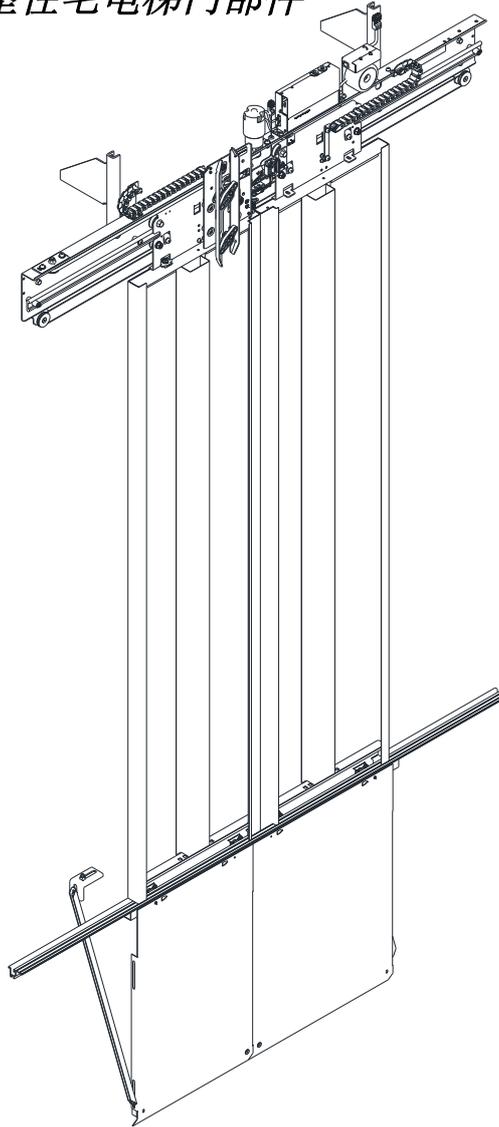


Maintenance Manual

Augusta ECO CD

Economical and Professional Lift Door

实用优质新型住宅电梯门部件



Code MM.1023926.CN

Versio -

Date 08-25-2016

safety **in** motion™

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Foreword

Congratulations on choosing a **WITTUR** product!

Before starting the installation of this product, read the information contained in this document.

You will find important warnings on how to assemble and maintain your **WITTUR** product in good operating conditions and to get the maximum of your investment.

You will also find important information concerning the product care and maintenance which are an important factor to ensure safety at all times. **WITTUR** has long been involved in research aimed at reducing noise level and in design that takes into due consideration the product quality and the conservation of environment.

This document is an integral part of the supply and must be available in the lift power room at all times.

All products are provided with identification type label and in case with certification marks in accordance with the current rules.

In case of need concerning the product, the identification data on the label must be always communicated to us.

We hope you will get full satisfaction from this **WITTUR** product. Yours faithfully.

