

AUTOMATIC DOOR HANDLES MODEL 3 Refreshed 2021

INSTALLATION GUIDE



V. M3 APH21-MkII 00

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About this guide

Product descriptions

All specifications and descriptions of the products in this installation manual have been verified and tested at the time of writing and are valid for the respective version mentioned in the manual. We reserve the right to make modifications and improvements to the products at any time.

Errors and inaccuracies

If you notice any errors or inaccuracies in this installation guide or if you notice that some descriptions are not complete, please use the following e-mail for your feedback: feedback@amptech.store.

We are open to your recommendations and suggestions and will gladly accept them under the email.

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Safety information

The automatic handle was developed to enable convenient opening of the car doors. In any case, the safety instructions in this manual with the marking "⚠CAUTION:..." must be observed. In case of disregard of the safety instructions and resulting damages to the AMPTech components or even vehicle parts, the warranty claim as well as any liability for damages or consequential damages expires due to own fault (see GTC's on www.amptech.store/agb/, V. Liability). If you have any questions or problems with the automatic handle, please contact AMPTech by phone +49 40 60 77 34870 or by e-mail support@amptech.store.



Specifications

Below you will find more detailed information about the supplied components.

Technical data of the motor for the automatic handle

Motor for automatic handle	
Operating voltage	12 V Direct current
Maximum load capacity (Maximum Load)	100 N
Maximum speed	150mm/ s
Extension distance	30 mm
Akustische Emission	≤ 55 dB

Preparations

To ensure that the installation can be carried out quickly, tools required for the installation should be provided before starting. The required tools are listed below.

List of tools needed for the installation

Tool list	
Position	Designation
1	Needle nose pliers
2	Scissors
3	Plastic mounting lever
4	Ratchet / cordless screwdriver
5	Socket wrench set / nut
6	Cable tie / Velcro
7	Cutting tool (knife)
8	Torx set
9	Flashlight
10	Insulating tape
11	Rust protection/multi-purpose grease
12	Cable lubricant
13	Guide wire
14	Alubutyl
15	Current thief/T-piece

 Tip:

A commercially available toolbox contains many of the necessary tools

Please check the scope of delivery of the order before starting the installation.

List about the scope of delivery

Scope of delivery	
Position	Designation
1	1 Control unit
2	4 harnesses
3	4 motor plates with pushbutton
4	4 door handles
5	1 CAN Y connector with power cable
6	4 Spacer washers
7	4 iron tokens

After checking the scope of delivery and providing the tools, you can proceed with the installation instructions.



Installation guide

Before proceeding to the removal of the door panel, it is advisable to expose storage areas for the parts removed during the installation. In addition, it is helpful to store the clamps and screws that are removed, sorted.

These installation instructions describe the installation of the automatic handle on the two doors on the right-hand side of the vehicle in the direction of travel. On the left-hand side of the vehicle in the direction of travel, installation is identical and can therefore be carried out according to the same instructions.



Tip:

Start the installation at the driver's door.

Remove door panel

- Remove the tweeter with a plastic mounting lever by placing the plastic mounting lever below the speaker and levering it upwards (Figure 1)



Figure 1: Levering the tweeter

- Loosen the connector plug under the speaker. This is locked with a barb. To do this, lever the plug with a flat-blade screwdriver and pull the plug out at the same time (Figure 2)



Figure 2: Loosening the barb

- Lever out the reflector on the outside of the driver's door with a plastic mounting lever (Figure 3)



Figure 3: Removing the reflector

- Loosen all three screws (T27, Torx) used to secure the door trim. These are located in the places shown in Figure 4 and 5



Figure 4 (left), Figure 5 (right): To Door trim screws to be removed

- Slide a plastic mounting lever on the underside of the door under the door trim. Reach under the door trim with both hands one after the other and pull jerkily with both hands to release it. The door trim is hooked at the upper end. You can lift the door trim out upwards
- Pass the tweeter cable through the door panel grommet
- Remove the felt cover



Tip:

The felt cover is susceptible to cracking. Therefore, remove the felt cover carefully.

- Remove the Bowden cable from the device (Figure 6)



Figure 6: Retaining device of the Bowden cable

- Disconnect all plug connections along the wiring harness on the door panel. These are connected according to the barb principle (Figure 7)
- Disconnect the wiring harness along the plastic trim at the clamps from the plastic trim (Figure 7, outlined in yellow).
- Also disconnect the connector of the speaker and the connector of the airbag sensor (Figure 8). The connector of the airbag sensor is secured with a locking pin. Pull the locking pin down and then lever it to pull the connector out. Both plugs are located on the plastic trim on the door body.
- Remove the connector of the window pane motor (see Figure 7) after positioning the window panes

