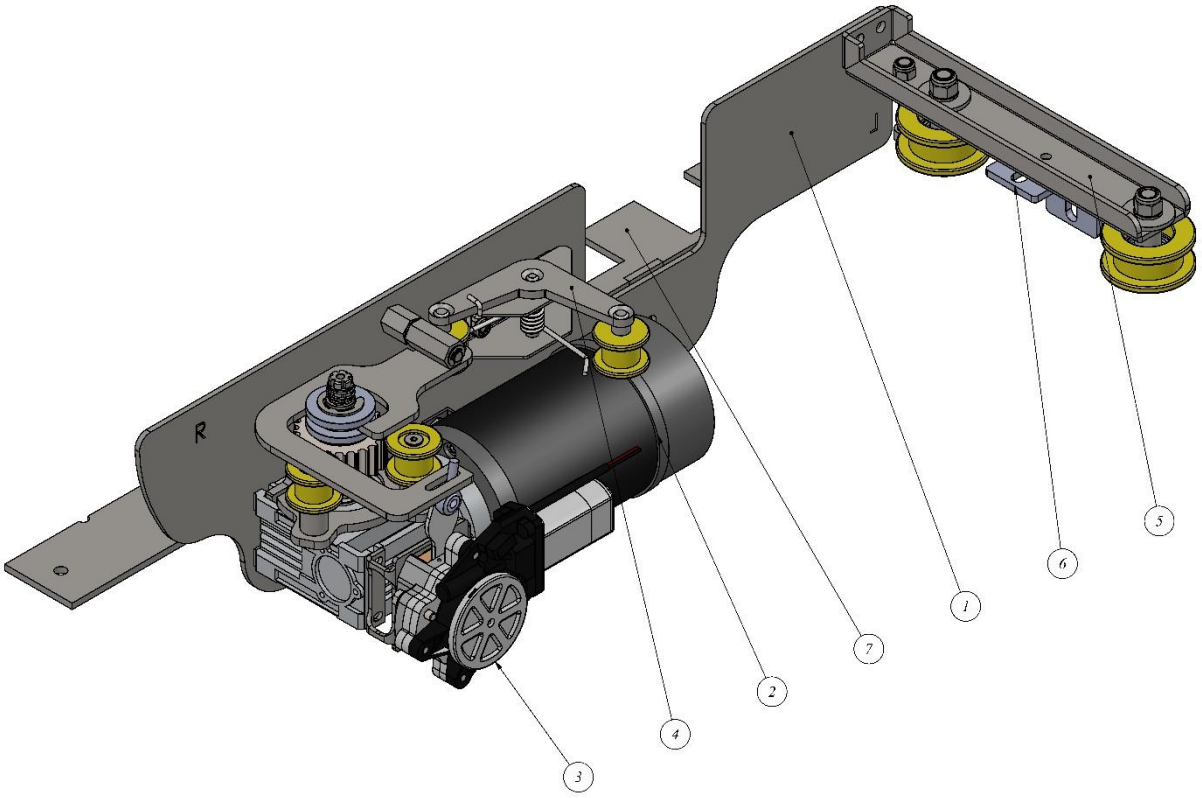
FORD CUSTOM
LEFT

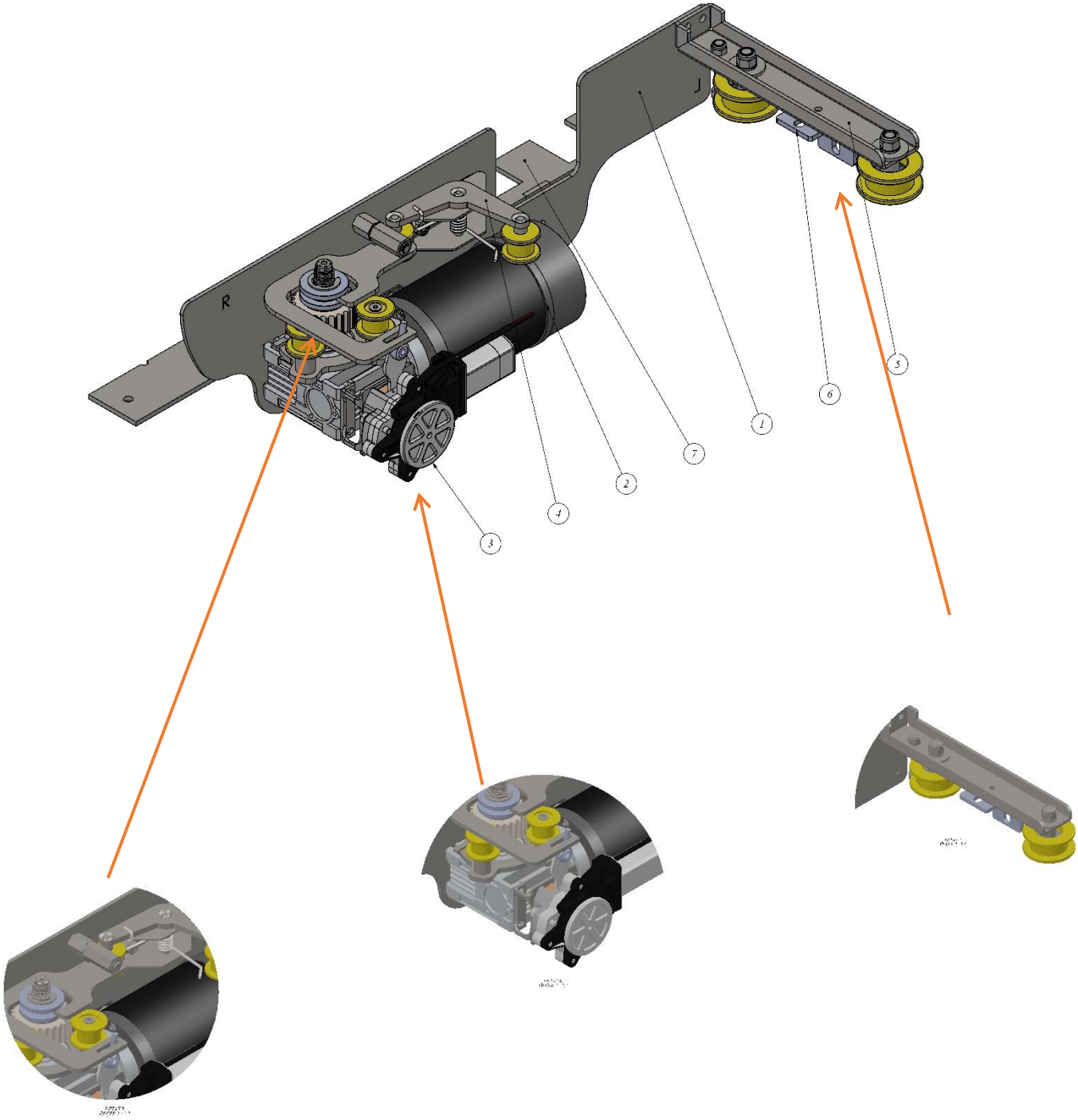
CONTENT

MAIN PARTS OF THE DOOR SYSTEM



ITEM NO.	DESCRIPTION OF THE PART
1	DOOR SYSTEM CHASSIS
2	MOTOR GROUP
3	CLUTCH GROUP
4	BELT STRETCHING GROUP
5	LONG STAYS GROUP
6	STAYS HANGER PIECE
7	CHASSIS SUSPENSION GROUP

MAIN PARTS OF THE DOOR SYSTEM



MAIN PARTS OF THE DOOR SYSTEM

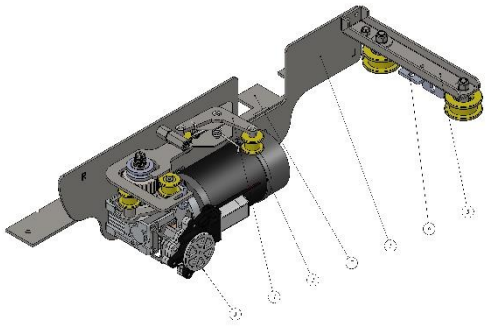
Main system's wiring (1)

Door control unit (2)

Inner-door electrical wiring: It allows to spend less power, in order to bring the automatic door from the open to the closed position.

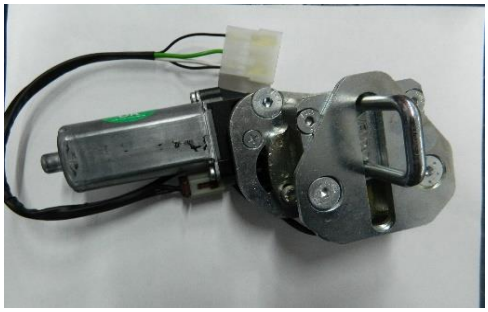
Unbolting System: It is the mechanism that automatically opens the door without changing the original lock mechanism of the vehicle's door.

MAIN PARTS OF THE DOOR SYSTEM

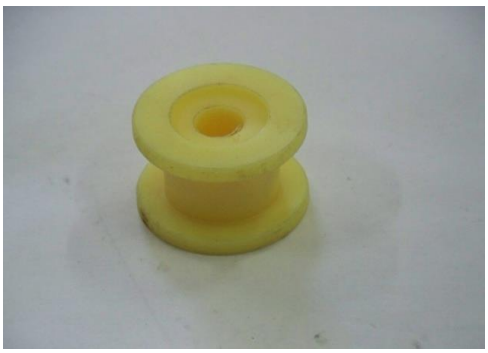


Door Drive Mechanism: It is the part containing the system units and placed under the automatic door on the vehicle chassis.

Motor Group



Lock Puller System: The automatic door ensures that less force is exerted to bring it from the open position to the closed position.



Cable Sheaves: Cable sheaves absorb the belt looseness that occurs during sudden changes in direction of the automatic door.

Movement Sheaves: Allows you to complete the motion in a frictionless manner by determining the direction of motion.

SECURITY SYSTEMS OF VELDO AUTOMATIC DOOR

Security Wick: The automatic door allows the door to open automatically in case of any obstruction or jamming.

Overcurrent control: the safety system that is activated when the safety wick is disabled.

User controlled security system: When the door is automatically closing, the door automatically opens when the user give a command from the front panel button or the door handle.

SECURITY SYSTEMS OF VELDO AUTOMATIC DOOR

Audible and light warning system: If the automatic door opens from the door handle from inside when the vehicle is moving or standing; the user is audibly warned.

Warning is made by short tones during closing, *and by long intermittent tones during opening.*

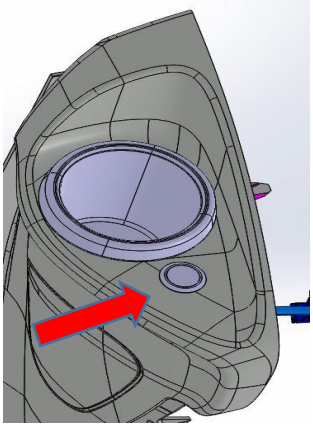
When the door is opened and closed, the control unit gives an audible warning.

The user is warned by the light on the front panel button when the door is open.

Speed-controlled safety system: When the vehicle is moving and the speed is above a certain limit (5 km/h) door cannot be open and if the door is open, it automatically closes when a certain speed limit (5km/h) is exceeded. Also, if the sliding door is attempted to open manually from the inside when the vehicle is moving, the system prevents the door from opening.

In case of accident or emergency: In case of emergency, the vehicle door can be opened manually from the inside and outside from the original door handles.

WORKING WAYS OF VELDO AUTOMATIC DOOR SYSTEM

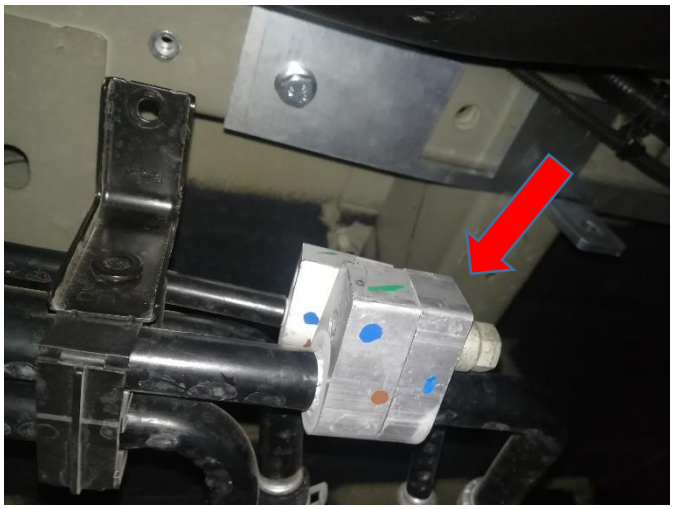


1 - With the open/close button mounted on the front panel of the vehicle.

