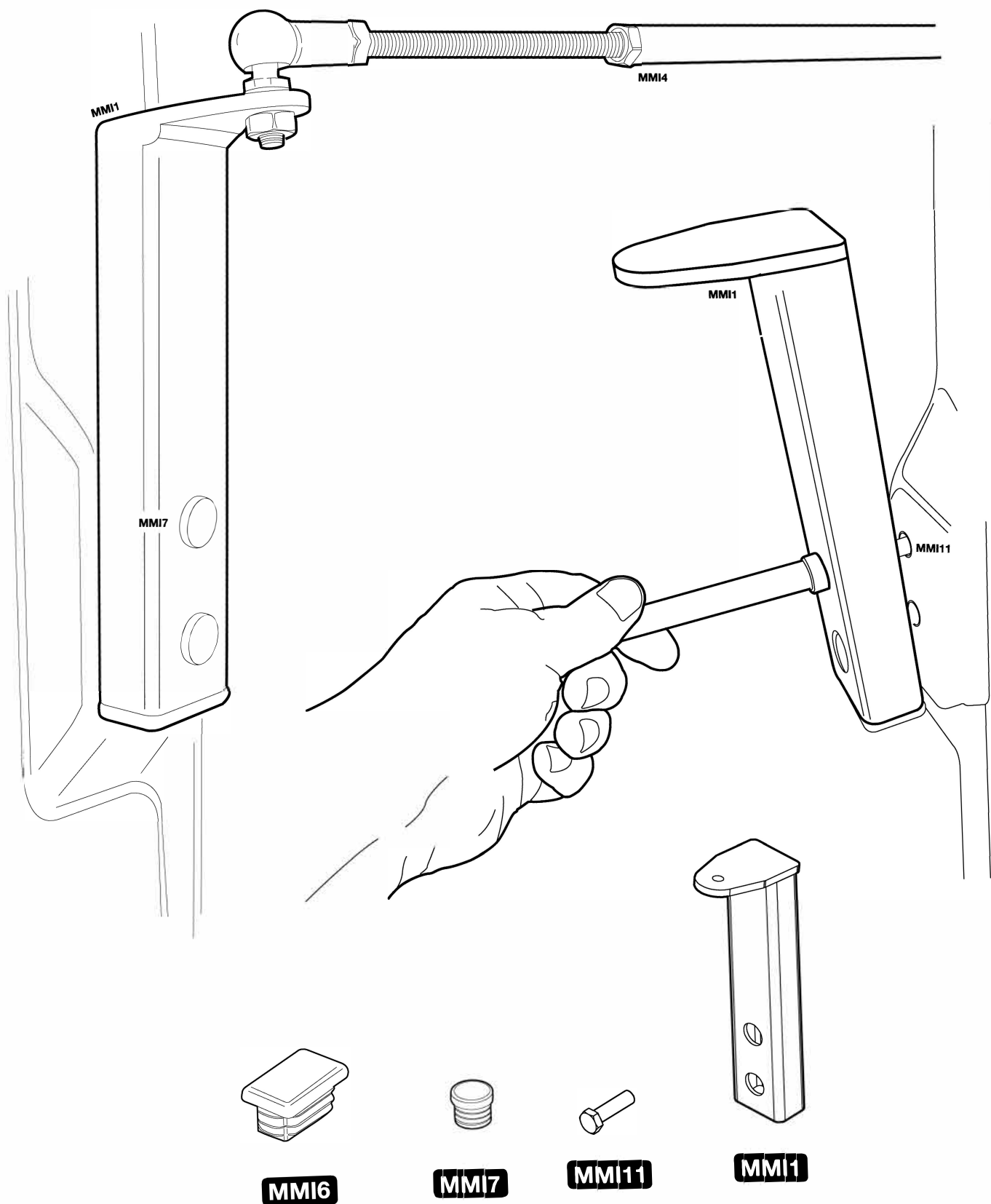
9. Spacer **MMI5** and release pin **3** is placed between mounting rod **2** and the door opener.



Mounting of door bracket

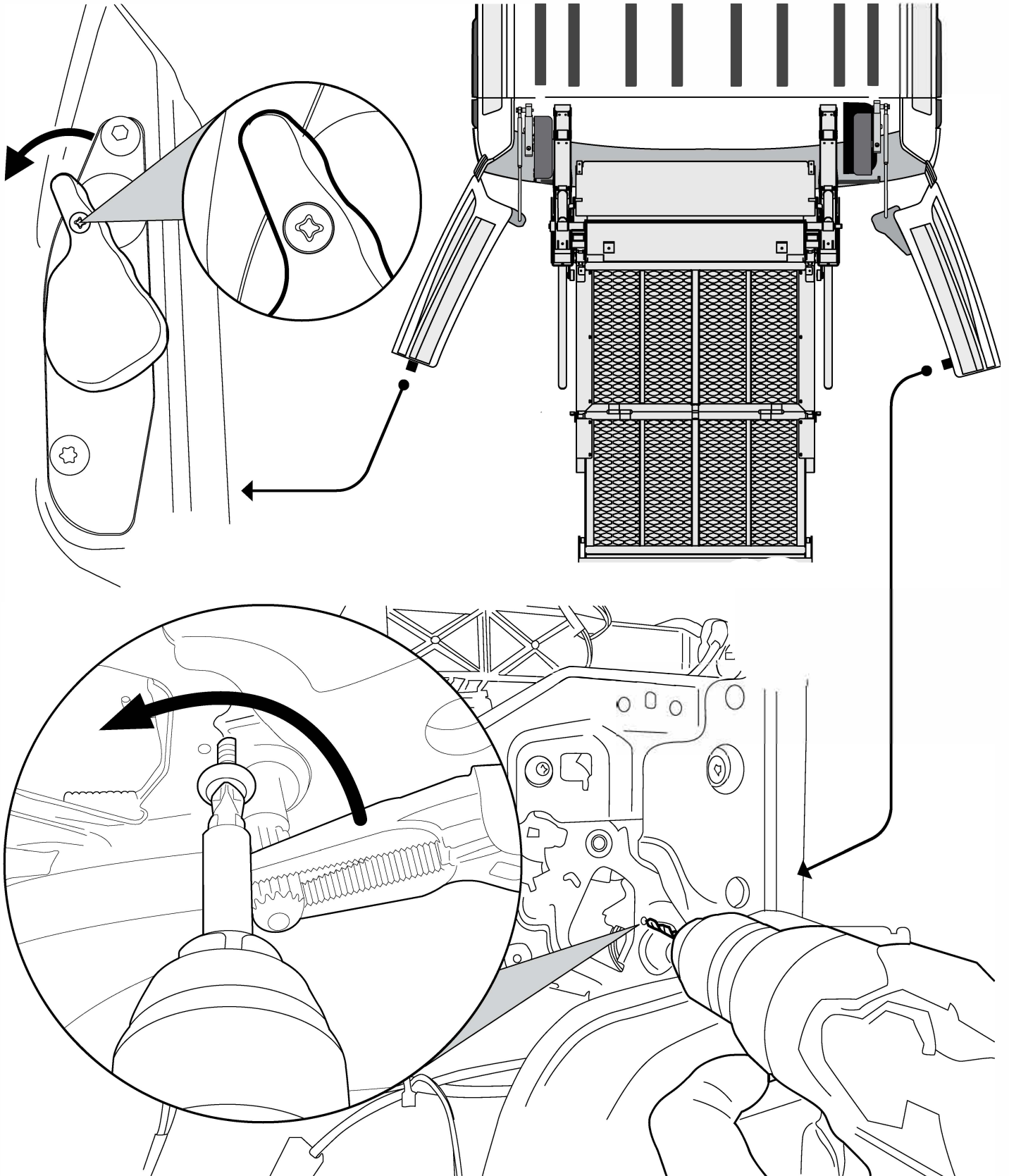
MMI -Left side

Bracket MMI1 is mounted with bolts MMI11. Plug the openings with MMI6 and MMI7. 10. 11 . The door opener is connected to the bracket using the mounting rods 2 and MMI4.



Adjustment of door opening handles

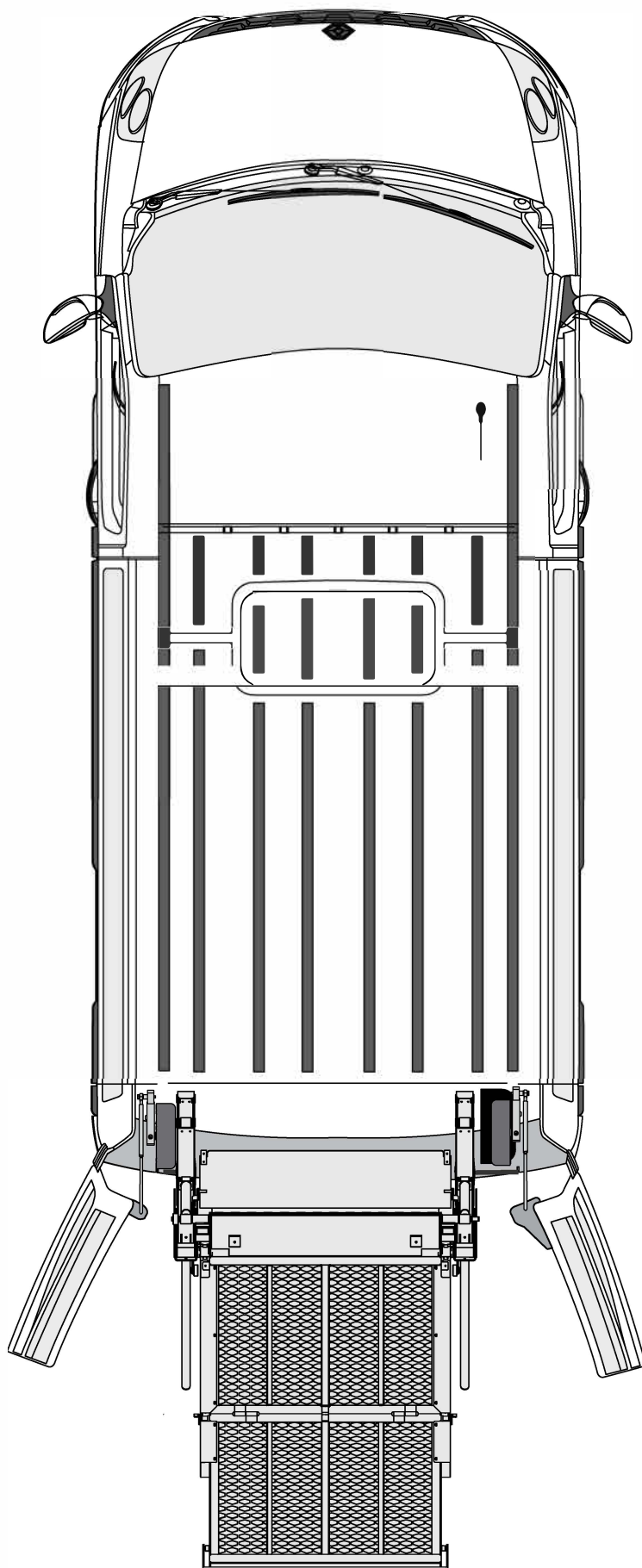
12. The original door opening handles on both sides are blocked with a screw to keep them permanently “open”. Turn the handles to “open”, and then permanently fix the position with a screw.



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NISSAN
INTERSTAR



OPEL
MOVANO



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MASTER

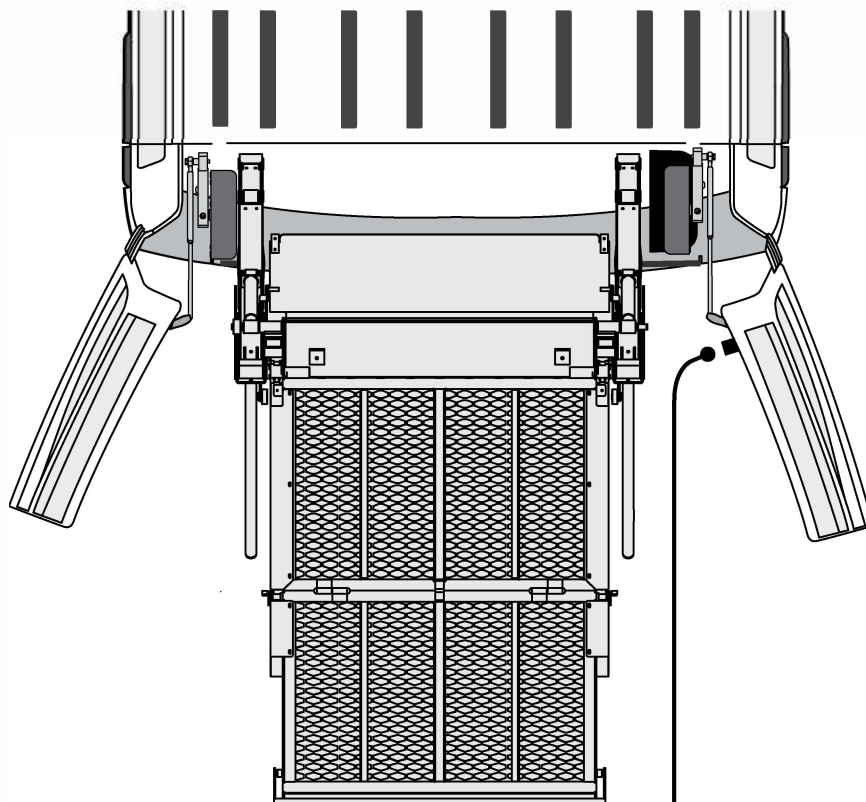
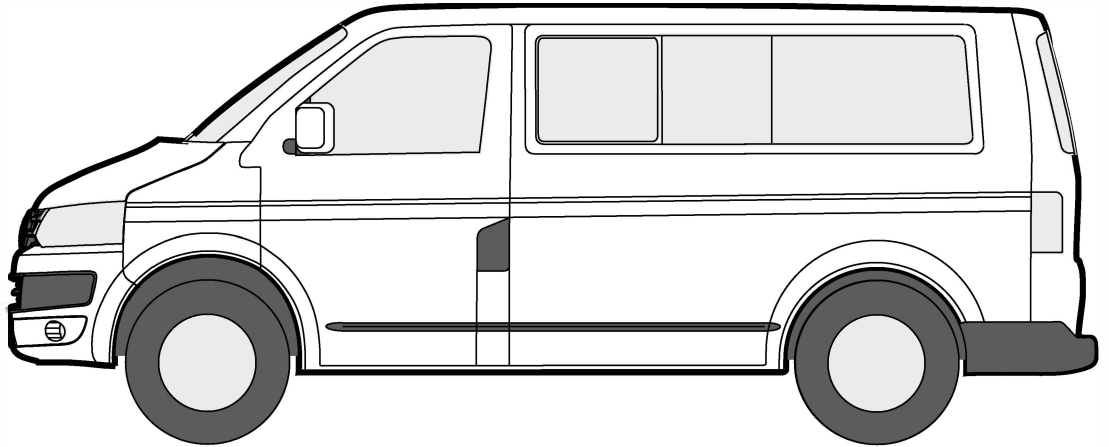
BRACKET KIT 61594

VW T5

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REAR DOOR OPENER



VW
T5



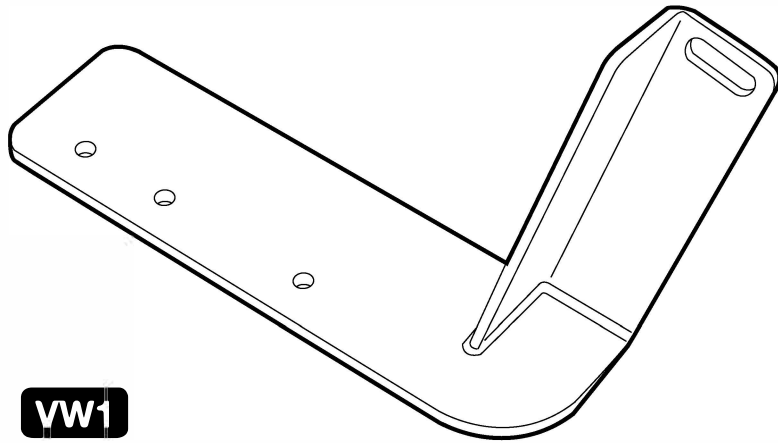
1, Page 39

Installation example is shown for the right door only. The procedure for the left door is identical.