WITTUR

WARNINGS

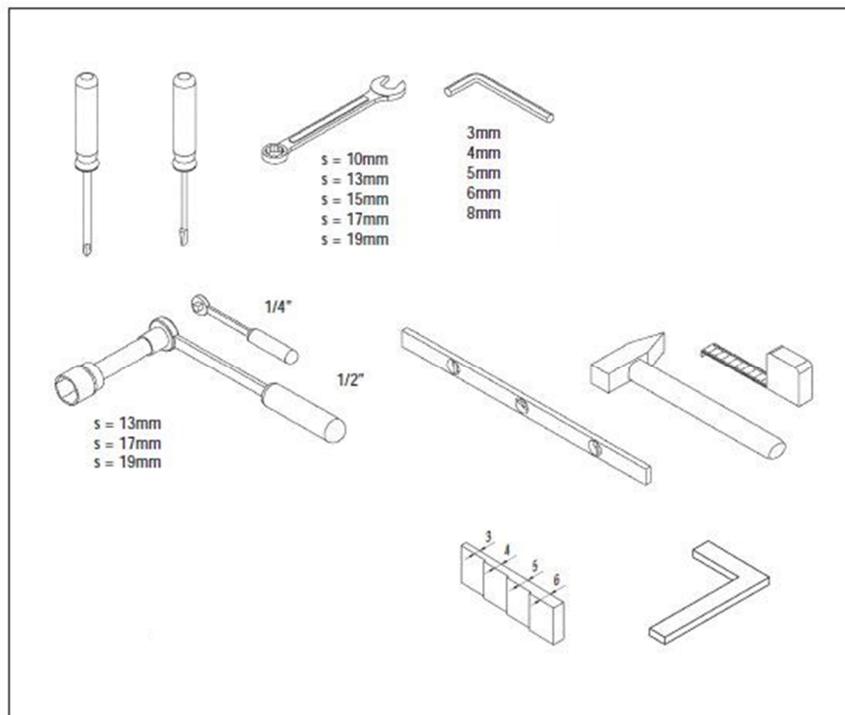
- **WITTUR** will not be held liable for any damage caused by tampering of the packing material by thirds.
- Before starting assembly, check that the product received corresponds to the order and to the packing list and that no damage has occurred in transit.
- Within its policy of continual research, **WITTUR** reserves to make changes to its products without notice. The figures, descriptions and data contained in this manual are intended as purely indicative and not binding.
- To ensure the safety of the product, avoid any alteration or tampering.
- **WITTUR** liability will be limited to the original components only.
- **WITTUR** product is intended for use in the lift sector only, therefore **WITTUR** liability shall be limited to such use.
- This product is intended for professional use. Any improper use, including for hobby or DIY, is prohibited.
- In order to prevent any injury to persons and damage to property, the handling, installation, adjustment and maintenance must be carried out by suitably trained personnel, using appropriate clothing and equipment.
- Any masonry work connected with the correct installation of the product must be executed in a workmanlike manner according to the applicable laws.
- The connection of the electric/electronic units to the local power supply must be executed in a workmanlike manner according to the applicable laws.
- All metal parts supporting the electric/electronic units must be connected to an earth system in a workmanlike manner according to the applicable laws.
- Before connecting the product to the power supply check that the product's requirement corresponds with the power supply available.
- Before starting any work on the electric/electronic components disconnect power from the system.

- **WITTUR** shall have no responsibility on the execution of masonry works or the connection of electric / electronic components to the power supply.
- **WITTUR** shall not be liable for damages/injury to property/persons caused by improper use of the emergency opening devices.

SUGGESTIONS

- Keep the material in the original packing, protected from bad weather and direct exposure to sun during the storage period in order to avoid the accumulation of water/condensation inside the packing material.
- Never dispose of packing material in the environment.
- Once dismantled, the product should be conveniently disposed as provided for by the local laws; never dispose of in the environment.
- Whenever possible, re-cycling is preferable to disposal in dump sites.
- Before re-cycling check the nature of the various materials and re-cycle in the appropriate way.

TOOLS



All screws used for the assembly of our product are screwed by means of a tightening torque as shown on following table

Screws	Max torque (Nm)	Min torque (Nm)
M3	1.1	0.9
M4	2.6	2.1
M5	5.1	4.1
M6	9	7
M8	21	17
M10	42	34
M12	71.4	57.1

1.2 Car Door Miscellaneous

Note: M=Months F=Millions of Starts

Interval	Pos.No	Description	Time (minutes)	Details
12M	-	Check for damages	5	Section 1.1
12M	-	Check for corrosion	5	
12M	-	Clean and dry mechanism	5	
12M	-	Clean rail, no oil	5	
12M	01	Clean car sill	10	
12M	01	Check sill gap	5	
12m	02	Check function of sliding shoes	5	Section 10.3
12M	03	Check vertical parallelism of door panels	10	Section 4
12M	03	Check alignment of door panels	5	
12M	03	Check gaps between door panels and car front	5	
12M	03	Check gaps between door panels and sill	5	
12M	03	Check if no tilt of panels	5	
12M	03	Check easy and smooth running of door panels	10	
12M	04.06	Check upper rollers, counter rollers and retaining washers	15	Section 2
12M	05	Check the toothed belt tension	5	Section 7
12M	07	Check penetration of hook lock and lock engage	10	Section 3
0.5F	07	Check condition of safety contact	10	Section 1.1
0.5F	07	Correct function and bearing gap of lock roller and lock bearing	10	
0.5F	08	Check condition of contact bridge	10	
12M	09	Check condition of buffer limit bolts	2	
12M	10	Check synchronization rope tension	2	Section 5
12M	11	Check emergency unlocking device	10	Section 6