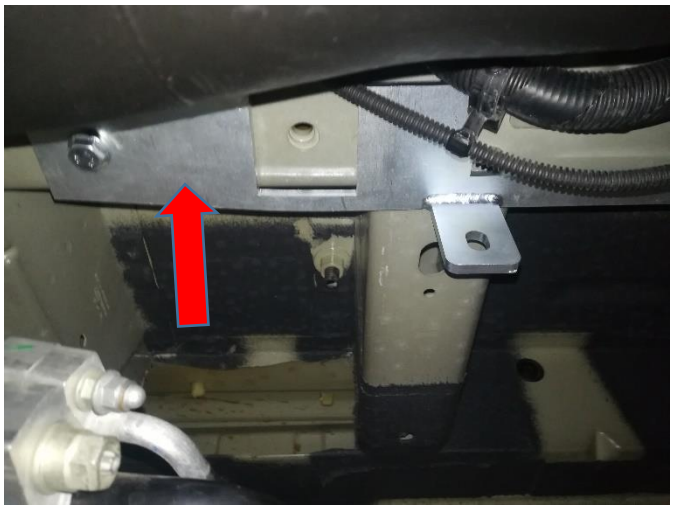
2- With the original door handle of the vehicle.

3 - With the original remote control key of the vehicle.

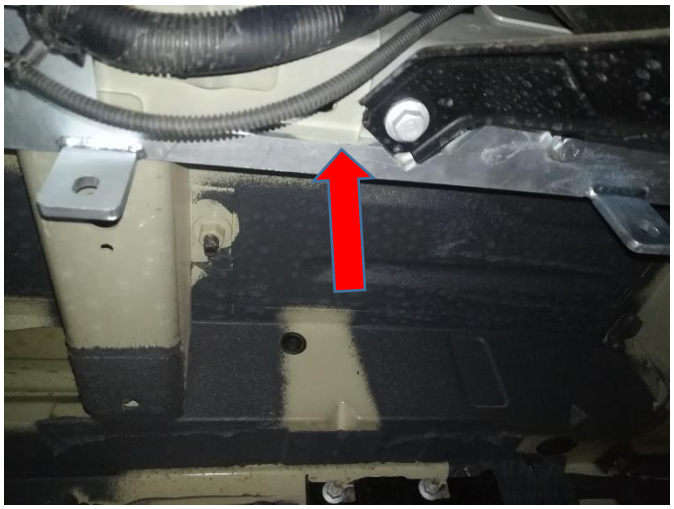
ASSEMBLING OF AUTOMATIC DOOR



Remove the original air conditioning pipe of the car and take it down.



Install the chassis strap with the M8 bolt in the area shown at picture.



The complete assembly of the chassis hanger is as shown at picture.

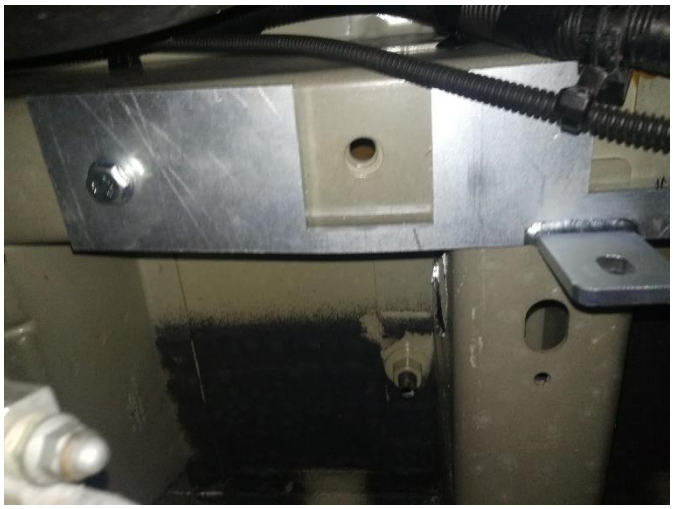
ASSEMBLING OF AUTOMATIC DOOR

The front view of the chassis connection should be made as shown at picture.

Cut the area shown in the picture with an air saw to install the rear foot.

Drill the belt pass holes with a 60-gauge punch.

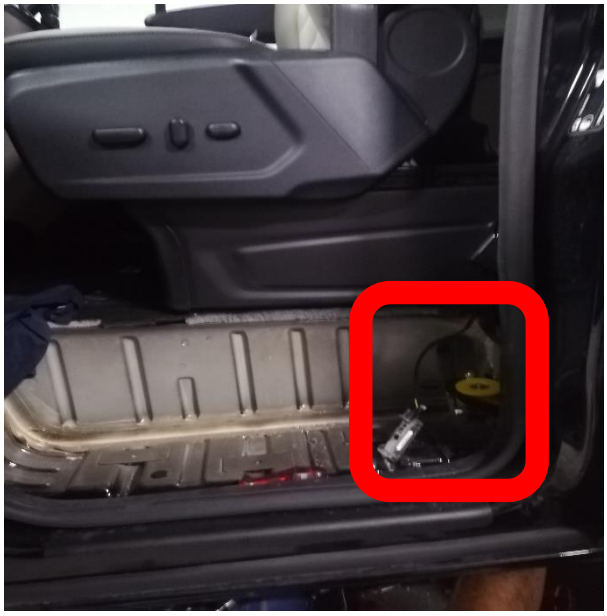
ASSEMBLING OF AUTOMATIC DOOR



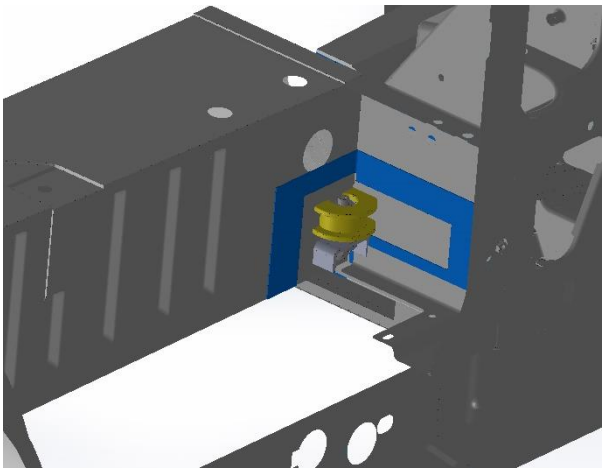
The chassis is mounted as shown at picture.

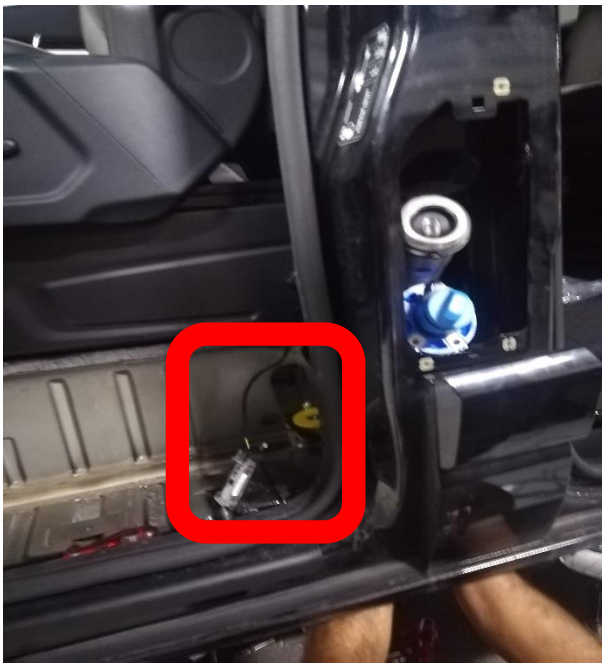
Belt transition holes are as at picture.

ASSEMBLING OF AUTOMATIC DOOR



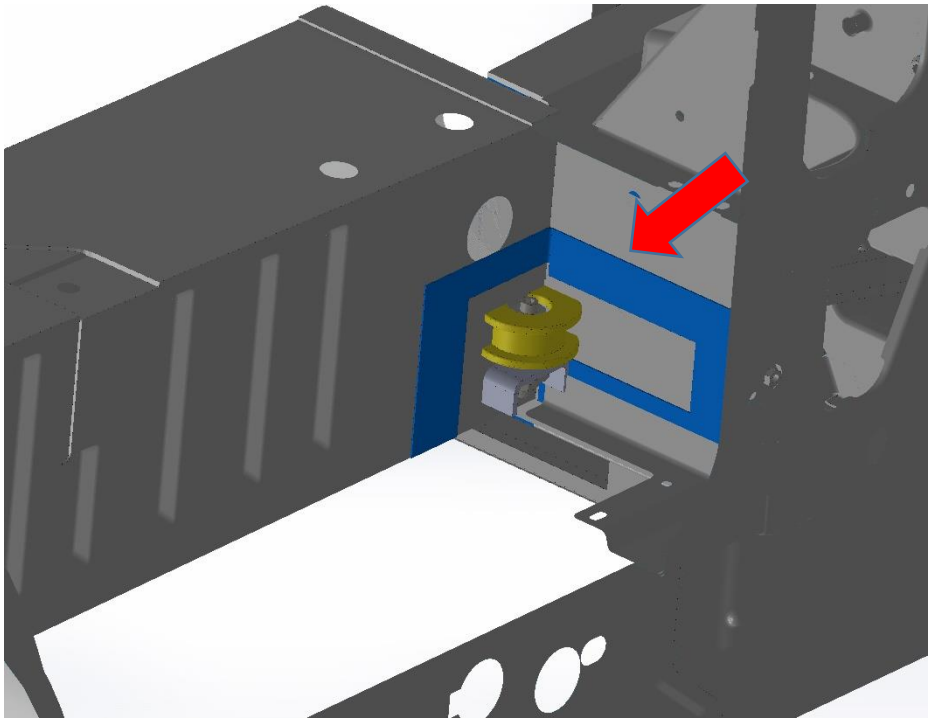
Cut the area shown in the picture with an air saw for the front foot connection.



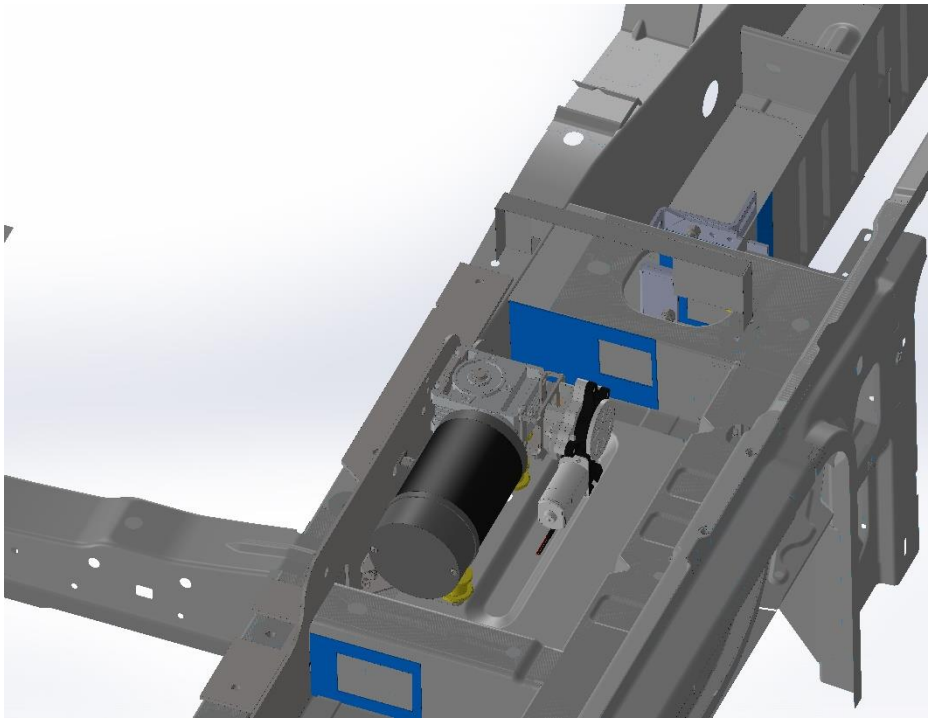


For front foot connection, cut the area shown in the picture with an air saw (front view).