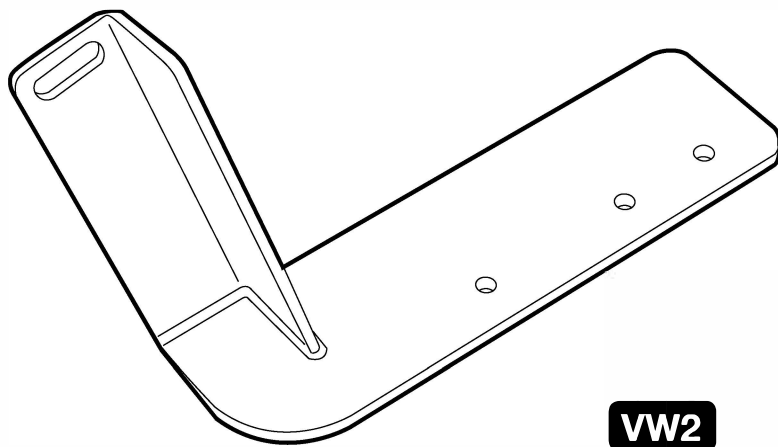
BRACKET KIT 61594

VW T5

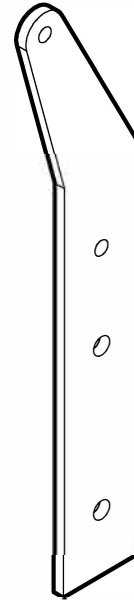
mobilityRDO™
REAR DOOR OPENER



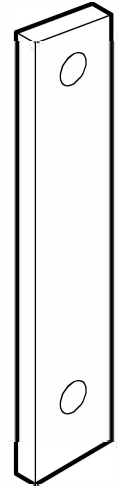
VW1



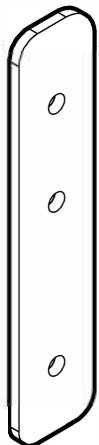
VW2



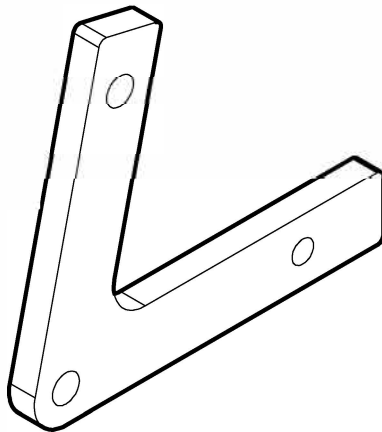
VW3



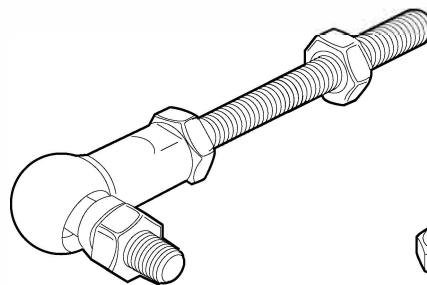
VW4



VW5



VW6



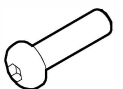
VW7



VW9



VW8



VW10

VW1 1x Left door bracket

VW2 1x Right door bracket

VW3 1x Right door bracket (2)

VW4 2x Bracket

VW5 2x Bracket

VW6 2x Bracket

VW7 2x Ball joints

VW8 4x M8 Nut

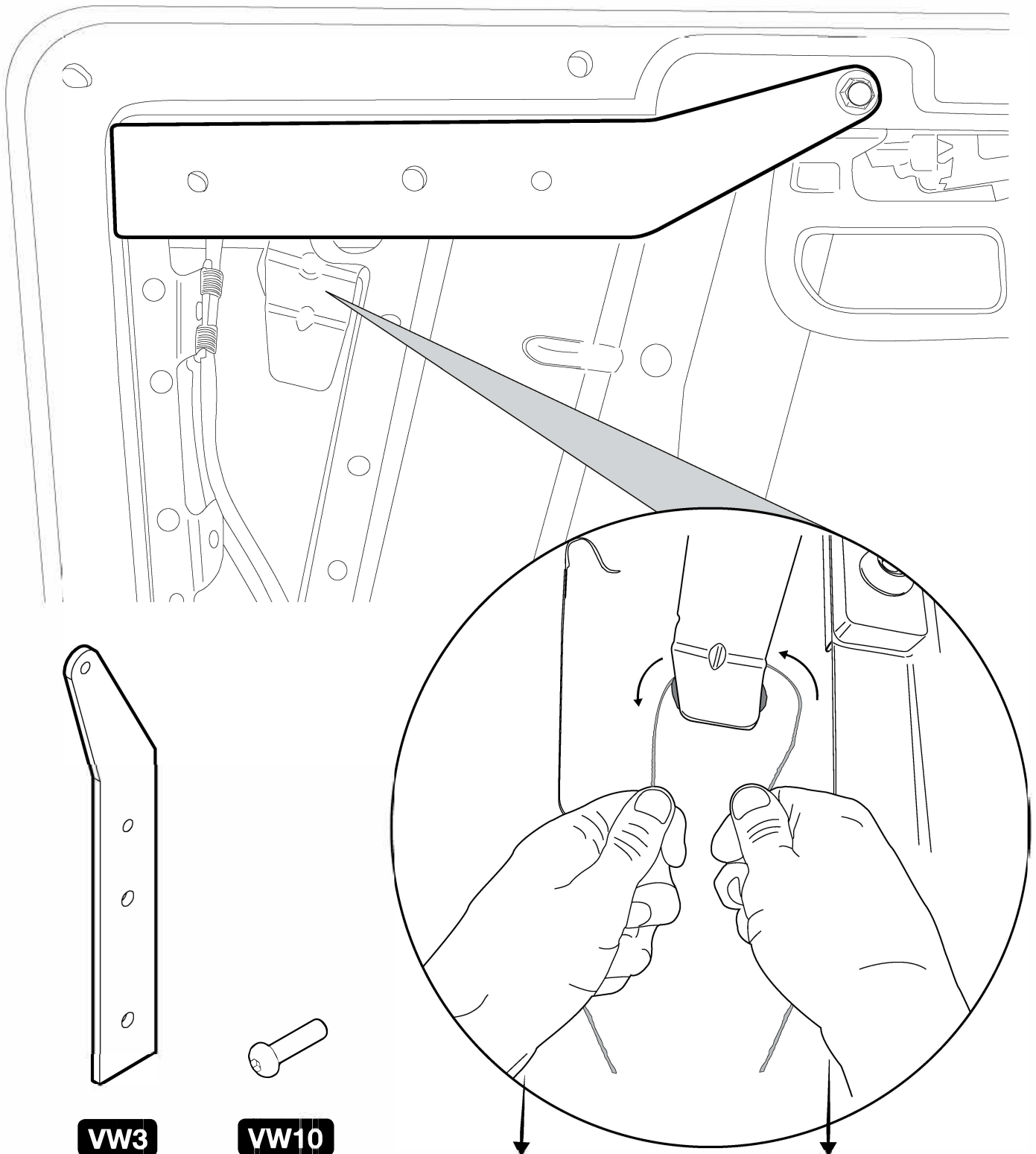
VW9 2x Spacer

VW10 6x M8x30

Mounting of door bracket

VW T5 - Right door

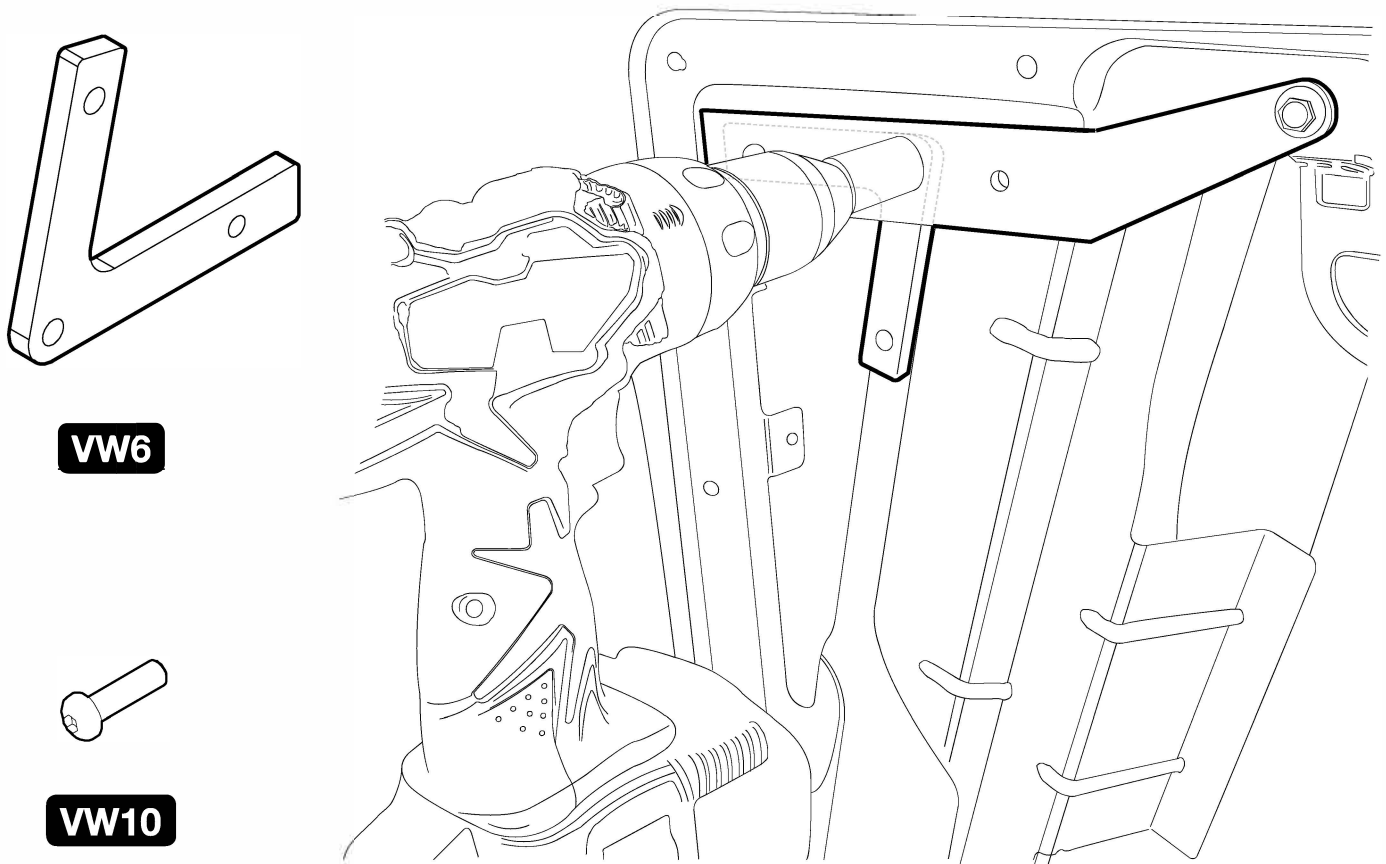
1. The right inside door cover is removed.
2. Strip away the adhesive between the outside door and the small bracket with a wire to avoid dents when the door opener is operating.
3. Attach bracket **VW3** with bolts **VW10**.



