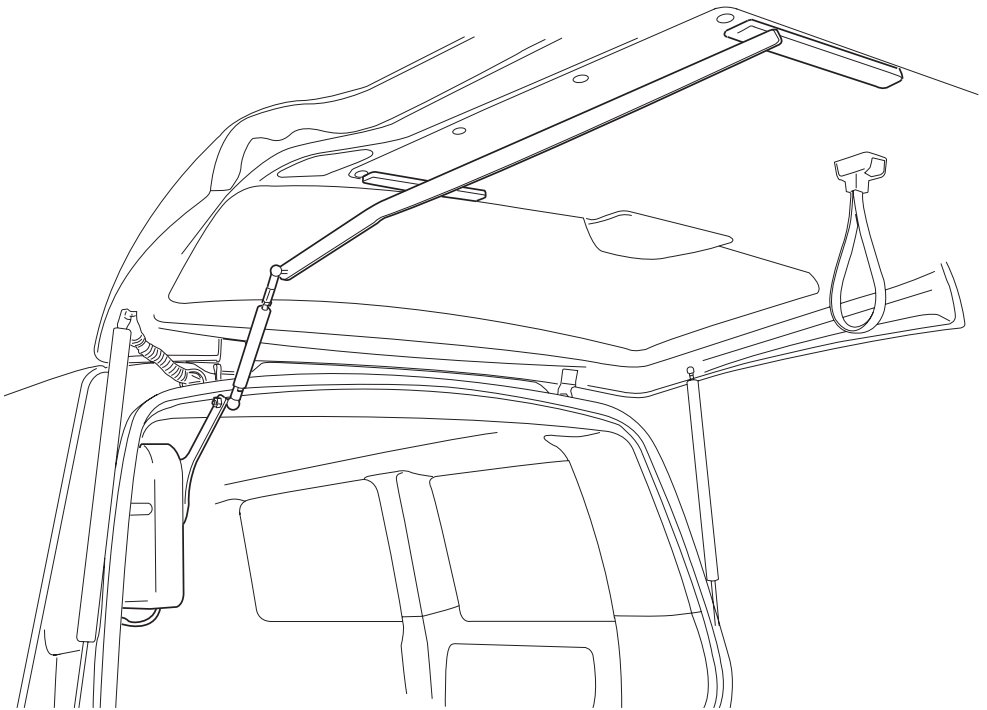


MOUNTING INSTRUCTIONS

mobilityHDO™

HATCH DOOR OPENER



FOR MOUNTING IN VEHICLES:



VW
T5 | T6



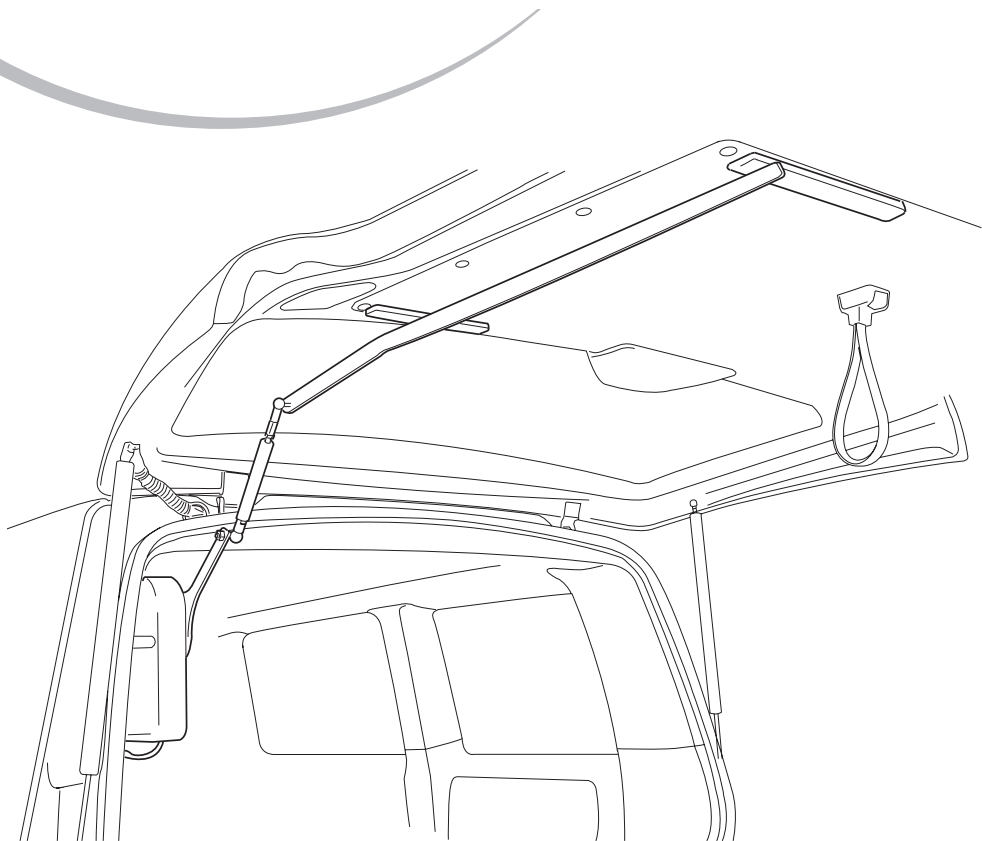
MERCEDES SPRINTER
VITO / VIANO



Mobility
NETWORKS
VEHICLE ACCESSIBILITY SOLUTIONS

mobilityHDO™

HATCH DOOR OPENER



FOR MOUNTING IN VEHICLES:



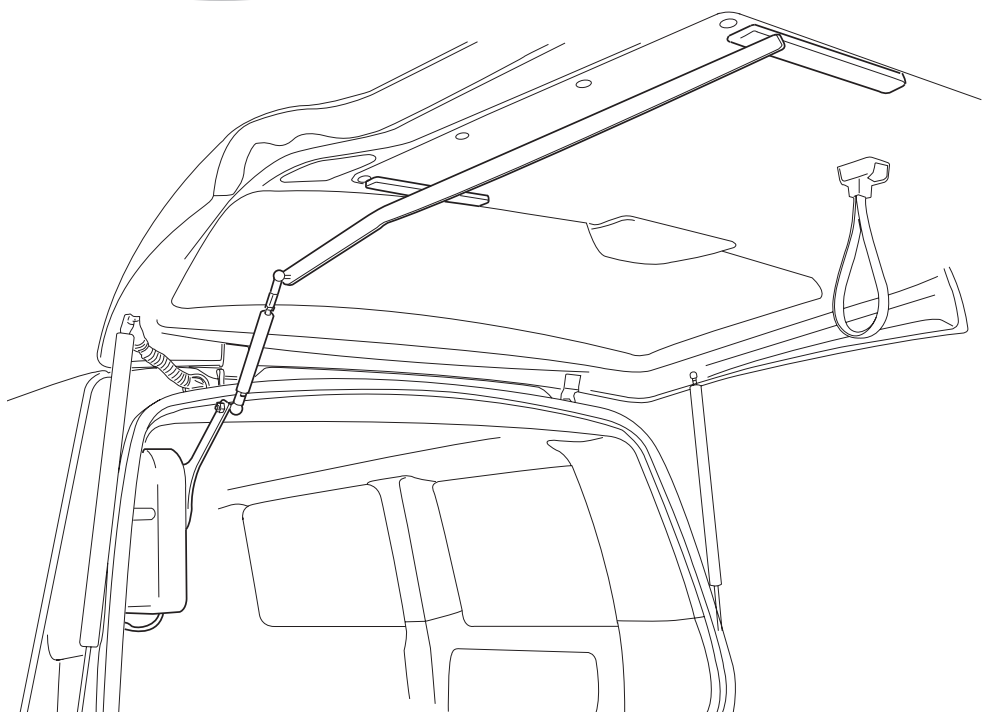
**MERCEDES SPRINTER
VITO / VIANO**



Mobility
NETWORKS
VEHICLE ACCESSIBILITY SOLUTIONS

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HATCH DOOR OPENER



FOR MOUNTING IN VEHICLES:



VW
T5 | T6



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HATCH DOOR OPENER

ENGLISH

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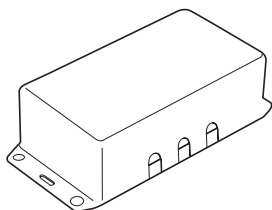
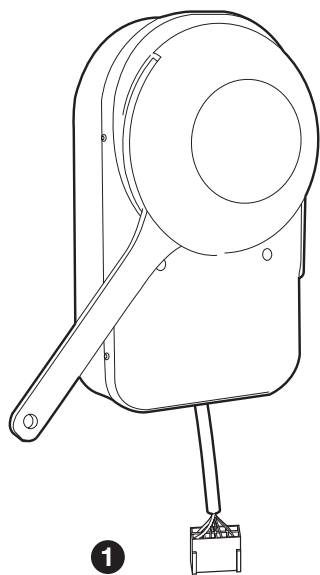
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Index

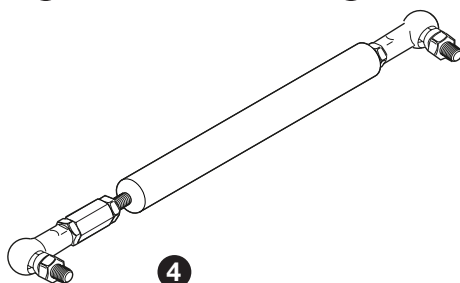
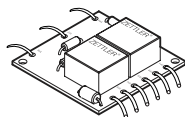
mobilityHDO™
HATCH DOOR OPENER

Package overview

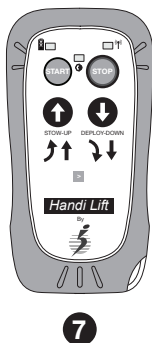
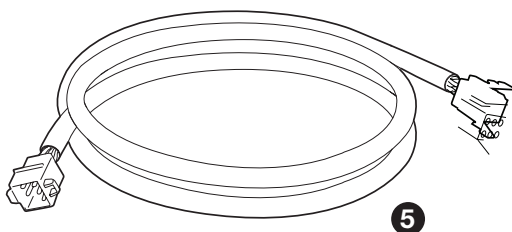
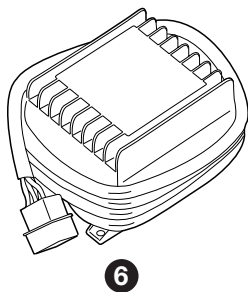
mobilityHDO™
HATCH DOOR OPENER



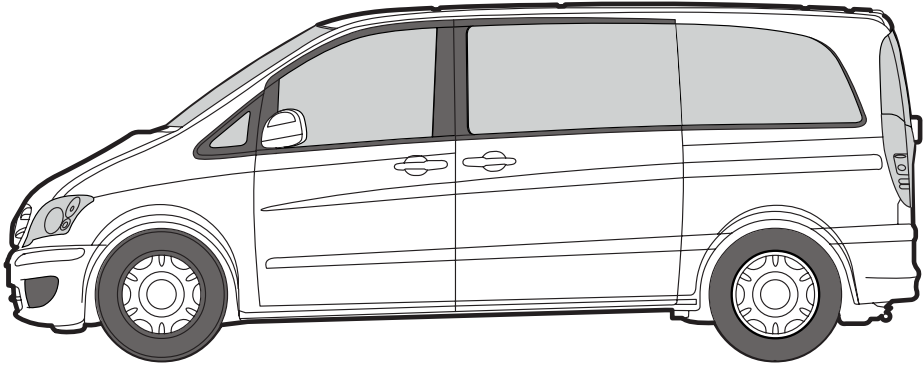
Optional features
(purchased separately)



Optional features (purchased separately)



- 1 1x HandiHDO™
- 2 1x Control box (CPU)
- 3 1x Control (IN008-2-16)
- 4 1x Spring rod
- 5 2x Cables
- 6 Wireless receiver
- 7 Wireless transmitter

