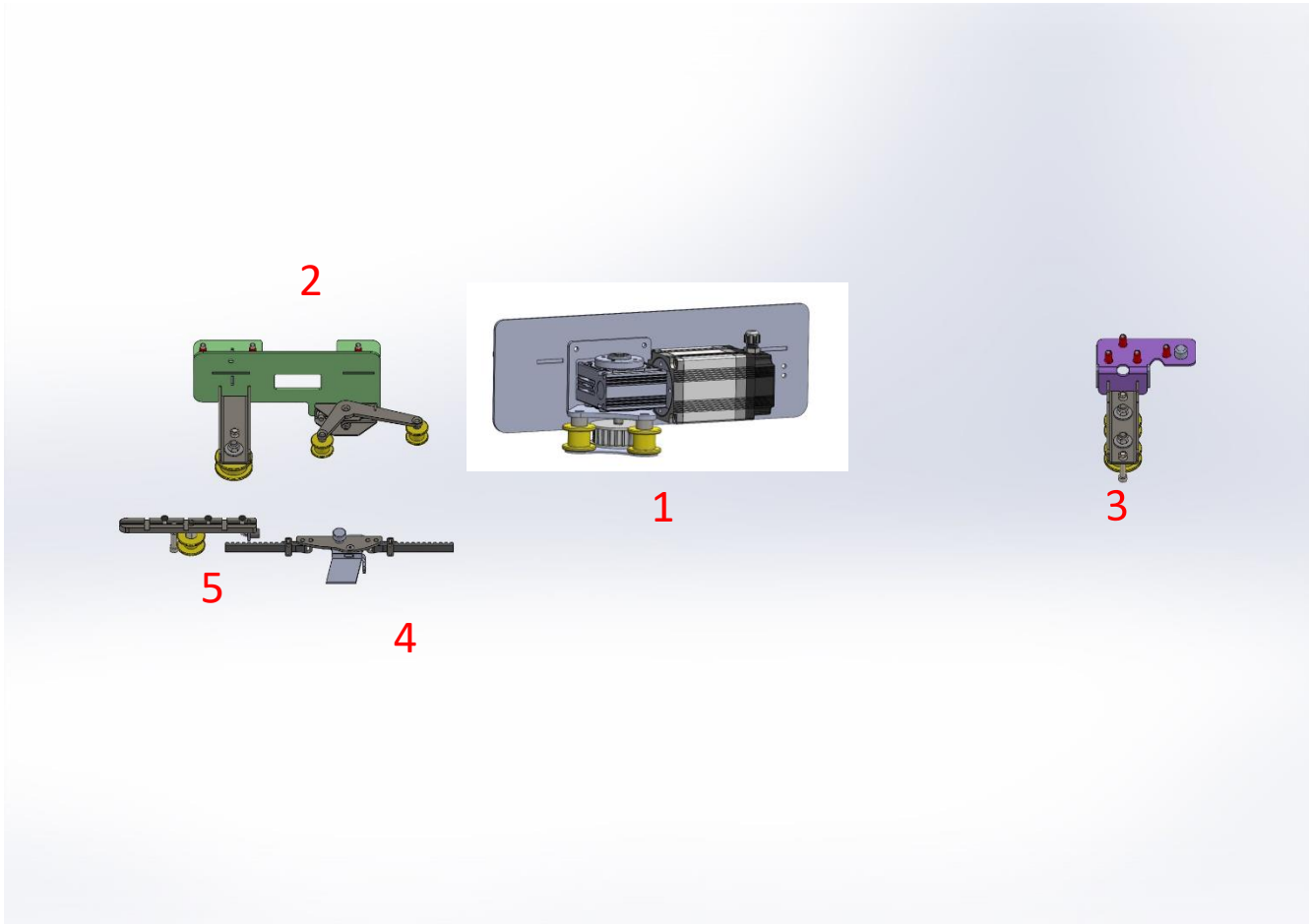


# NEW CRAFTER/MAN TGE HIGH FLOOR

AUTOMATIC SLIDING DOOR AND  
STEP SYSTEMS

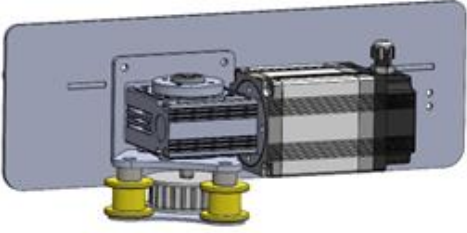


## MAIN COMPONENTS OF DOOR SYSTEM

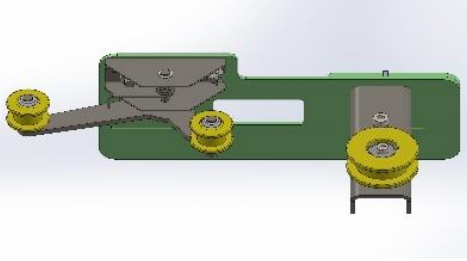


1. Main chassis group
2. Double roller foot group
3. Front foot group
4. Belt connection group
5. Belt routing group

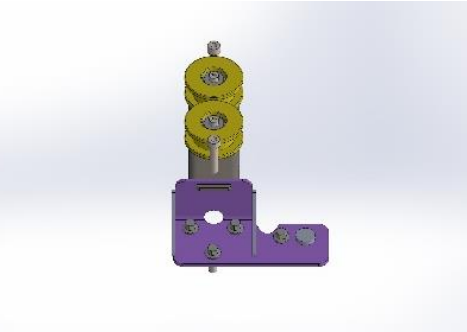
## MAIN COMPONENTS OF DOOR SYSTEM



Main Chassis Group



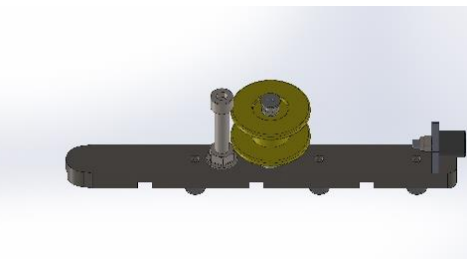
Double Roller Foot Group



Front Foot Group

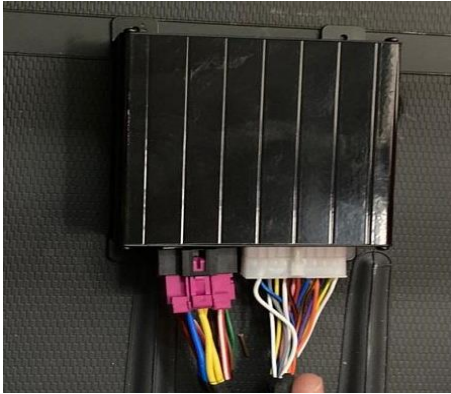


Belt Connection Group



Belt Routing Group

## MAIN COMPONENTS OF DOOR SYSTEM



**Control Unit**



**Electrical Wiring:** It provide to movement and signal control of automatic door.



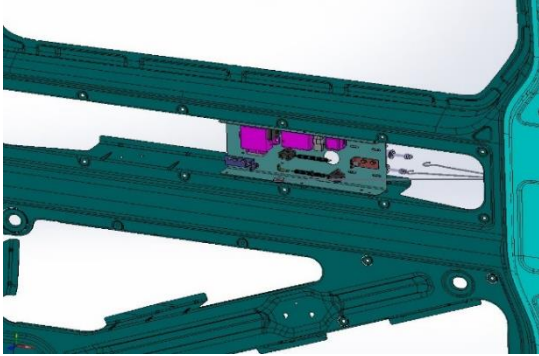
**RF Transmitter Module:** It transmission the door security and door handle signals wirelessly to the control unit.



**Unlocking System:** It is the mechanism that automatically opens the door without changing the original lock mechanism of the vehicle door.

**RF Transmitter:** Rf transmitter must be in the unlocking mechanism.

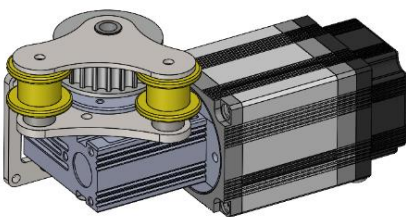
## MAIN COMPONENTS OF DOOR SYSTEM



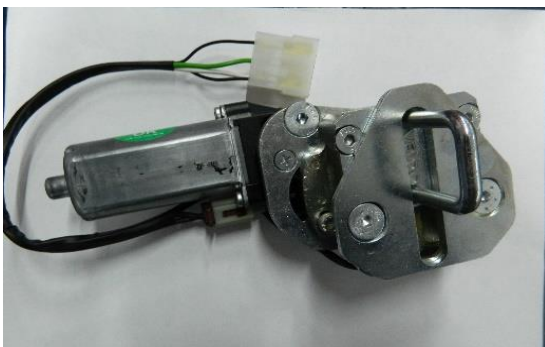
**Unlock System:** It is the mechanism that enables the door lock to be unlocked automatically without any changes to the original locking mechanism of the vehicle door.



**Door Excitation Mechanism :** It contains system units and is placed on the car chassis under the automatic door.



**Motor (Engine) Group**



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

## MAIN COMPONENTS OF DOOR SYSTEM



**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:** It is a security system that is switched on when the safety wick is disabled.

**User controlled security system:** When the door is automatically closed, the door automatically opens when the user commands from the front panel button or the door opening lever.