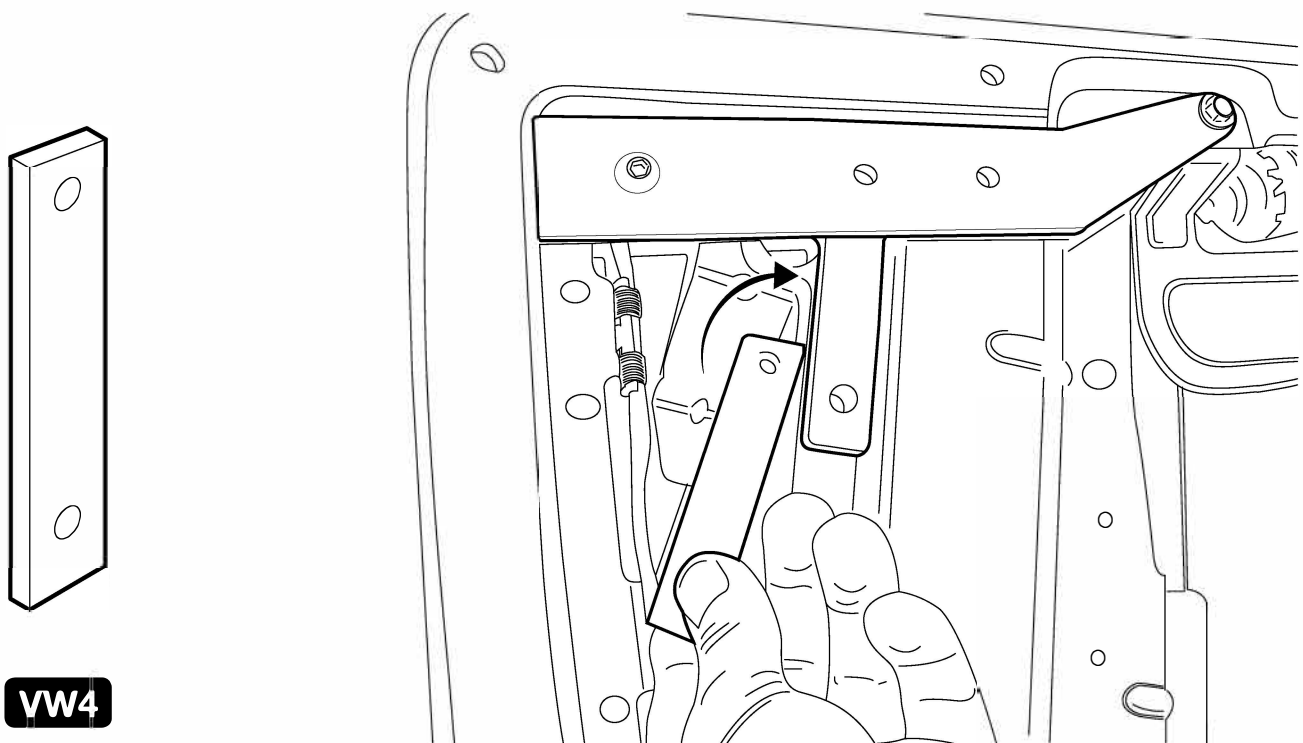
Mounting of door bracket

VW T5 - Right door

4. Drill the holes to Ø8 mm and attach bracket **VW6** behind bracket **VW3** with bolts **VW10**.



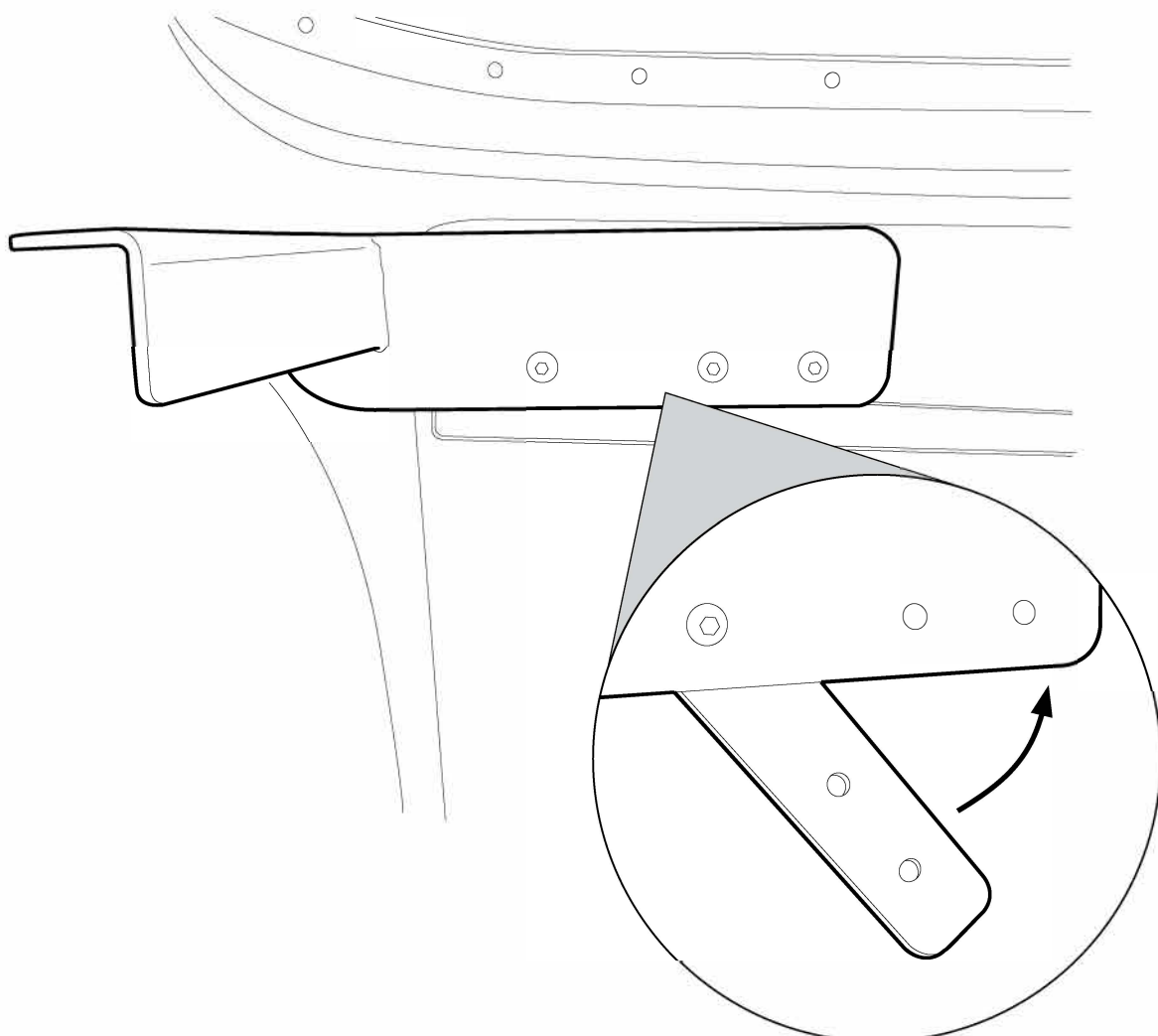
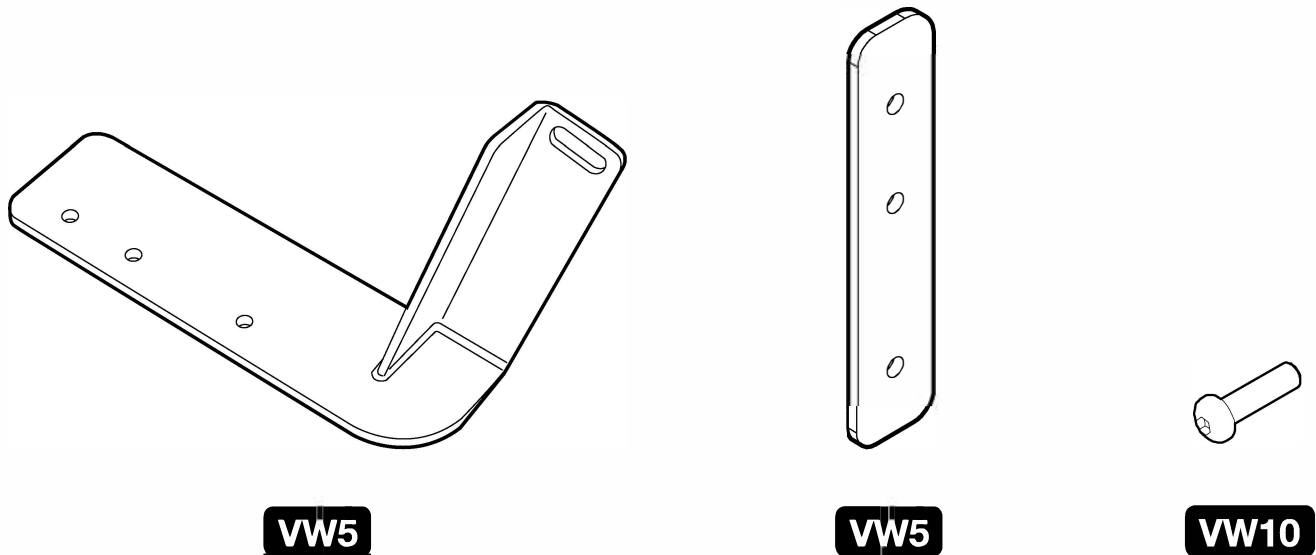
5. Drill the holes to Ø8 mm and attach bracket **VW6** behind bracket **VW3** with bolts **VW10**.



Mounting of door bracket

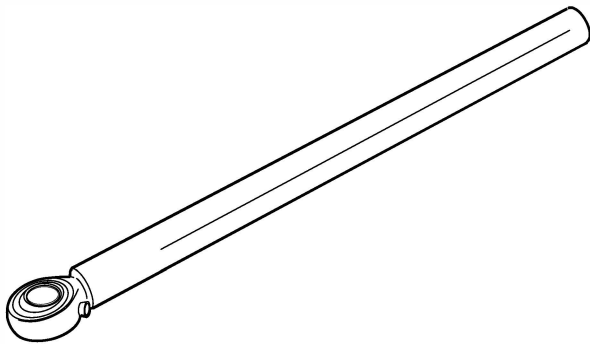
VW T5 - Right door

6. Reattach the door cover and attach bracket **VW1** with just one bolt **VW10**, and slide it up behind so it is between the bracket and the door.

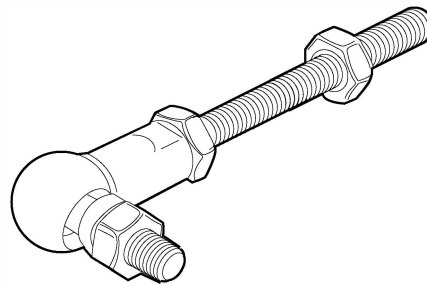


Mounting of door bracket

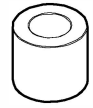
VW T5 - Right door



2



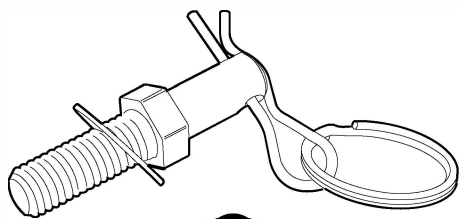
VW7



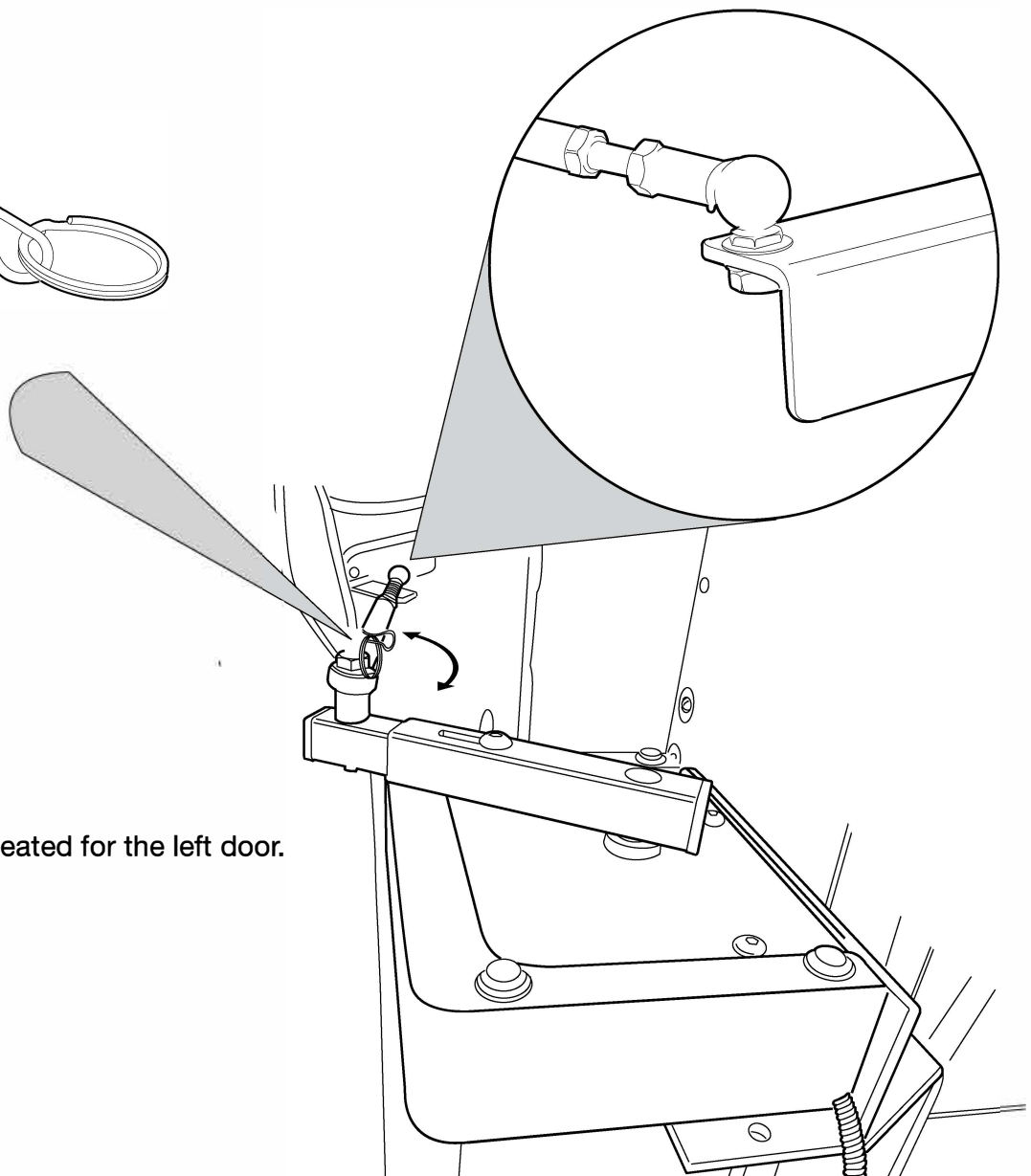
VW9

7. The door opener is connected to the bracket using the mounting rods **2** and **VW7**.

8. Spacer **VW9** and release pin **3** is placed between mounting rod **2** and the door opener.



3



The procedure is repeated for the left door.

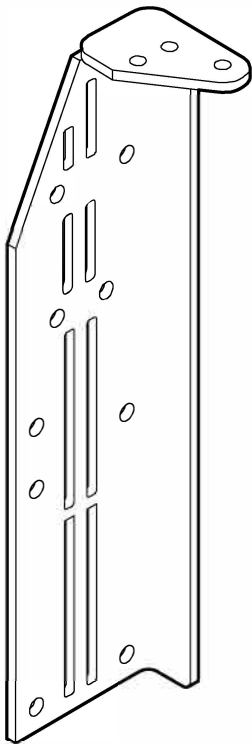
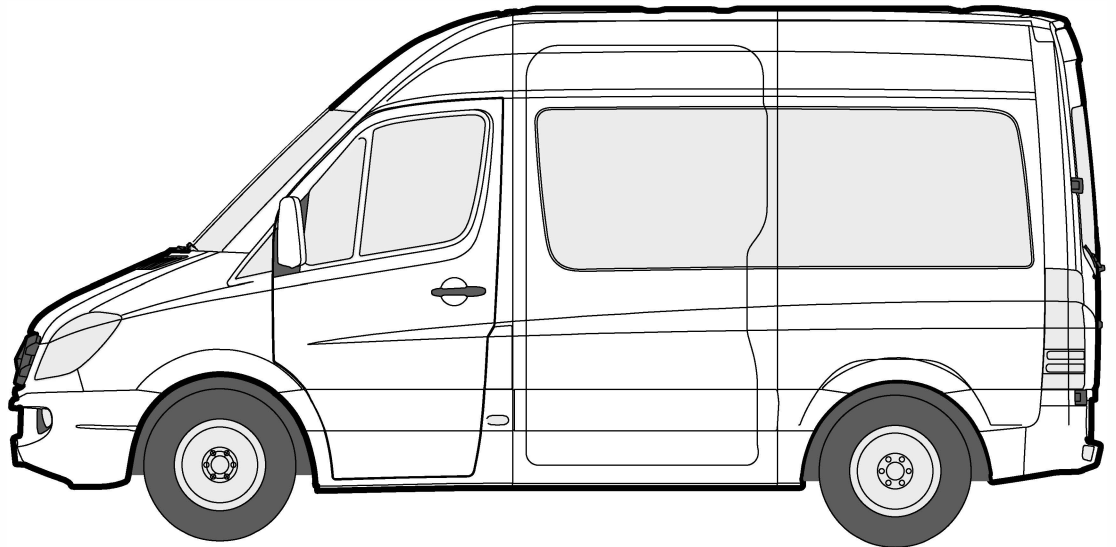
BRACKET KIT 61561