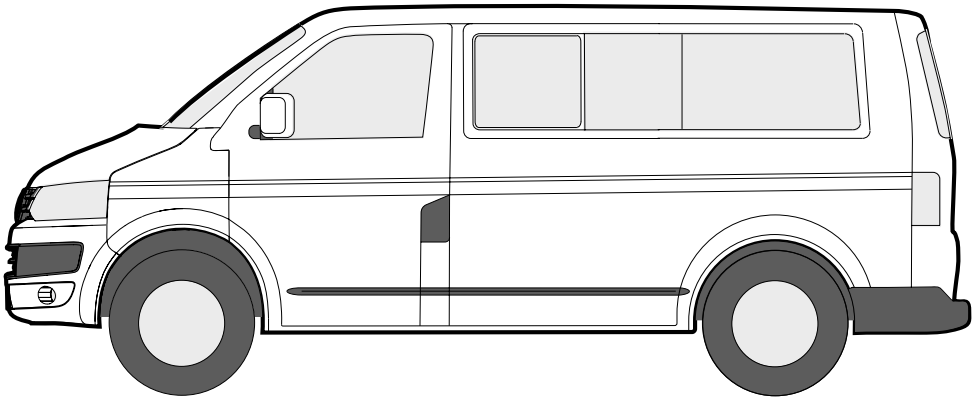


BRACKET KIT IN008-1-BRA
MERCEDES VITO / VIANO

MERCEDES VITO / VIANO

BRACKET KIT IN008-3-BRA-3

MERCEDES VITO 447

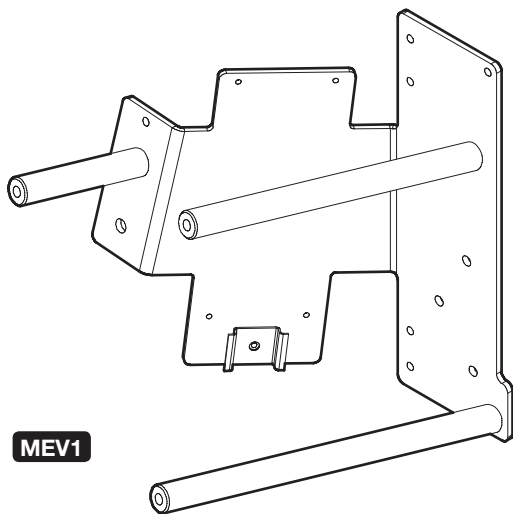


BRACKET KIT IN-008-BRA
VW T5 | T6

BRACKET KIT IN008-3-BRA-3

MERCEDES VITO / VIANO

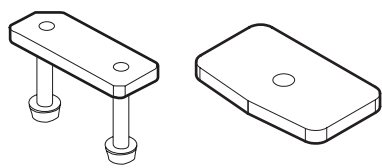
mobilityHDO™
HATCH DOOR OPENER



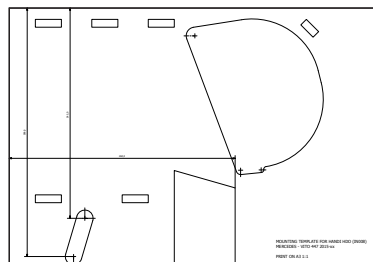
MEV2 **MEV3** **MEV4**



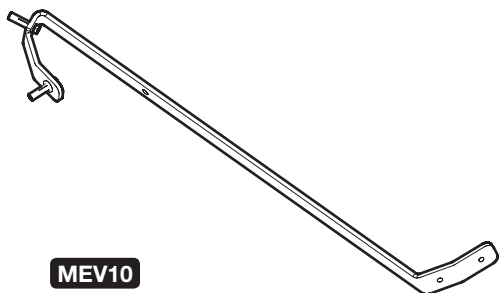
MEV5 **MEV6** **MEV7**



MEV8 **MEV9**



MEV11



MEV10

MEV1 1x Mounting bracket for HDO

MEV2 2x M8 Nut cap

MEV3 2x M6 Nite Versa-Nut

MEV4 1x M8x25

MEV5 1x M6x30

MEV6 1x Washer

MEV7 1x M8 Nut

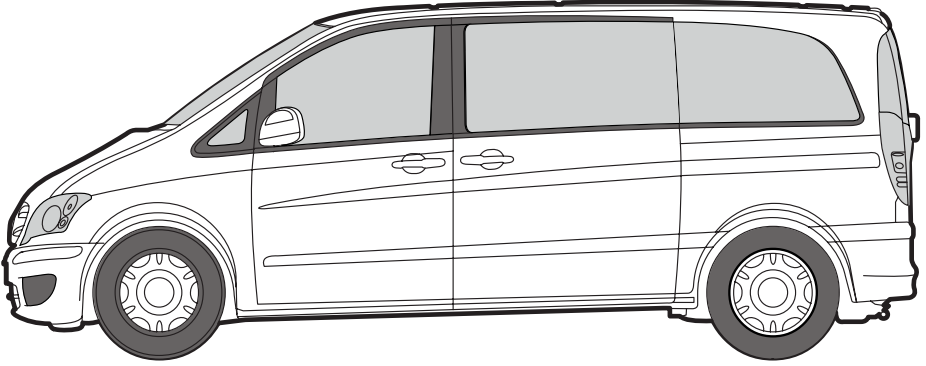
MEV8 1x M8 Spacer Assembly

MEV9 1x Spacer, window

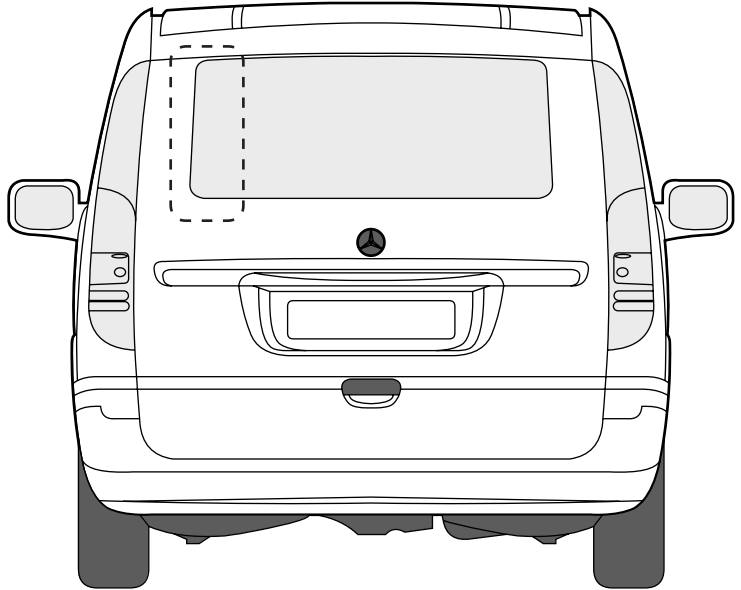
MEV10 1x Mounting bracket

MEV11 1x A3 Mounting template

BRACKET KIT IN008-3-BRA-3 mobilityHDO™
MERCEDES VITO / VIANO HATCH DOOR OPENER



Mercedes Vito / Viano



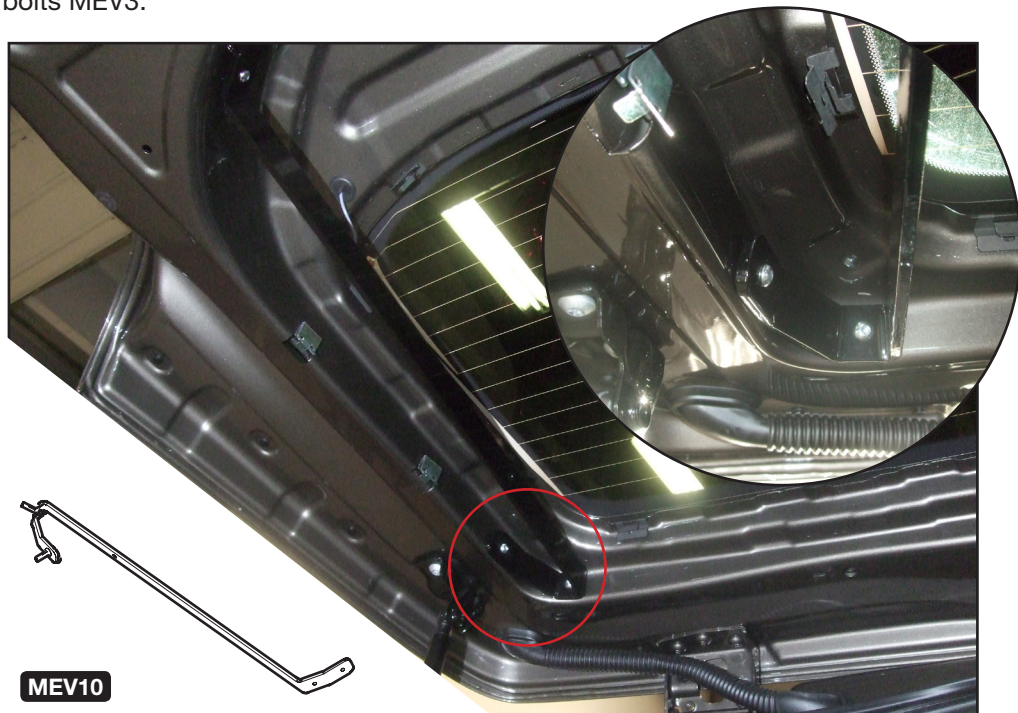
Brakcet pplacement.

Mounting, CPU

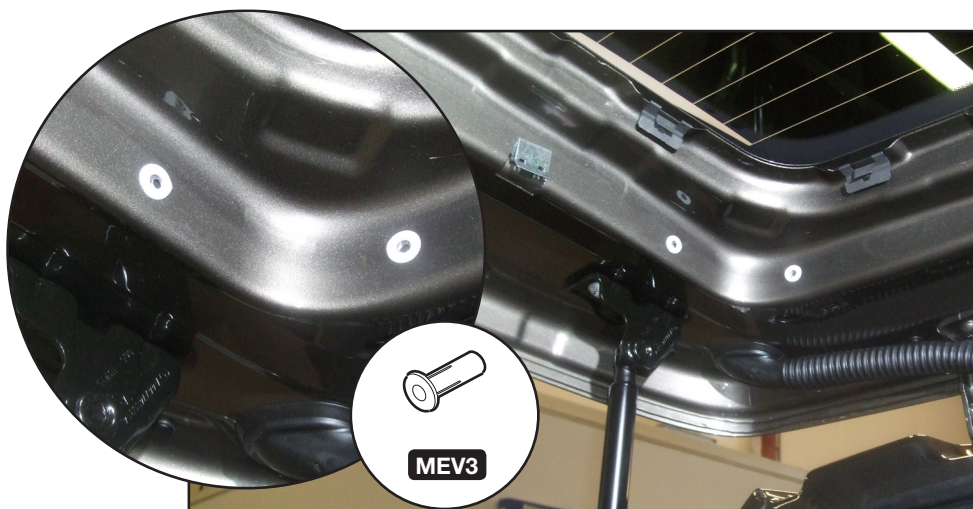
Mercedes Vito 447

mobilityHDO™
HATCH DOOR OPENER

1. Align the hatch mounting bracket MEV10 in the left inside of the hatch door, and mark the 4 holes in top and bottom. Drill 4x 8 mm holes and attach the bolts MEV3.



MEV10

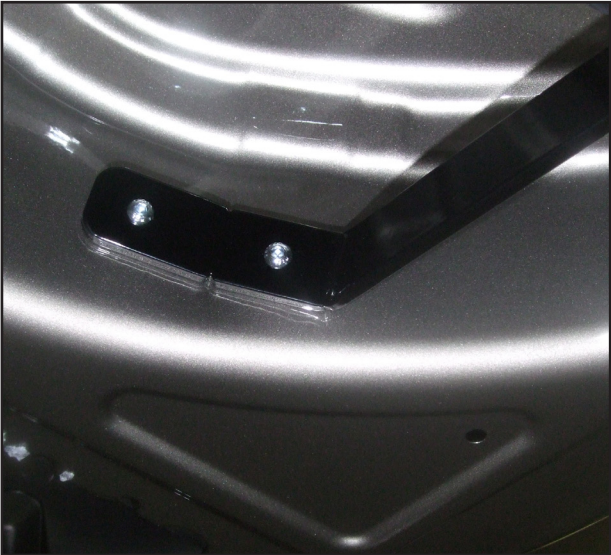


MEV3

Mounting template

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HATCH DOOR OPENER



Mounting, CPU

Mercedes Vito 447

3. Attach the CPU on the mounting bracket.

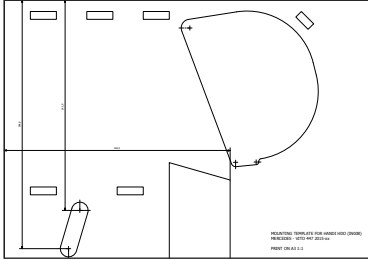


Mounting template

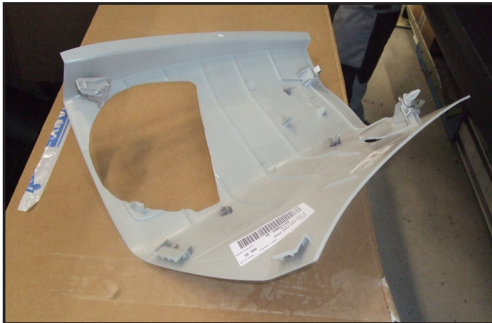
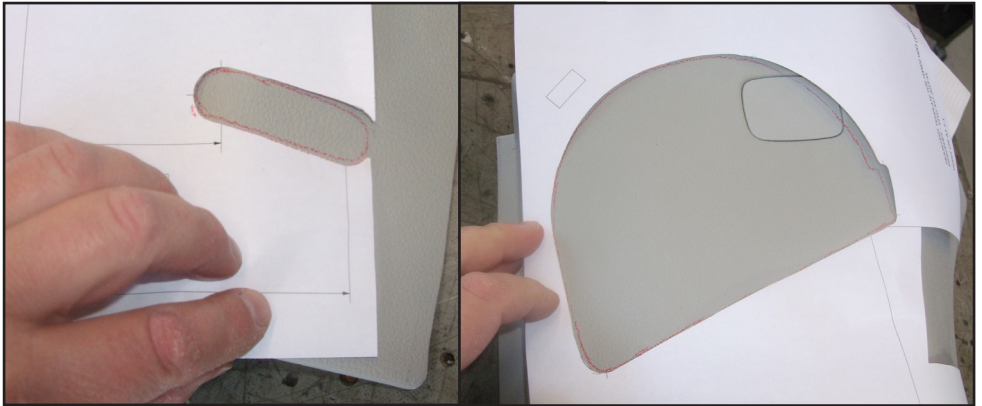
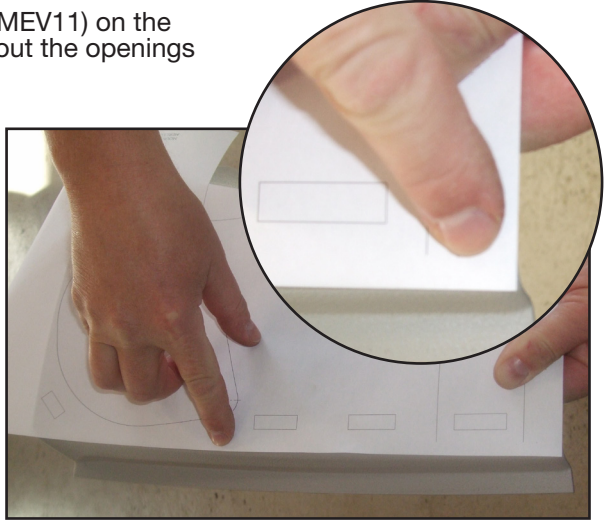
Mercedes Vito 447

mobilityHDO™
HATCH DOOR OPENER

4. Align the mounting template (MEV11) on the removed d-pillar cover, and cut out the openings marked on the template.



MEV11



Finished cutout.

Mounting, d-pillar cover

Mercedes Vito 447

Attach the cover on the D-pillar.