## SECURITY SYSTEMS OF VELDO AUTOMATIC DOOR

**Audible and light warning system:** If the automatic door opens when the vehicle is moving or standing, if the door is opened from the inside opening arm; the user is audibly alerted.

In the form of an audible warning in short tones during closing, there is an intermittent audible warning in long tones during opening. When the door is opened and closed, the control unit sounds an audible warning. The user is warned by the light in the front panel button when the door is open.

**Speed-controlled security system:** When the vehicle's speed exceeds a certain limit (5 km/h), the doors do not open, and when the vehicle is in motion with the door open, they automatically close when the speed exceeds a specific limit (5 km/h). Also, if an attempt is made to manually open the sliding door from the inside while the vehicle is in motion, 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 opening levers manually.

## WORKING WAYS OF VELDO AUTOMATIC DOOR SYSTEM



1 - With the on / off button mounted on the front chest.



2 - With the original remote control of the vehicle.



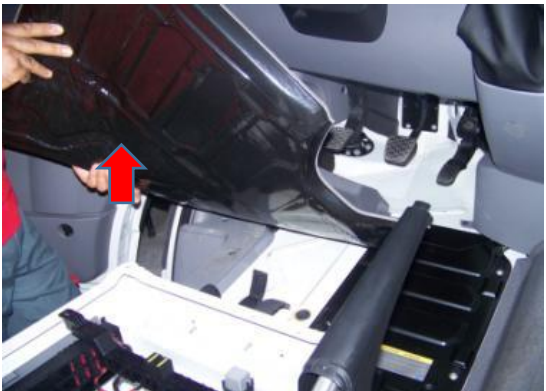
3- With the original door handle of the vehicle.



## ASSEMBLING OF AUTOMATIC DOOR



Driver and passenger seats are first removed and removed from the car in order to mount Veldo automatic sliding doors.



The front interior mats and ventilation are removed as shown.





## ASSEMBLING OF AUTOMATIC DOOR



After removing the cable channel covers, the front part of the vehicle is brought into the condition shown below.



After removing the interior handle and hanger pin on B pillar, the B pillar trim is removed.



## ASSEMBLING OF AUTOMATIC DOOR



The covering on the inner step and the inner step itself are removed.

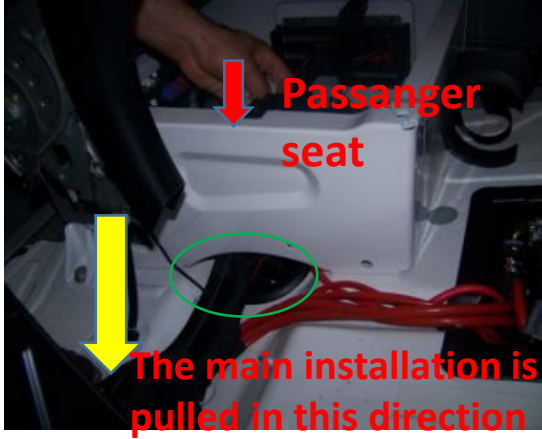


The upper and lower coverings of the sliding door are removed.