MERCEDES SPRINTER

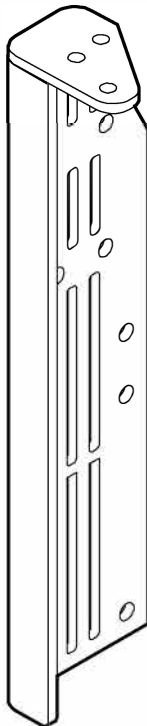
mobilityRDO™
REAR DOOR OPENER



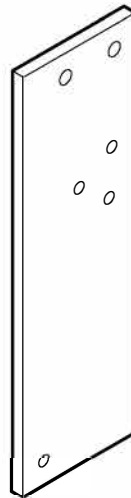
MERCEDES
SPRINTER



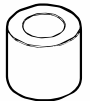
ME1



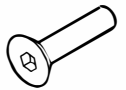
ME2



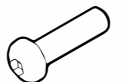
ME3



ME4



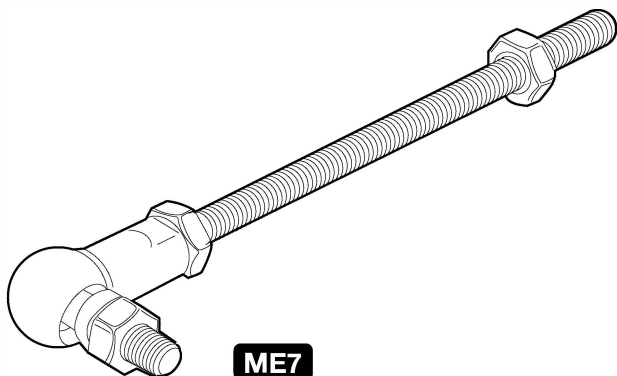
ME5



ME6



ME7



ME7

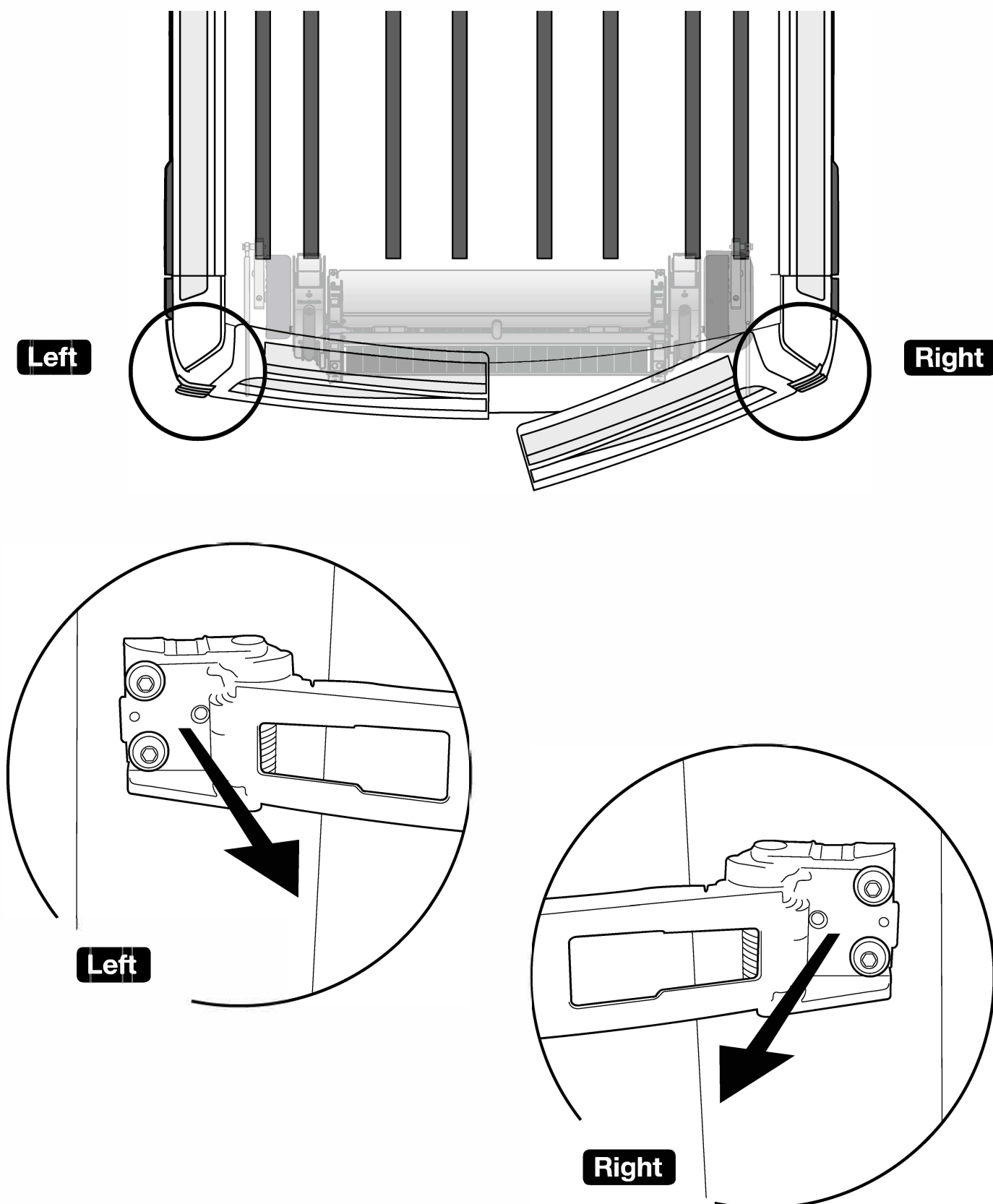
- | | |
|----------------------------------|---------------------------|
| ME1 1x Right door bracket | ME8 2x Ball joints |
| ME2 1x Left door bracket | ME9 2x Ball joints |
| ME3 2x Mounting plates | |
| ME4 2x Spacer | |
| ME5 6x M8x30 mm | |
| ME6 4x M8x30 mm | |
| ME7 2x M8 Nut | |

BRACKET KIT 61561

MERCEDES SPRINTER

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REAR DOOR OPENER

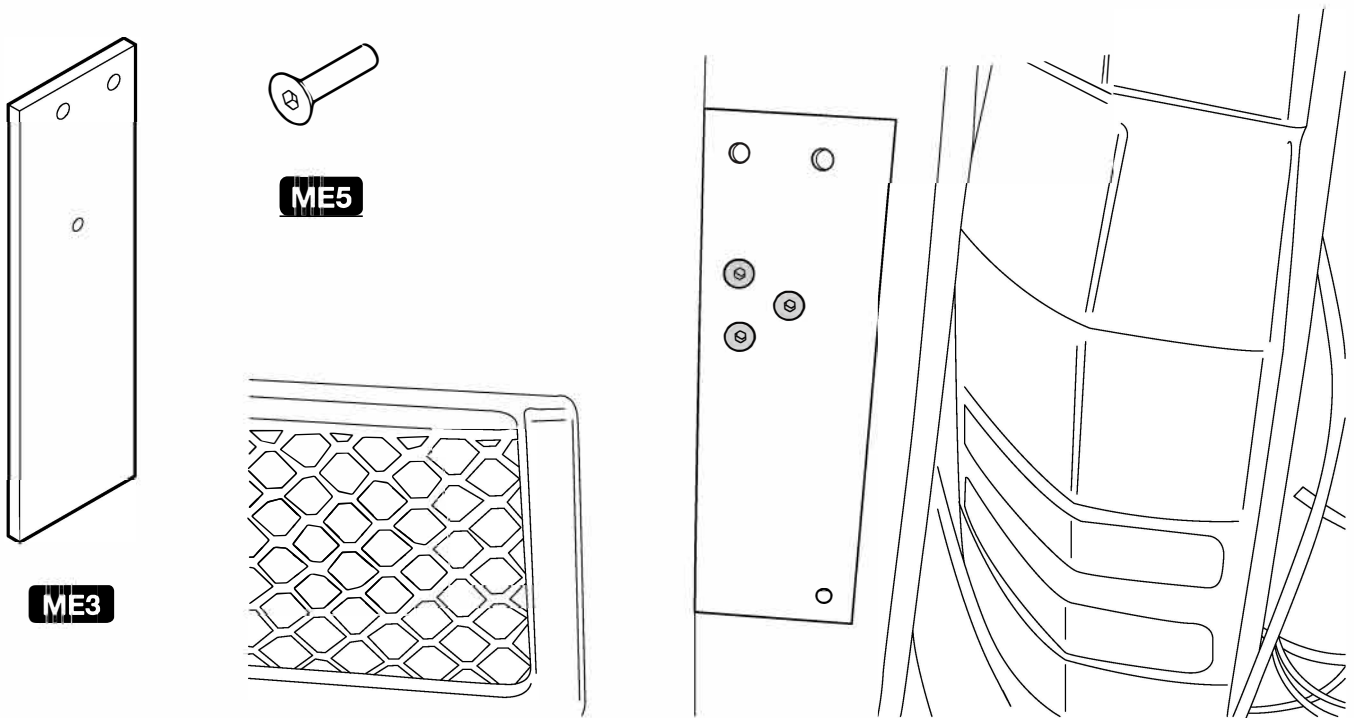
1. The original door opening brackets are released in both sides. They will be reattached later.



Mounting of door bracket

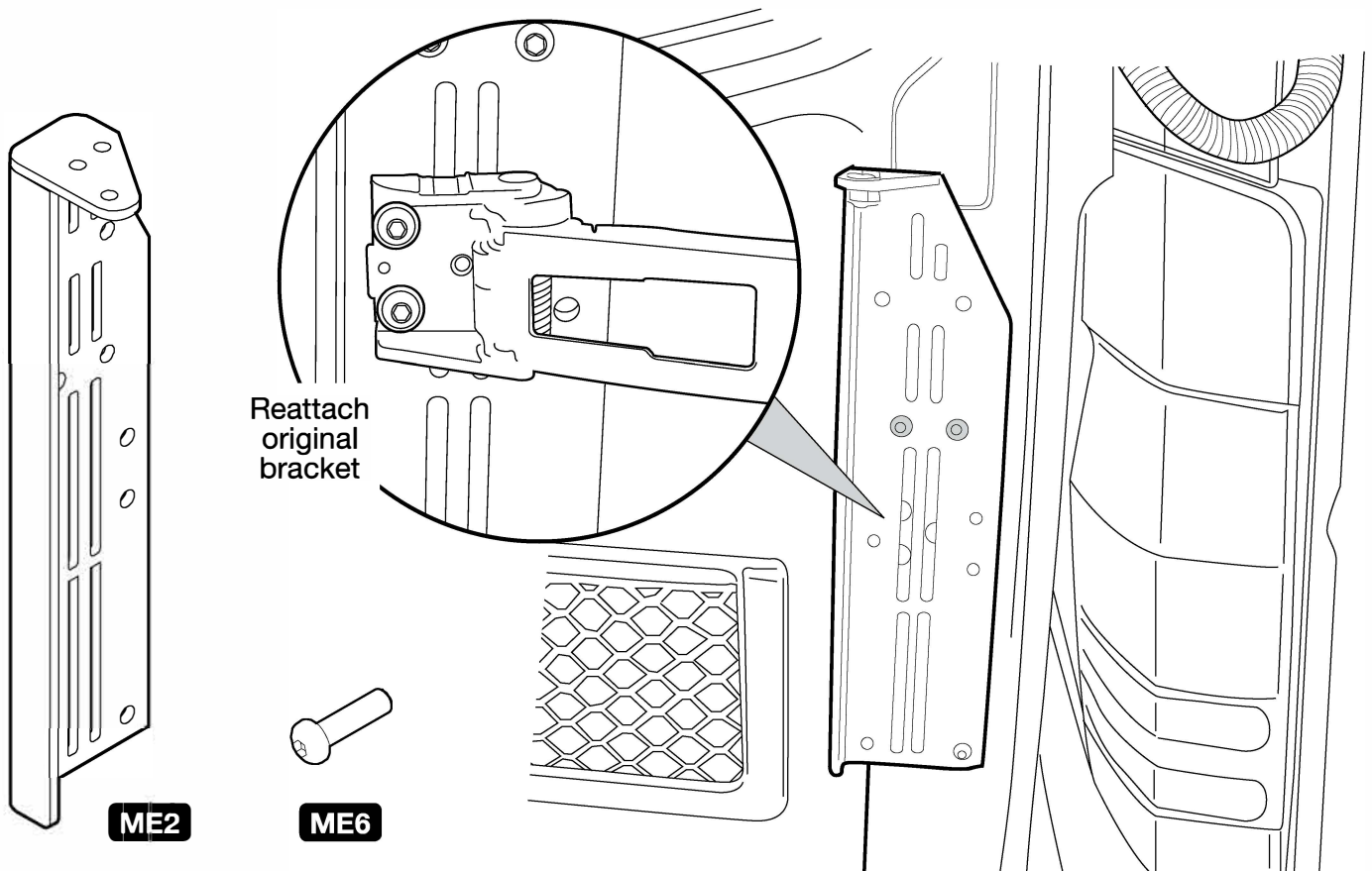
Mercedes Sprinter - Left door

2. Attach bracket **ME3** with **ME5** (Left door shown, same procedure for the right door).



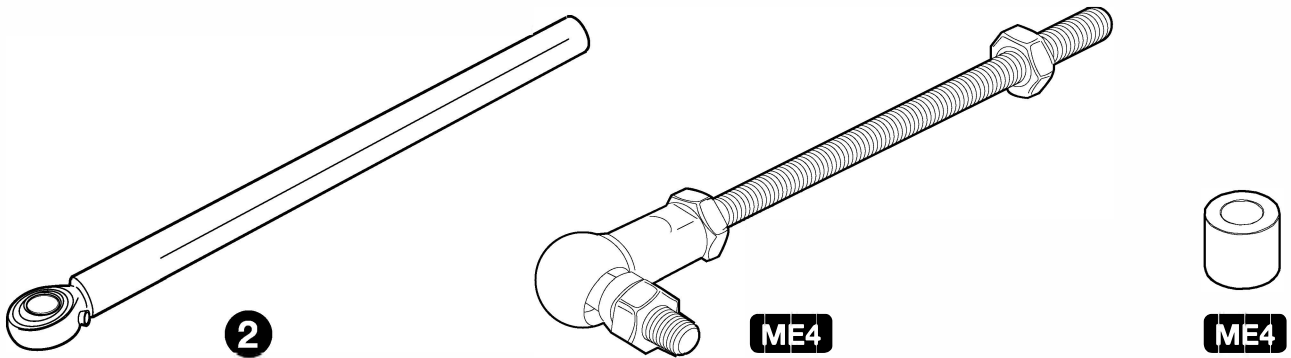
3. Attach bracket **ME2** with **ME6**. Attach **ME6**. Attach **ME9** on top of bracket **ME2** with **ME7**.

4. Reattach the original door bracket.



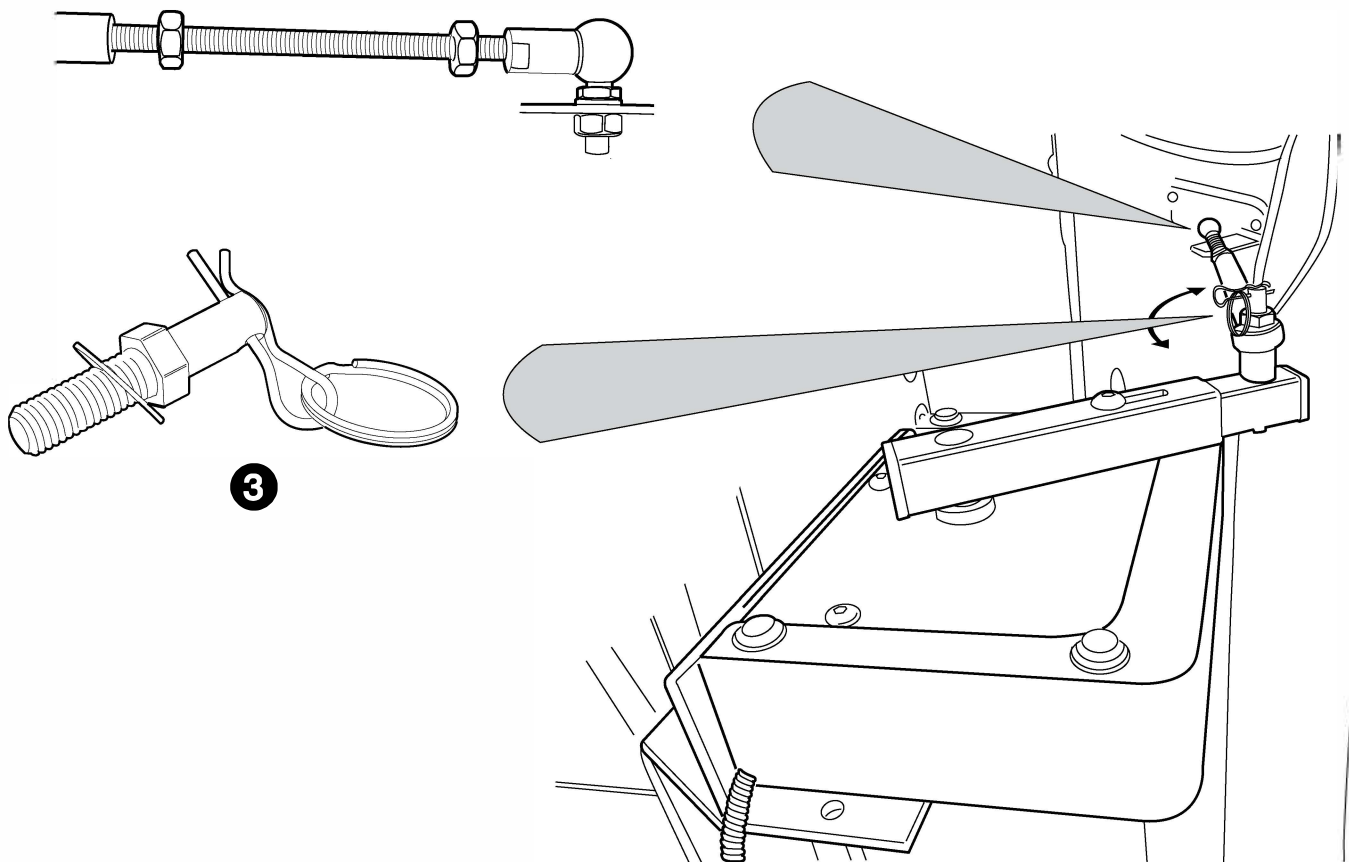
Mounting of door bracket

Mercedes Sprinter - Left door



5. The door opener is connected to the bracket using the mounting rods **2** and **ME4**.

6. Spacer **ME4** and release pin **3** is placed between mounting rod **2** and the door opener.



The procedure is repeated for the right door.