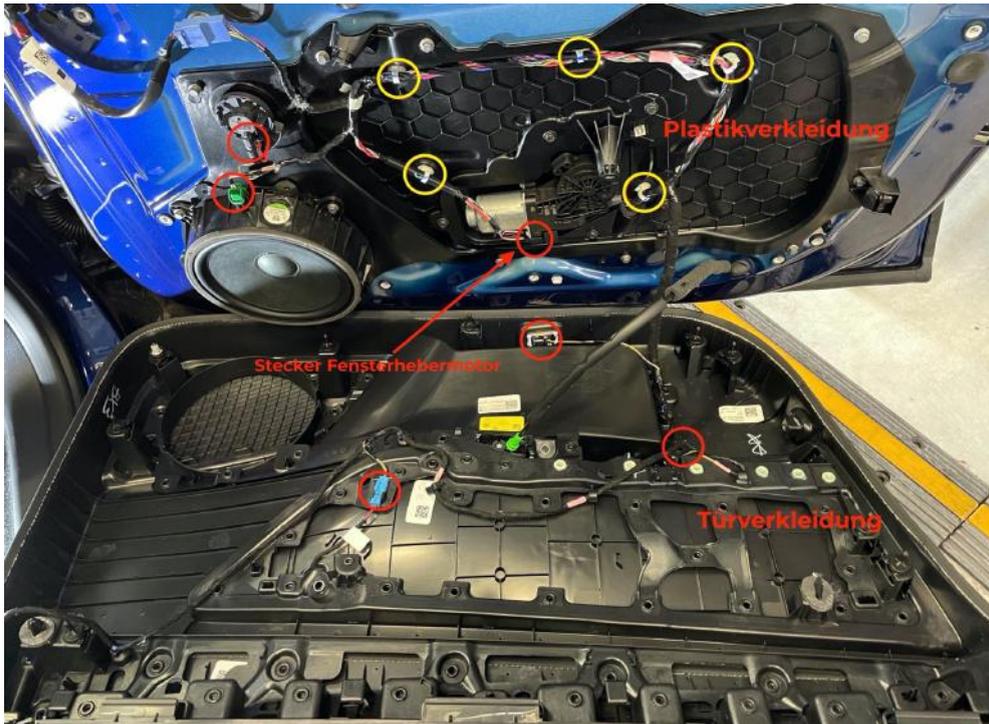


Figure 7: Connectors and terminals (passenger door)

 Tip:

To save yourself work, you can lower the window pane so that the screws in the window mount can be seen through the door body grommets (see Figure 11). To see the screws, the rubber seals must be removed (Figure 11).



Figure 8: Connector of the speaker (bottom) and the airbag sensor (top)

 Tip:

An additional plug must be removed from the driver's door. You can see the plug in Figure 10.

- Disconnect the connector below the tweeter that has already been removed (Figure 9). This connector must also be disconnected from the rail below it



Figure 9: Connector below the tweeter

Dismantle window pane

- Connect the connector of the window motor (Figure 10). Note: This step must be performed if the installation was started on the driver's door

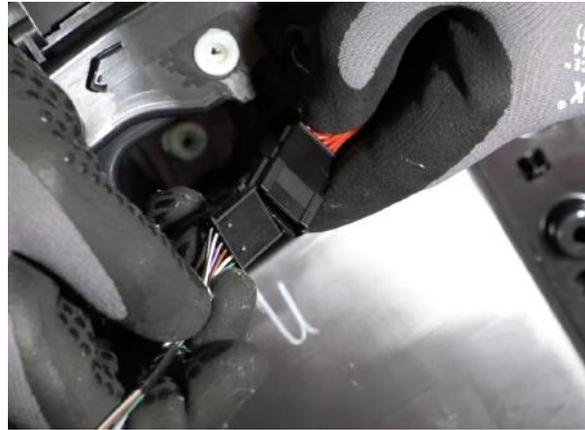


Figure 10: Window motor connector (driver's door)

- Remove the two rubber seals on the door (Figure 11). Depending on the position, the window pane itself or the frame of the window pane can be seen behind the rubber seals



Figure 11: Rubber seals (driver's door)

- Position the window pane so that both screws in the window pane socket can be seen through the openings (Figure 13)
- Disconnect the window pane motor connector. You can place the door panel on an exposed storage surface

 Tip:

Mark the position of the window pane (e.g. with insulating tape). This allows you to reset the window pane to the same position later.

- Loosen the window seal. To release the tab, grasp the bottom edge and pull on the tab. Once the tab is released, lift the window seal out upwards (Figure 12).



Figure 12: Window seal (driver's door)

- Loosen both screws (14mm, hexagonal) from the two sockets of the window pane (Figure 13). You can see the screws through the two bushings from which you have removed the rubber seals (Figure 11), provided that you have moved the window pane to the appropriate height.

 ATTENTION

After the connector of the LED for the entry light has been disconnected, the window moves higher than normal. The door must therefore no longer be closed. This prevents the window pane from hitting the window strip when the door is leaned against it!

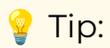
 ATTENTION

A second person should always be called in to remove the window panes! Please note that the window panes are double-glazed on the front two doors of the Refresh Model 3.



Figure 13: Removing the screws in the window frame

- Carefully lift the window pane out of the door and place it on a safe shelf (Attention: double glazing on the front two doors! Carefully lift the window pane out of the door body).



Tilt the window pane in the direction of curvature when lifting it out.

Remove plastic trim from the door

- Remove the five screws (8mm, hex) around the window motor to loosen it from the plastic trim behind it (Figure 14)

ATTENTION

The screws of the window regulator motor may only be unscrewed on the front two doors (driver and passenger door)! The window regulator motors of the rear doors form a unit with the plastic panels of the doors and must not be unscrewed under any circumstances!



Figure 14: Window motor screws to be removed (on the front doors!)

- Push the fuse clamp out of the holder (Figure 15)



Figure 15: Fuse terminal

- Loosen all 12 screws (8mm, hexagonal) of the plastic trim (Figure 16). The plastic trim is secured in the door body at the upper left and right edges, each with a safety clip. Pull out the plastic trim at the upper left and right edges with a jerk and feed the wiring harness through the opening in the plastic trim. Remove the plastic trim and place it on a parking surface

 ATTENTION

The window motor remains in the door!