Rear plating, C mast coating and wicking removed

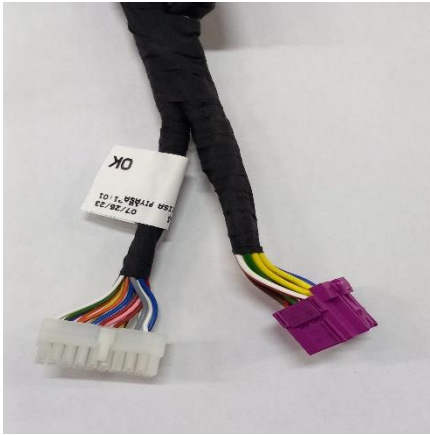
## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



The main system of the Veldo automatic door is pulled from the passenger seat pool into the driver's seat pool.



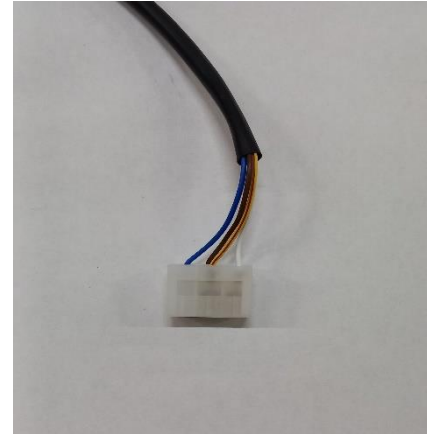
## MAIN SYSTEM INSTALLATION CABLE TIPS



1



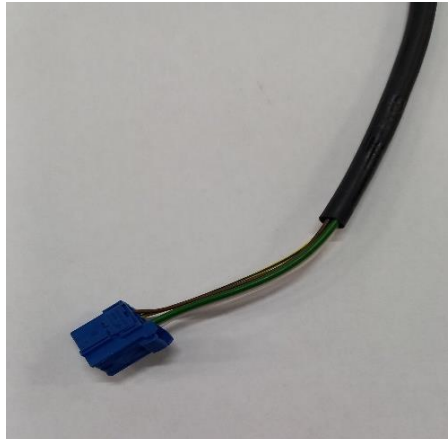
2



3



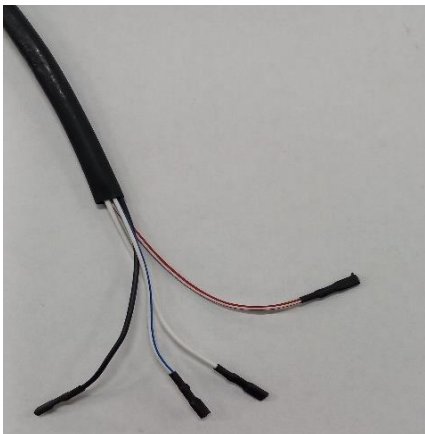
4



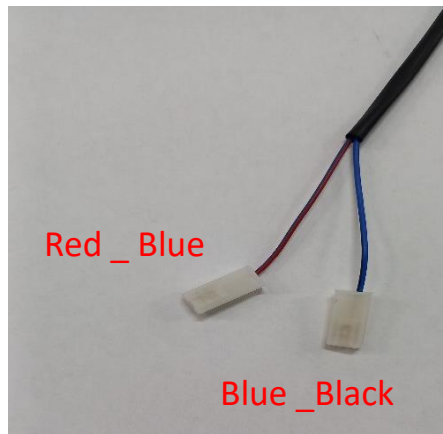
5



6

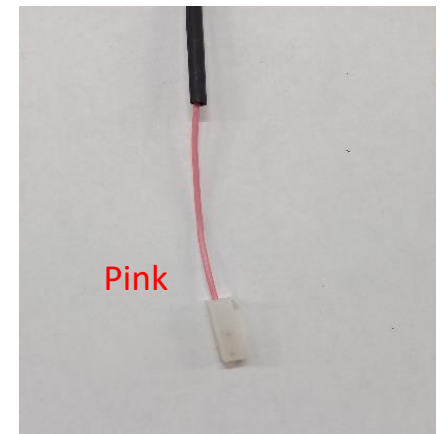


7



8

Blue \_ Black



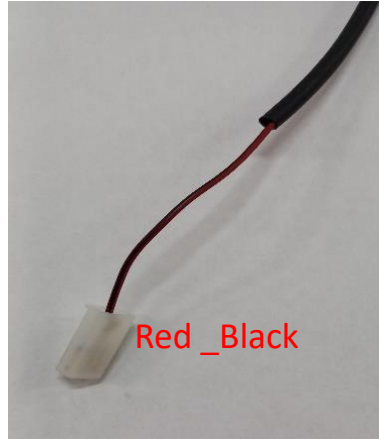
9

Pink

## MAIN SYSTEM INSTALLATION CABLE TIPS



**10**



**11**

- 1- Control Unit (ECU) Sockets
- 2-Main System Engine Output Sockets
- 3-Step Signal Socket:
- 4-**Optional**: Opkon Socket: Used only in vehicles without a door switch.
- 5-Lock Puller Socket
- 6-Power Cables
- 7-Panel Button Cables
- 8-Blue-Black (**Central Lock Unlocking**) and Red-Blue (**Central Lock Locking**) Cables
- 9-Speed Information (km/h) Cable
- 10-B Pillar Switch Cables
- 11-Ignition Open Information Cable:

The cable for the door open/close button in the main system wiring is routed from behind the center console to the panel slot. Its connectors are then plugged into the button, and finally, the panel is installed.