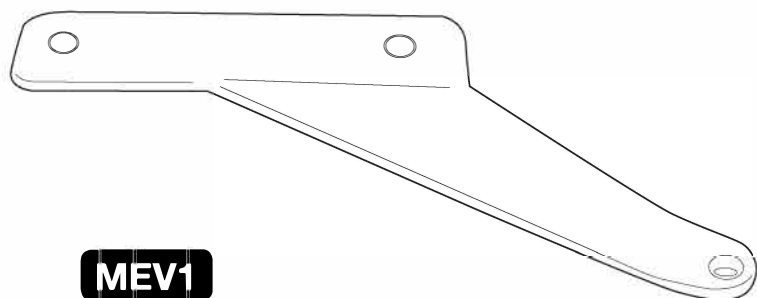
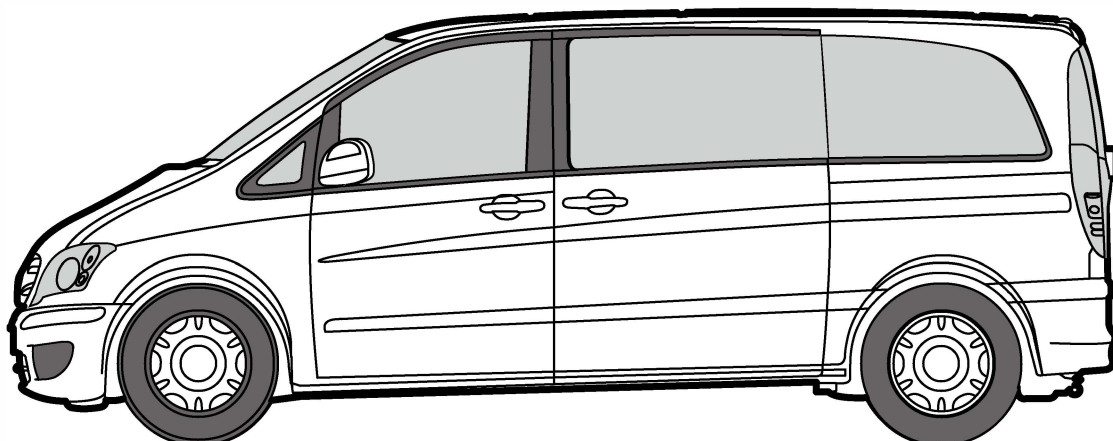
BRACKET KIT 61599

Mercedes Vito / Viano

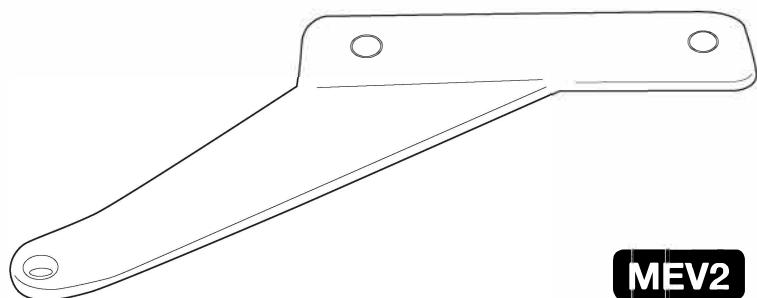
mobilityRDO™
REAR DOOR OPENER



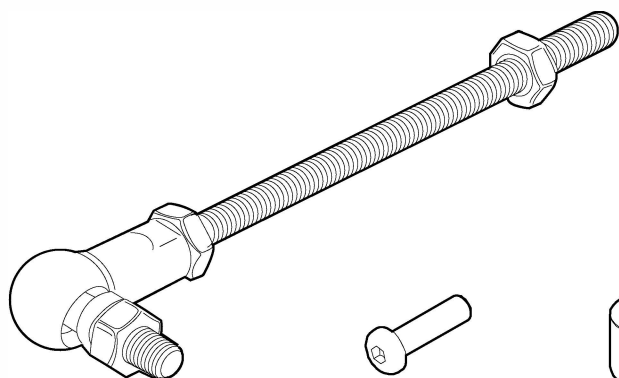
MERCEDES
VITO / VIANO



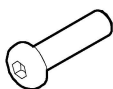
MEV1



MEV2



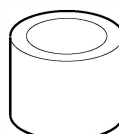
MEV3



MEV4



MEV5



MEV6

MEV1 1x Left door bracket

MEV2 1x Right door bracket

MEV3 2x Ball joints

MEV4 4x M8x30

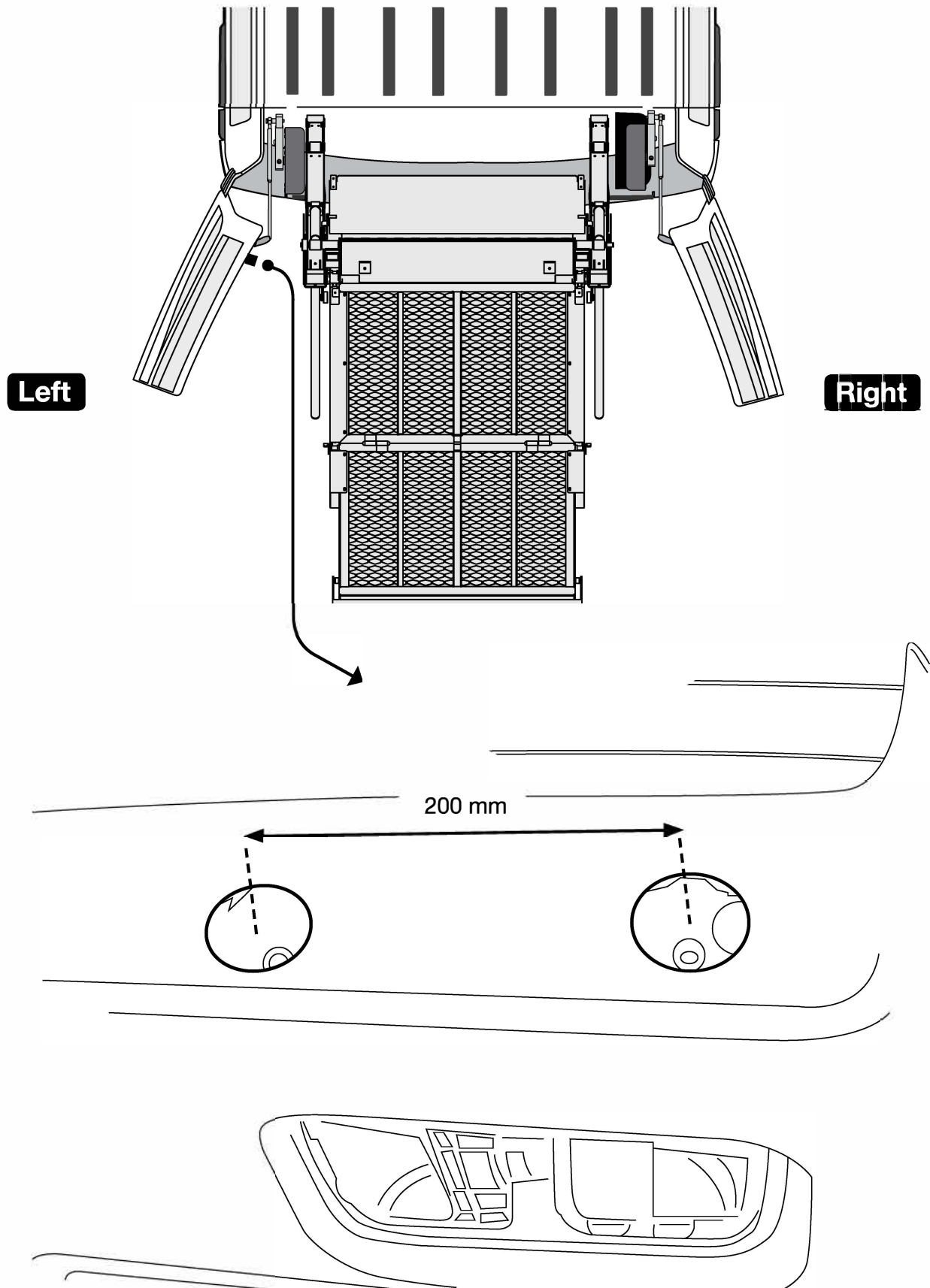
MEV5 2x Spacer

MEV6 2x Spacer

Mounting of door bracket

Mercedes Vito / Viano - Left door

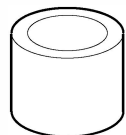
1. The left inside door cover is removed, and two holes of Ø30 mm are drilled



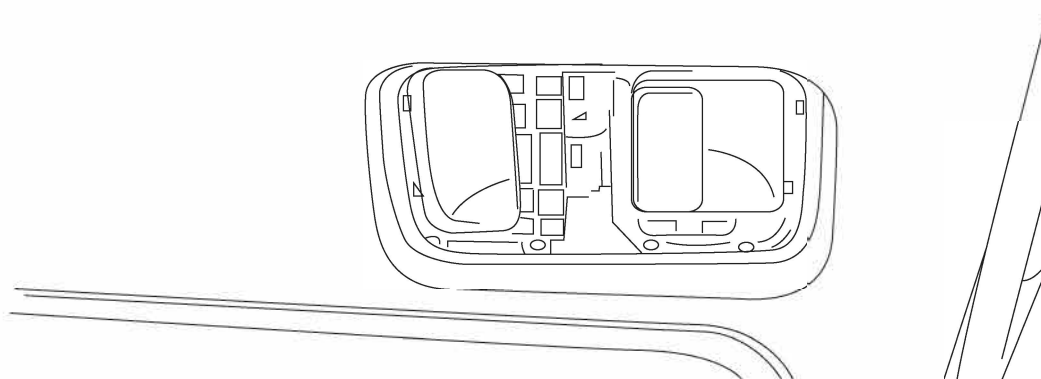
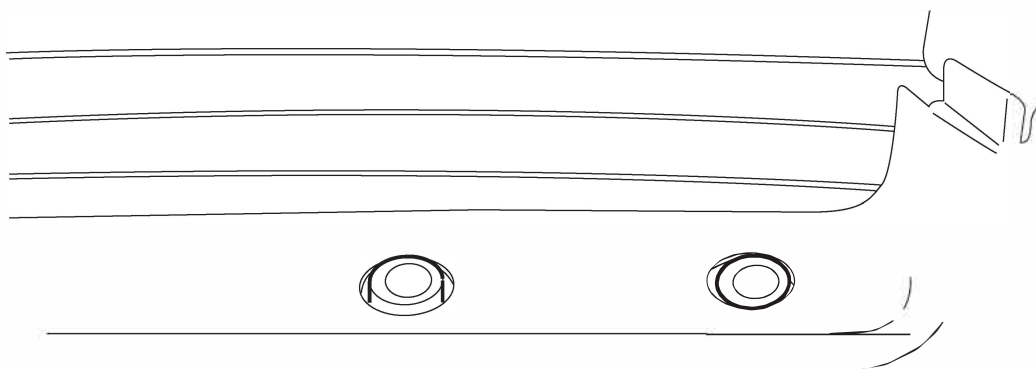
Mounting of door bracket

Mercedes Vito / Viano - Right door

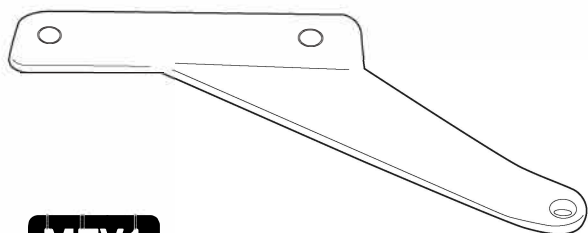
2. Spacer **MEV6** is placed in the holes (loose).



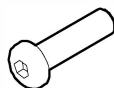
MEV6



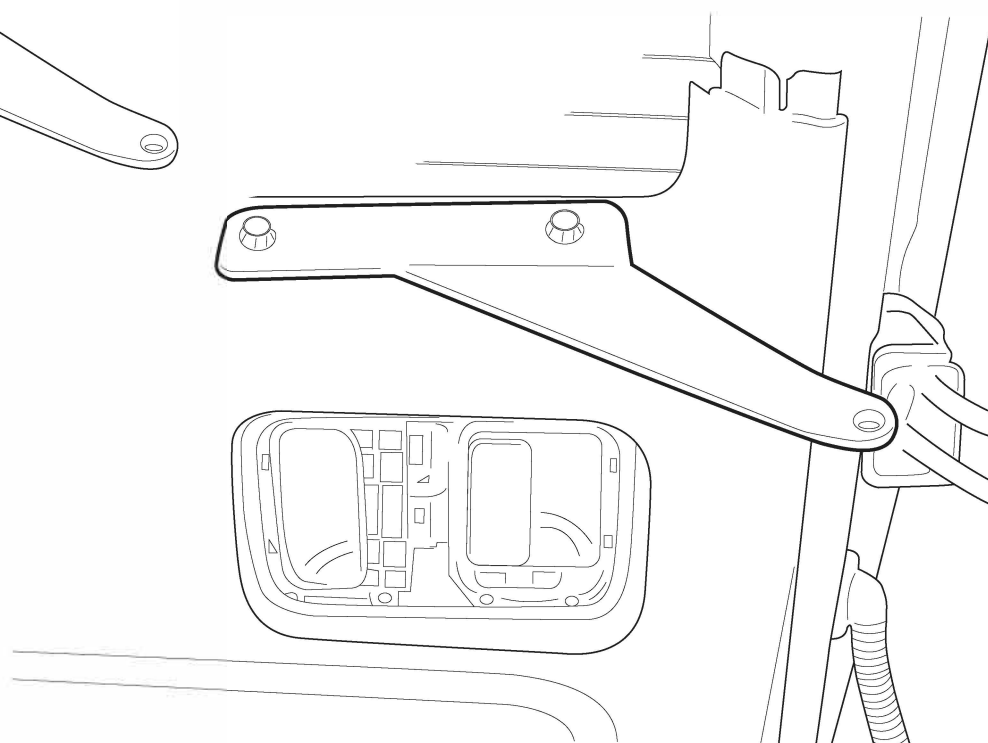
3. Bracket **MEV1** is attached with bolts **MEV4**.