Figure 16: Plastic trim screws to be removed

Modify door handle unit

- First remove the door handle assembly
- Disconnect the plug of the door handle (Figure 17). To do this, pull the locking pin down to release the fuse. Then lever the securing pin and pull out the plug. The door handle plug is connected to the bottom of the door handle holder. Insert your hand into the door body and orient yourself by looking through the grommet

ATTENTION

The scope of delivery includes 4 spacers. Use 2 spacers each to keep the window pane away from the door handle unit in the front doors. To do this, slide 2 spacer washers under the washer of the screw located at the height of the door handle and tighten them when inserting the window pane. The other screw of the front window pane can be screwed tight without the spacer washer. Place the other 2 spacers under the washer of the screw in the passenger door at the level of the door handle.



Figure 17: Door handle plug

- Loosen the three nuts (10mm, hex) that secure the door handle bracket to the door body (Figure 16)



Figure 16: Door handle screws to be loosened

- Access to the respective nuts is gained through the feedthroughs and marked path shown in Figure 17. Use an extension for the ratchet for loosening



Figure 17: Feedthroughs

- Push the door handle into the door body from the outside and hold the door handle from the inside with your hand

- Detach the marked rail from the door handle bracket (Figure 18) The rail is held to the bracket with four barbs (Figure 19). The barbs can be loosened on the back of the bracket



Figure 18: Door handle rail

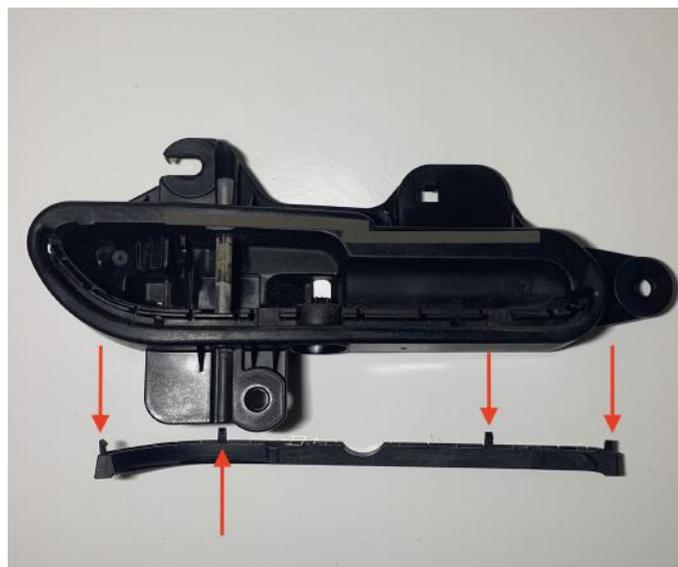


Figure 19: Barb of the door handle rail

- To release the door handle from the shell, push the pin out from the bottom to the top (Figure 20). Note the two plastic lugs at the upper feed-through point of the pin. These must be pressed outwards while the pin is pressed upwards



Figure 20: Direction of force for removing the retaining pin

- Remove the door handle and loosen the spring arms at the mounting points
- Place the spring on the new door handle (Figure 21). Make sure that the spring arms are tensioned again at the pick-up points



Figure 21: Placement of the spring

- Loosen the screws of the sensor connection on the door handle bracket (Figure 22)

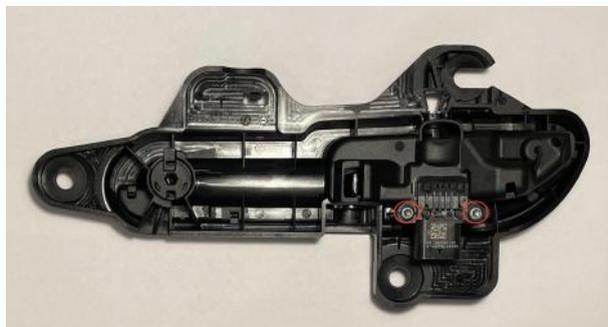


Figure 22: Screw connections of the connection

- Remove the small rubber plug on the bracket (Figure 23, right marking) and insert the connector of the

- new door handle through the grommet in the door handle holder (Figure 23, left marking).

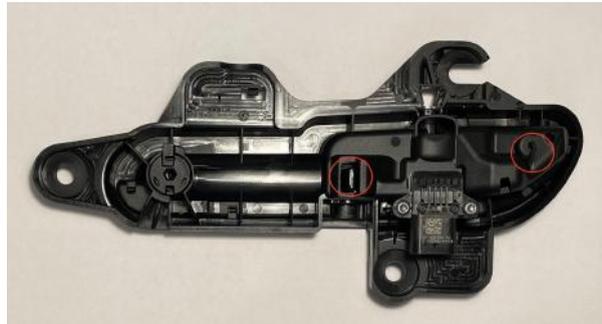


Figure 23: Removing the rubber plug and cable guide

- Apply grease to the grommet and the back of the motor unit (Figure 25 and 26) and thread the motor bowden wire through the grommet left by the small rubber plug in the door handle bracket (Figure 24)



Figure 24: Bowden cable guide

 Tip:

Due to manufacturing tolerances, it may occasionally occur that the Bowden cable head does not fit through the hole in the door handle shell. In this case, you can slightly widen the hole with a screwdriver with a larger diameter.