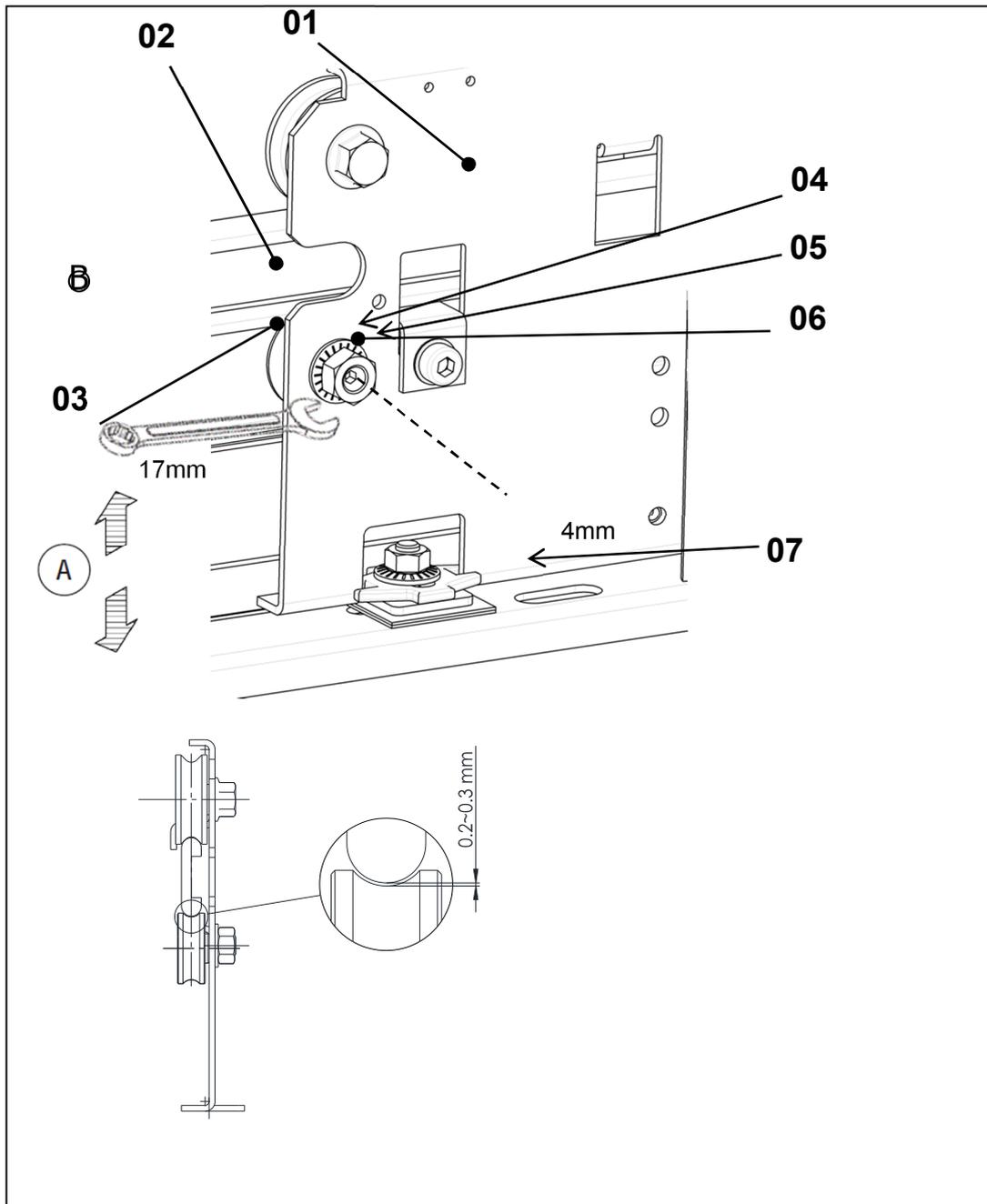
1.3 Car Door Specials

Interval	Pos.No	Description	Time (minutes)	Details
12M	07	Check adjustment of car door interlock	15	Section 3
3F	11	Check car door emergency unlocking device	15	Section 6