MEV1



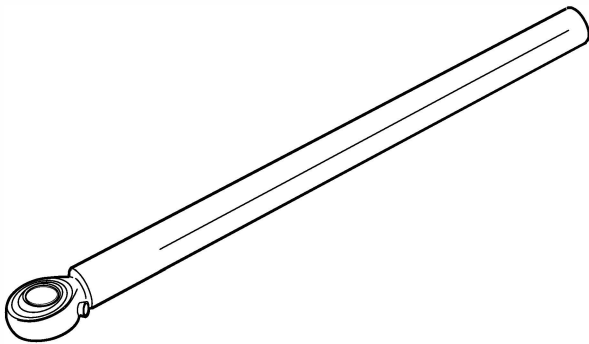
MEV4



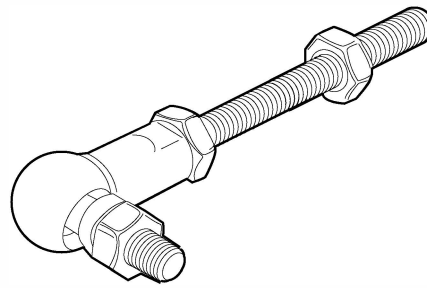
Mounting of door bracket

Mercedes Vito / Viano - Right door

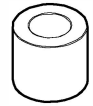
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2



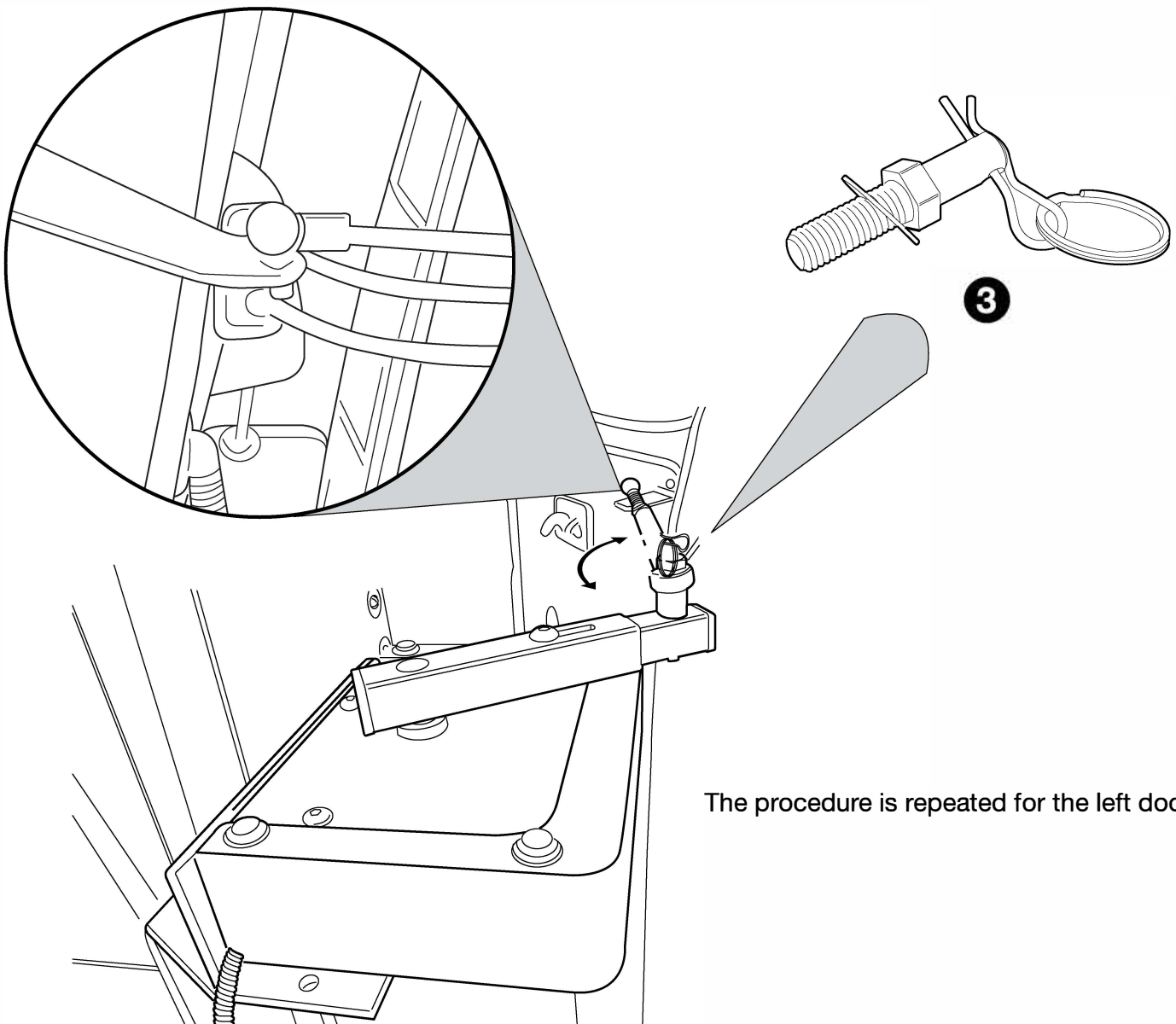
MEV3



MEV4

7. The door opener is connected to the bracket using the mounting rods **2** and **VW7**.

8. Spacer **VW9** and release pin **3** is placed between mounting rod **2** and the door opener.



The procedure is repeated for the left door.

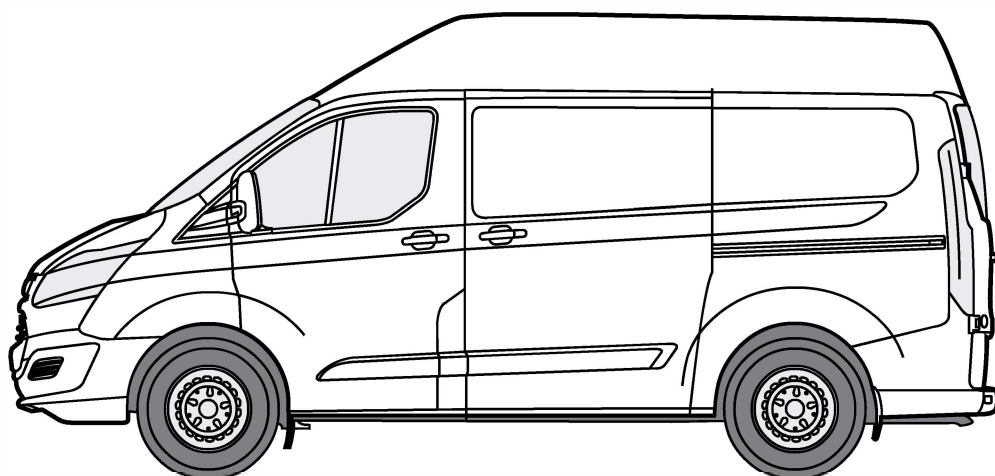
BRACKET KIT 61640

FORD TRANSIT CUSTOM

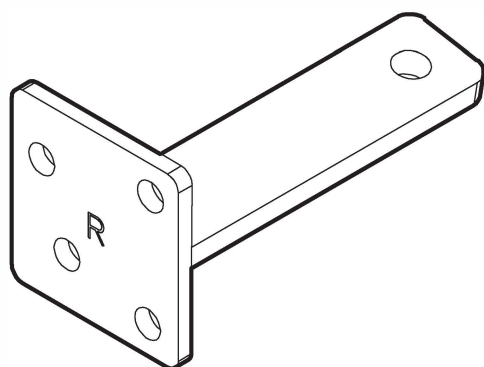
mobilityRDO™
REAR DOOR OPENER



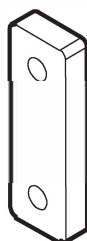
FORD
TRANSIT
CUSTOM



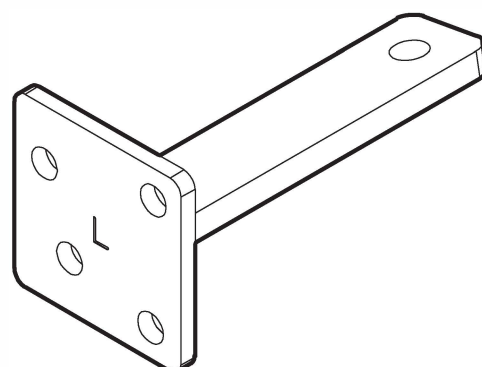
KIT OVERVIEW:



FT01



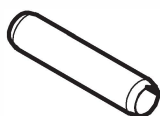
FT02



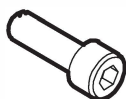
FT03



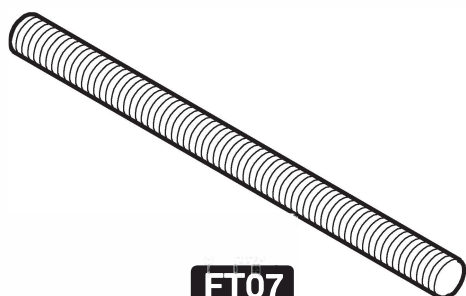
FT04



FT05



FT06



FT07



FT08

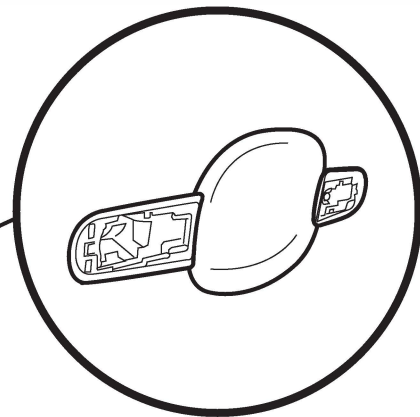
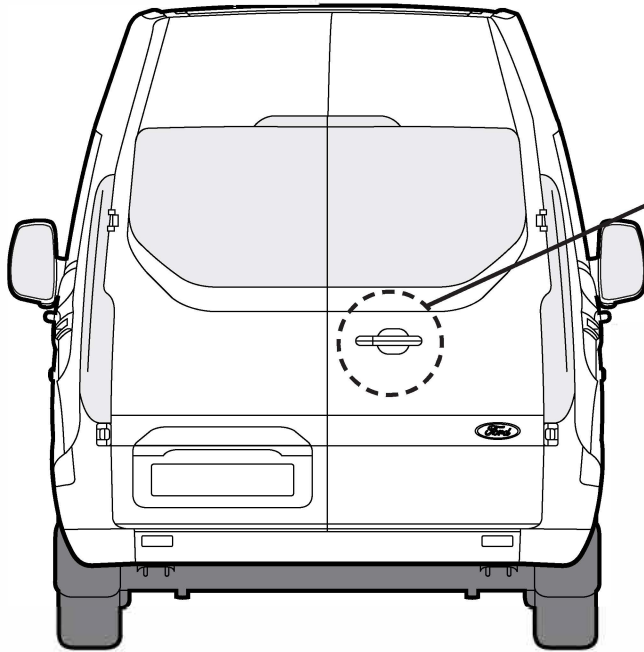
- FT01** 1x Right door bracket
- FT02** 2x Mounting bracket
- FT03** 1x Left door bracket
- FT04** 2x Ball joint M10
- FT05** Pin ISO 13337 10x45 mm
- FT06** M8x25 mm
- FT07** Threaded stud, 10x140 mm
- FT08** M10 nut

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01

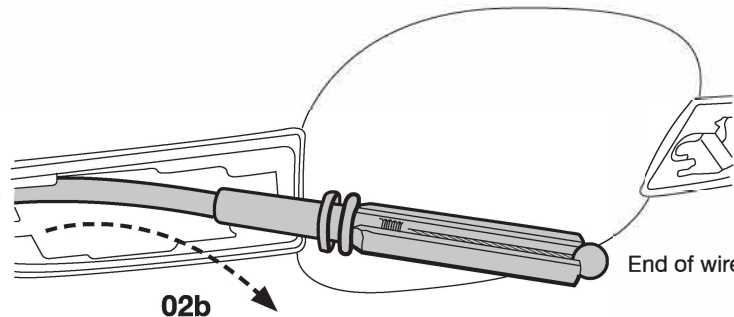
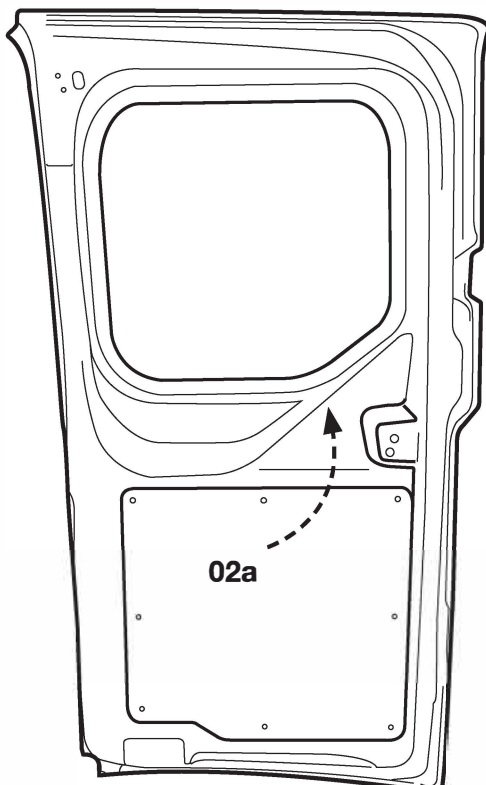


Remove rear door handle.



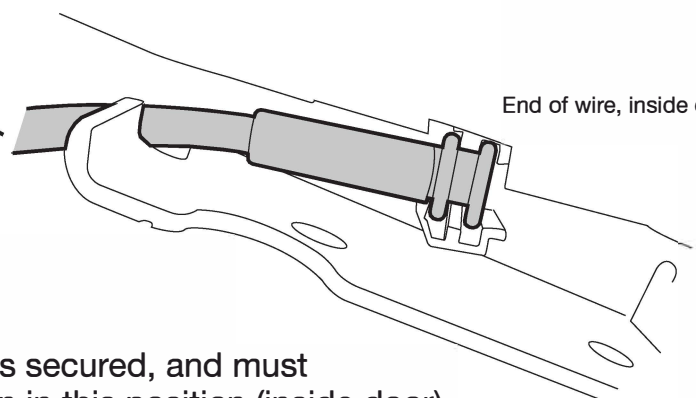
Keep handle.

02



End of wire, outside door

Wire is pulled out from inside the vehicle door.



End of wire, inside door

02c

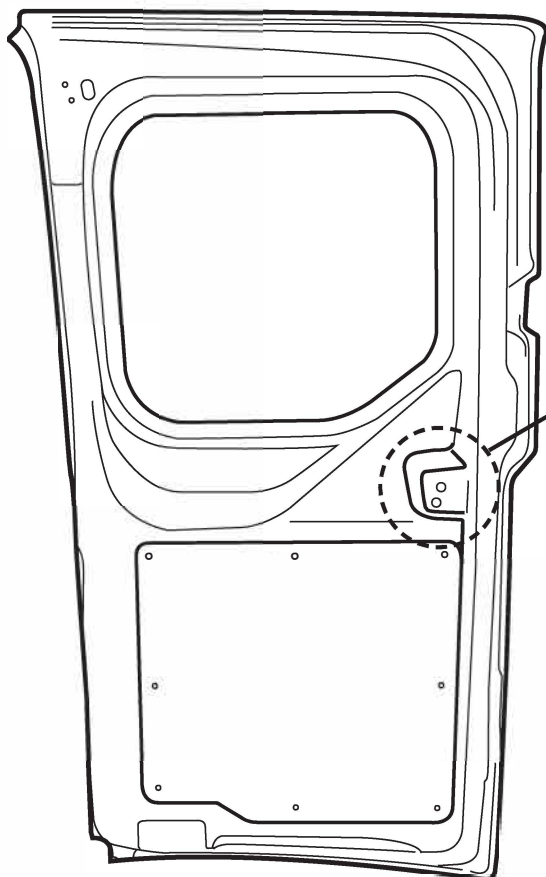
Wire is secured, and must remain in this position (inside door).