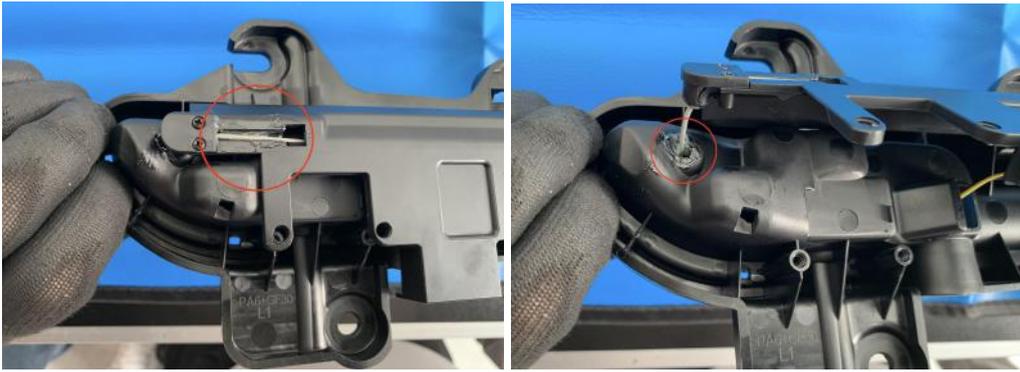


Figure 25 (left) and 26 (right): Applying grease

- Insert the Bowden cable head into the fixture on the new door handle (Figure 27)



Figure 27: Attaching the Bowden cable to the holding device

- Place the door handle in the door handle holder and push the end of the spring into the device on the door handle holder (Figure 28)



Figure 28: Door handle retainer for the spring

- Push the centering pin back in a little and test the door handle mechanism
- Remove the damper in the door handle shell and replace it with the button of the motor plate (Figure 29)

 Tip:

Use grease at all friction points of the Bowden wire.

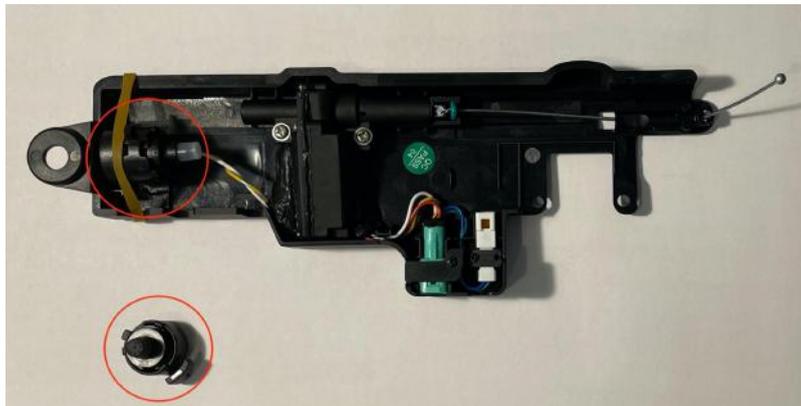


Figure 29: Damper (bottom) and pushbutton (on the motor plate)

 ATTENTION

Do not remove the milky sealing head on the probe in any case, otherwise the tightness of the probe will be lost.

- Release the damper on the Tesla door handle shell by pushing it down and turning it counterclockwise (Figure 30)

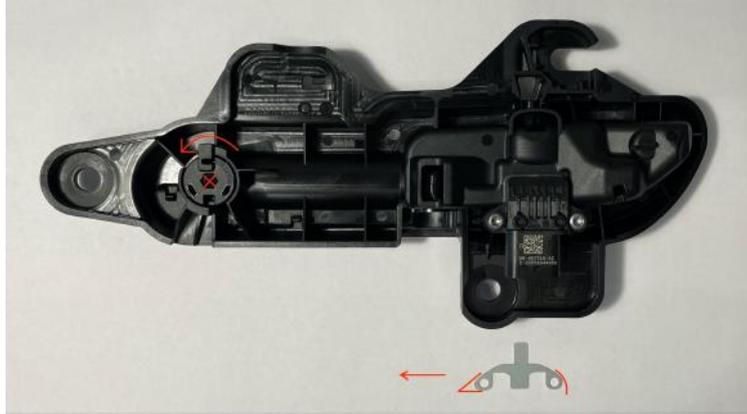


Figure 30: Removing the damper and aligning metal plates.
(The metal plate must not be inserted into the Made in China vehicles).

- Connect the plug of the door handle into the white colored connector on the motor (Figure 29)
- Apply grease to the bowden cable head in the retaining device
- Press the rail underneath the door handle back into the door handle holder so that the barbs engage
- Place the metal plate from the scope of delivery under the unscrewed plug connection (Figure 31) and screw on the plug together with the motor plate. Pay attention to the alignment of the metal plate (Figure 31). **(Skip this point for vehicles from China).**

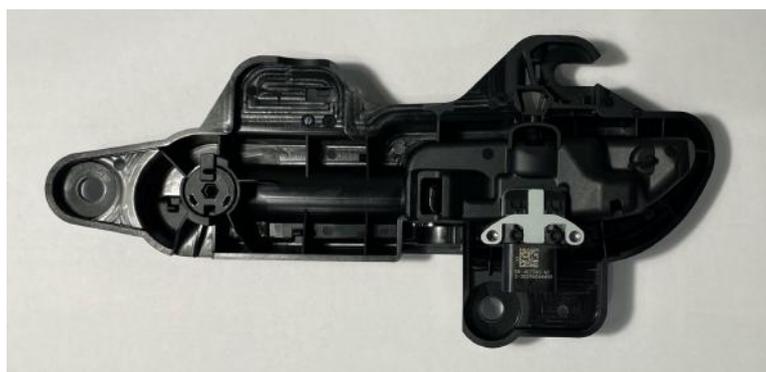


Figure 31: Alignment metal plate

- Insert the modified door handle unit and fasten it with the 3 nuts
According to this scheme, the other door handles of the car are also modified.