1.4 Replacement

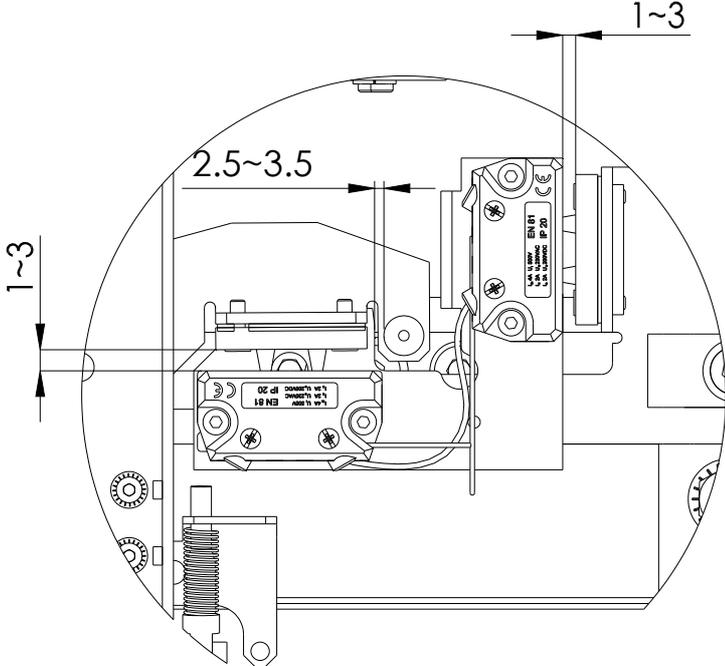
Interval	Pos.No	Description	Time (minutes)	Details
6F	03	Replace door panels	15	Section 10.1
1F	05	Replace top rollers	15	Section 10.2
3F	05	Replance counter rollers	15	Section 10.2
2F	02	Replace sliding shoes	5	Section 10.3
3F	-	Replace coupler	5	Section 10.4
3F	05	Replace toothed belt	10	Section 10.5

2 Adjustment of Eccentric Rollers



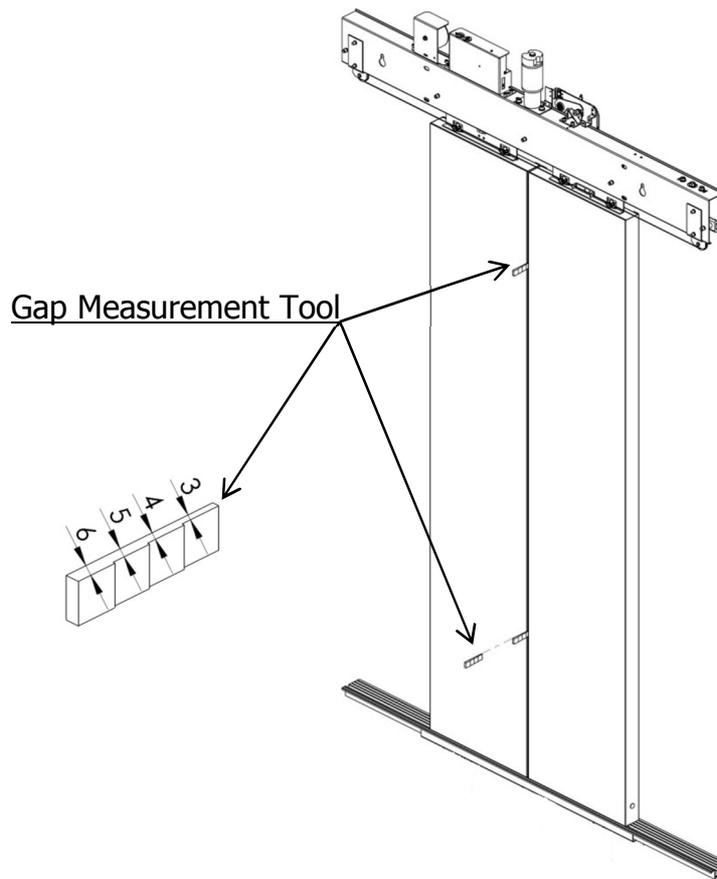
Step	Action	Note
1	Loosen the nut and washer (4,5) with a 15 mm spanner, 4 mm allen key	To get rid of the gap between truck (1) and railing (2) by adjusting the eccentric roller (3) on bottom
2	Turn the eccentric bolt (6) clockwise or counter clockwise, as indicated by the arrows (B) with a 4 mm allen key (7) so as to get rid of the play between the guide and roller in the A direction but leaving enough play to allow the roller to rotate freely	
3	Check if the truck slide freely then tighten the fixing nut (5).	