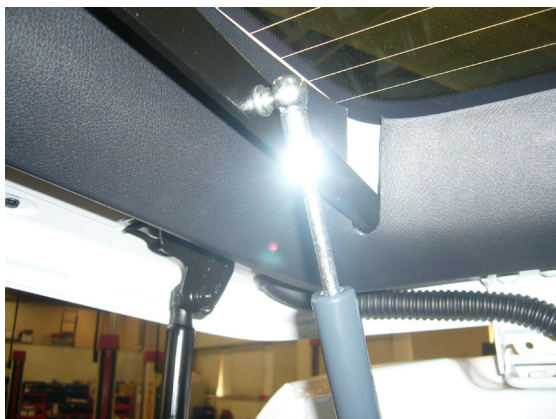
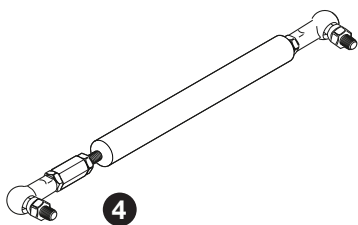
Mounting, HDO

Mercedes Vito 447



Attach the HandiHDO on to the bracket, and attach the covers.

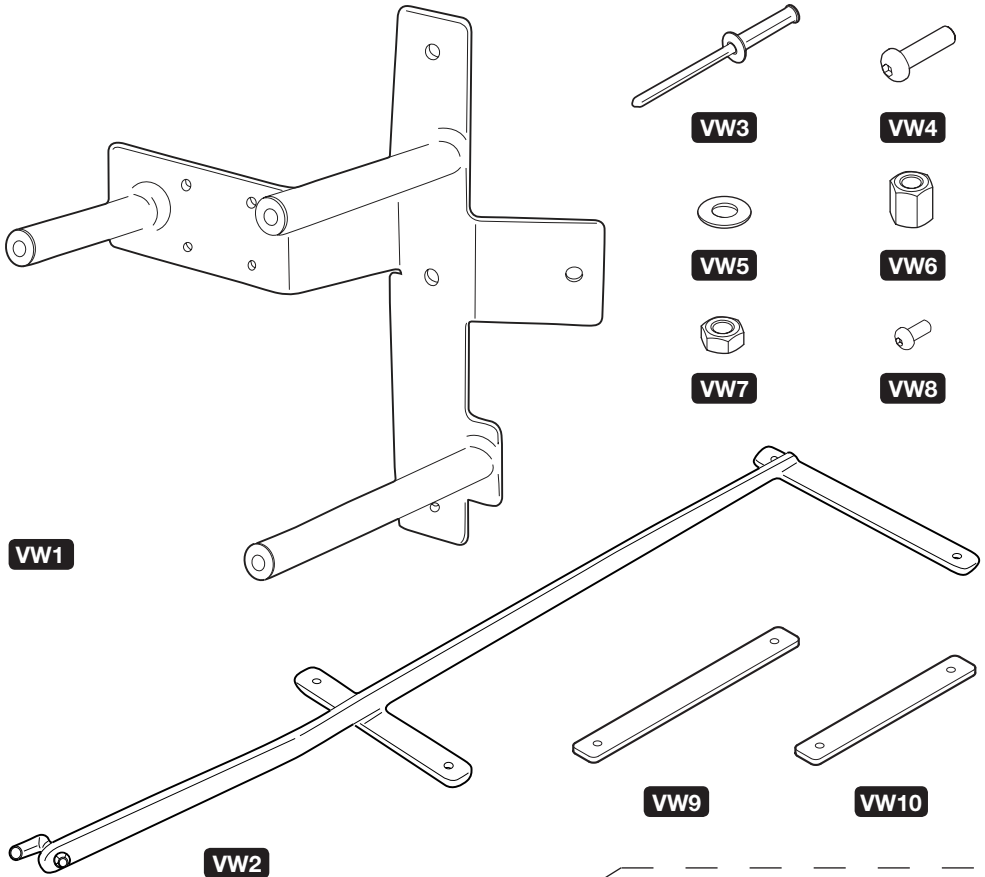
Connect the HDO to the vehicle door bracket with the mounting spring rod (4).



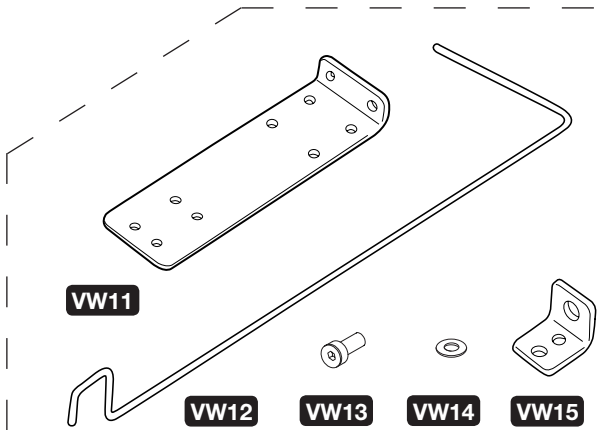
BRACKET KIT IN-008-BRA

VW T5

mobilityHDO[™]
HATCH DOOR OPENER



- VW1** 1x Bracket for HDO
- VW2** 1x Bracket for HDO
- VW3** 10x Pop rivets
- VW4** 8x M8x30
- VW5** 4x M8 Spacer
- VW6** 1x M8x10 Nut
- VW7** 8x M8 Nut
- VW8** 1x M4x10



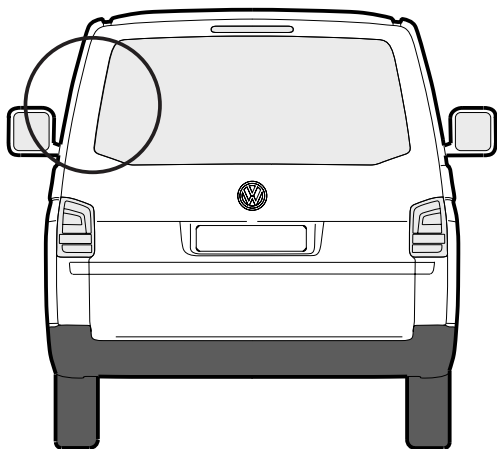
Non-solenoid release (No Support)

Mounting template

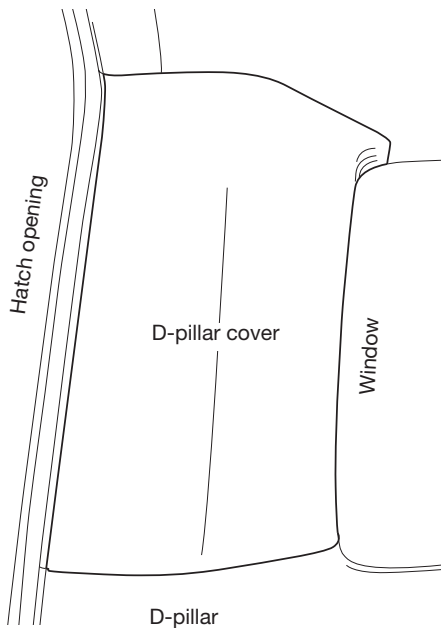
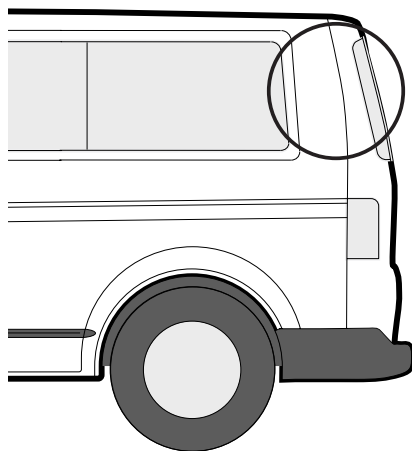
VW T5 | T6

mobilityHDO™
HATCH DOOR OPENER

D-pillar



D-pillar



Inside view of D-pillar



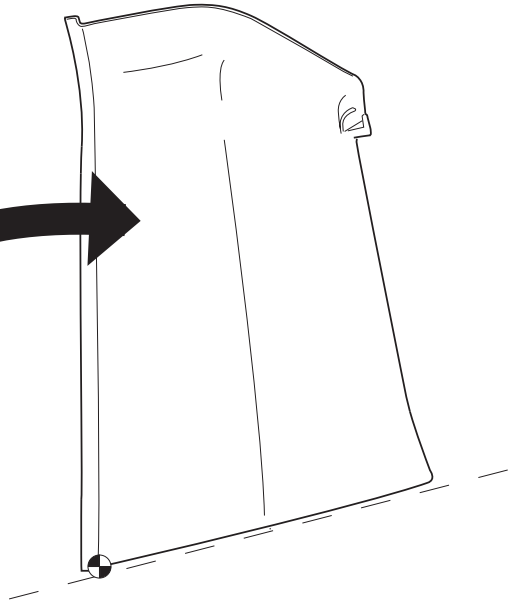
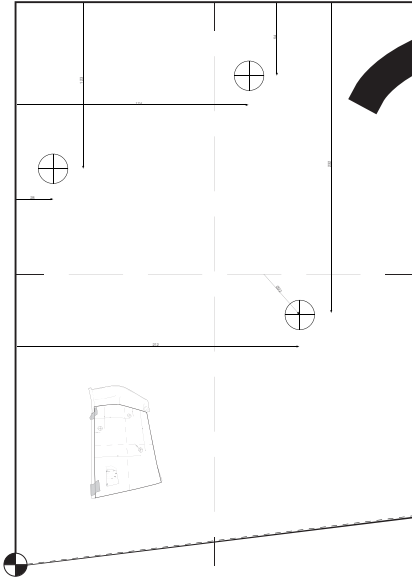
D-pillar cover

Mounting template

VW T5 | T6

The attached paper template is placed on the D-pillar cover to help mark up the 3 holes for mounting of the HandiHDO™.

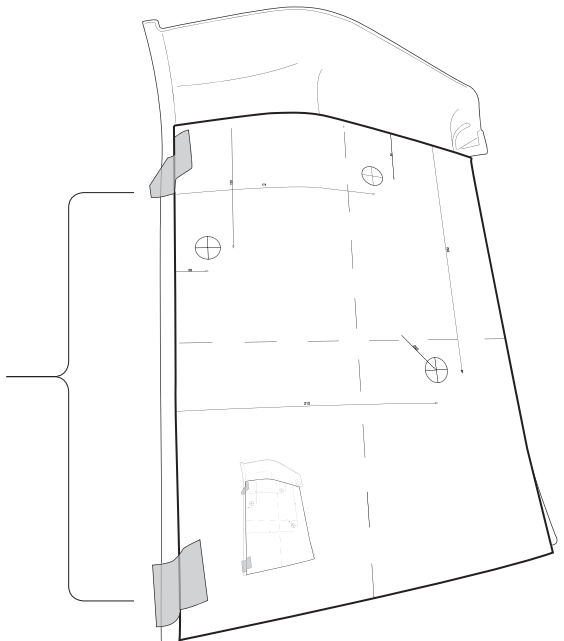
A3



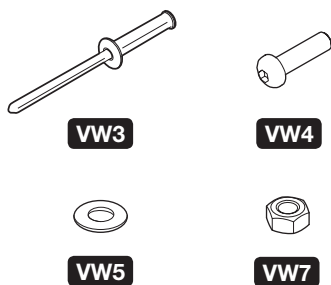
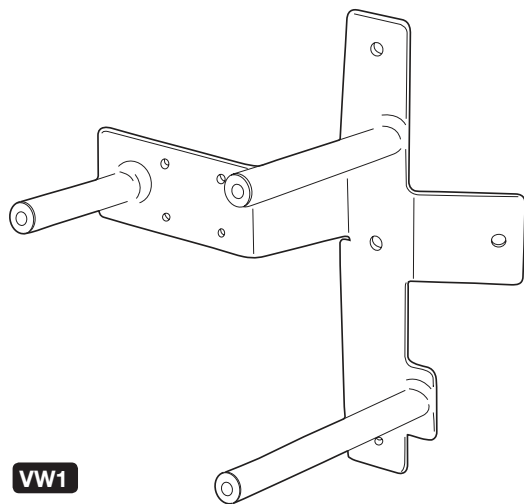
1. Cut the template at the cutting line, and place it so it flushes the lower edge of D-pillar cover.

Use tape to secure the template while marking up the holes.

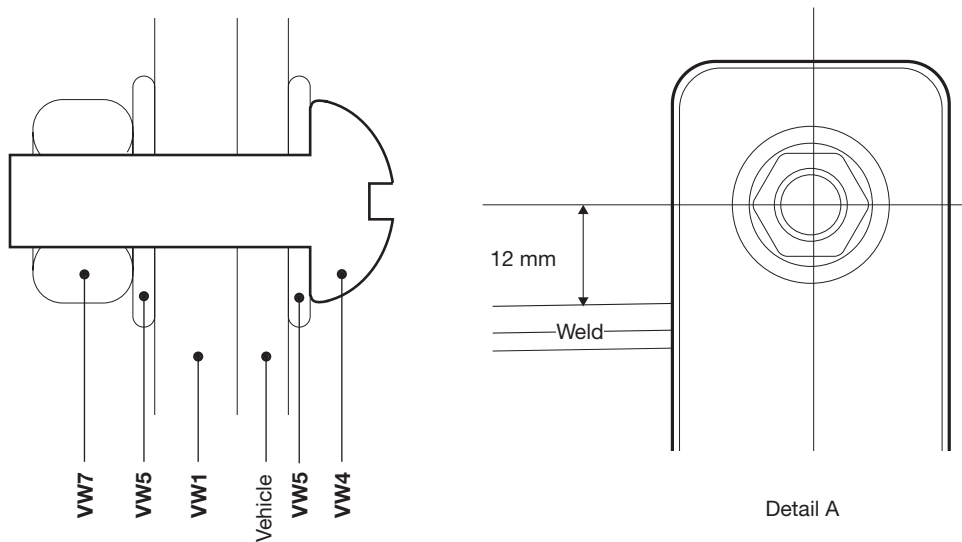
We recommend the use of a center punch to mark the holes, and afterwards remove the template to drill the holes (Ø22 mm).