Wiring

- A cable is included for each door
- For orientation: The control unit is mounted under the carpet trim in the passenger footwell
- All cable harnesses are color-coded. **This applies in the direction of travel:**
 - **Red:** Front left door
 - **Yellow:** Front right door
 - **Green:** Rear right door
 - **Blue:** Rear left door



Figure 32: Color marking "red"

- For the wiring of the passenger door the yellow marked cable is used
- First you need to disassemble some interior panels
- Remove the plastic cover between the dashboard and the door. Lever on the upper end of the plastic cover with a plastic mounting lever and then lift the plastic cover out upwards (Figure 33, mark "1")



Figure 33: Lateral interior trim

- To remove the baseboard cover, loosen the safety clip (Figure 34). This appears after you have removed the cover marked "1" in Figure 33



Figure 34: Fuse terminal

- Remove the skirting board trim by levering the skirting board in the area of the door by hand and after it has come loose pull it towards the rear of the vehicle



Figure 35: Pin clamp B-pillar trim

- Loosen the pin clamp of the B-pillar trim (Figure 35)
- Loosen the fasteners of the footwell trim on the driver's side (Figure 36). The trim is fixed with two plastic clips and two Torx screws (T20)



Figure 36: Footwell trim fasteners

- Loosen the fairing in the left figure (Figure 36)
- The cables of the doors on the driver's side are held by the footwell trim after removal (Figure 37)

 **ATTENTION**

The cables must be routed along in front of the pedals!



Figure 37: Cable routing along the driver's footwell

- Loosen the carpet trim of the center console. To do this, go under the center of the carpet trim with a plastic lever and

- pull out the casing. This is only fastened with clamps (Figure 39)



Figure 38: Carpet lining

- After this trim is released, you will see a grommet under the center console (Figure 39). This grommet is used for the cables of the left side of the vehicle



Figure 39: Center console feed-through

- The same panels are also removed from the passenger side
- The passenger footwell trim is secured with four pin clamps (Figure 40)



Figure 40: Passenger footwell trim

- Disconnect the panel and the connection of the LED and the speaker



- To gain better access to the on-board computer, loosen the panel below (Figure 41). This is fastened with two Torx screws and a pin clamp. Once these have been loosened, pull the cover off downwards



Figure 41: Passenger footwell trim

- Now, using the retraction aid and the cable lubricant, guide the corresponding cable with the green-colored plug from the interior through the vehicle body, through the cable conduit into the door body (Figure 42)



Figure 42: Cable routing (passenger side)

- Pull the cable in far enough so that you can run the cable along the OEM cable bundle to the connector plug on the door handle shell (Figure 43/44/45)



Figure 43: Cable routing inside the door body

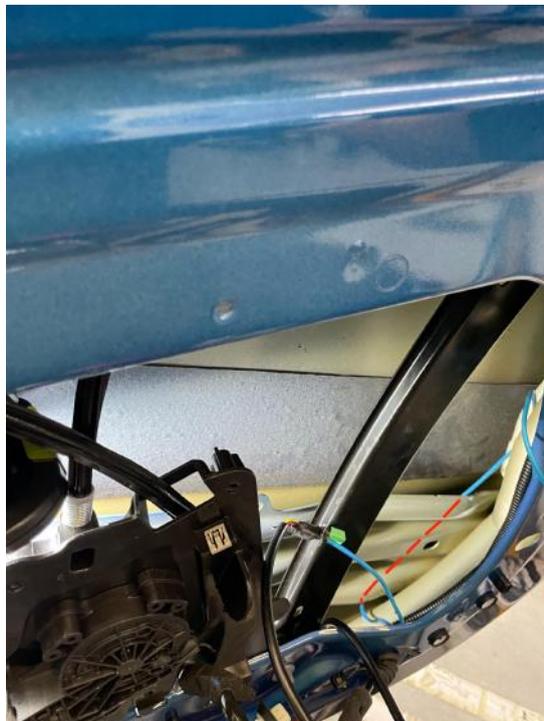


Figure 44: Cable routing inside the door body

- Guide the cable behind the rail upwards to the door handle shell and connect the plug. The mating connector on the motor plate is also green. The pull-in aid can be used for threading behind the rail

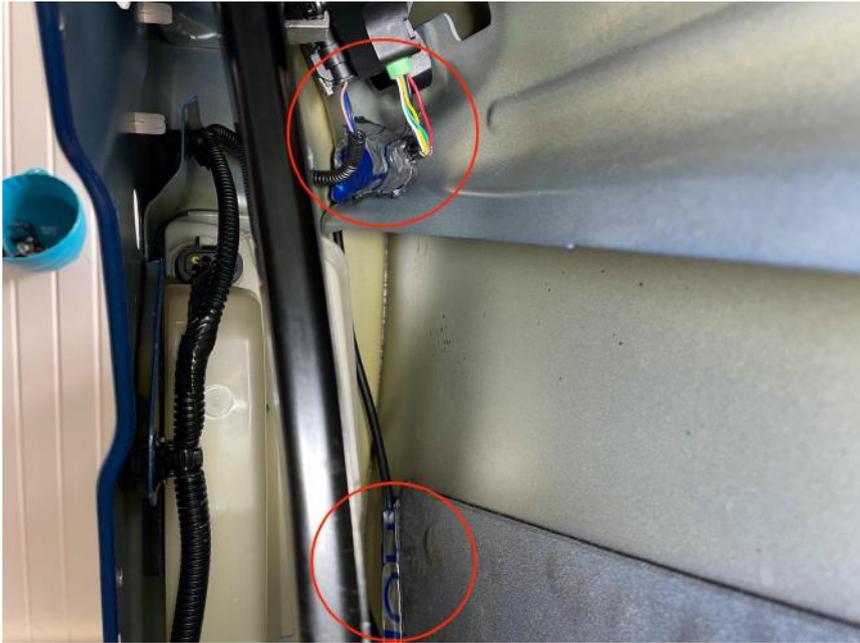


Figure 45: Cable fixation

- Fix the cable to the door body with alubutyl
- Connect the Tesla plug to the connector of the door handle shell