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

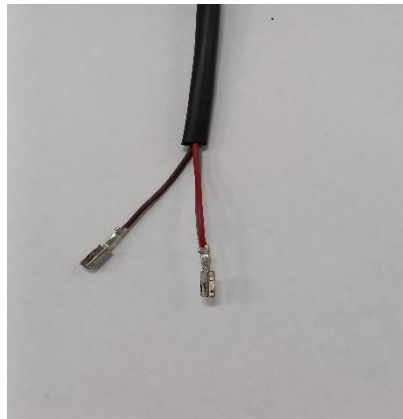


**Panel Button**

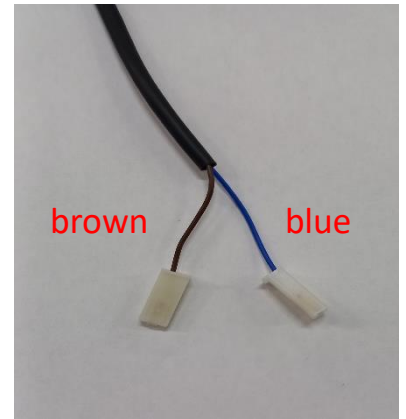
## DOOR INTERIOR WIRING CABLE ENDS



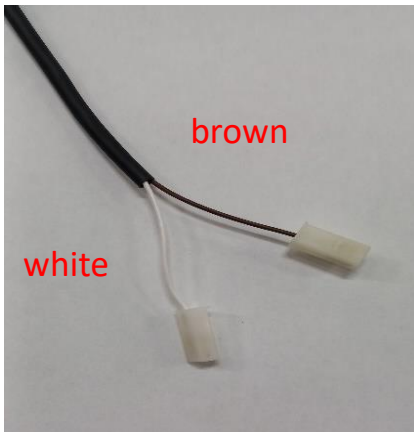
1



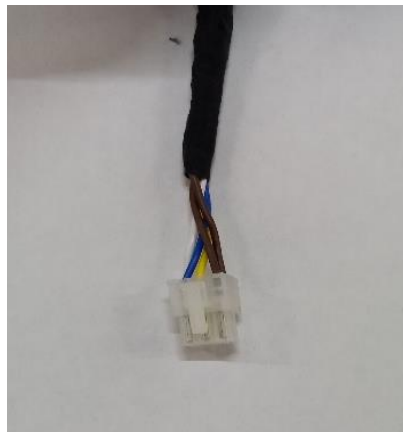
2



3



4



5

1- Indoor Cable Harness

2-Door Switch Cables

3-Spring-loaded Switch (Tractor Switch) Cables

4- Security Wick Cables

5-RF Transmitter Socket



## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



As shown, the automatic sliding door system is connected to the vehicle's original battery (+, -) located under the driver's floor mat to draw power.



The door on / off button cable in the main system installation is brought from the back of the center console to the panel socket and the plugs are attached to the butt. It is then installed in place of the panel.

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



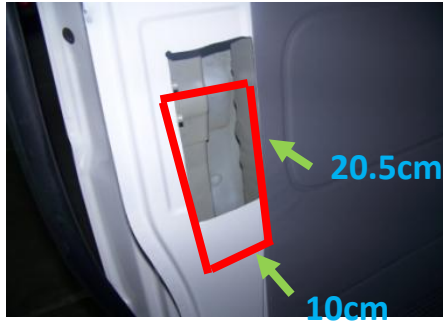
Panel Button

Add button image

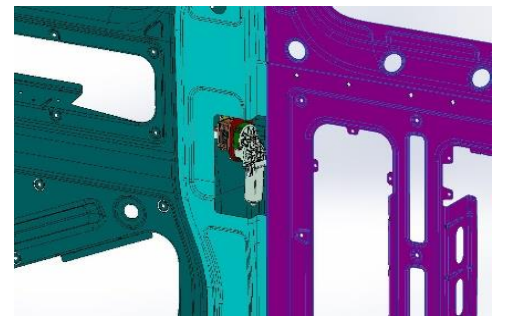
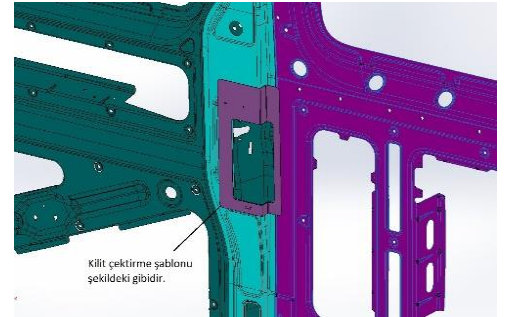




## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



Red lines are painted with zinc spray. The last one is like the figure on the right.



The centre of the vehicle is marked before the original lock is removed.

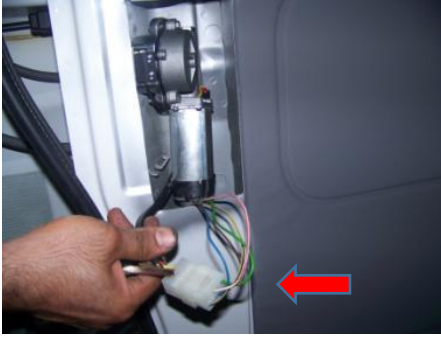


The cut is painted with zinc spray.



The lock catch mechanism is replaced.

## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



The slider door is joined with the cord extended from under the dust tires.



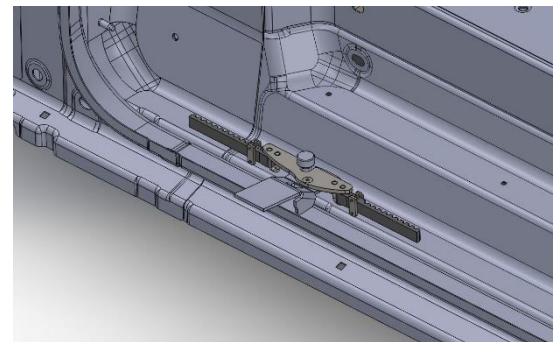
The upper lock of the sliding door is removed, the wire is taken out, and the lock is reattached. Slide door top lock release is removed, upper end bracket is cut from 0 end as seen in top lock release. It's put back in place.



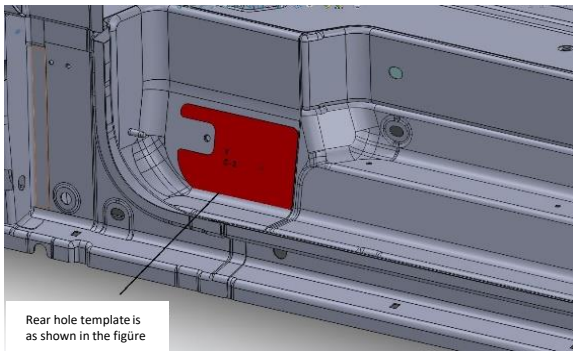
(This does not apply to short chassis, ambulance case Sprinter models.)