ASSEMBLING OF AUTOMATIC DOOR



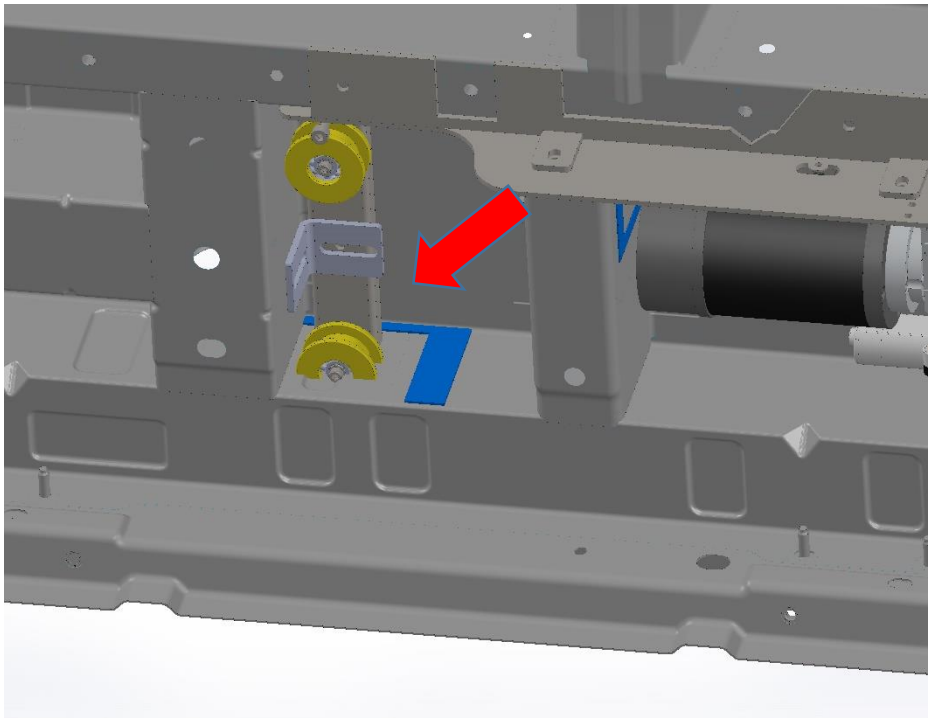
The front routeing foot is marked with a template.



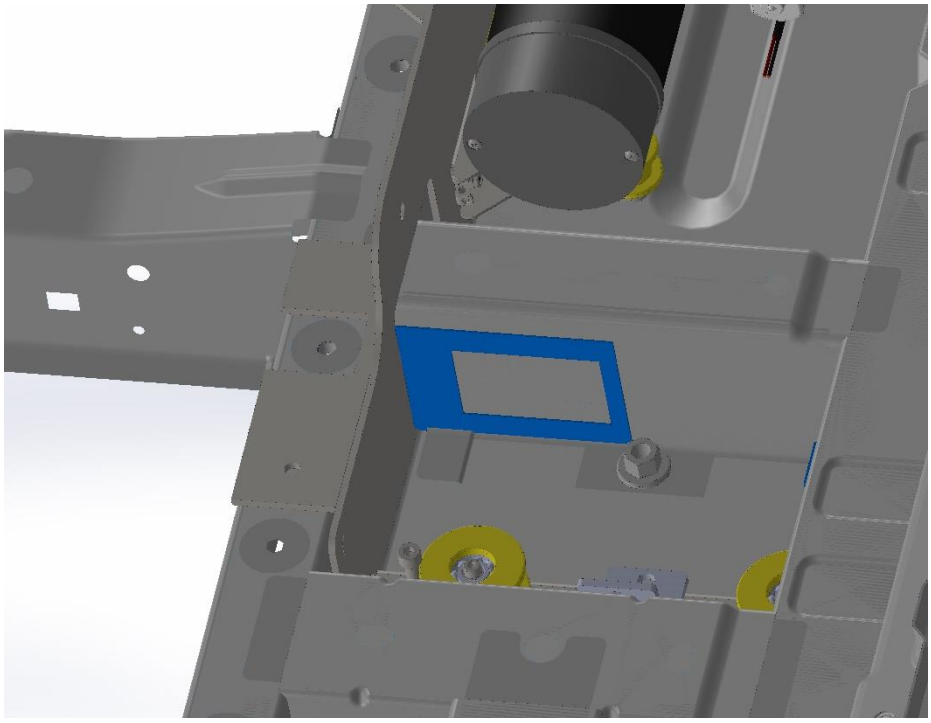
ASSEMBLING OF AUTOMATIC DOOR

Connect the front foot to the area which is shown in the picture.

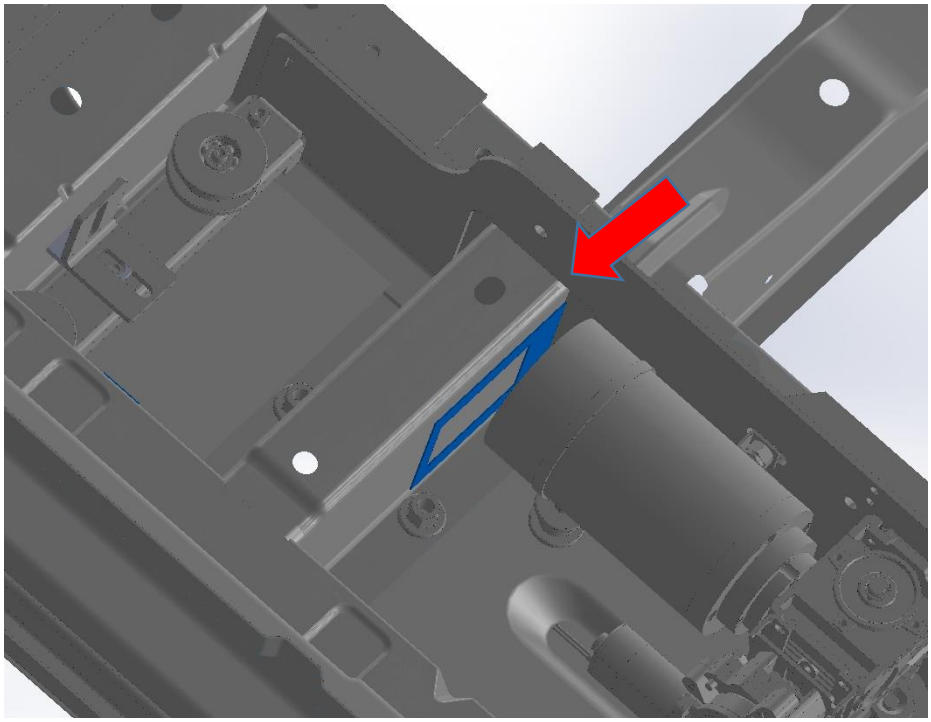
ASSEMBLING OF AUTOMATIC DOOR



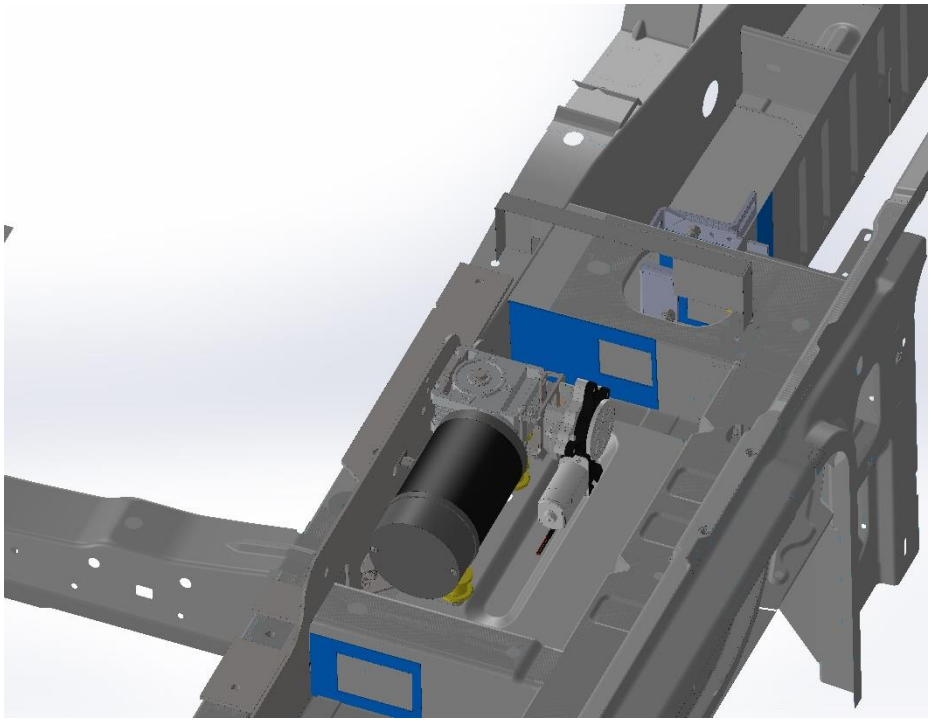
Mark rear foot, with the foot routeing template.



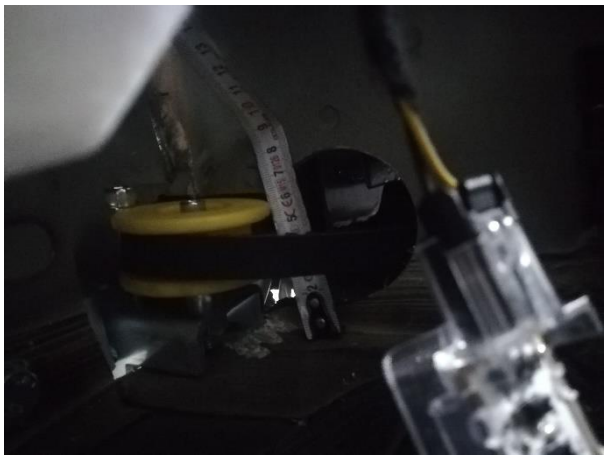
ASSEMBLING OF AUTOMATIC DOOR

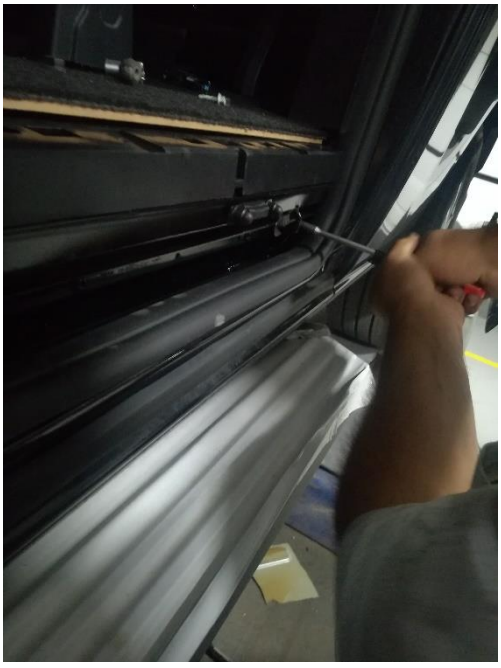


Mark rear foot, with the routeing foot template.



ASSEMBLING OF AUTOMATIC DOOR





The completed version of the front foot connection is shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

The completed version of the front foot connection is shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

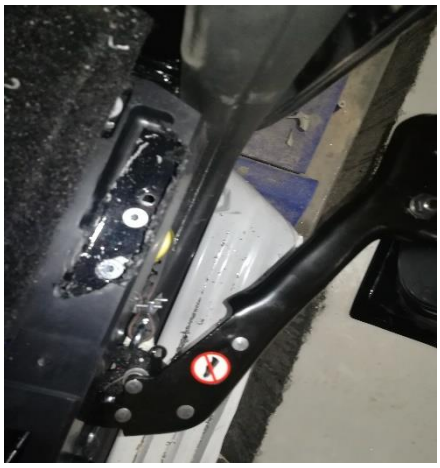
Drill holes with a 38 punch for rear foot connection.

ASSEMBLING OF AUTOMATIC DOOR

Installation of the rear foot.

ASSEMBLING OF AUTOMATIC DOOR

The mounted version of the rear routeing foot is as shown in the picture.



ASSEMBLING OF AUTOMATIC DOOR

The belt jointing link bracket is as shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

The connection of the belt to the lower foot of the vehicle is shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

Sliding door step plastic is removed.