Power supply

ATTENTION

Switch off the vehicle by pressing the "Switch off vehicle" button in the settings under "Safety" on the on-board computer and then wait approx. 5 minutes. Do not open or close the doors during this time. Also make sure that there are no heavy objects on the seats.

Tip:

A muffled sound indicates that the vehicle is switched off.

- The CAN adapter plug is required for the power supply
- **Procedure:** Disconnect the cable lug on the red-colored cable and use a current thief/T-piece to connect the cable to a current-carrying cable of the CAN adapter. Take the male side of the CAN adapter. The nose of the connector should be facing you. Connect the red-colored cable with the third cable from the front right to the current thief or T-piece (Figure 46)

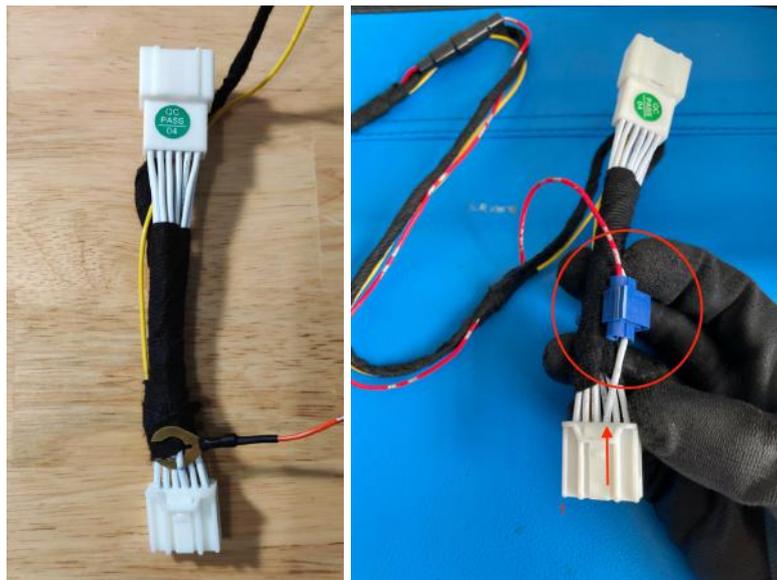


Figure 46: Power supply via CAN adapter

- **Alternative:** You can attach the cable lug of the red-colored cable to the positive terminal of the 12V battery. In this case, the cable must be extended and pulled from the frunk to the interior (Figure 47). Take the rubber gasket from the grommet shown in Figure 48

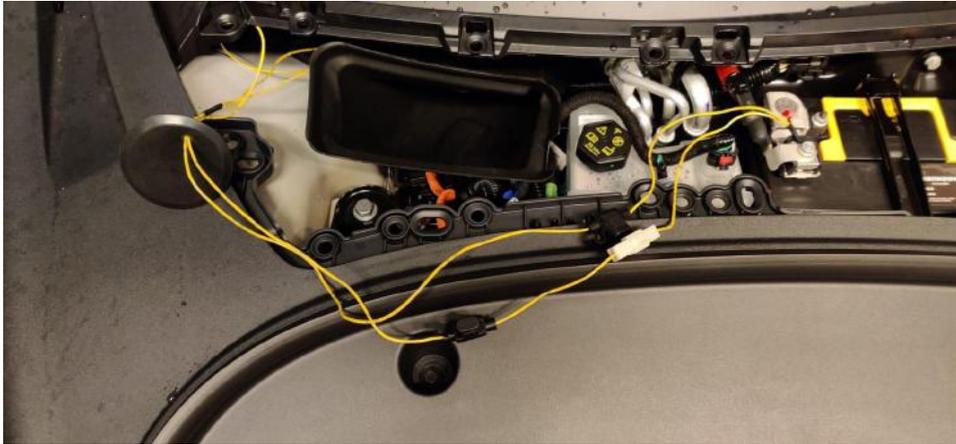


Figure 47: Example of power supply from the battery to the passenger compartment

- Use a pull-in aid to pull the cable into the passenger compartment via the passenger footwell (Figure 46)



Figure 48: Feedthrough from the frunk to the interior

- You reach the passenger footwell with the described instructions (Figure 49)



Figure 49: Passage into the interior

- The CAN adapter is connected to the on-board computer, which is visible in the passenger footwell by removing the covers located there (Figure 50)



Figure 50: Connection of the CAN adapter

 Tip:

Due to the lack of space at this point, it is helpful to also remove the connector further down and reconnect it after attaching the CAN adapter (Figure 51)



Figure 51: Further connector of the on-board computer

- Place the control unit of the automatic handle behind the carpet trim near the on-board computer (Figure 52)