Positioning of bracket VW1

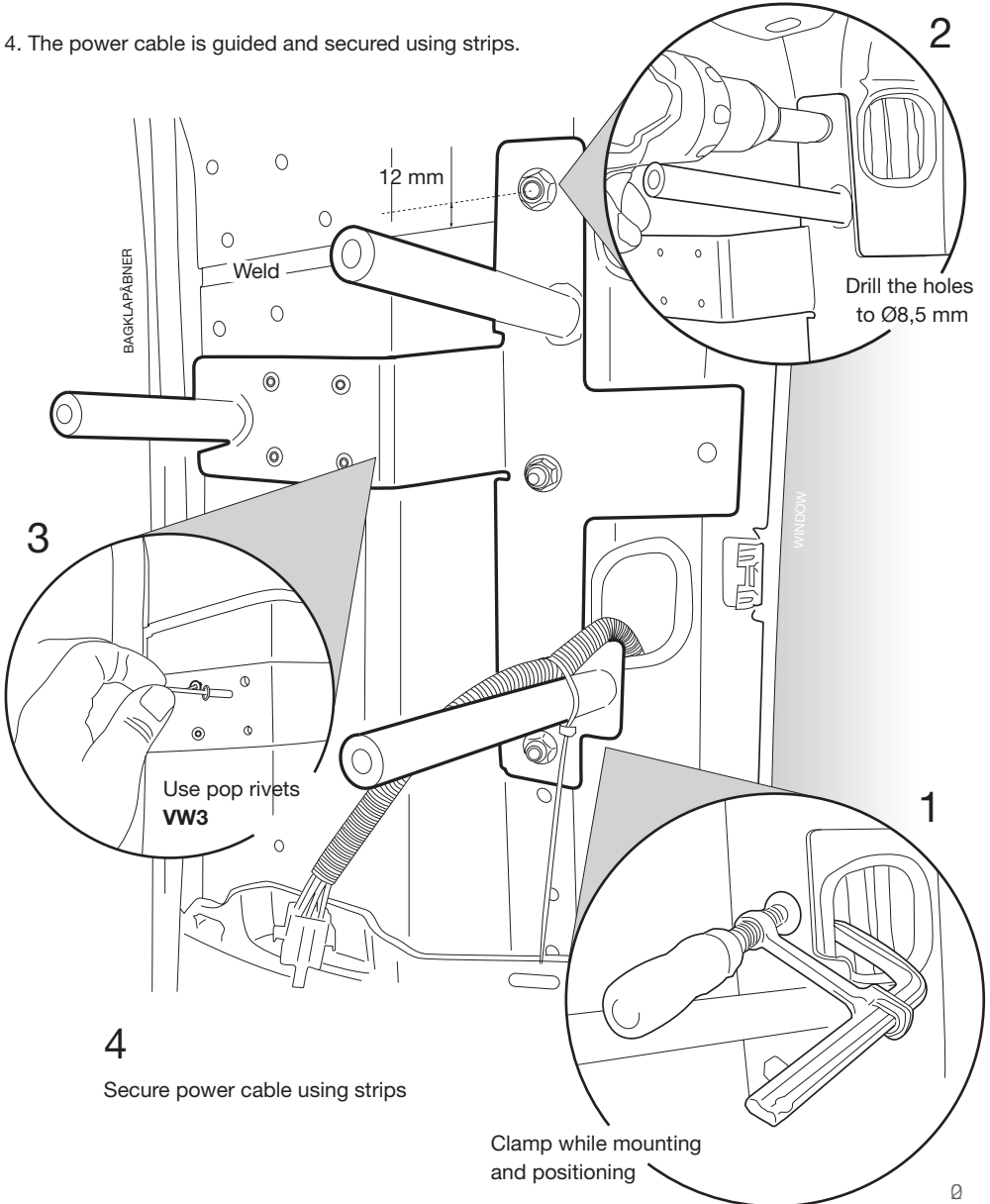


Bracket VW1 is clamped onto the exposed D-pillar and positioned so the center of the hole is 12 mm above the welding joint.



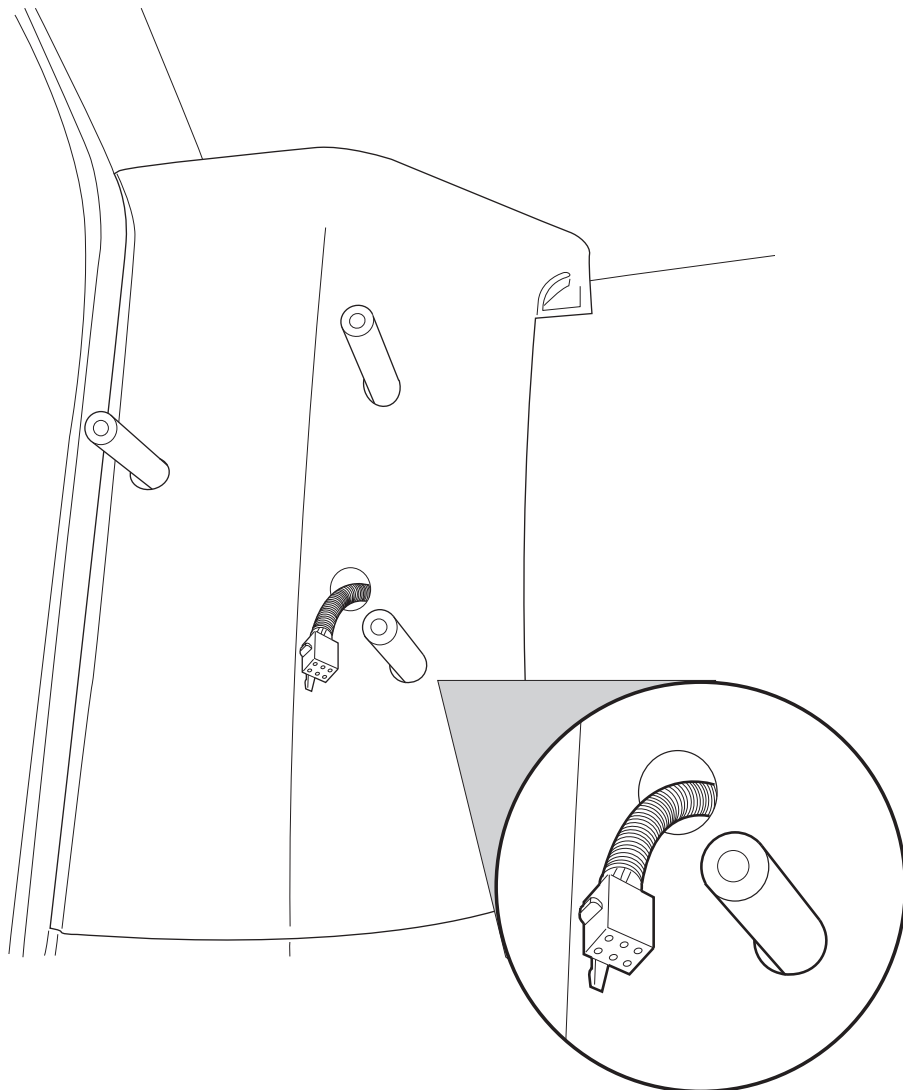
Mounting of bracket VW1

1. Bracket VW1 is clamped onto the exposed D-pillar and positioned as described on page 8.
2. When bracket VW1 is positioned, drill the 3 main holes to Ø8,5 mm, using **VW4**, **VW5** and **VW7**.
3. Drill the 4 holes to Ø5 mm and mount with pop rivets **VW3**.
4. The power cable is guided and secured using strips.

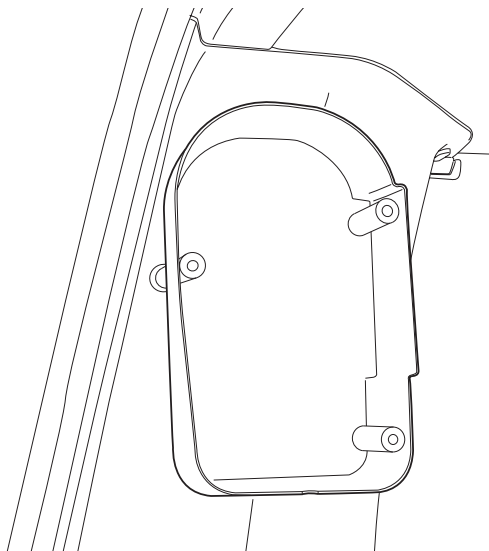


Mounting of D-pillar cover

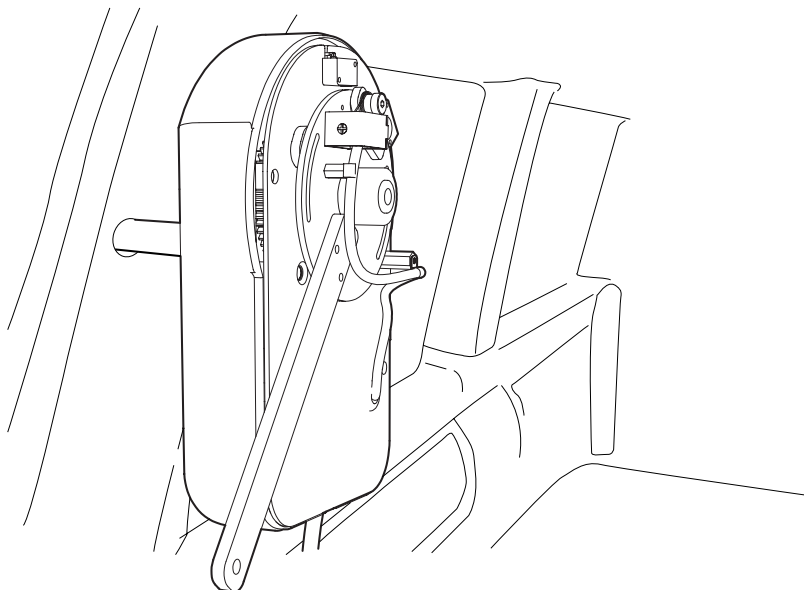
1. The D-pillar cover is remounted, exposing 3 arms of bracket **VW1**.
2. Drill a Ø22 mm hole to guide through the power cable.



1. The Handi HDO™ back cover is mounted onto the three exposed arms of bracket VW1.

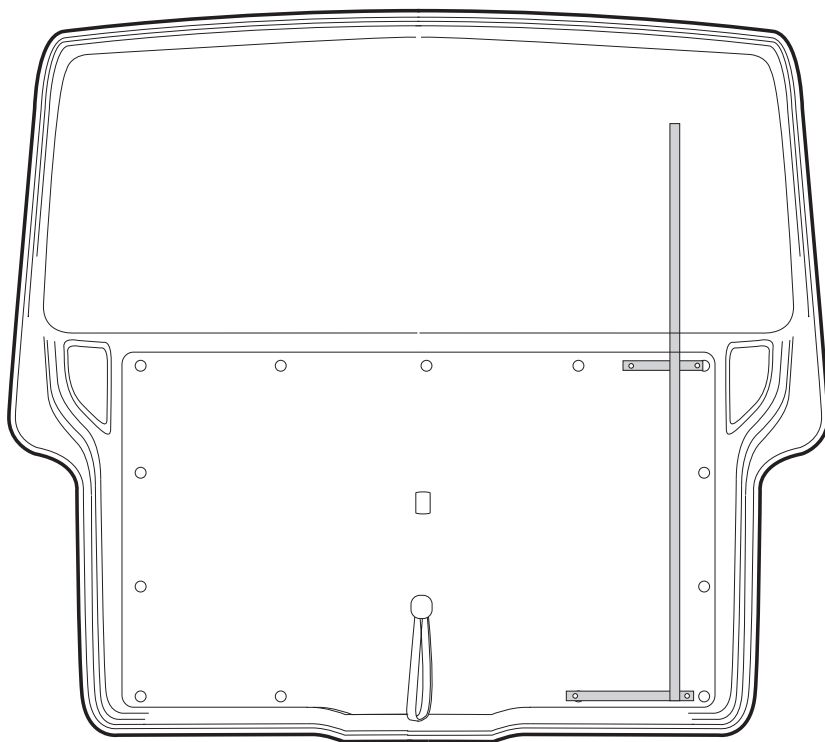


2. The Handi HDO™ motor unit is placed inside the back cover, without mounting the front cover. The hatch door bracket **VW2** is now ready to mounted.

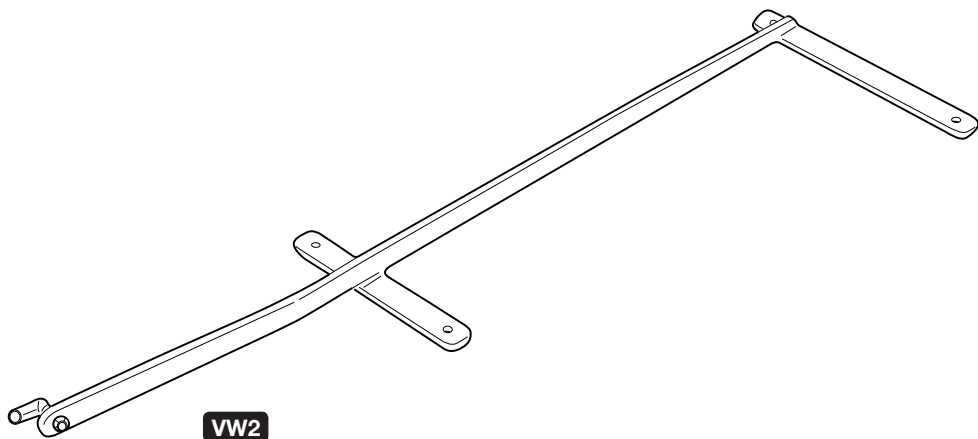


Positioning of bracket VW2

Bracket **VW2** is placed on the right side of the hatch door, looking from inside.