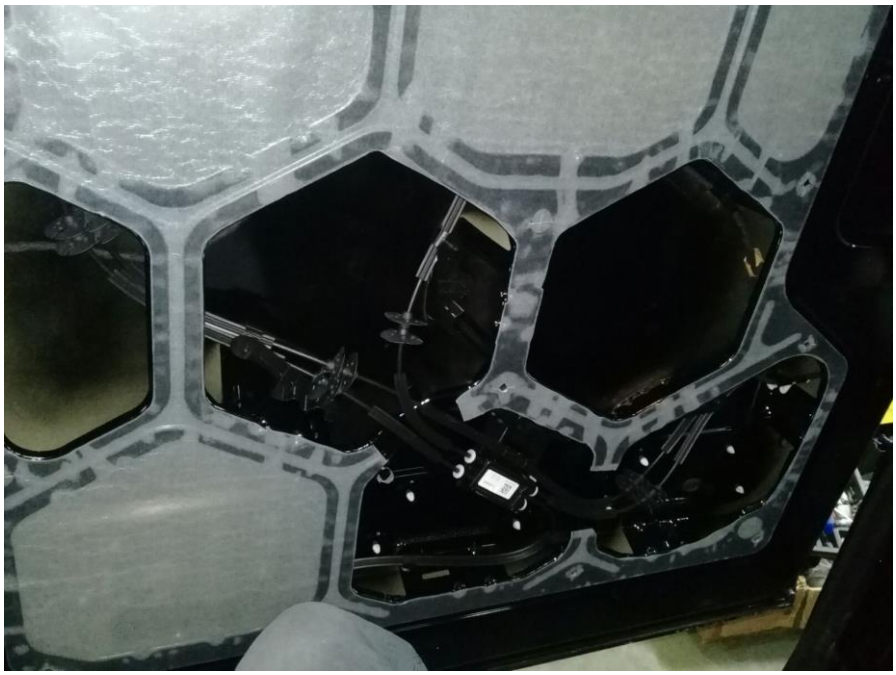
The step plastic is removed as shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

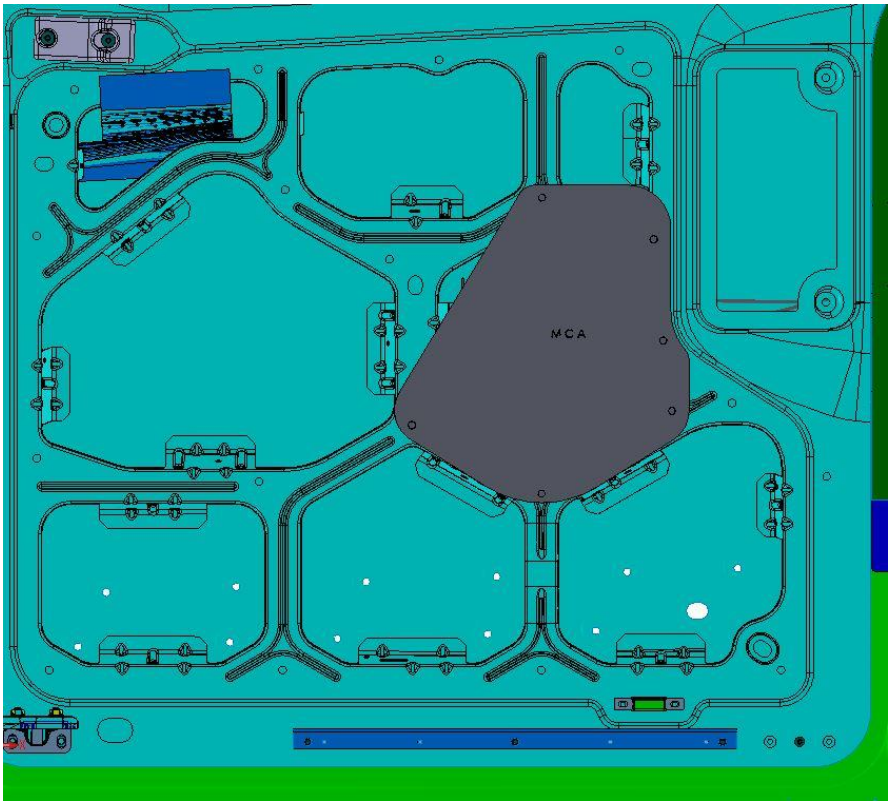
The cardboard of the sliding door is disassembled.

The dismantled version of the cardboard is as shown in the Picture.

ASSEMBLING OF AUTOMATIC DOOR



Insulation inside the door, is cut as shown in the picture.



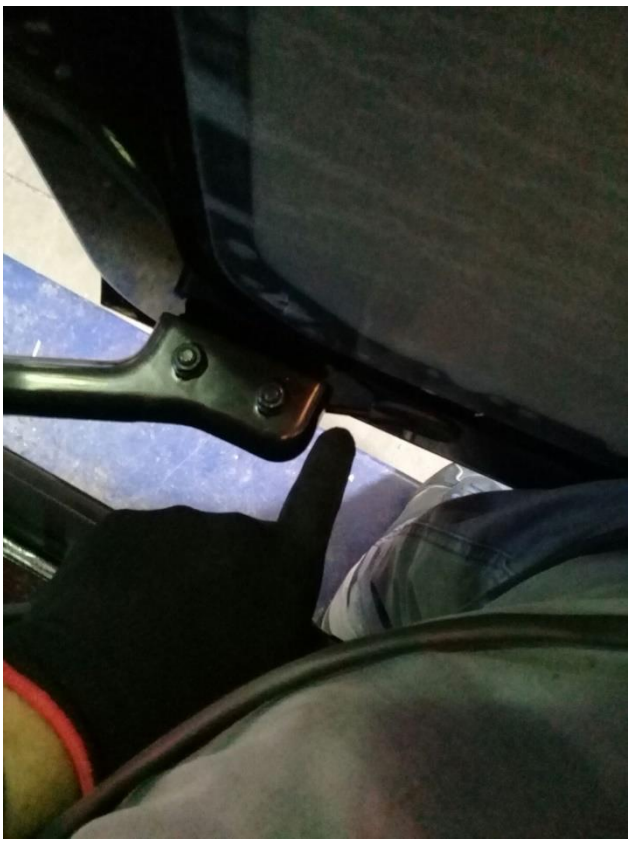
The unlocking mechanism template is installed as shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

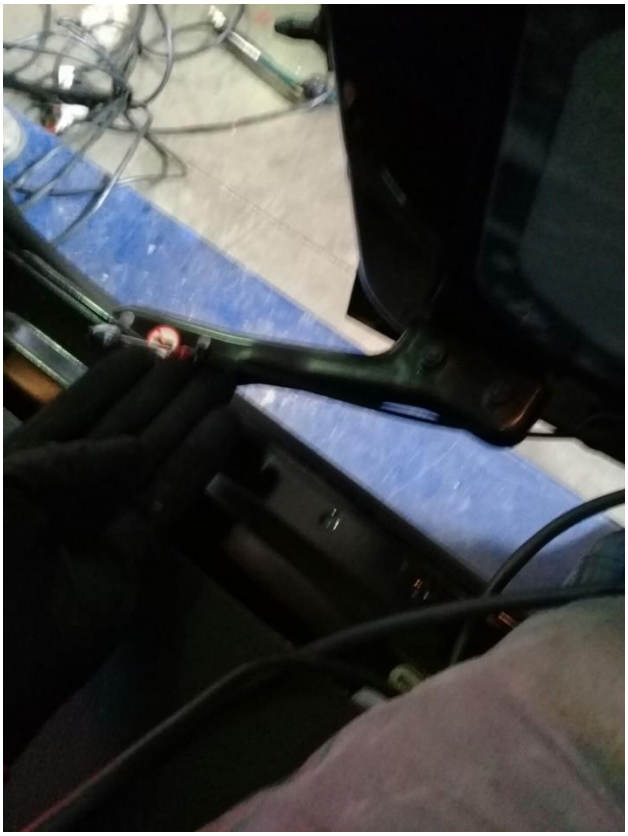
Holes are drilled with his help of unlock mechanism template (6mm).

The sliding door lock is disassembled.

ASSEMBLING OF AUTOMATIC DOOR

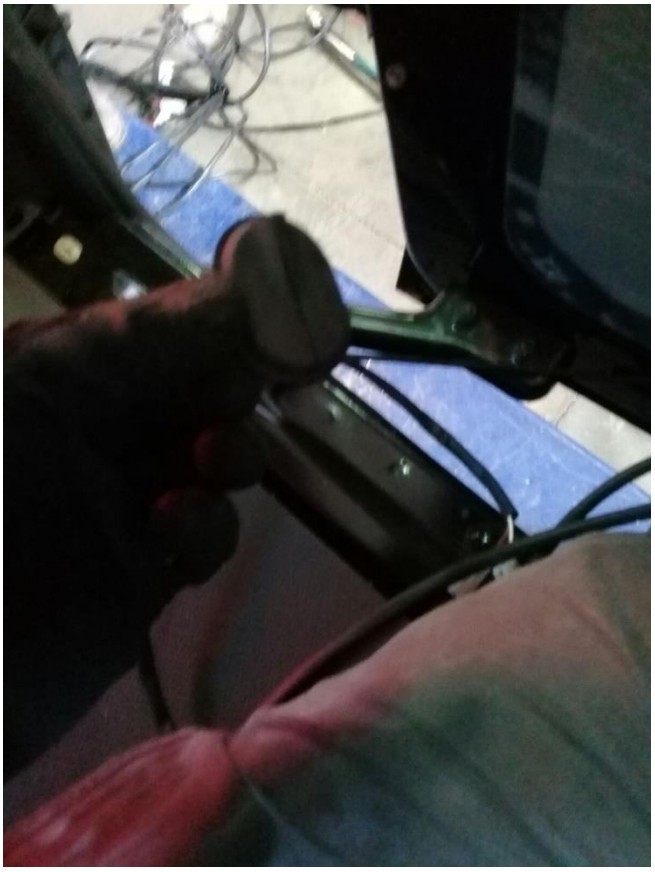


The lower foot lock wire is disassembled.



Bottom foot lock wire is disassembled as in the Picture.

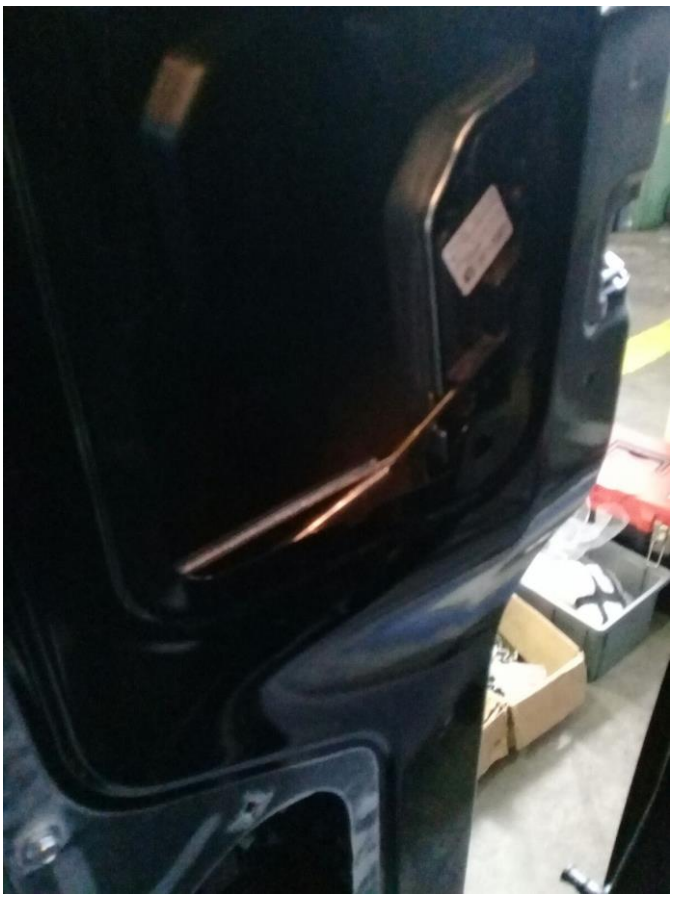
ASSEMBLING OF AUTOMATIC DOOR



Rubber (plug), located on the lock wire, is removed. The wire is enclosed in the door. The rubber is placed back.

The original unlocking wire is dislodged.

ASSEMBLING OF AUTOMATIC DOOR



The Veldo unlocking wire is connected as shown in the picture.