3. Coupler LOCK

Step	Action
1	Close the car door fully so that the trucks are against the buffer limit bolt (1) and check the lock function. The lock play should be about 3 mm (not adjustable) - Ensure the play doesn't influence the function of safety contact and the contact bridge
<p data-bbox="290 412 756 472">Note Door operator (DOP) in closed position</p>  <p data-bbox="290 1173 1347 1234">Door should be completely closed; there should be a $3(\pm 0.5)$mm clearance between the hook and the lock.</p>	

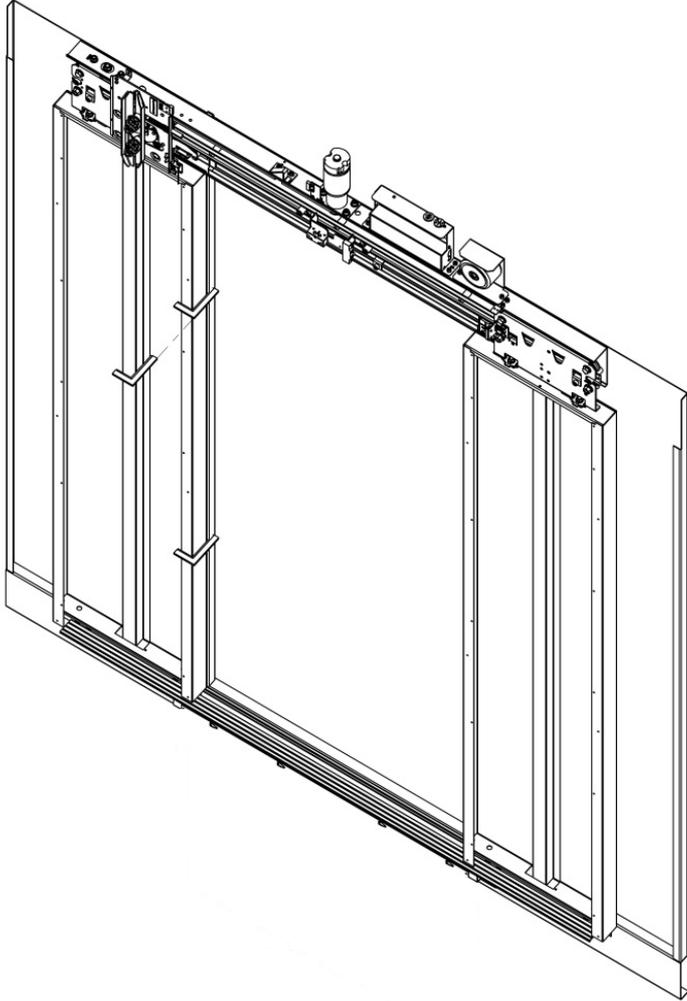
4. ADJUSTMENT OF DOOR PANEL

4.1 Adjustment of Panel Running Clearance