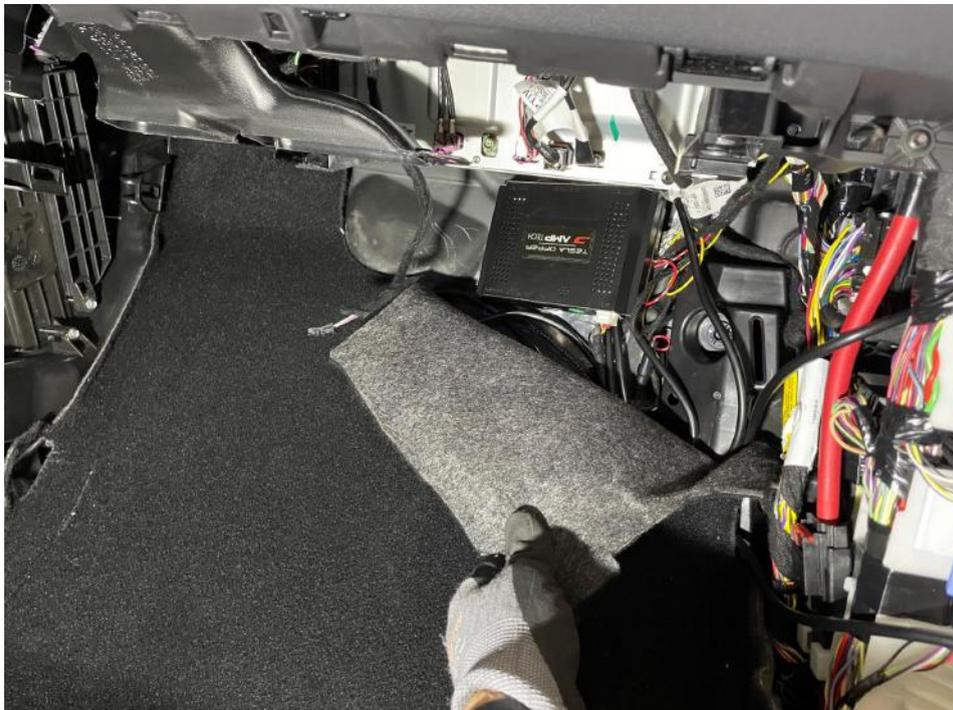


Figure 52: Placement of the control unit



Tip:

Make sure the cables are neatly routed and adhere to the OEM cable routing.

Installation of the rear door

- To remove the rear door panel, loosen two screws (Figure 53)



Figure 53: Rear door mounting screws

- Pass a plastic mounting lever under the door panel to be able to reach under the door panel with both hands
- Loosen the clamps of the rear door by pulling jerkily on the lower end of the door
- Lift out the door panel. This is hooked at the upper end
- Remove the two rubber seals (Figure 54)



Figure 54: Rubber seals of the plastic cladding

- Remove the felt cover
- Disconnect the following connectors and the Bowden cable at the rear door and place the door panel on a storage surface (Figure 55)



Figure 55: Rear door connector

- Pull off the window seal
- Loosen the two screws (14mm, hexagonal) from the window mount. The window mountings become visible behind the rubber seals when the window pane has been moved to the appropriate height. A second person must be consulted to hold and lift out the window pane!
- Lift the window pane out of the door body in the direction of curvature

 **ATTENTION**

The window pane must be lifted out of the door body before loosening the screws of the plastic trim (Figure 56)!

- Remove the 9 screws (8mm, hexagonal) from the edge of the plastic trim of the door (Figure 56)
- Disconnect the power window motor connector on the plastic door panel

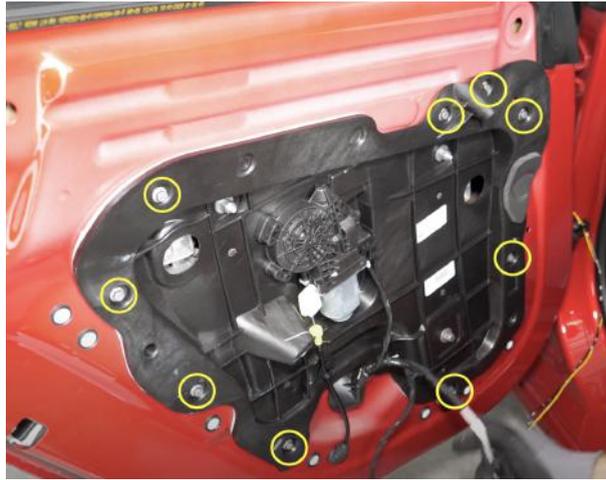


Figure 56: Screws of the plastic trim

 **ATTENTION**

Only the screws shown in Figure 56 may be removed, otherwise the door electronics may be damaged!

- Loosen the plastic trim. This is held in place by two retaining clips at the bottom left and right ends in the door body. Remove the plastic trim by pulling it out downwards. The window regulator unit is connected to the plastic covering
- Loosen the door handle plug and the three nuts of the door handle shell (Figure 57). The door handle plug is secured with a locking pin. Pull the locking pin down and lever it while pulling out the plug



Figure 57: Nuts and plugs of the door handle unit

- The door handle unit is modified in the same way as the front door (see page 17 ff.)
- The wiring is the same as for the front door. Pay attention to the colored marking
- Loosen the pin clamp (Figure 58)



Figure 58: B-pillar trim pin clamp

- Push out the B-pillar trim a little (Figure 59). There must be enough space to lead the door handle cable through the grommet in the vehicle body into the cable hose and then into the door body



Figure 59: Loosening the B-pillar trim panel

- Loosen the cable conduit at both ends and use the cable lubricant and retraction aid to pull the cable through
- Insert the corresponding cable with the green-colored plug into the door body so far that you can guide the plug up to the door handle unit and fasten the cable to the OEM cable guide with Velcro tape/cable ties (Figure 60/61).