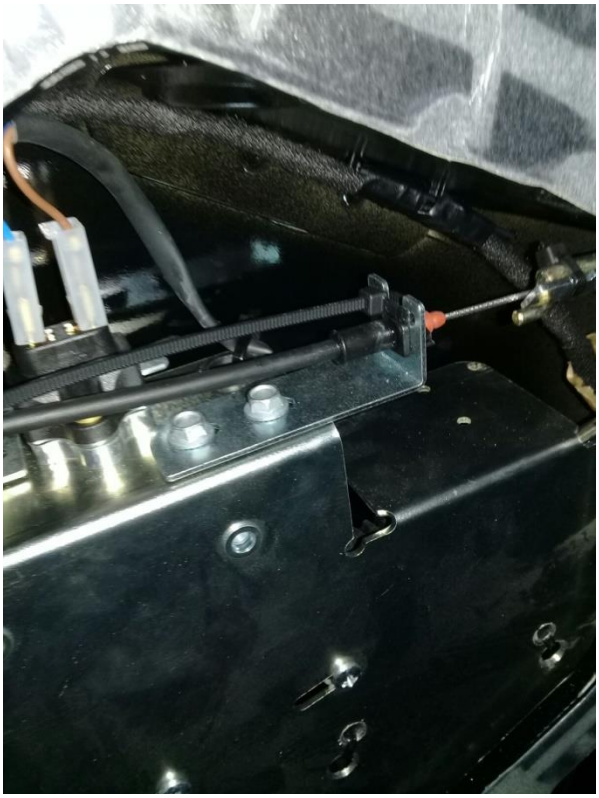
The Veldo unlocking wire is connected as shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

Connected as in picture.

Original lock wire and unlock wire are connected as shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR



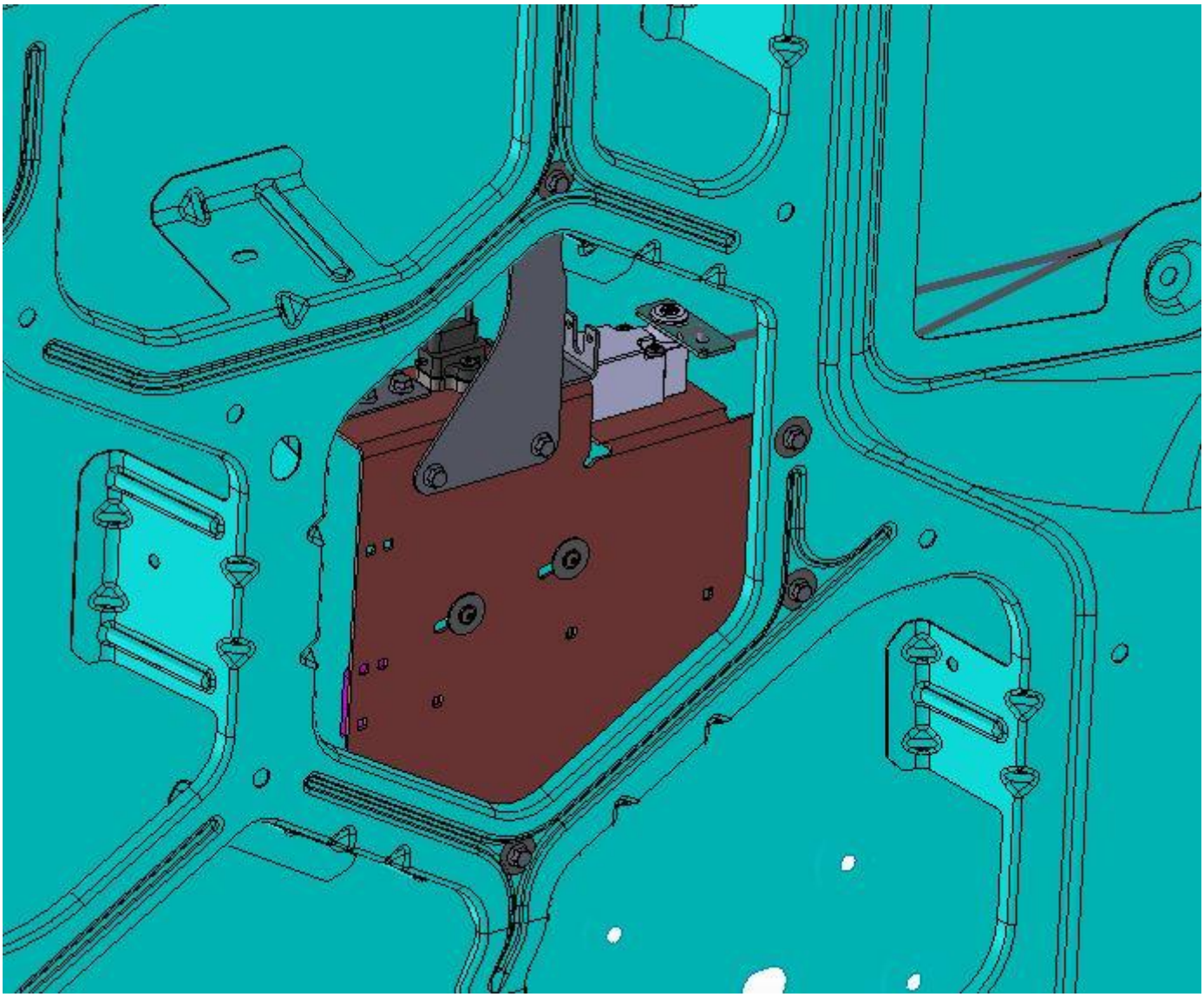
Original lock wire and unlock wire are connected as shown in the picture.

The door handle switch wire adjustment is made.

ASSEMBLING OF AUTOMATIC DOOR

Unbolting wire adjustment is made.

The unlocking mechanism is attached to the top sheet.



The unlocking mechanism is installed as shown in the picture.

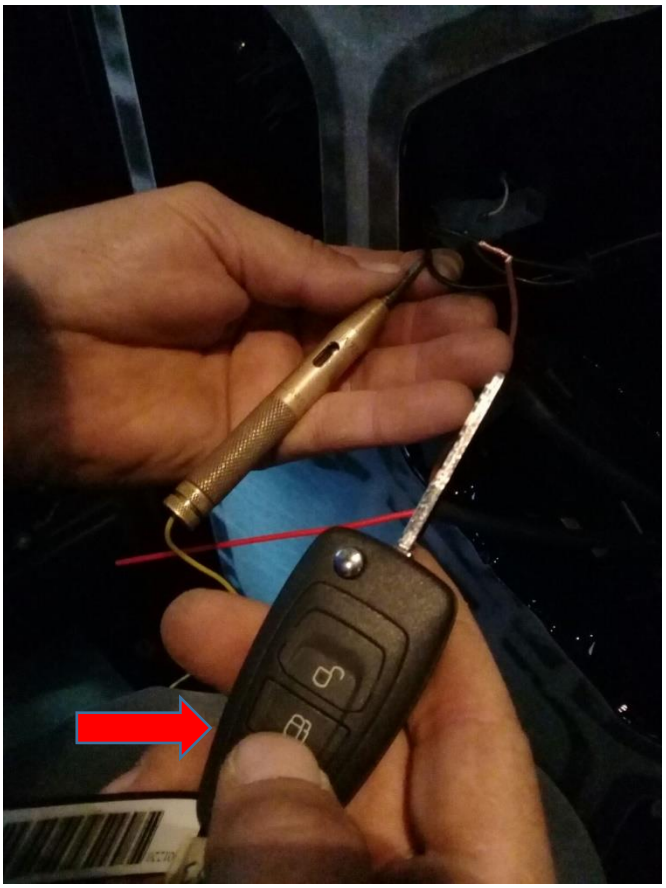
ASSEMBLING OF AUTOMATIC DOOR

The safety wick is installed according to the shape of the door.

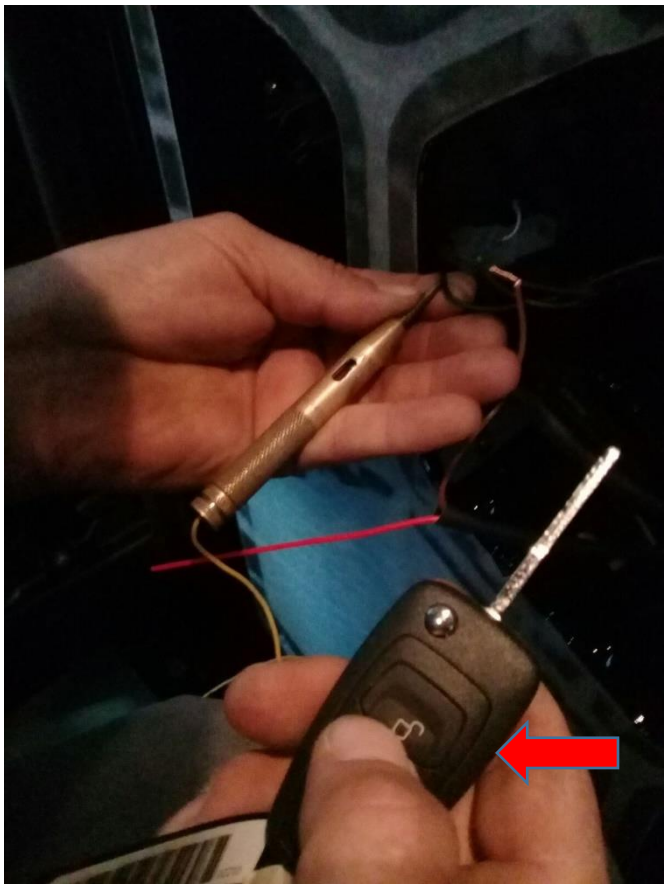
The safety wick cable transition hole is drilled in the place marked in the picture.

-The safety wick cable is connected to the cable of the same color with the interior cable of the door.

ASSEMBLING OF AUTOMATIC DOOR



The cable of the central lock close signal is connected as an unlocking brown cable bridge.



Cable of central lock open signal is left as it is (no need to connect).

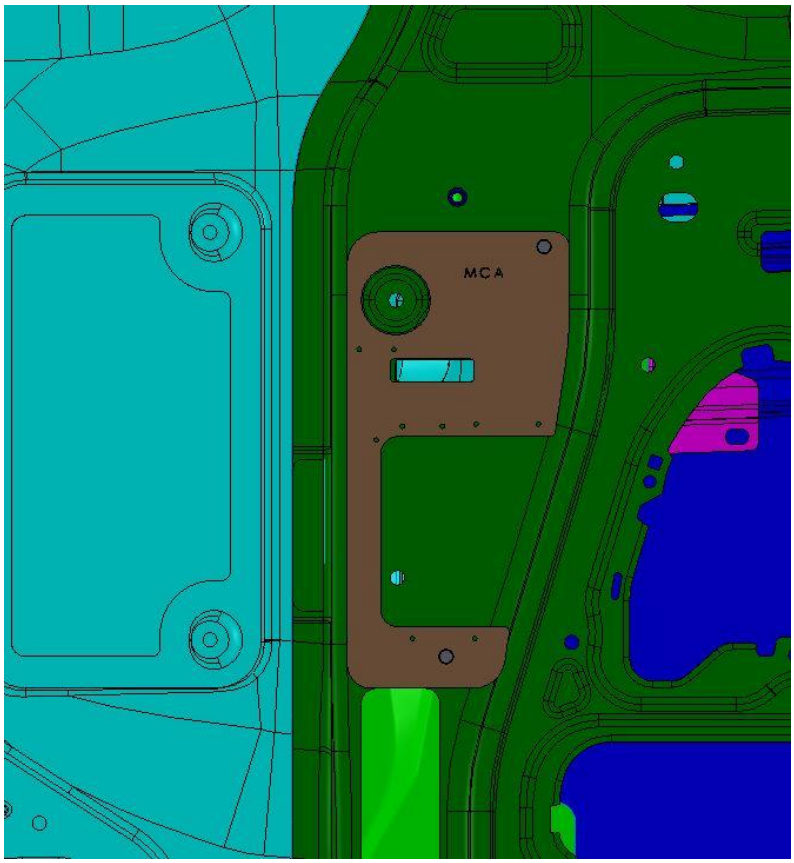
ASSEMBLING OF AUTOMATIC DOOR

The cable without signal is cut and the red cable is connected to the switch side.

The connection is shown in the picture.

- Check the wiring diagram when connecting. First, make the connection inside the door.