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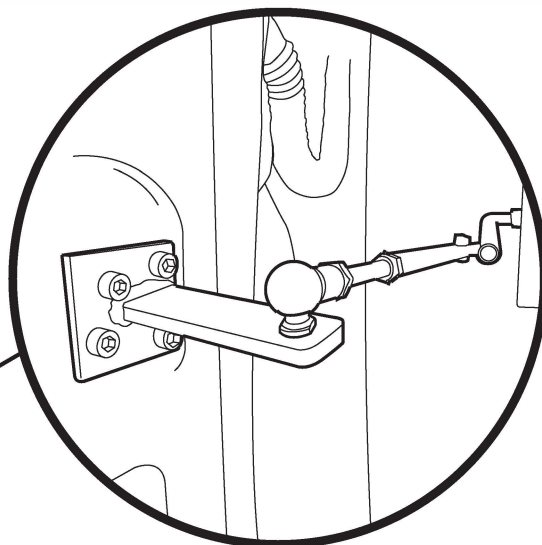
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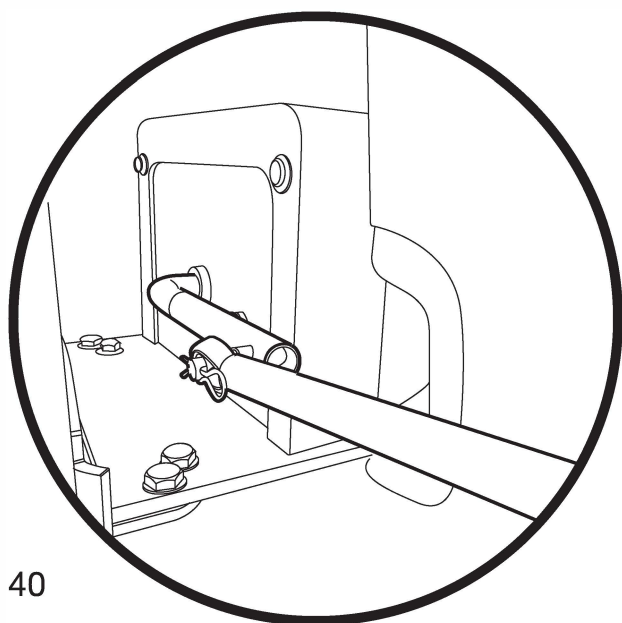
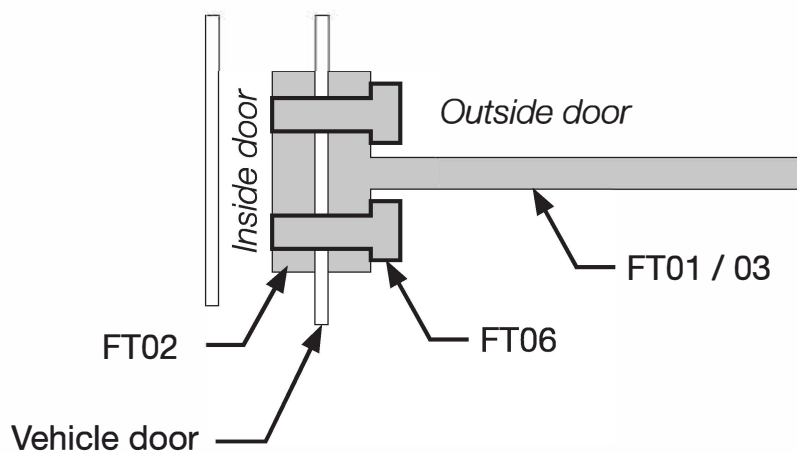
03



Left rear door interior view



Connect bracket FT01 / 03. Drill two holes and place FT02 from inside the vehicle door.



04

Attach connection rod from bracket to RDO.

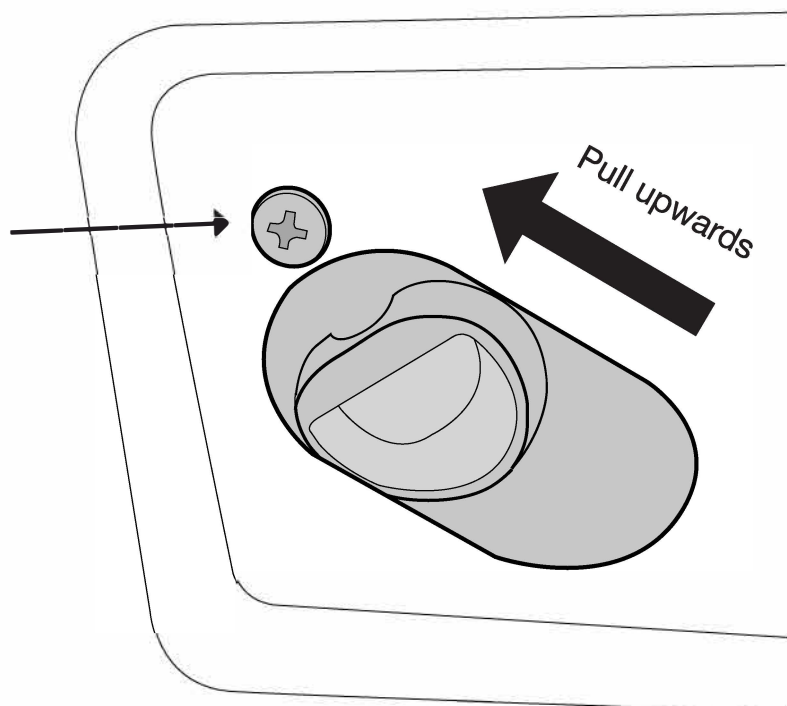
BRACKET KIT 61640

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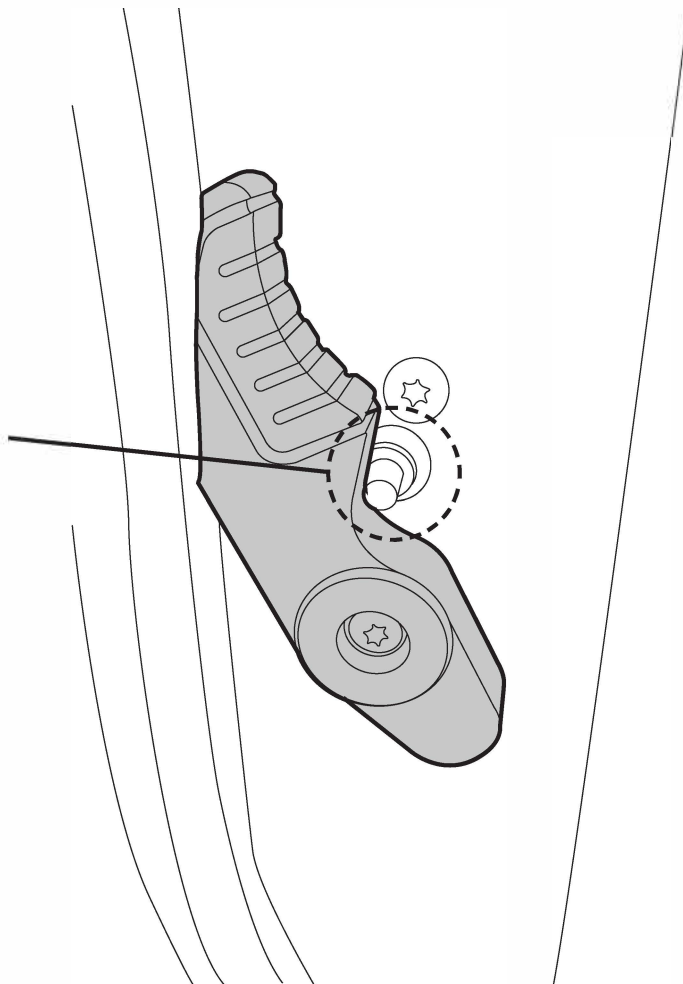
05

Drill hole and secure with screw.



06

Modified handle. Place handle on opposite side of pin (door released).



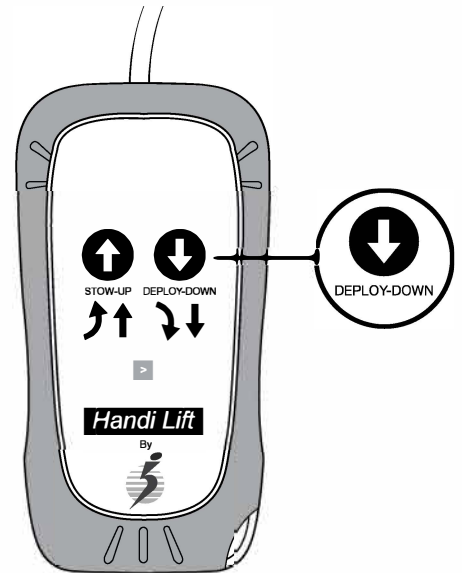
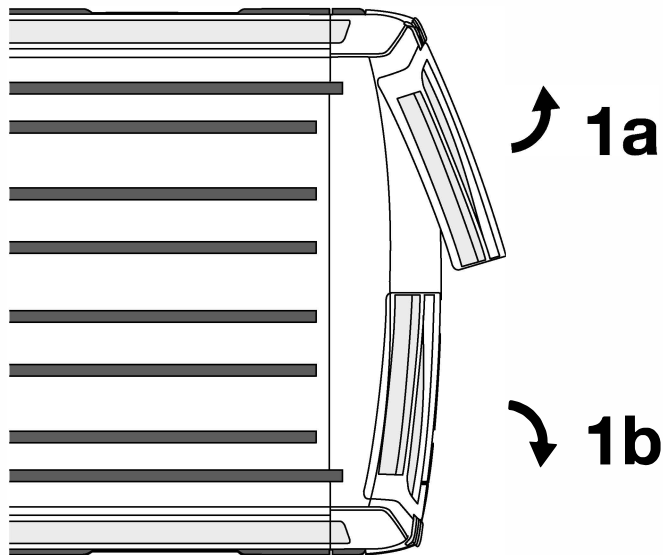
User guide

Opening

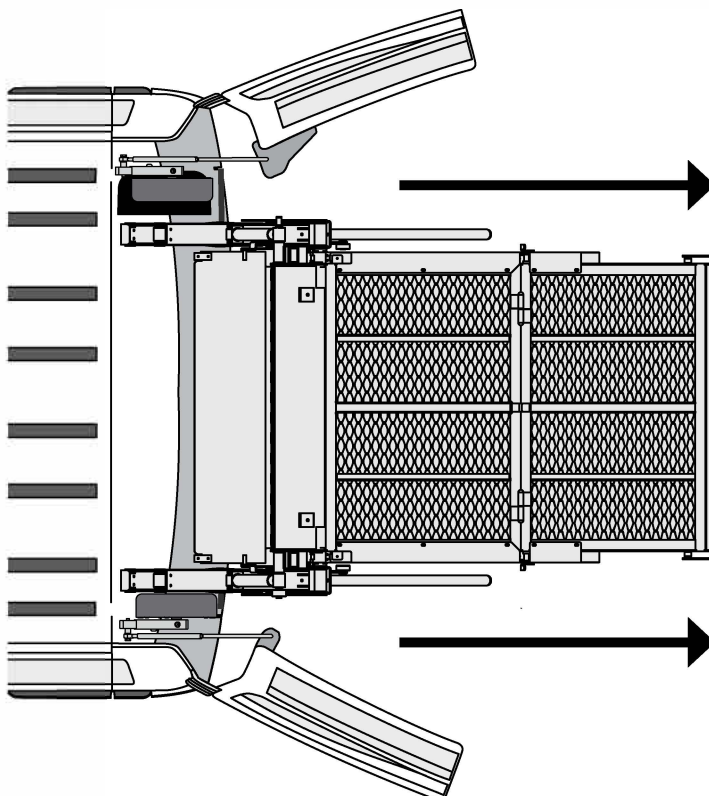
1. Press and hold the button  to open the rear doors.
DEPLOY-DOWN



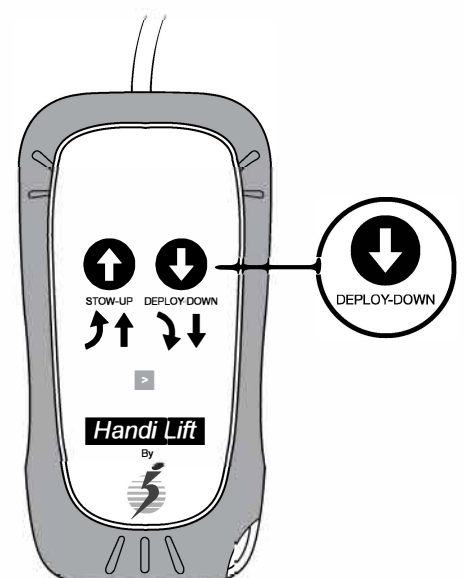
WARNING: Keep a safe distance when operating the RDO and lift!