Figure 60: Cable routing rear door (1)



Figure 61: Cable routing rear door (2)

- Connect the green colored connector to the same colored connector of the door handle unit
- Now connect all the cables of the door handles to the control unit. The connections on the control unit have markings that allow clear assignment
- Connect the free plug of the CAN adapter to the control unit
- **A first system test can be performed:** Press the narrow end of the door handle with your finger so that the button installed behind it is actuated. The door handle moves out and the LED strip around the door handle lights up. Furthermore, it must be possible to release the door lock with the door handle. Lock the door lock manually with a plastic tool and pull the door handle to unlock the lock
- Move 5-8 meters away from the vehicle and wait until the door handles are retracted. Make sure your cell phone key is activated (Bluetooth on) or that you have a Tesla Key-Fob with you and approach the vehicle. When your cell phone key or key fob is detected, the door handles will automatically extend
- If you are in "P" (parking position), press the parking button again, also now all 4 door handles must extend

Now go through the checklist and then start the deconstruction.



Checklist

After wiring:

- All plugs are connected and the safety pins are pressed in
- The cables and plugs in the door are tied together with Velcro/cable ties and fastened with Alubutyl
- The spring of the door handle is attached to the plastic device of the door handle holder
- The Bowden cable is lubricated at the friction points and fitted into the device of the motor unit
- The CAN Y connector of the on-board computer is connected and the original connector is connected to the Y-connector
- All cables are connected to OEM cable bundle
- The washers are placed under the screws of the front window panes (2 washers on the screw of the window pane, which is located on the door handle assembly)
- The iron metal plates are properly aligned and placed under the sensor connector

Attaching the door panel and reinstalling the window panes:

- 2 spacers each are placed under the washer of the screw located at the level of the door handles to keep the window pane away from the door handle unit
- All plugs on the door panels are connected
- The clamps of the door panels are all engaged

System test:

- Door opener, window regulator, loudspeaker and door lock work
 - The windows can be raised and lowered without any problems
 - The door handles extend automatically when the Bluetooth connection is established and the vehicle is approached, and retract again after a short time
 - If you operate the door handle at the narrow end and push it in a little, the door handle moves out the rest of the way on its own
-

- If the parking position "P" is pressed again, the door handles move out.



Deconstruction

Front doors:

- Guide the wiring harness through the opening of the plastic trim
- Position the plastic trim and pull the window regulator unit locking clip into the plastic trim until it snaps into place
- Fasten the plastic trim with the screws
- Screw the window regulator unit into the plastic casing
- Attach the clamps of the wiring harness to the plastic casing
- Connect all plug connections
- Carefully replace the window pane. To note: 2 spacers each are placed under the washer of the screw located at the height of the door handles to keep the window pane away from the door handle assembly.

ATTENTION

The scope of delivery includes 4 spacers. Use 2 spacers each to keep the window pane away from the door handle unit in the front doors. To do this, slide 2 spacer washers under the washer of the screw located at the height of the door handle and screw the window pane tight. The other screw of the front window pane can be screwed tight without the spacer washer. Place the other 2 spacers under the washer of the screw in the passenger door at the level of the door handle.

- Make sure that the screws are not tightened too much. Carefully lean the door and check that the window pane is correctly positioned horizontally
- ATTENTION:** Do not close the door before checking the position of the window pane
- Close the openings with the rubber seals
-

- Move the window to the lowest and then to the highest position. Make sure that the window is not blocked
- Also note that the window pane does not hit the door frame when closing and, if necessary, adjust the position of the window panes
- Replace the seal of the window pane
- Put the Bowden cable back into the door panel and check its function
- Connect all plugs of the door panel
- Hook the door panel at the upper end, position the door panel and press the door panel against the door body so that the clamps snap into place
- Connect the connector of the loudspeaker and reinsert it
- Screw back the 3 screws fixing the door panel and insert the reflector and the plastic cover of the screw below the door opener button

Rear doors:

- Place the plastic trim together with the window regulator unit into the door body and screw the plastic trim back to the door body
- Carefully replace the window pane and screw the two screws into the socket. Make sure that the screws are not tightened too much (5-7 Nm). Carefully lean the door and check whether the window pane is correctly positioned horizontally. **ATTENTION:** Do not close the door before checking the position of the window pane
- Replace the window seal
- Connect the window pane motor plug and move the window pane to the lowest and then to the highest position. If the window pane is not blocked, you can proceed with the dismantling process
- Also note that the window pane does not hit the door frame when closing and, if necessary, adjust the position of the window panes
- Connect all plugs of the door panel and guide the tab of the Bowden cable over the bracket
- Hook the door panel at the upper end and push the clamps in until they snap into place
- Fasten the door panel to the door body with all three screws
- Press the reflector back into the door. The reflector has a marking on the back that identifies the upper side

Remaining facings:

- Align the B-pillar trim with the plastic tabs and clamps and pull the B-pillar trim towards the B-pillar so that the clamps and tabs snap into place
- Fasten the B-pillar trim with the pin clamp
- Place the baseboard trim so that the clips point into the grommets and the lugs in the driver's footwell point into the grommet in the carpet. Press the baseboard trim downwards
- Fasten the baseboard trim with the pin clamp underneath the screw where the ground is tapped off
- Fasten the footwell trim with both screws and the pin clamps. Be sure to hold the power cable with the footwell trim and route the cables in front of the pedals!
- Place the trim between the dashboard and the door from above with the nose in the grommet and push it on