ASSEMBLING OF AUTOMATIC DOOR

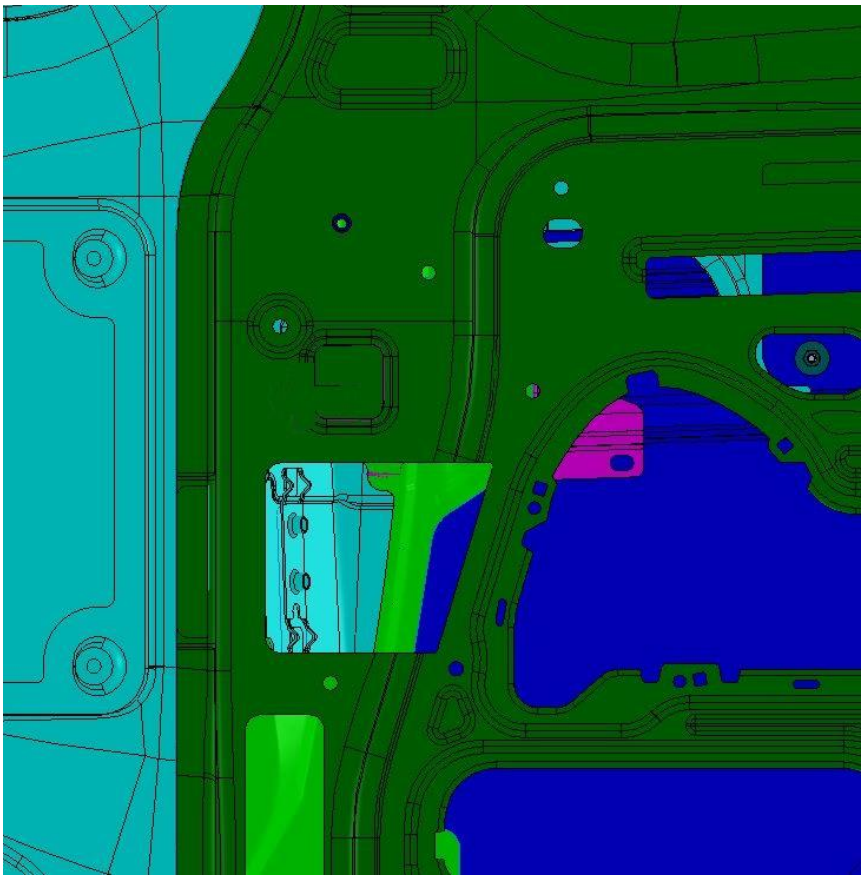


The lock puller mechanism is attached according to template as shown in the picture.

It is drawn as in the picture.

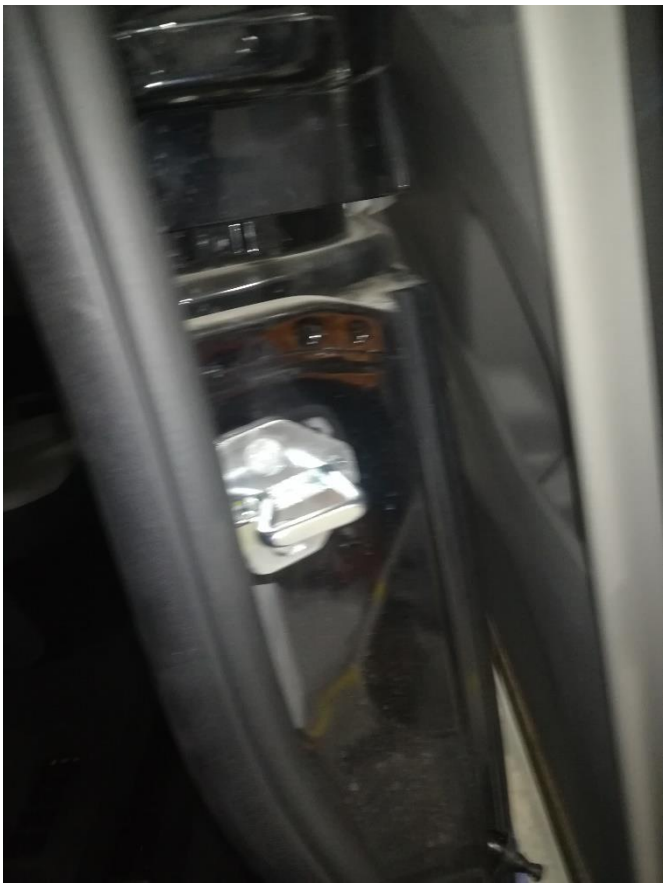
ASSEMBLING OF AUTOMATIC DOOR

It is drilled through its corners in order to make a cut with an air saw.

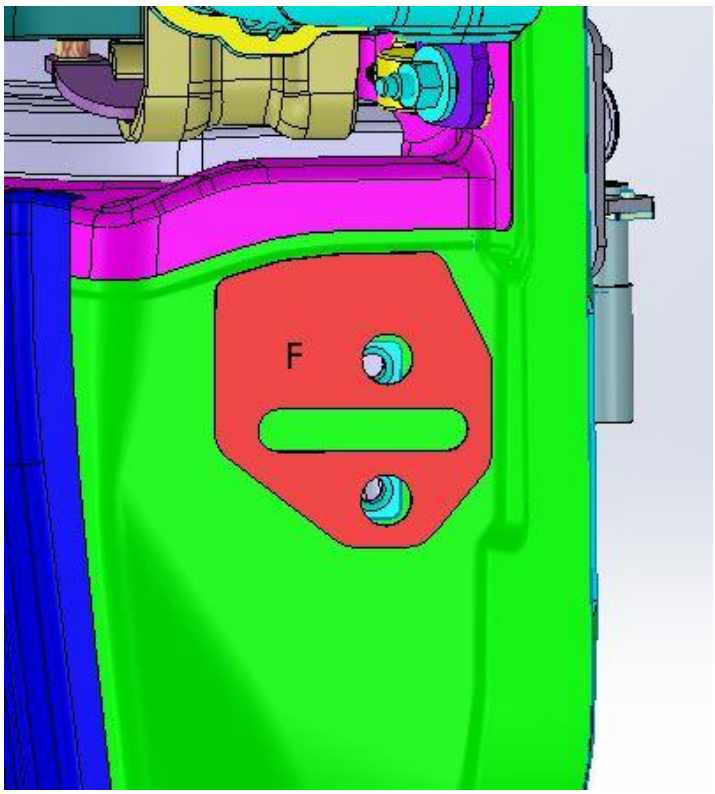


Later is cut at the places where the drawing was made.

ASSEMBLING OF AUTOMATIC DOOR



Centering is done according to the original equivalent for the lock puller mechanism.



The corresponding sheet is marked with a template.

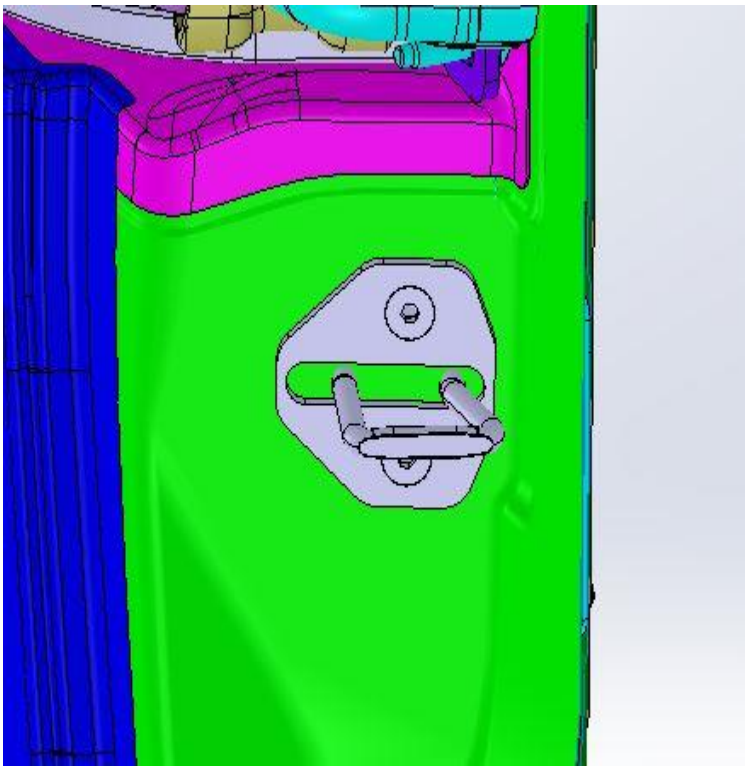
ASSEMBLING OF AUTOMATIC DOOR

Marked as shown at the picture.

It is drilled from corners with 10mm drill.

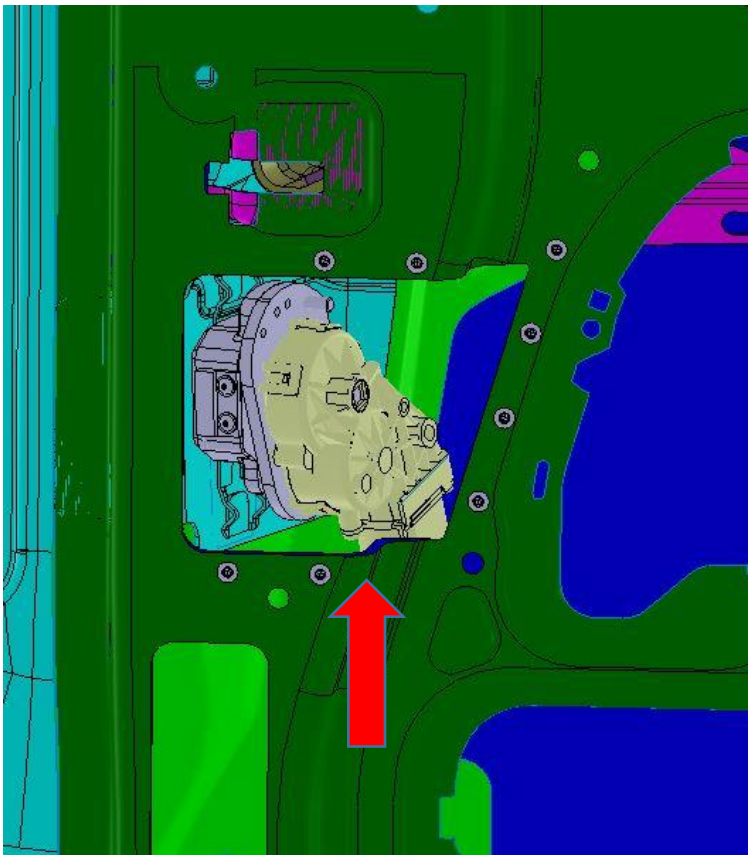
ASSEMBLING OF AUTOMATIC DOOR

Cut as shown in the picture.



The lock puller mechanism is installed as shown in the picture (outside).