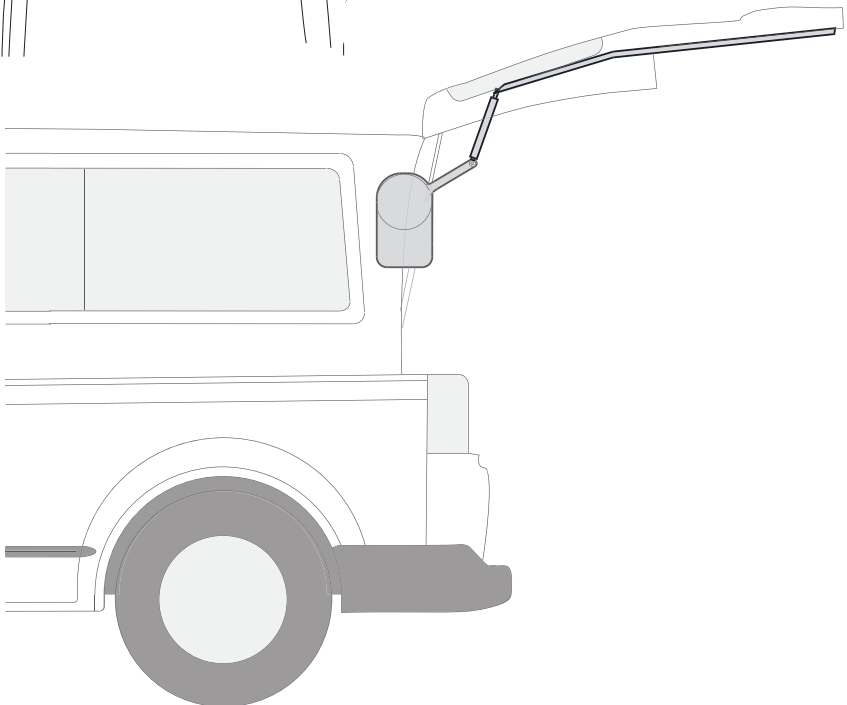
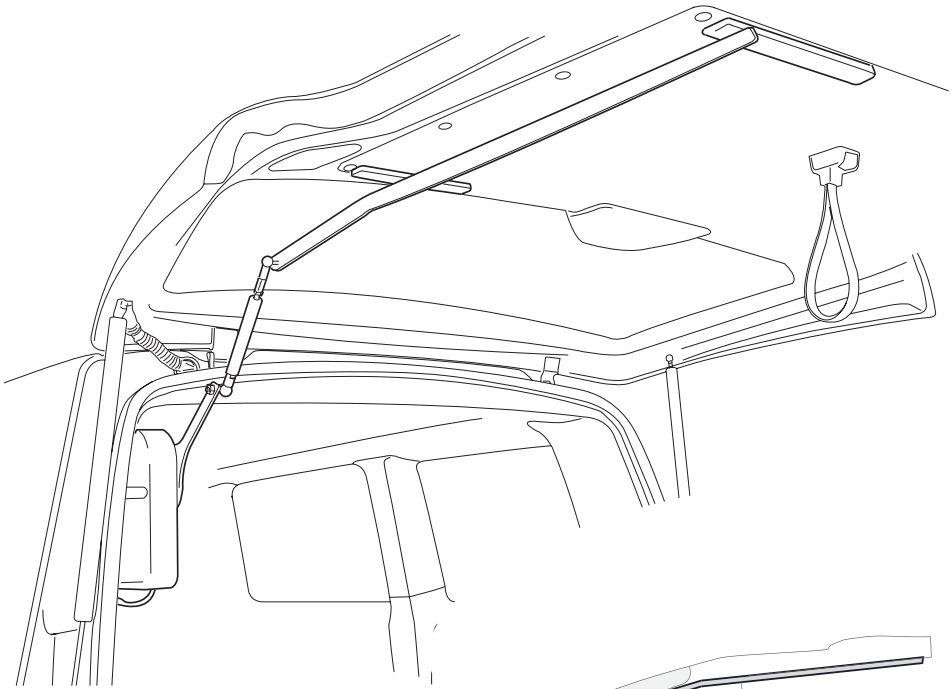


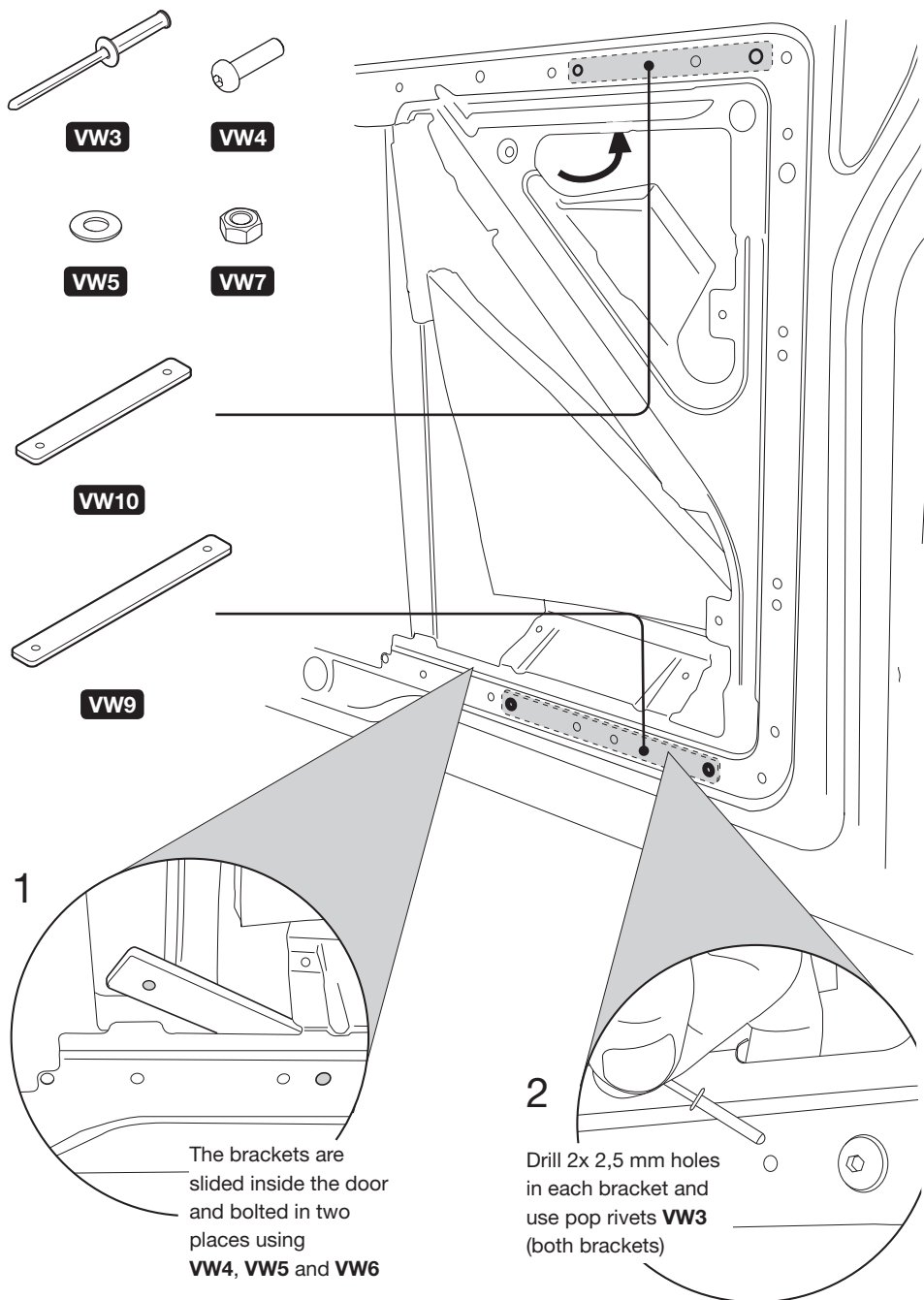
Hatch door inside view



VW2

Positioning of bracket VW2





VW3

VW4

VW5

VW7

VW10

VW9

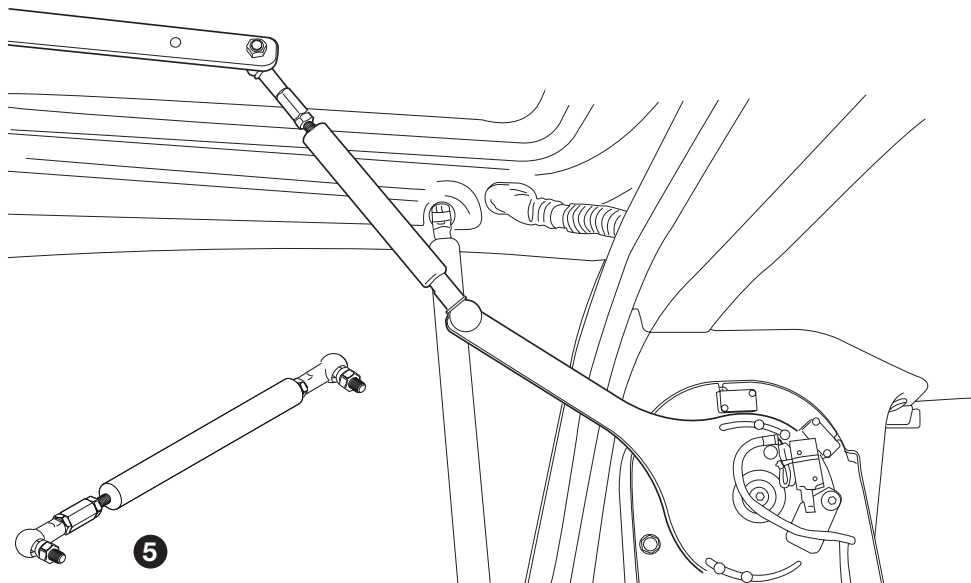
1

The brackets are
slided inside the door
and bolted in two
places using
VW4, VW5 and VW6

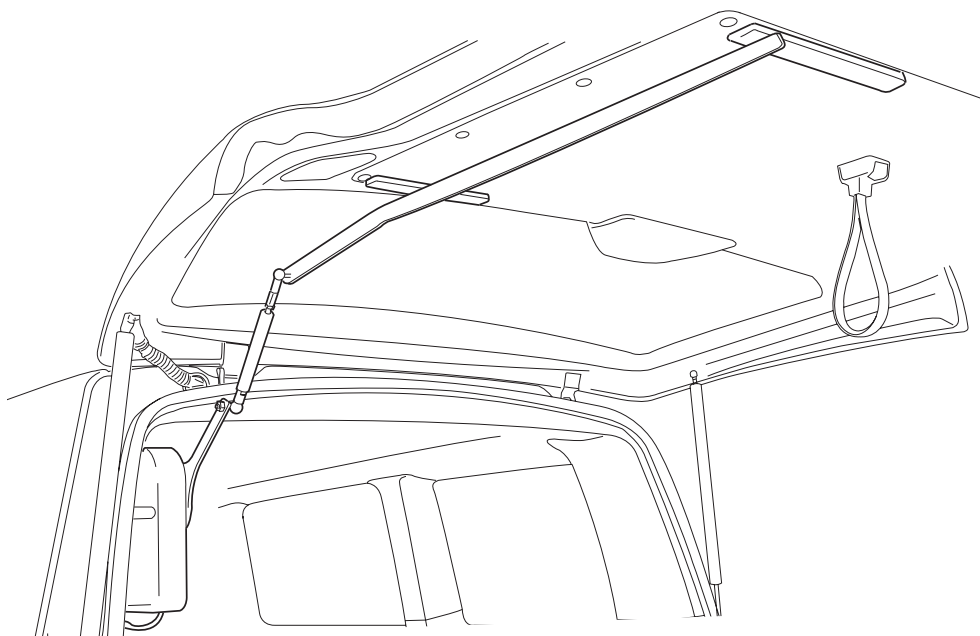
2

Drill 2x 2,5 mm holes
in each bracket and
use pop rivets **VW3**
(both brackets)

Mounting of bracket VW2

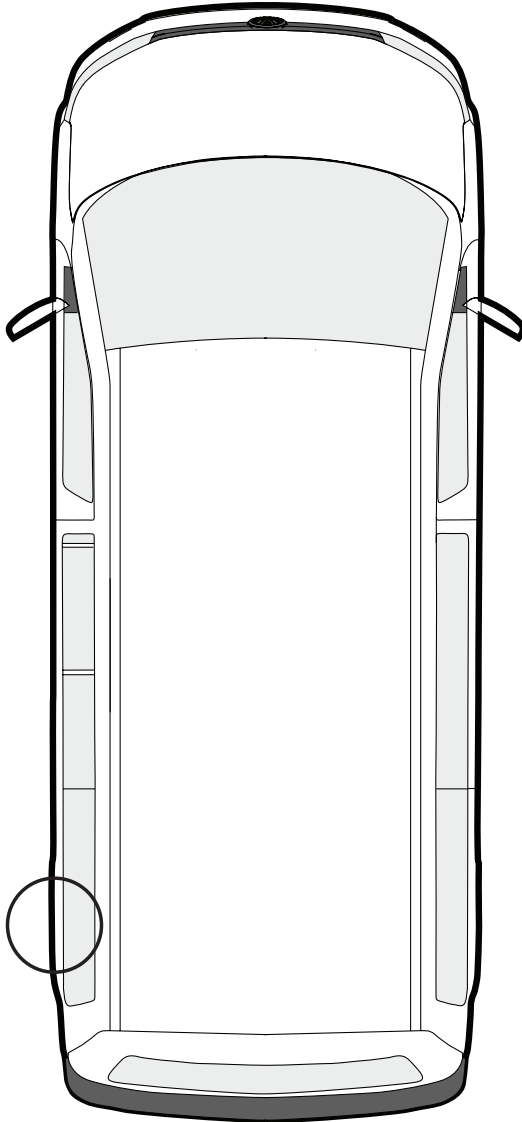


The rear door cover is remounted and **VW2** and the HandiHDO™ is connected using spring rod **5**.