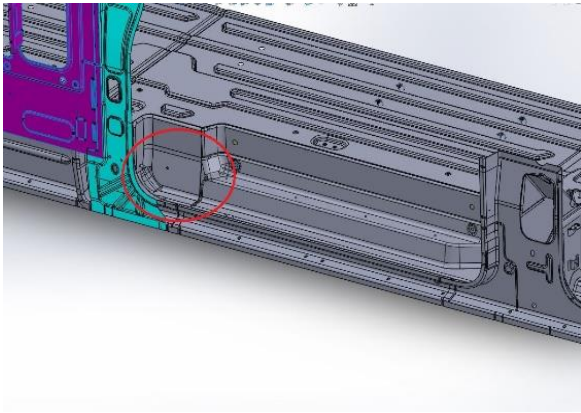
The sliding door is connected to the lower leg strap as shown in the figure.



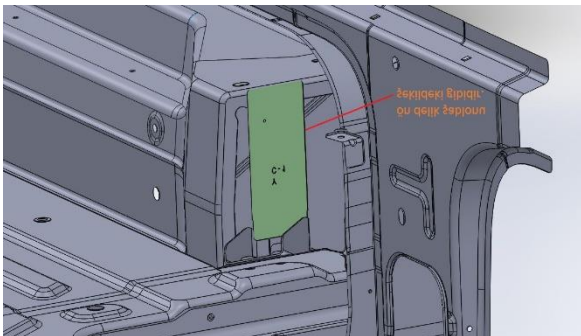
## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



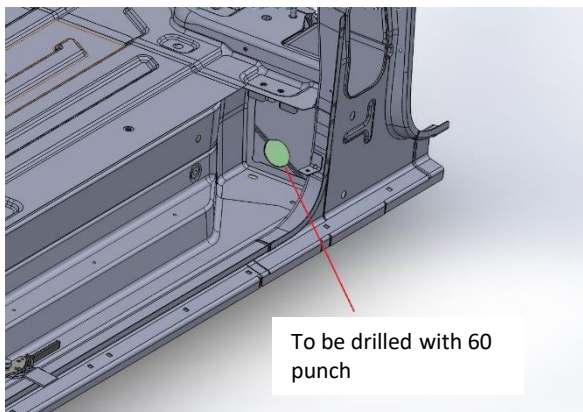
The left foot strap hole is drilled with a 60-inch punch.



The cut area is painted with zinc spray.

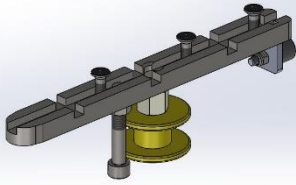


With the help of the right foot strap hole template, it is drilled with a 60-foot Punch.



The cut area is painted with zinc spray.

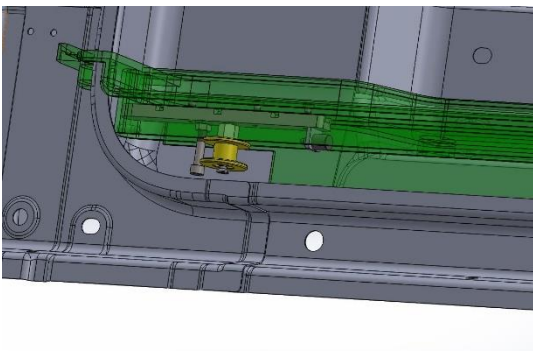
## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



Below-the-step routing group



The door termination group and the door routing group are mounted under the inner step as shown on the left and then attached to the inner step.

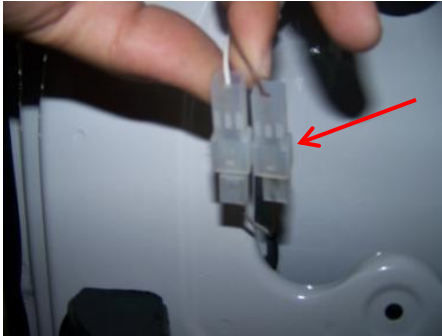




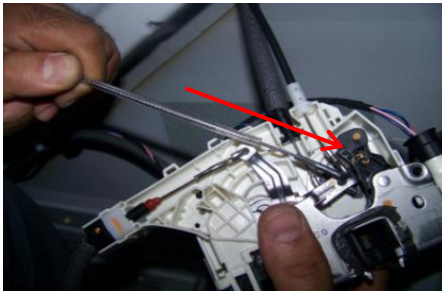
## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



The safety wick is attached to the front of the sliding door and the cable is passed through the bottom hole.



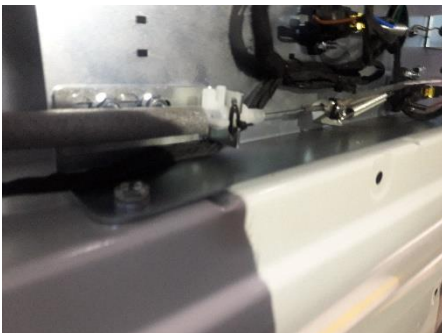
Veludo door sockets are installed inside the installation.



The original sliding door lock is removed, as shown in the figure, and the lock release Wire is inserted.



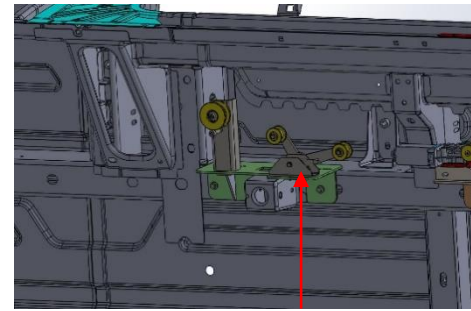
After the unlock mechanism is installed, the plugs are installed.



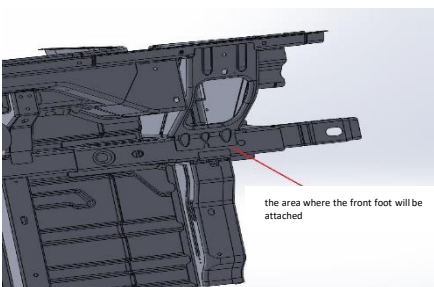
## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



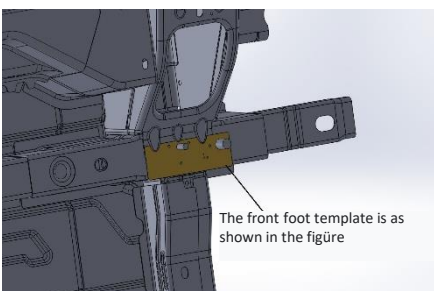
The system belt is drawn under the inner step after being passed from the right-left foot rollers, The Reducer flank rollers and the belt tension rollers.