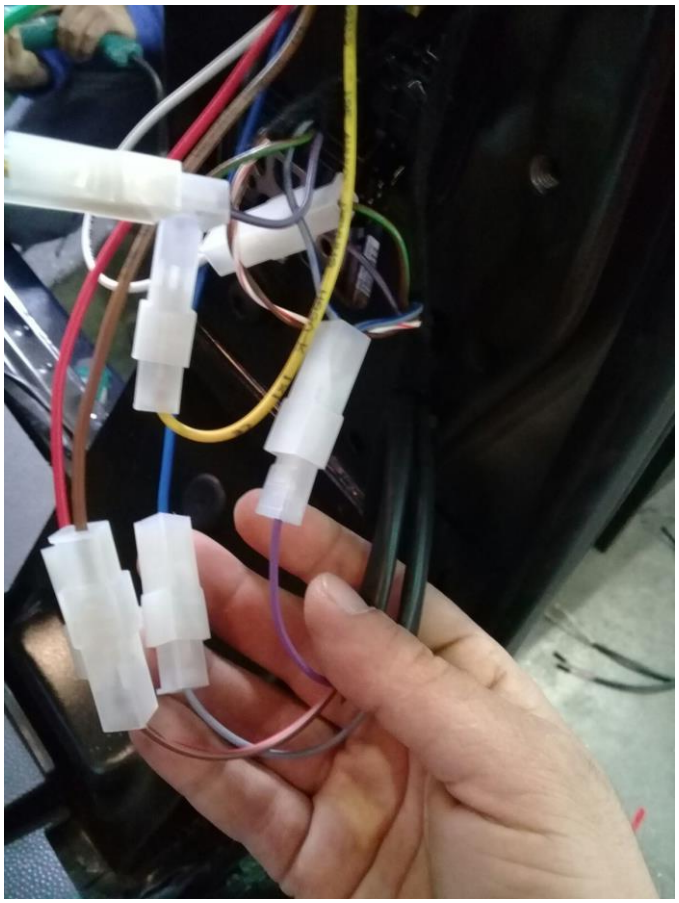
ASSEMBLING OF AUTOMATIC DOOR



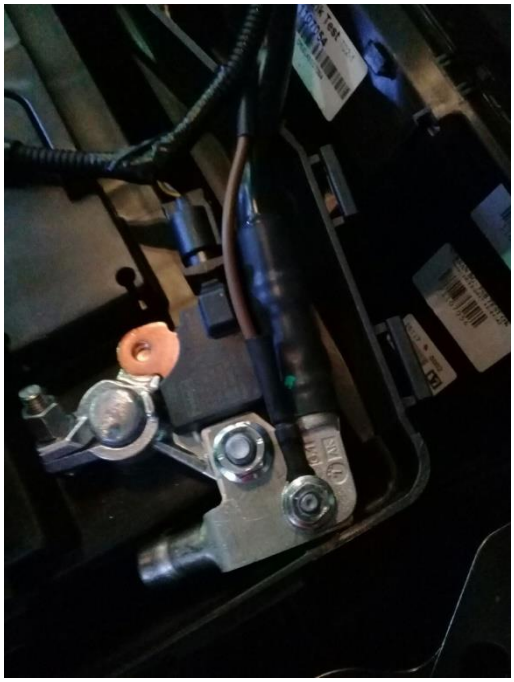
Assembly of lock puller mechanism is done as shown at the picture (inside of vehicle).

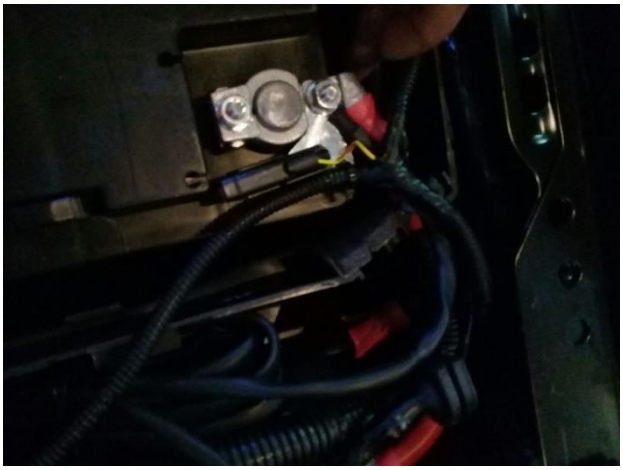
The lock puller mechanism cable transition is as in the picture.

ASSEMBLING OF AUTOMATIC DOOR



The front mast switch control module is connected according to the wiring diagram.





Car battery minus-plus ends are unpluged and the battery is removed.

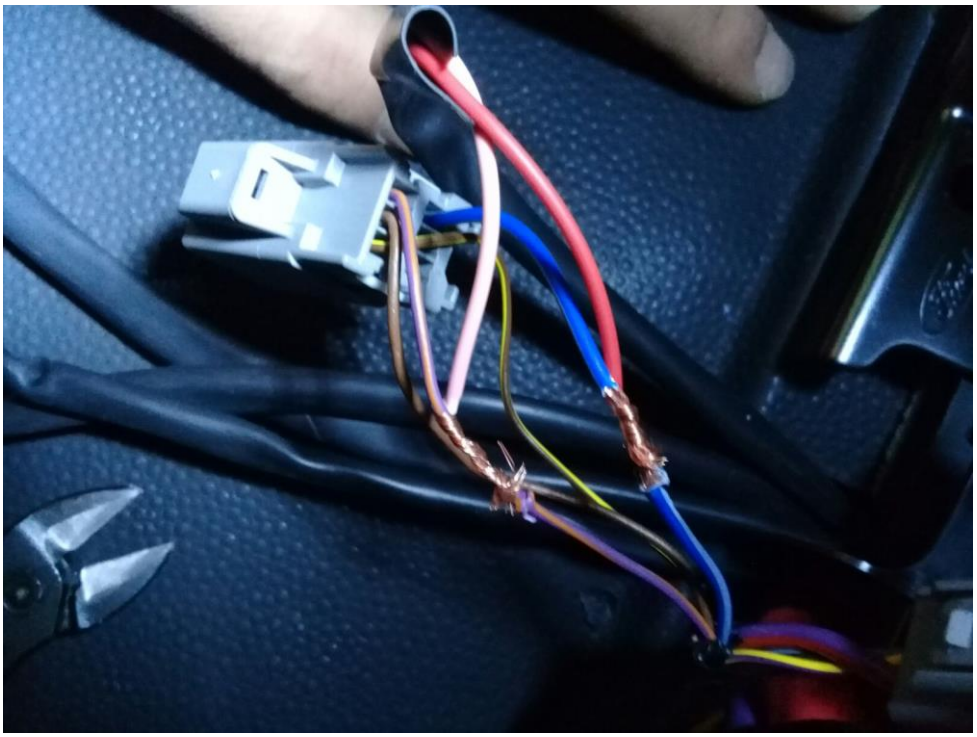
ASSEMBLING OF AUTOMATIC DOOR

The bottom motor cable transition hole is drilled as shown in the picture.

Expanded with Ø38mm punch.

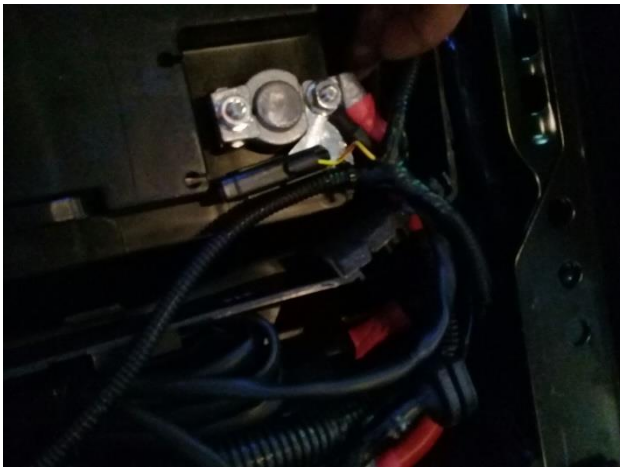
Is drilled for the main system wiring transition (with plastik/material cover on it).

ASSEMBLING OF AUTOMATIC DOOR



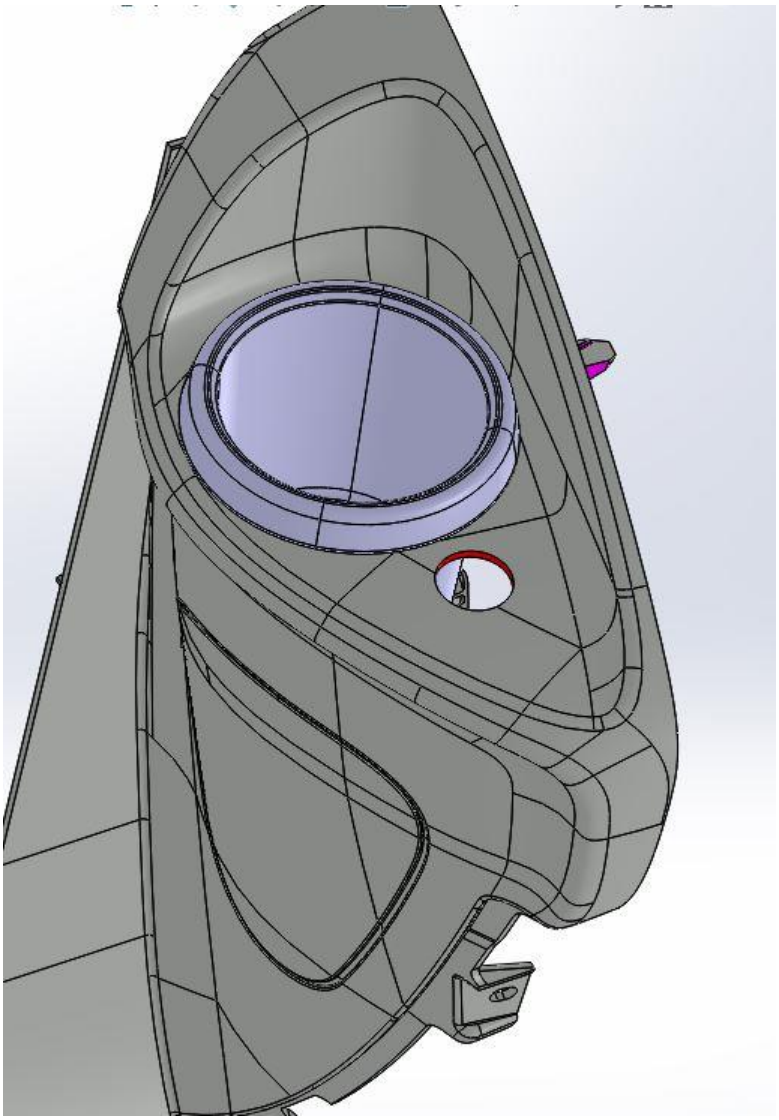
Is drilled for the main system wiring transition (with plastik/material cover on it).

The wiring (-) end of the brown cable is connected to the (-) pole head of the battery.



The wiring (+) end of the red cable is connected to the (+) pole head of the battery.

ASSEMBLING OF AUTOMATIC DOOR



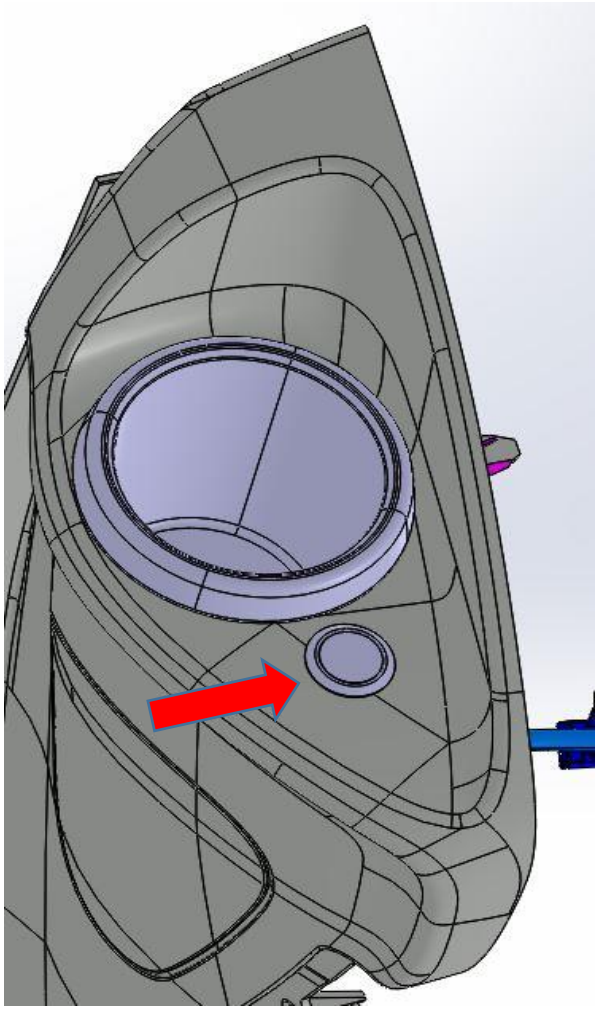
Panel button hole, is drilled next to the front left cup holder (Ø16mm).

In the main system installation, the door on / off button cable is brought from the back of the center console to the panel socket and the plugs are attached to the button. After that it is installed in place of the panel.