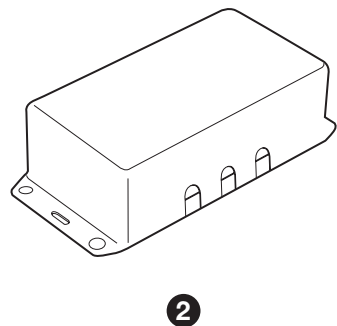
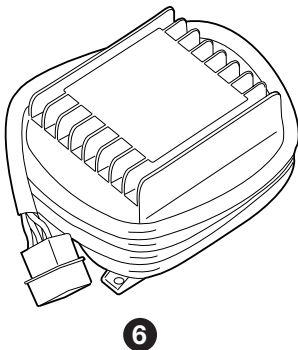
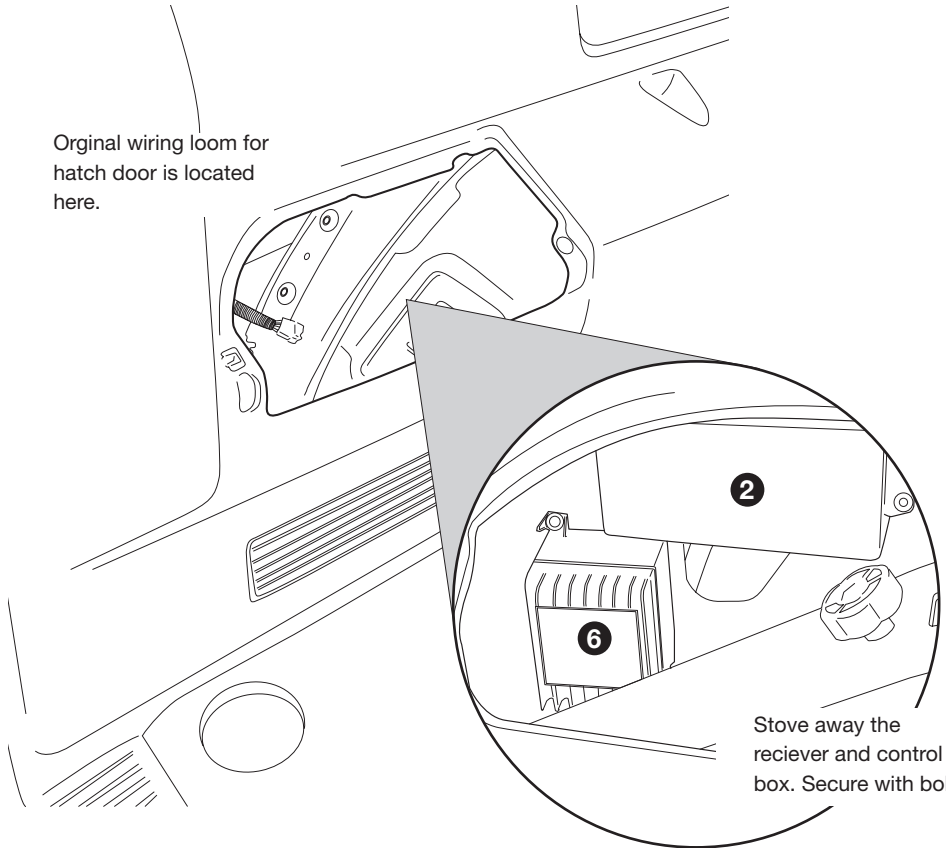
Mounting of CPU and wireless receiver

The control box and the wireless receiver is away inside the wheel arch covers.



Mounting of CPU and wireless receiver

Original wiring loom for hatch door is located here.



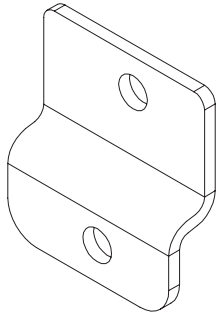
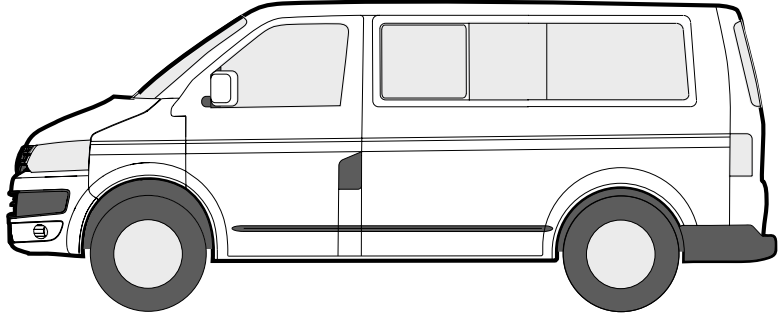
BRACKET KIT IN008-2-18

mobilityHDO™
HATCH DOOR OPENER

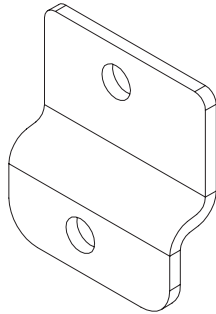
CLOSING BRACKET VW T5



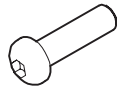
VW
T5



1

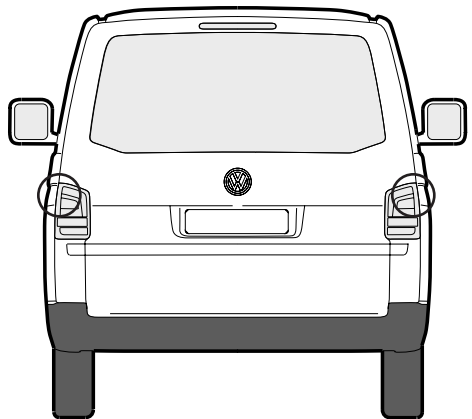


2



3

- 1 1x Bracket (Left)
- 2 1x Bracket (Right)
- 3 2x M6x25 mm Bolt



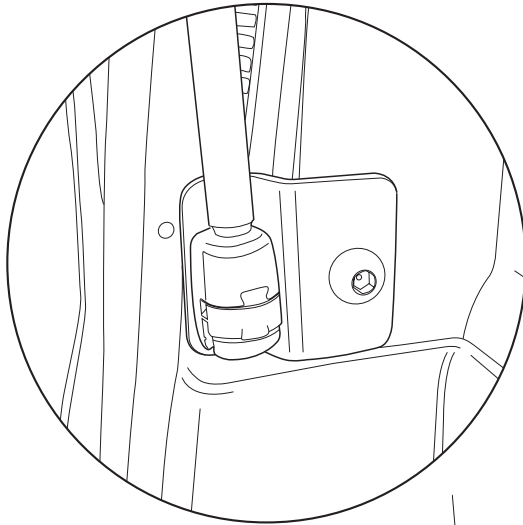
Left

Right

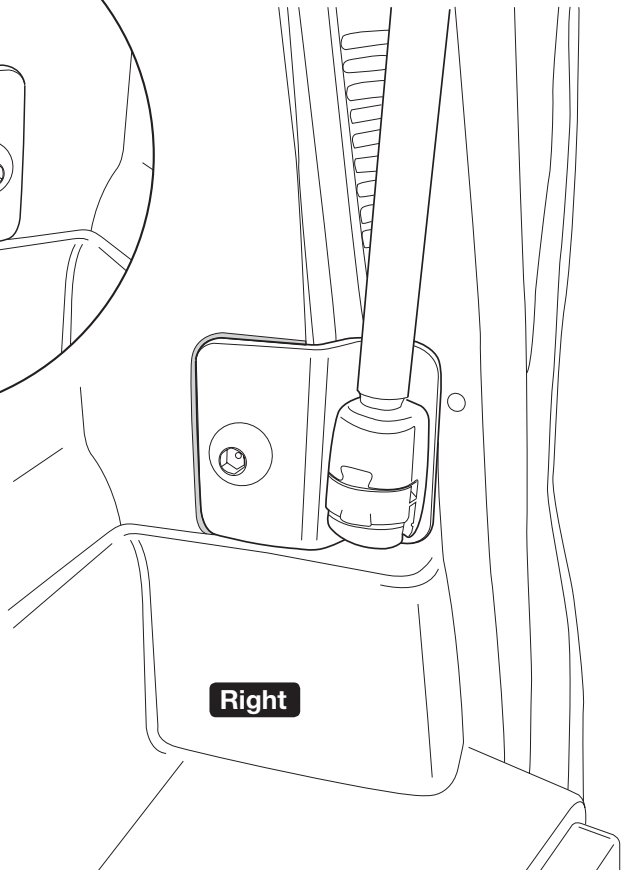
Mounting of brackets

The hatch door on VW T5 has shown difficult to close, when all the doors and windows are closed. This is due to the gas dampers operating in a nearly vertical position.

By removing the original brackets and attaching these modified brackets, the lower gas damper is moved 30 mm, which improves closing effect noticeable.



Left



Right

NOTE!

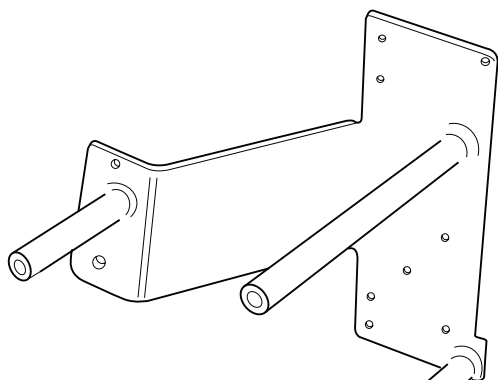
The two brackets differ!
Be aware of correction orientation!

Use e.g. SIKAFLEX® (marked grey)
between vehicle body and brackets.

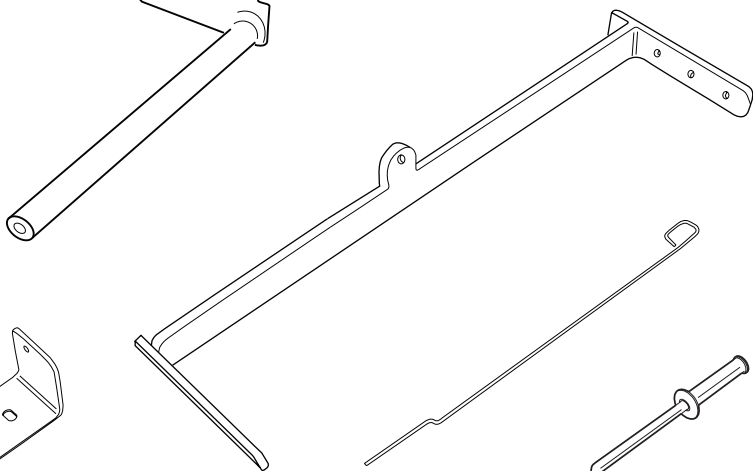
BRACKET KIT IN008-1-BRA

MERCEDES VITO / VIANO

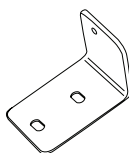
mobilityHDO™
HATCH DOOR OPENER



ME1



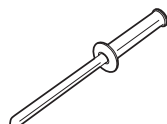
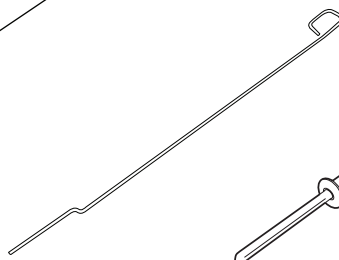
ME2