**Note:** Belt turnbuckle should not be attached when adjusting belt.

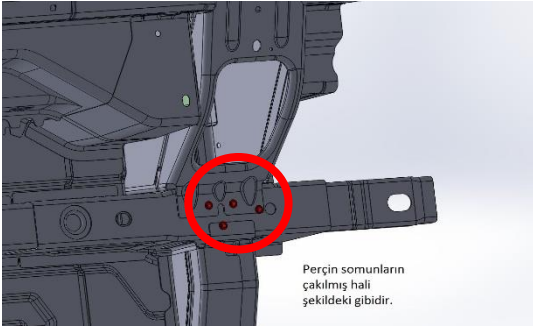


The front-chassis system will be installed in the region

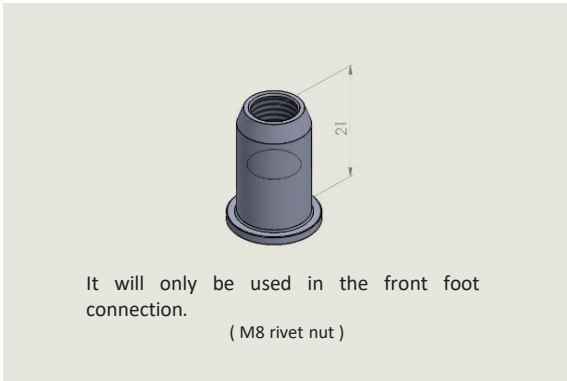


The zone to which the system will be installed is marked with the help of a template.

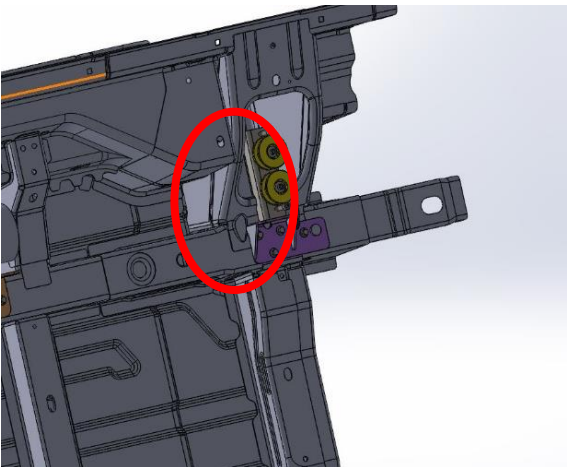
## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



For pre-chassis connection  
Rivet nuts are pushed as  
shown.



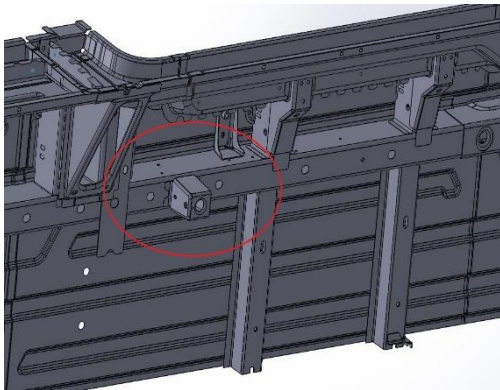
M8 and 21 mm rivets are  
used for pre-frame  
connection.



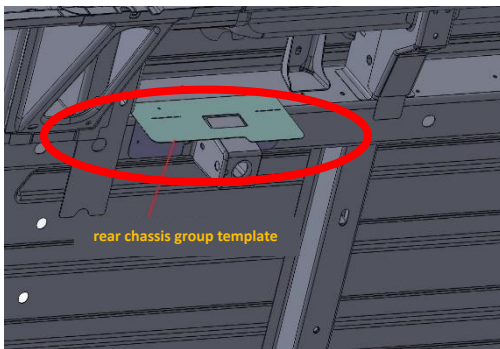
The front chassis  
connection is made as  
shown.



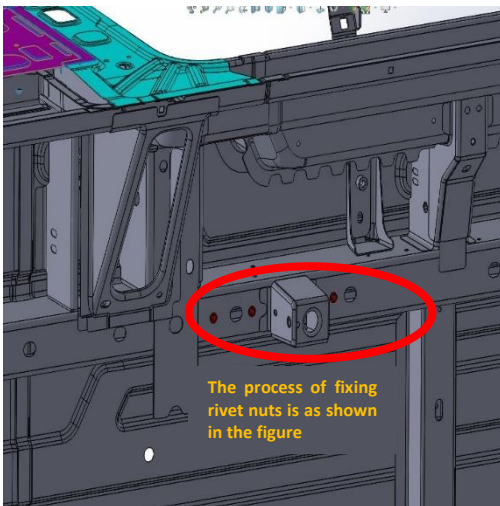
## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



The zone where the rear chassis system will be installed.



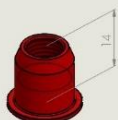
The rear chassis is marked with the help of a template in the region where the system will be installed.



The process of fixing rivet nuts is as shown in the figure



Rivet nuts are pushed as shown for the rear chassis connection.

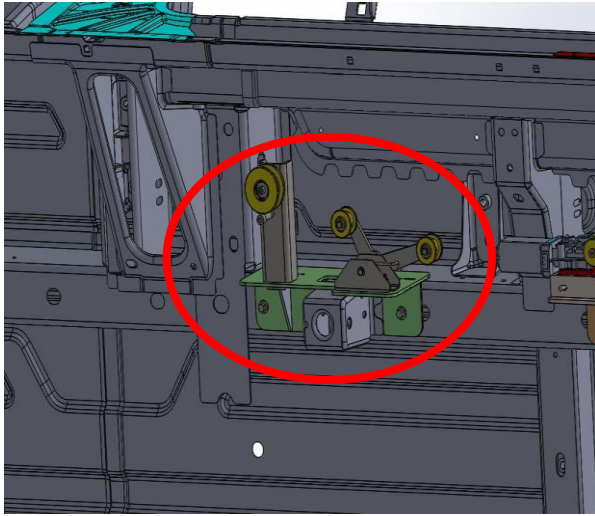


It will be used in the connection of the chassis.