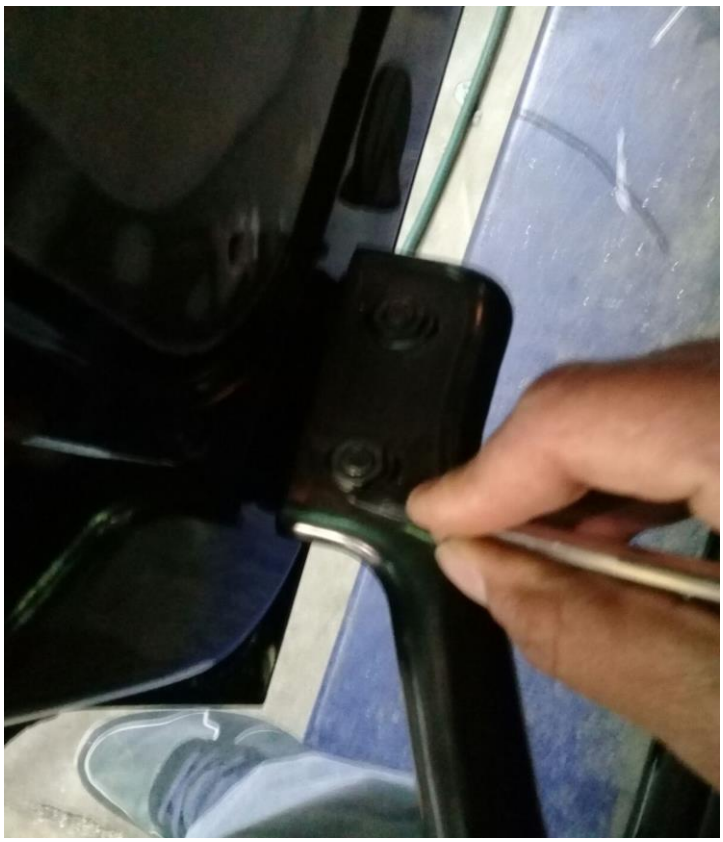
- = white,
+ = red,
COM = white-blue
ON = black

Panel Button

ASSEMBLING OF AUTOMATIC DOOR

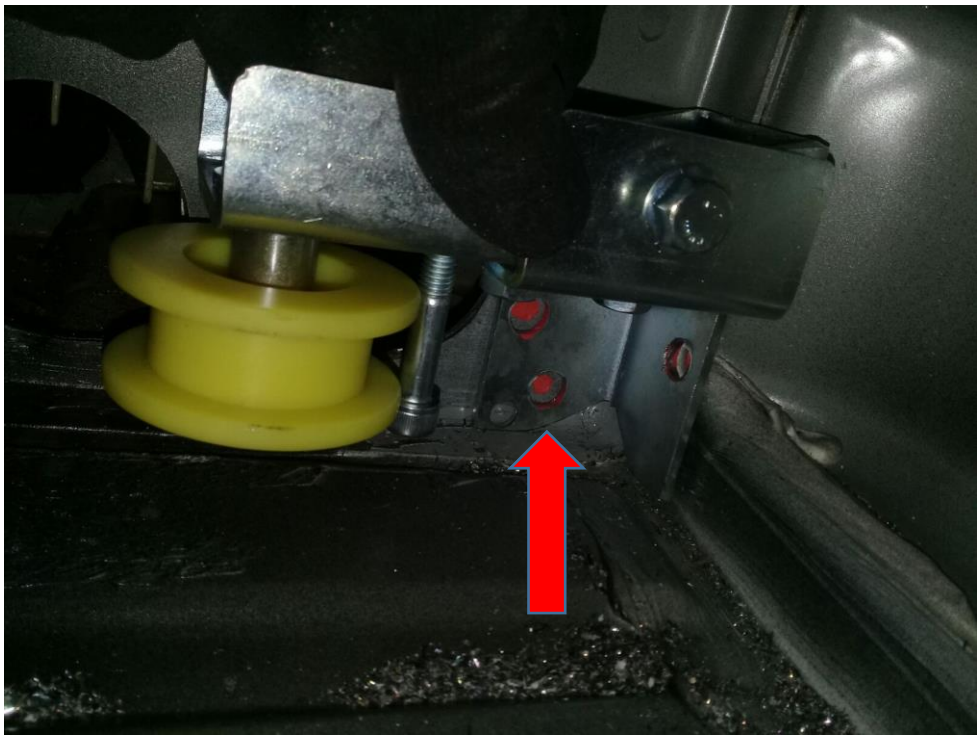


The panel button is mounted as shown in the picture.



The lower routeing foot is removed.

ASSEMBLING OF AUTOMATIC DOOR



Foot connection holes are marked as in the picture.

Foot connection holes are drilled as in the picture (Ø8.5mm).

ASSEMBLING OF AUTOMATIC DOOR

For the rear routeing bracket, the front sheet is marked and cut as in the picture.

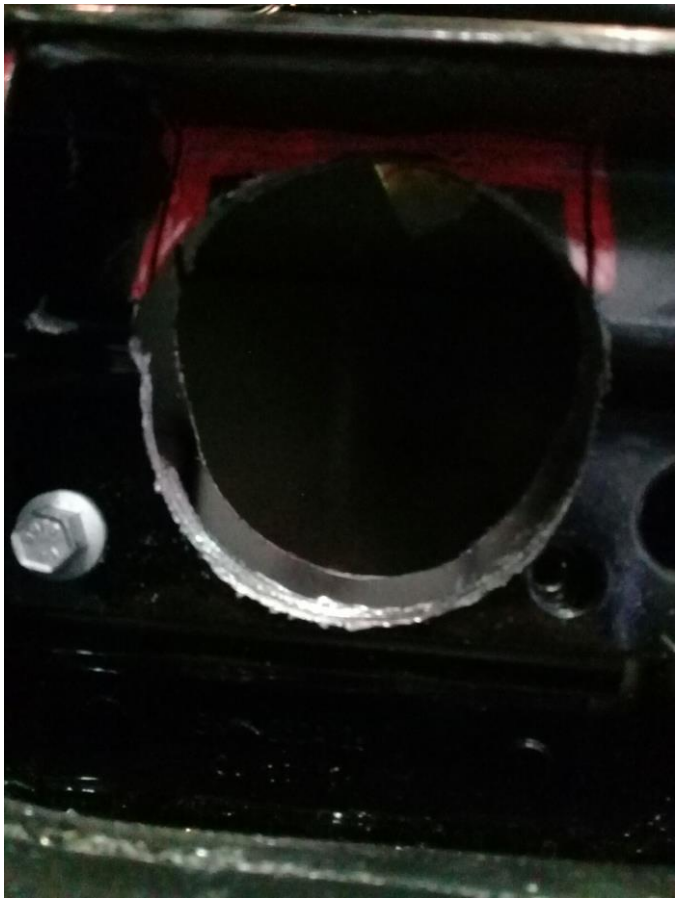
Rear routeing hole is measured and cut at 50mm from the end of the back sheet.

ASSEMBLING OF AUTOMATIC DOOR

40mm is marked from the bottom.

It is drilled with Ø60mm punch from the marked place.

ASSEMBLING OF AUTOMATIC DOOR



The top of the punctured place is cut straight as in the picture.

The bottom routeing bolt hole is measured from the back of the sheet and marked as shown in the picture.

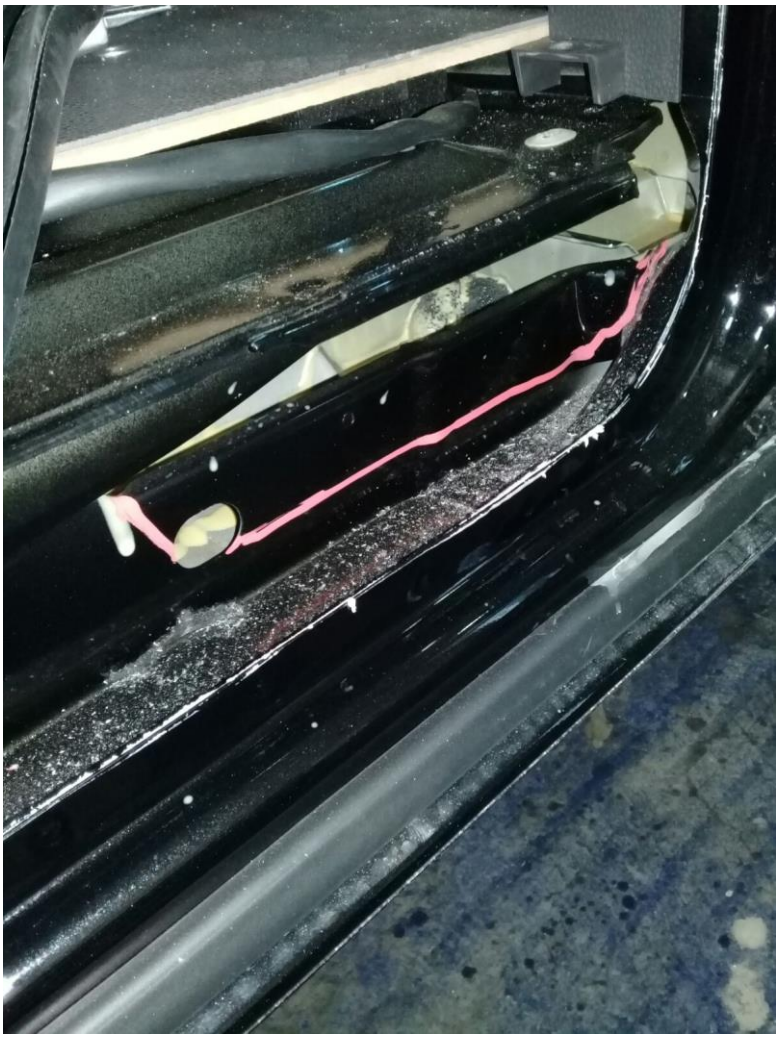
ASSEMBLING OF AUTOMATIC DOOR

20 mm from the outer part is marked and holes are drilled.
It is expanded by Ø6,5mm drill.

The lower routeing bracket is mounted as shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

Lower foot plate rivets are punctured and removed.



As it is shown in the picture, the marks are made for screwing the belt transition and ulpolene.

ASSEMBLING OF AUTOMATIC DOOR

Marked places are cut.
The sheet remaining in the intermediate pane is marked and cut.

The front part of the ulpolen is cut to 300 mm long and 5 mm wide as marked.

ASSEMBLING OF AUTOMATIC DOOR

The front part of the truncated ulpolen is bent as in the picture.
The under side of the bent part is cut for another 5 mm.

The bending part is around 18-20mm.
Double-sided tape is sticked to the inner part of ulpolen.

ASSEMBLING OF AUTOMATIC DOOR

Ulpolene is attached and screwed as shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

The assembled version of ulpolen is as shown in the picture.

ASSEMBLING OF AUTOMATIC DOOR

The transition path of the belt is as in the picture.

ASSEMBLING OF AUTOMATIC DOOR

The belt is connected as shown in the picture.

Belt adjustment is done at the point of the lower foot curve.

ASSEMBLING OF AUTOMATIC DOOR

After that the lower foot is inserted into its place.

MAINTENANCE OF DOOR SYSTEM

- Veldo Automatic Automatic door and step systems must be maintained once a year.
- System General Checks are done.
- The system belt changes.
- The unlocking pattern changes.

NOTE: Uncared products will be evaluated outside the scope of the Guarantee.

TERMS OF GUARANTEE OF DOOR SYSTEM

The terms of the warranty are part of the purchase agreement between the Veldo authorized dealer and the customer. The customer accepts the warranty terms by signature. Veldo guarantee certificate is given to the customer during delivery of the vehicle. The customer is required to present this document in order to be able to process the warranty. All of the automatic door / step including the parts are guaranteed for 2 years. The start of the guarantee is the delivery date of the Product Assembly or Customer.

DISCLAIMER OF WARRANTY TERMS

- Maintenance and repair of the automatic door / step must be carried out on time, regularly, by the appropriate technical knowledge and competent services and in accordance with the periodic maintenance and repair procedures.
- Failure to follow the instructions in the user manual.
- Automatic door / step; is used under improper conditions or under overload except for the purpose.
- If an original or non-equivalent part is attached to the automatic door / step, or if a change has been made by the manufacturer which is not technically approved.

- If the need for repairs in the purchased item is not reported in time.
- In spite of the warning made by the service, if the vehicle owner or the user has not provided the opportunity to repair it.
- Defects caused by use in extremely dusty, damp, extreme hot or cold environments.
- Failures caused by natural disasters such as flood, fire, earthquake etc.

- The depreciation and abrasion of the parts which are the result of normal use and the nature of the material is not guaranteed. Examples of these pieces that have been subjected to abrasion include system belt, unlocking tines and rollers. However, parts are guaranteed if the material, workmanship and assembly error, that is, the fabrication error, are detected in these parts. If there are any changes or modifications to the product, the warranty does not apply in case of malfunctions.

ASSEMBLING OF AUTOMATIC DOOR

The Veldo automatic door label is attached and the assembly is completed.