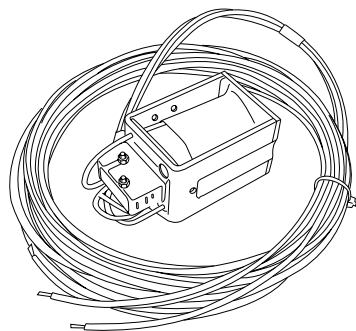
ME3

ME4

ME5



ME6

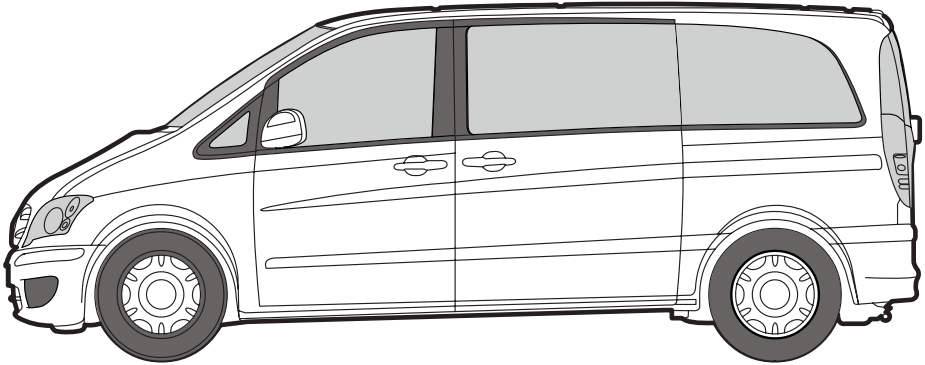


ME7

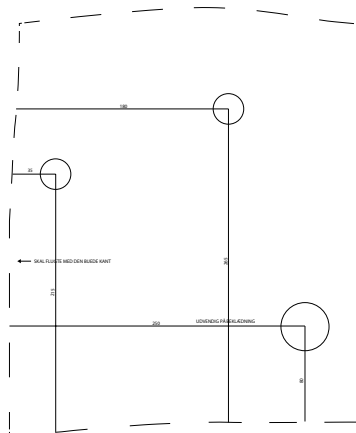
BRACKET KIT IN008-1-BRA

MERCEDES VITO / VIANO

mobilityHDO™
HATCH DOOR OPENER



Mercedes Vito / Viano



ME15

ME1 1x Mounting bracket for HDO

ME2 1x Bracket for HDO

ME3 1x Bracket for HDO

ME4 1x Hatch bracket for HDO

ME5 1x Rod

ME6 10x Pop rivets

ME7 1x M8 Spacer, large

ME8 1x M8 Spacer, medium

ME9 1x M8 Spacer, large

ME10 1x M8 Spacer, medium

ME11 1x M8 Nut

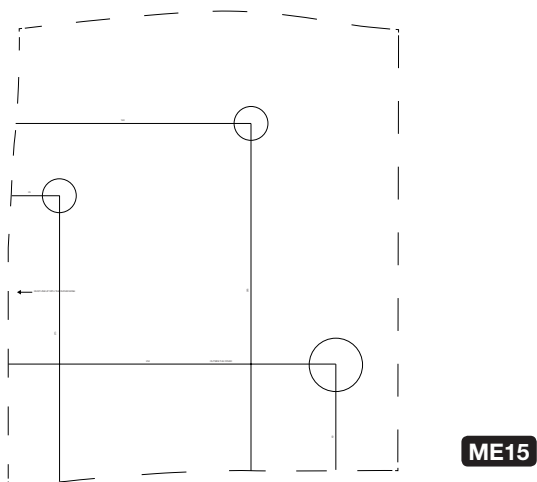
ME12 2x M6 Nut

ME13 4x M8 Bolt

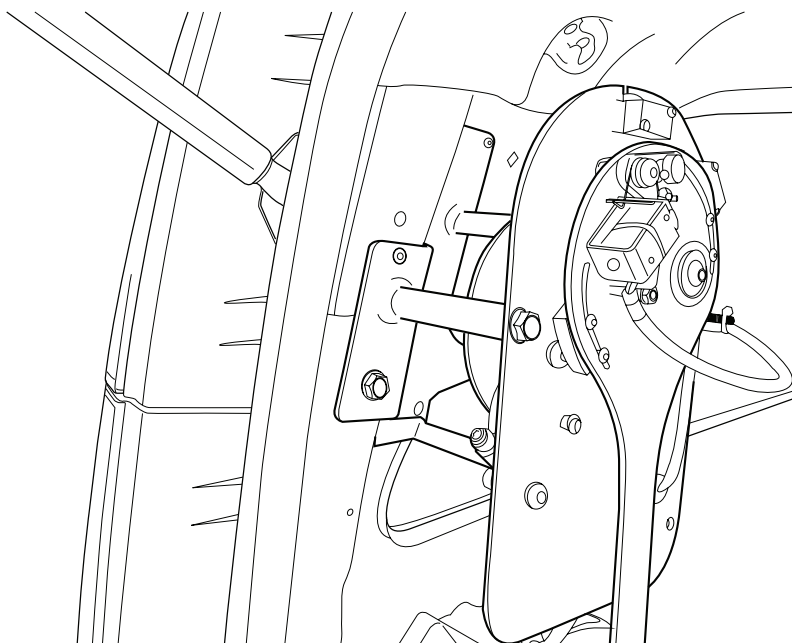
ME14 4x M3 Bolt

ME15 1x Mounting Template
Vito/Viano

Mounting of CPU and wireless receiver

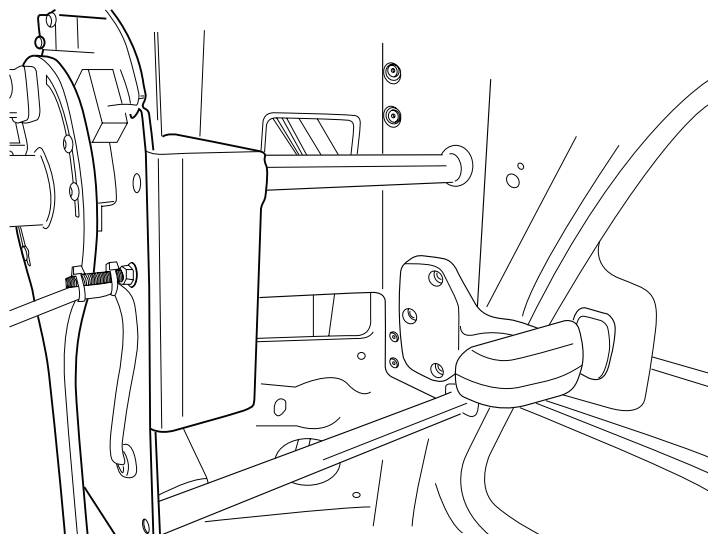


The mounting bracket is attached in the left D-pillar with help from the mounting template. Size of holes and position is found on the template.

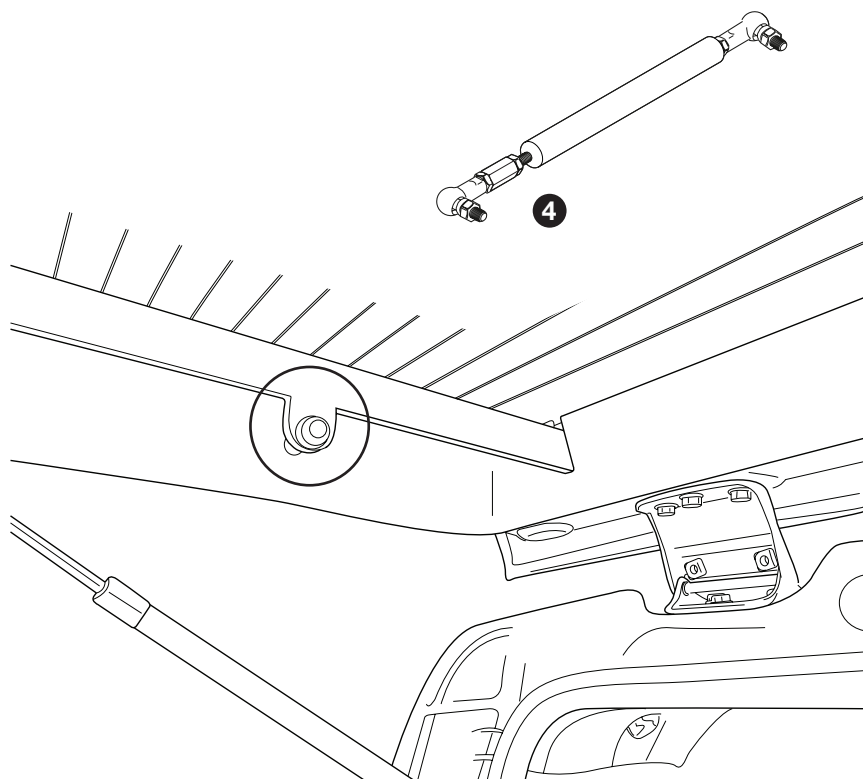


Mounting of brackets

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Attach the bracket and HDO unit.

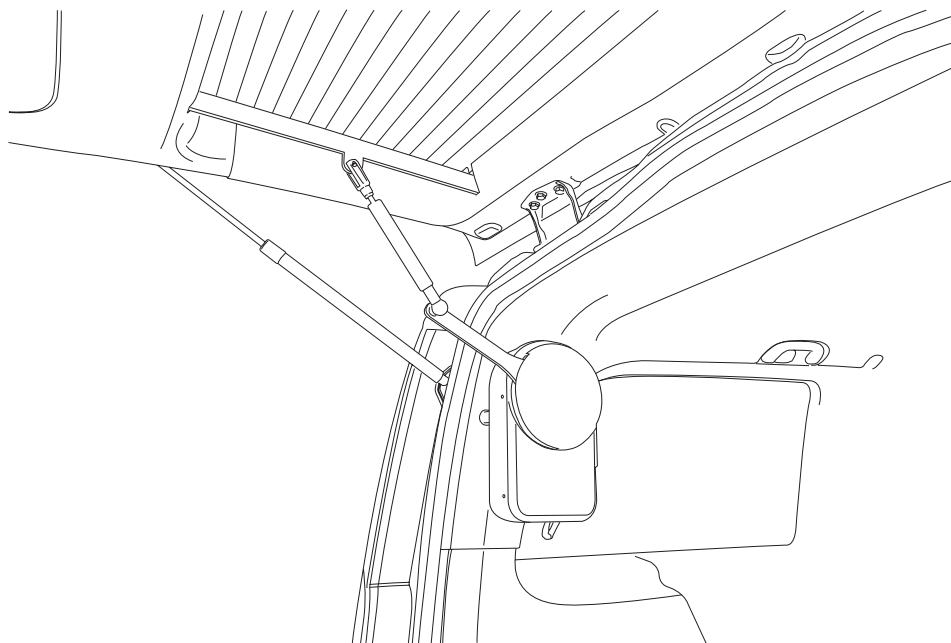
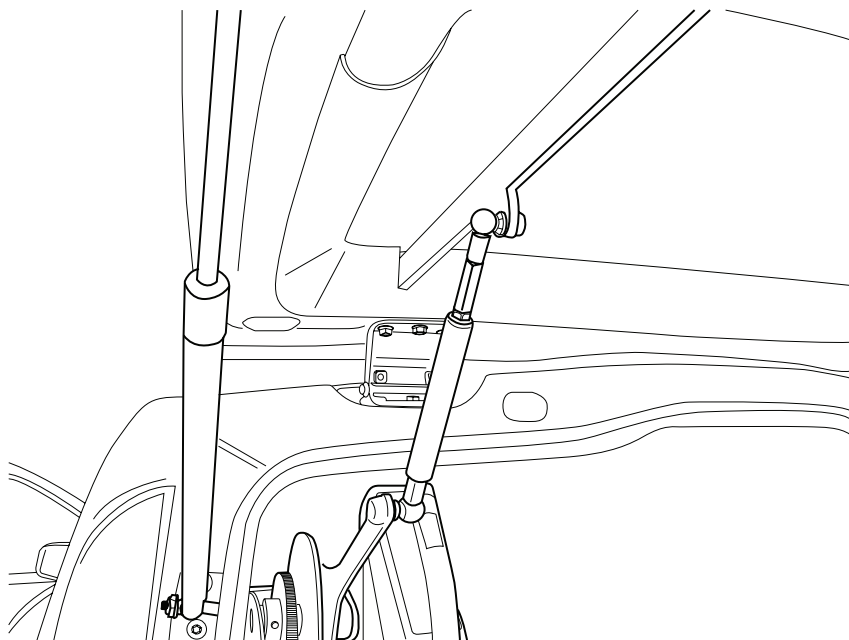


The hatch spring rod **4** is attached to the door opener, and the hatch door bracket.

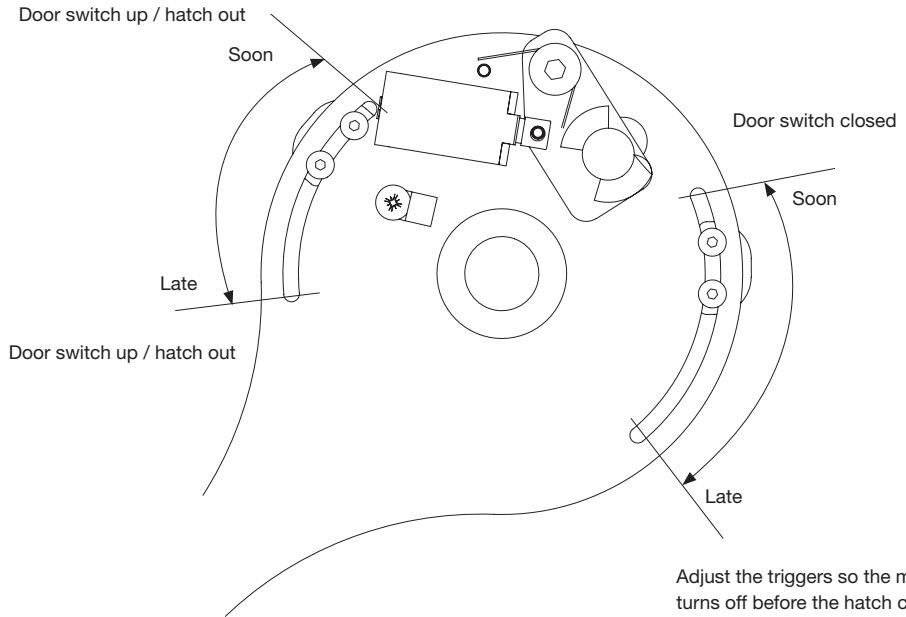
General

Adjustments and Connections

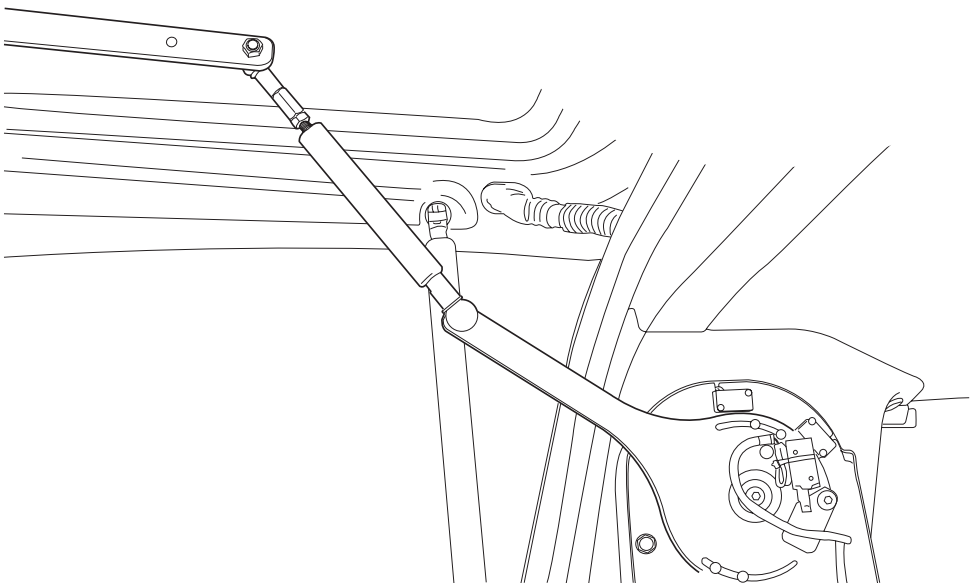
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Adjustment

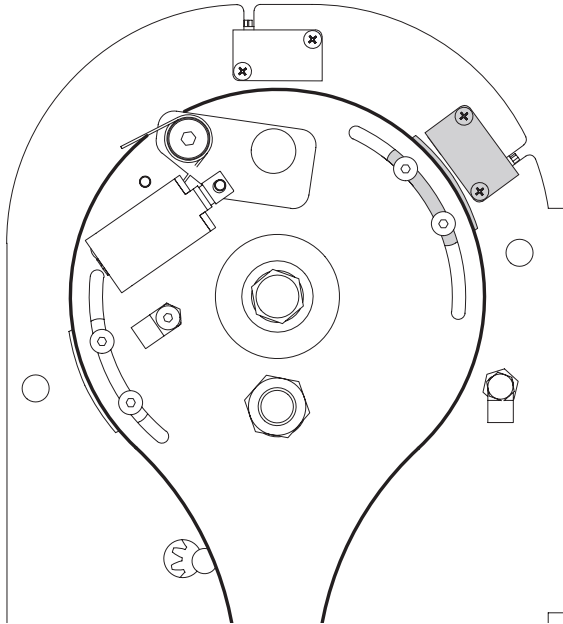


Adjust the triggers so the motor turns off before the hatch closes completely. This releases the motor from manual operations.