(m8 rivet nut)

M8 and 14mm rivet nut will be used for rear chassis connection.

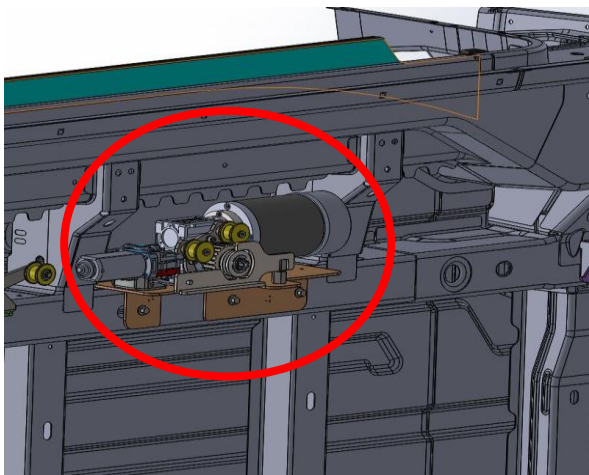
## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



The rear chassis is made as shown in the connection of the system.



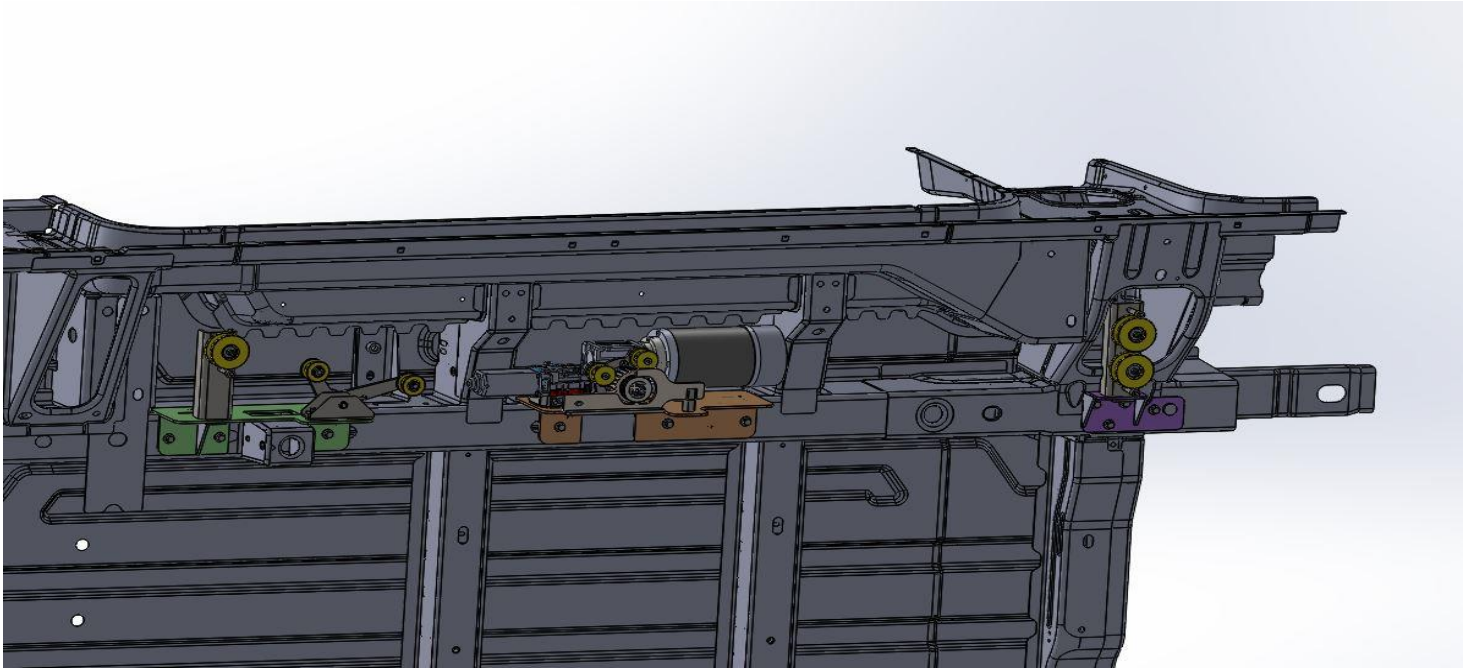
Rivet nuts are pushed as shown for the middle chassis connection.



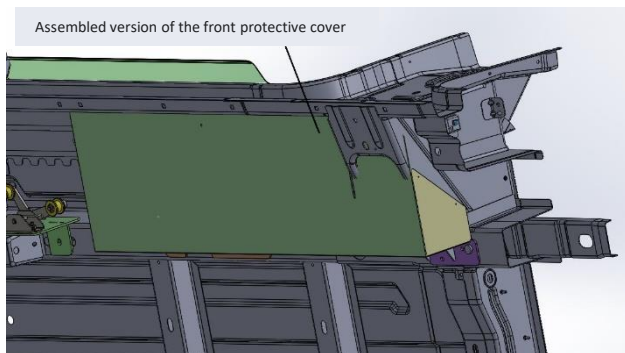
The connection of the central chassis system is made as shown in the figure.



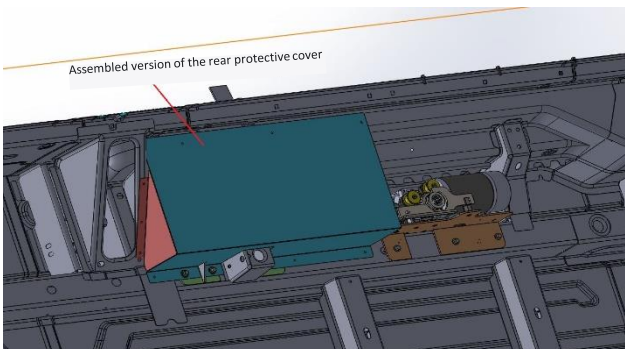
## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



In this way you can see the complete installation of the chassis system.