2. Continue pressing the button  to activate the wheelchair lift.
DEPLOY-DOWN




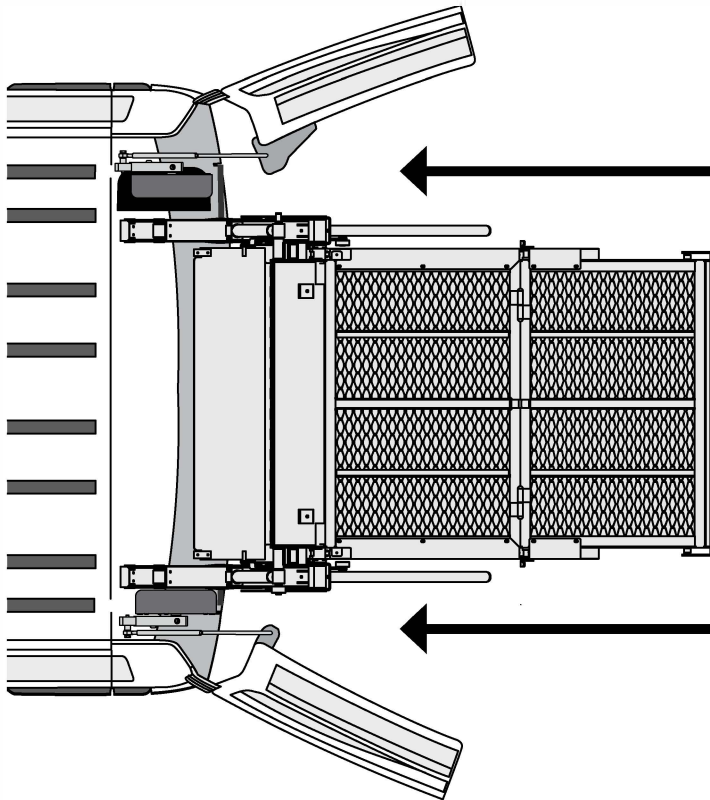
2



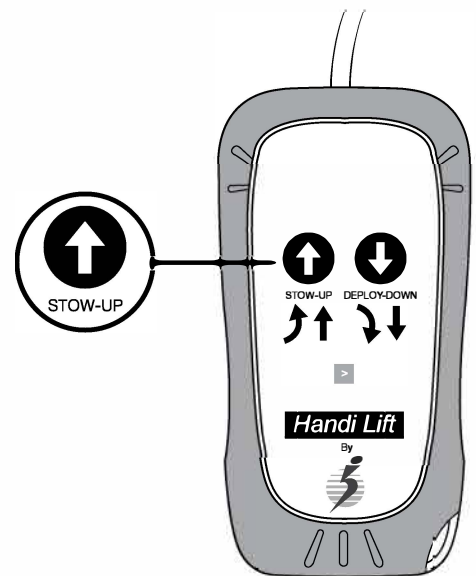
User guide


Closing

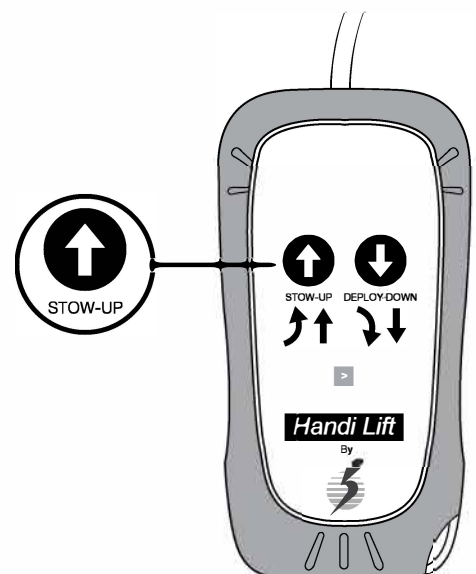
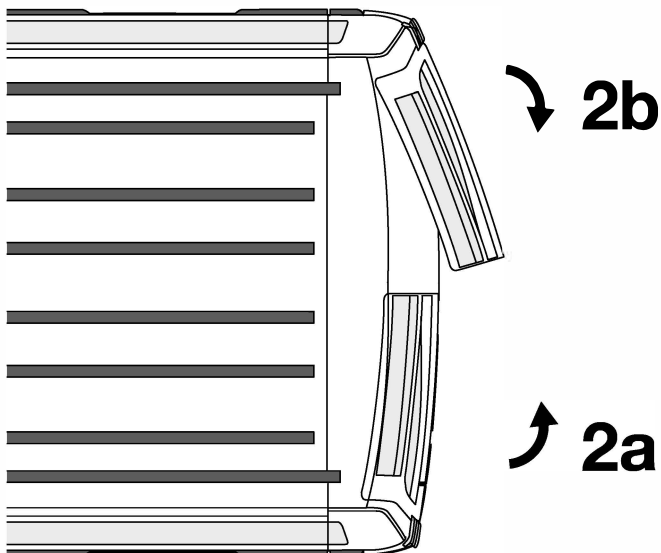
1. Press and hold the button  to stow the lift and close the rear doors.



1



2. Continue pressing the button . When a small safety-delay occurs, keep pressing to close the doors completely.



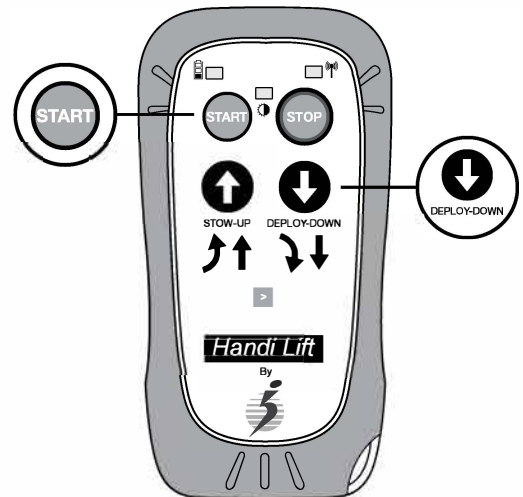
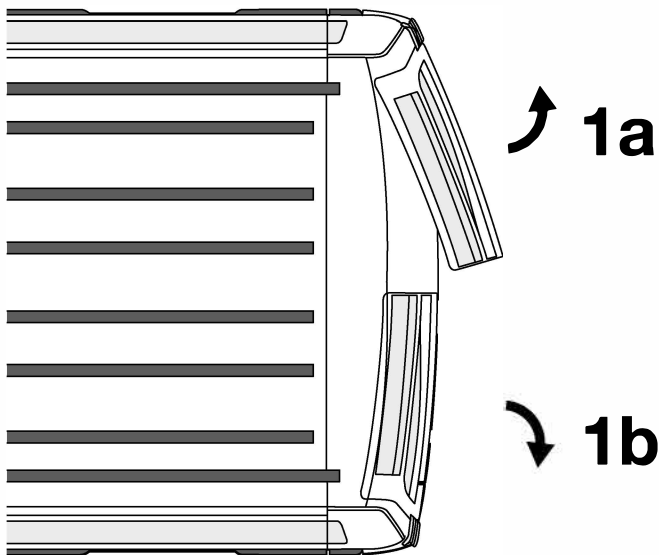
User guide for wireless control


Opening

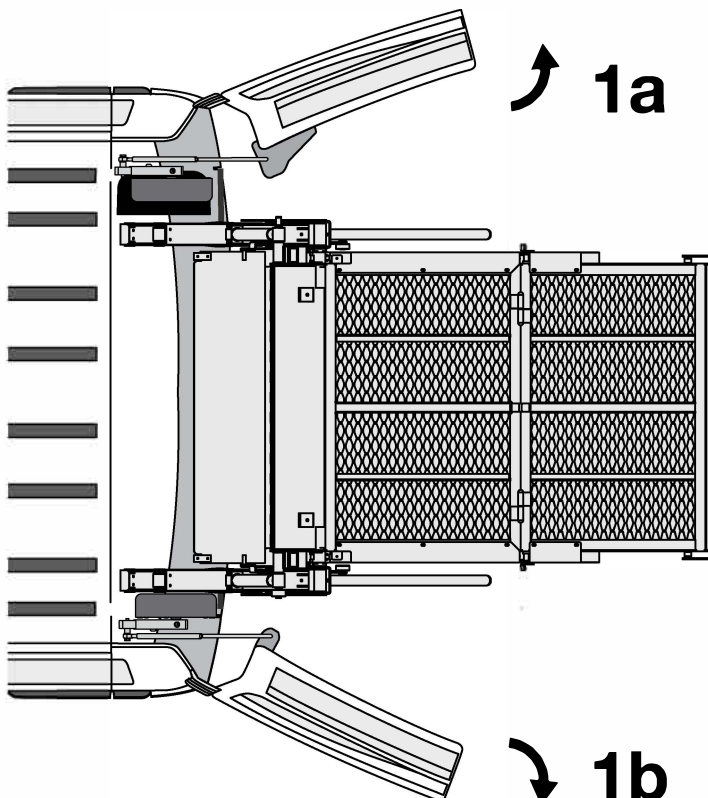
1. Press the button  to activate the RDO.
2. Press and hold the button  to open the rear doors.



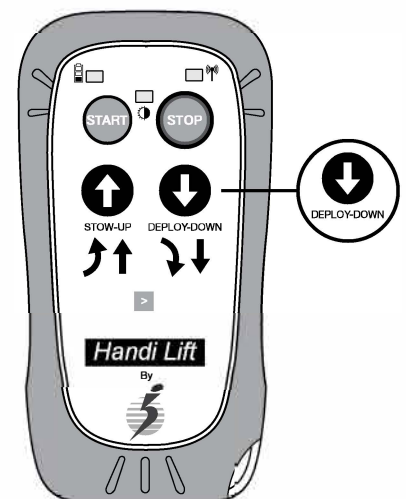
WARNING: Keep a safe distance when operating the RDO and lift!



2. Continue pressing the button  until the vehicle doors are fully open and the wheelchair lift is completely unfolded.





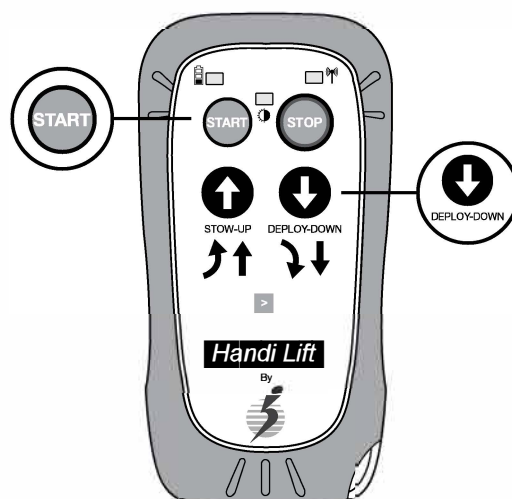
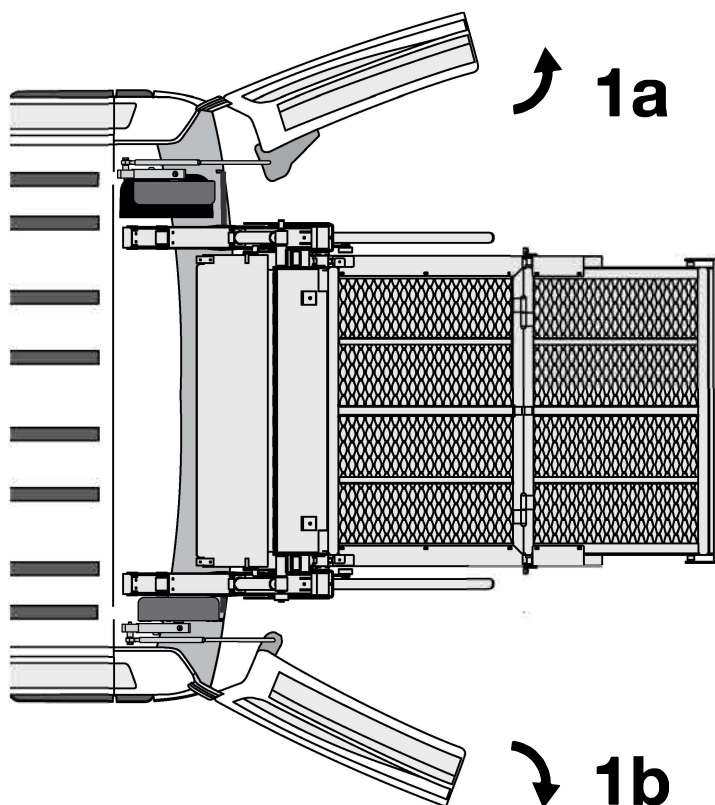
2




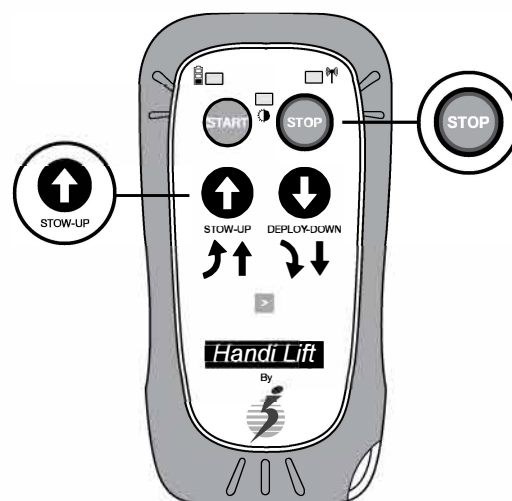
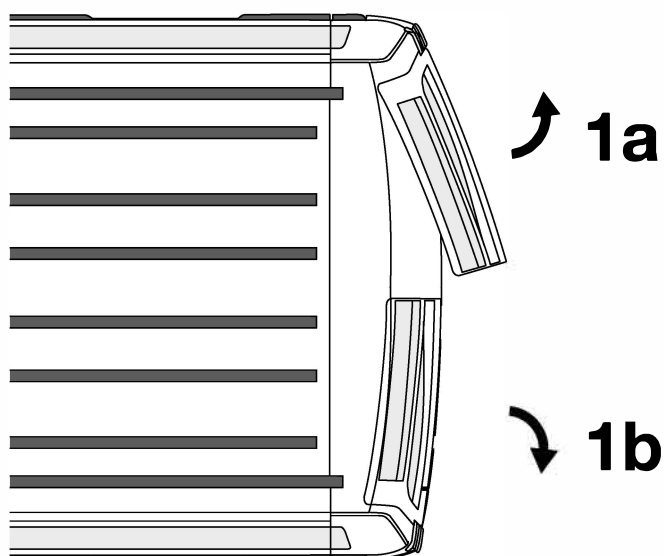
User guide for wireless control

Closing

1. Press the button  to activate the RDO.
2. Press and hold the button  to stow the lift and close the rear doors.



2. Continue pressing the button . When a small safety-delay occurs, keep pressing to close the doors completely.



3. Press the button  to deactivate the RDO.

Certification

DECLARATION OF
CONFORMITY



mobilityRDOTM
REAR DOOR OPENER

The undersigned,

Company name	: Handicare
Visiting address	: Baggeskærvej 48
Postcode	: 7400
City	: Herning
Country	: Denmark
Telephone	: +45 96 28 96 20
E-mail	: autoproducs@handicare.dk
Home page	: www.handicare.dk

being the manufacturer, declares under his sole responsibility that the product:

Product name	: HandiRDO TM
Product Type	: Rear Door Opener
Brand	: Handicare

to which this declaration relates are in conformity with the provisions of directives and standards:

2006/42/EC

74/61/EC

70/387/EC

Date : Herning, 1st of July 2012

Signature

Name	: Jan Munksgaard Jensen
Position	: Administrerende direktør / Managing Director

Warranty

Warranty for products sold under the responsibility of Handicare:

Handicare warrants to the original purchaser of this product that we will repair or replace any faulty parts, at our discretion.

Warranty period:

Any parts that fail by reason of defective material or workmanship will be offered a replacement of all parts for a period of one year. Labor costs for specified parts replaced under warranty are not covered by this warranty. If applicable the product specific extended warranty obligations can be found online.

This warranty *does not* cover:

Damage caused by accident, misuse, abuse, lack of proper maintenance or failure to follow operating instructions. Required maintenance or repairs must be performed at that time, or as needed. Handicare Auto Products obligation under this warranty is exclusively limited to the repair or exchange of parts that fail within the applicable warranty period, and Handicare assumes no responsibility for any other expenses or damages, including incidental or consequential damages.

This Warranty is void if:

The product has been modified or altered in any respect from its original design without written authorization by Handicare as this product has been designed and manufactured to a specific purpose. Modification of this product in any respect is DANGEROUS.

Handicare disclaims liability for any personal injury or property damage that results from operation of a product that has been modified from the original Handicare design. No person or company is authorized to change the design of this product without written authorization by Handicare.

Warranty handling procedure:

Returning of parts / goods with a warranty claim can only take place with a pre-written agreement in the form of a "return number" issued by Handicare, as well as a completely filled Warranty Claim form. The claims form can be found online.

Claim validation process – spare parts and products (hereafter named goods):

Handicare will when needed as soon as possible send a replacement for the claimed goods. Any replacement goods will be invoiced to the customer.

Claimed goods which are applicable to be covered by the warranty must be returned to Handicare without delay, with a copy of the original invoice, and the warranty claim form describing the default in the claimed warranty goods. Handicare will upon receipt inspect the returned claimed goods. The customer pays for the freight cost in connection with returning goods to Handicare Auto Products at warranty issues.

In case the goods is covered by the warranty, there will be made a credit note for the replacement goods which has been send earlier. If the claim is not accepted under the warranty, the invoice must be fully paid.

Unless anything else has been agreed the risk for the replacement goods is passed on to the purchaser by delivery at sellers address (Incoterms 2010 EX Works). Furthermore we refer to our general sales- and delivery terms.

mobilityRDO™
REAR DOOR OPENER

M  **bility**
NETWORKS
VEHICLE ACCESSIBILITY SOLUTIONS