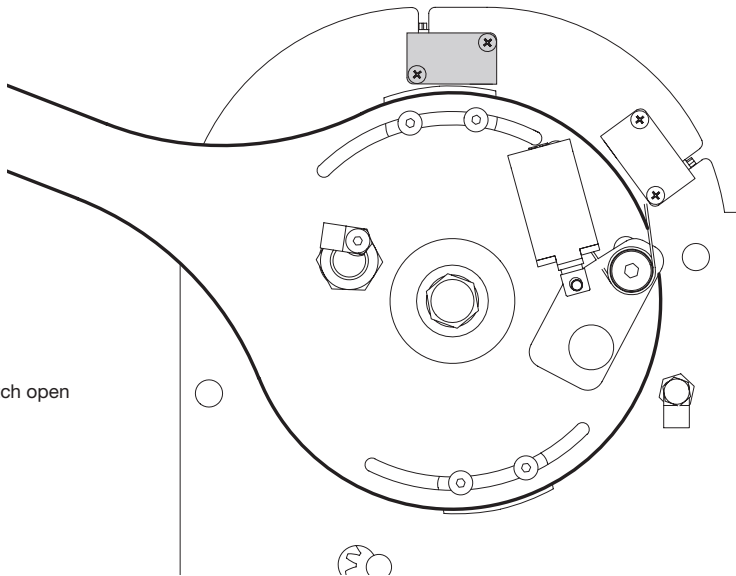


Adjustment

Hatch closed

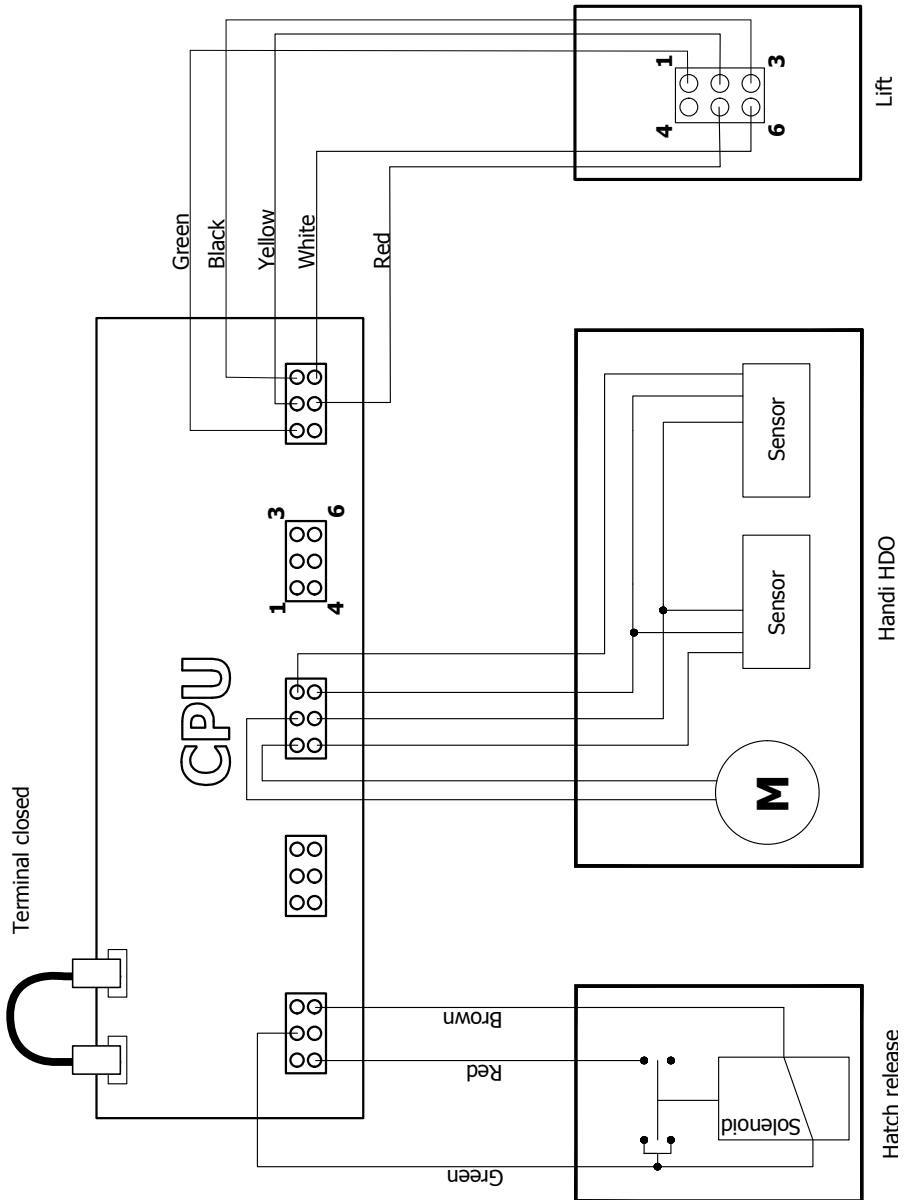


Hatch open



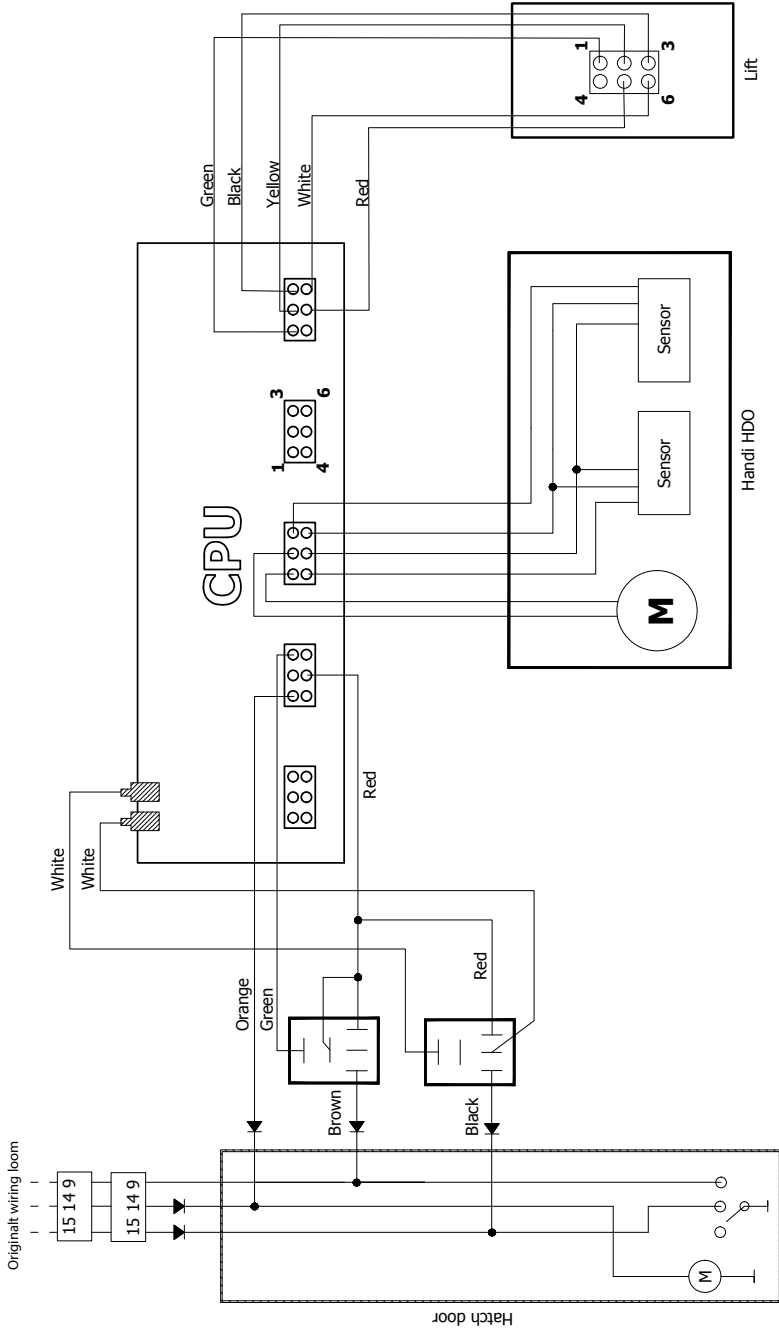
Wiring Diagram

Manual Hatch Release



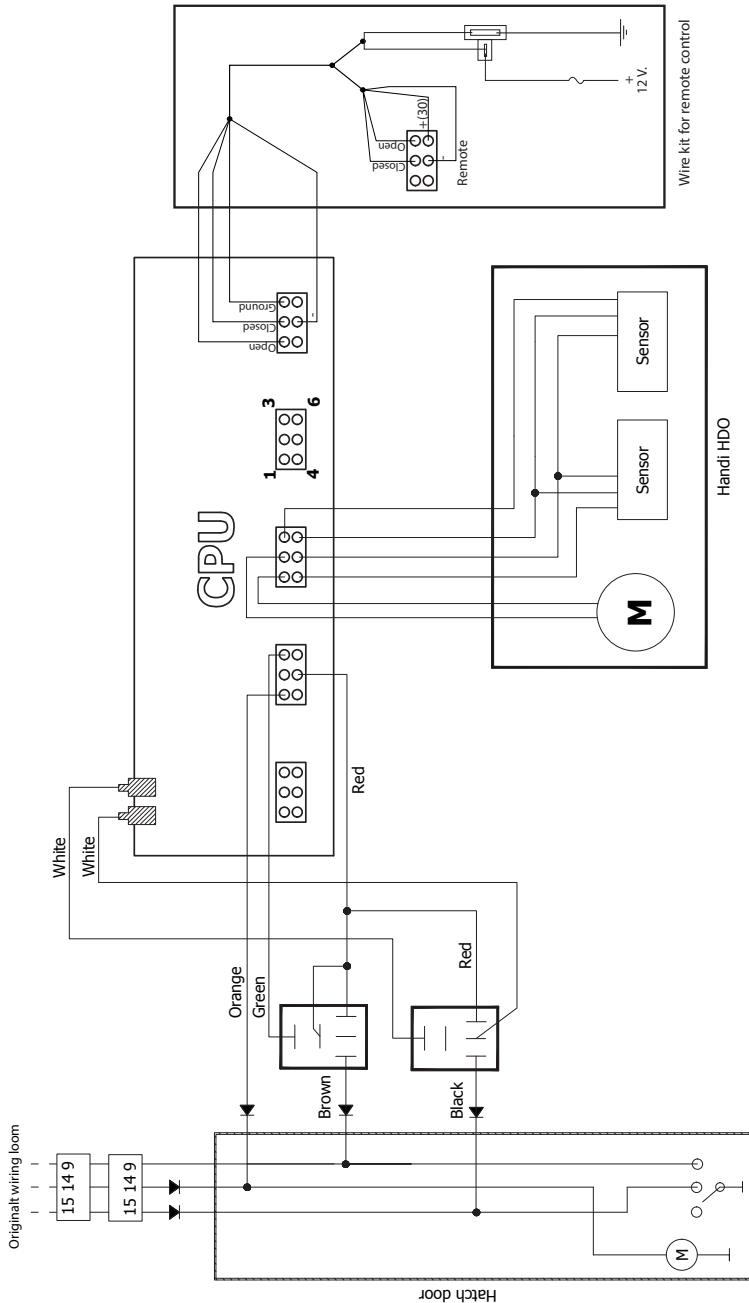
Wiring Diagram

Automatic Hatch Release (with lift)



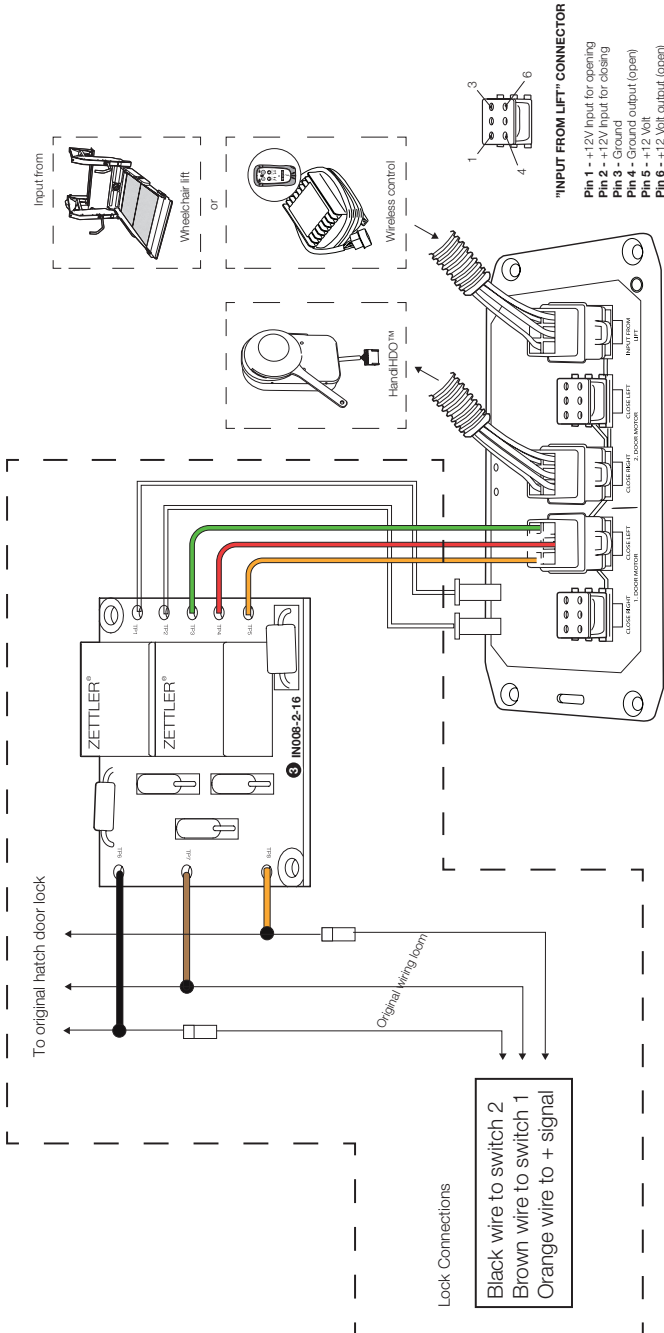
Wiring Diagram

Automatic Hatch Release (without lift)



Connection

Automatic Hatch Release



In vehicles The black and brown wires are spliced

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