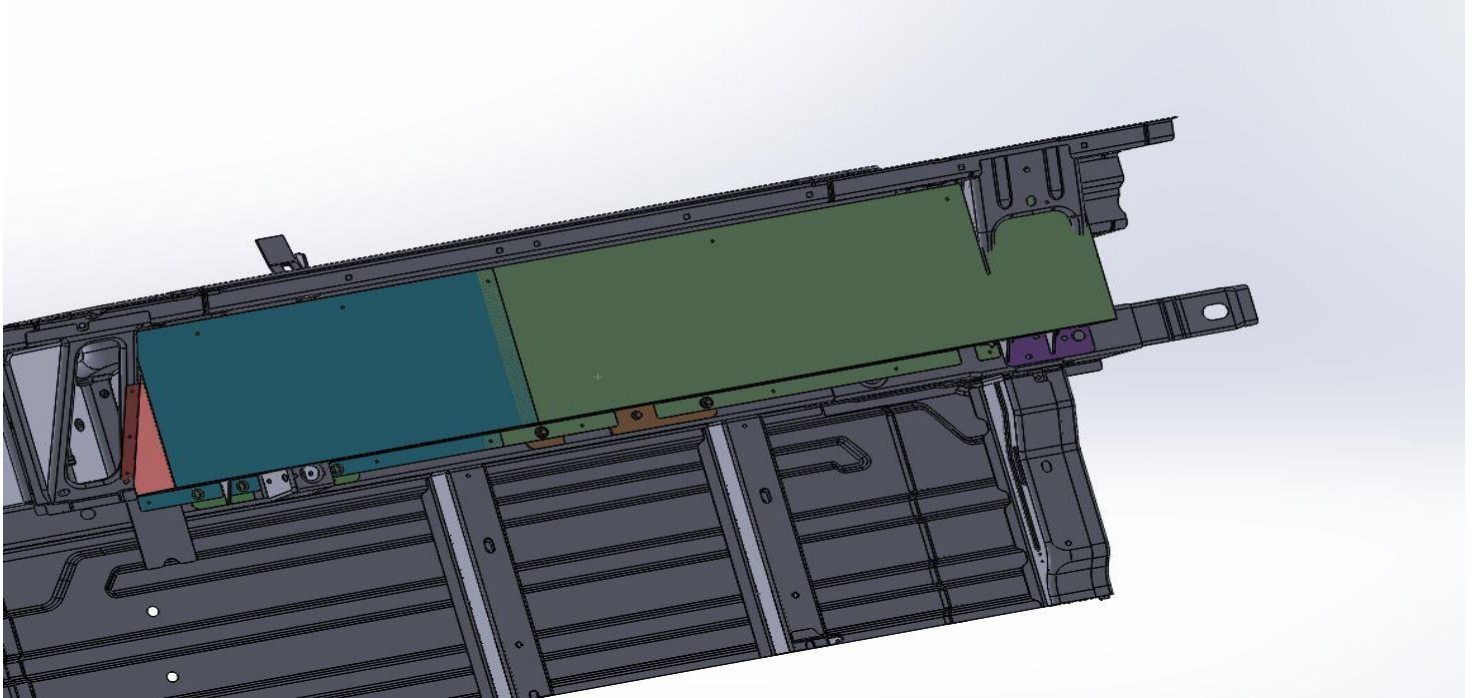
Mounting of the front protective cover is seen.



Mounting of the rear protective cover is seen.



## ASSEMBLING OF AUTOMATIC DOOR SYSTEM



In this way, you can see the complete installation of the protective covers of the chassis system.

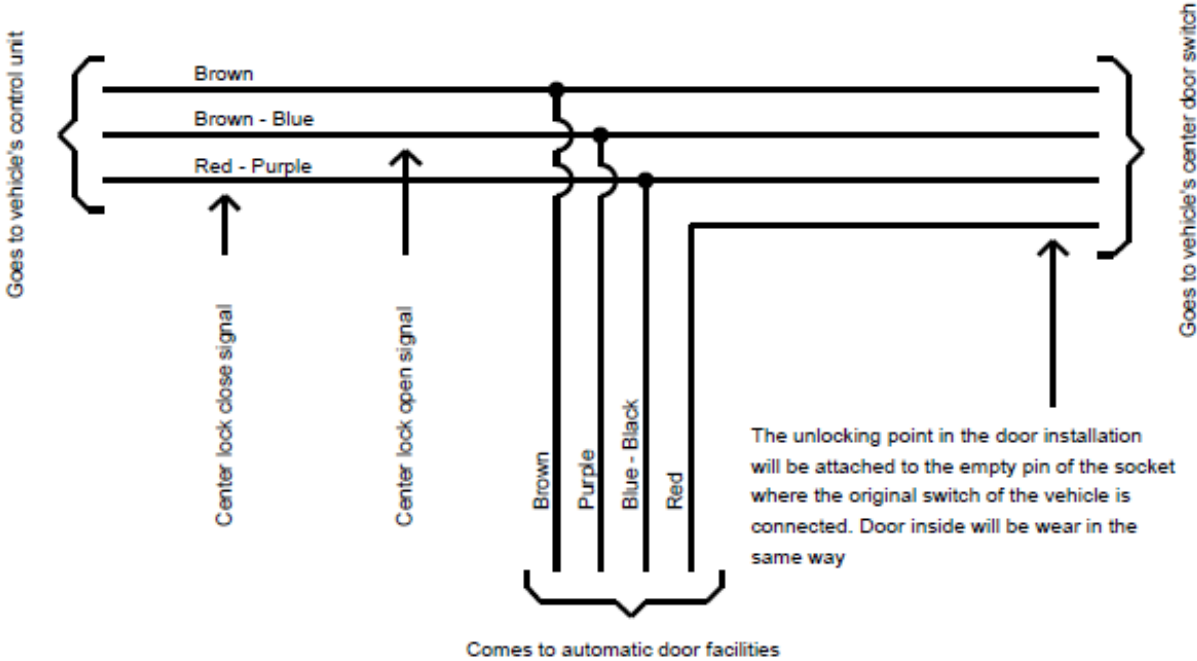


Sliding door linings, C direct linings and wicks are installed.



# DOOR SYSTEM SCHEMA

## New Crafter remote control connection schema



Note : Also ignition and vehicle's speed input at door facilities will

## ATTENDANCE OF DOOR SYSTEM

- 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 due to use at high temperatures from extremely dusty, damp, (+ 80), (- 30) degrees
- 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.
- Faults caused by insect or animal damage to the product or damage to the product cables.