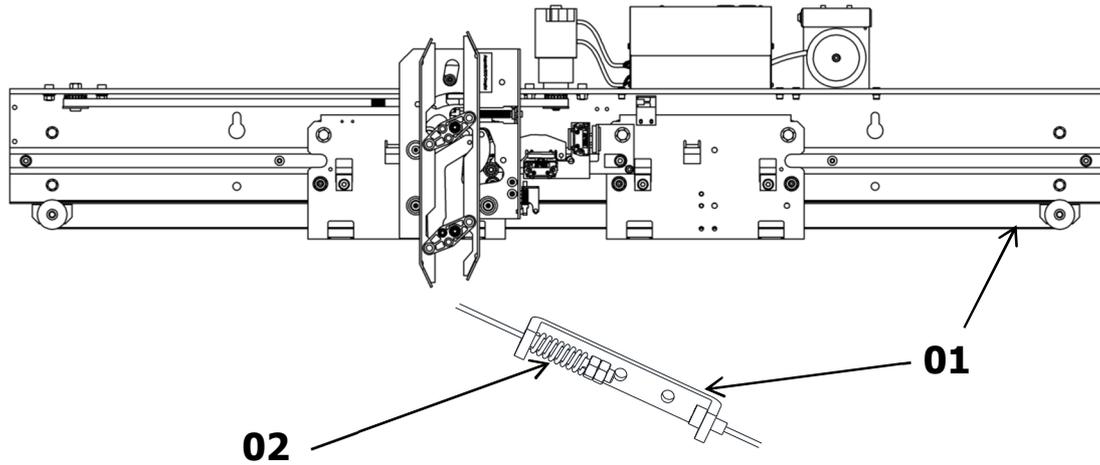


Step	Action	Note
1	Close the door	DOP in closed position
2	Check that the gap between panels is about 3mm. and the gap between panel and sill is $>2, <6$ mm.	
3	Open the door	DOP in open position
4	Check the gap between panel and car front wall $>2\text{mm}, <6\text{mm}$.	

4.2 Alignment of Door Panels

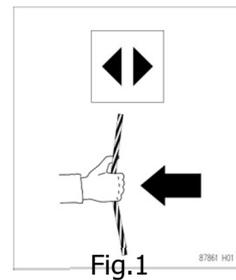
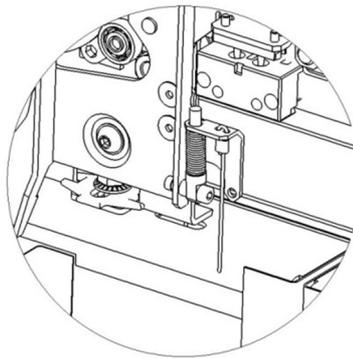
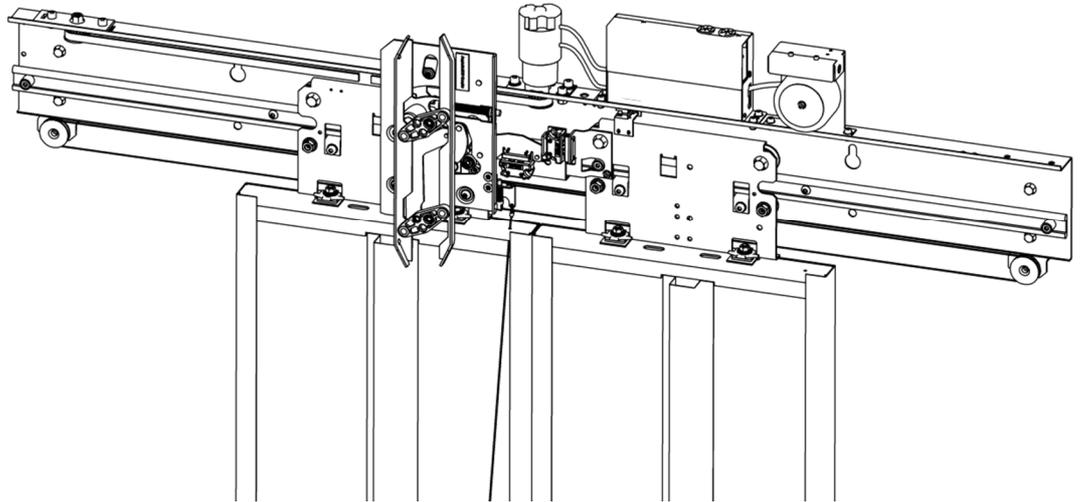
Step	Action	Note
1	Open the door Adjust the door panels vertically against car front wall	DOP in open position 

5 TRANSMISSION ROPE



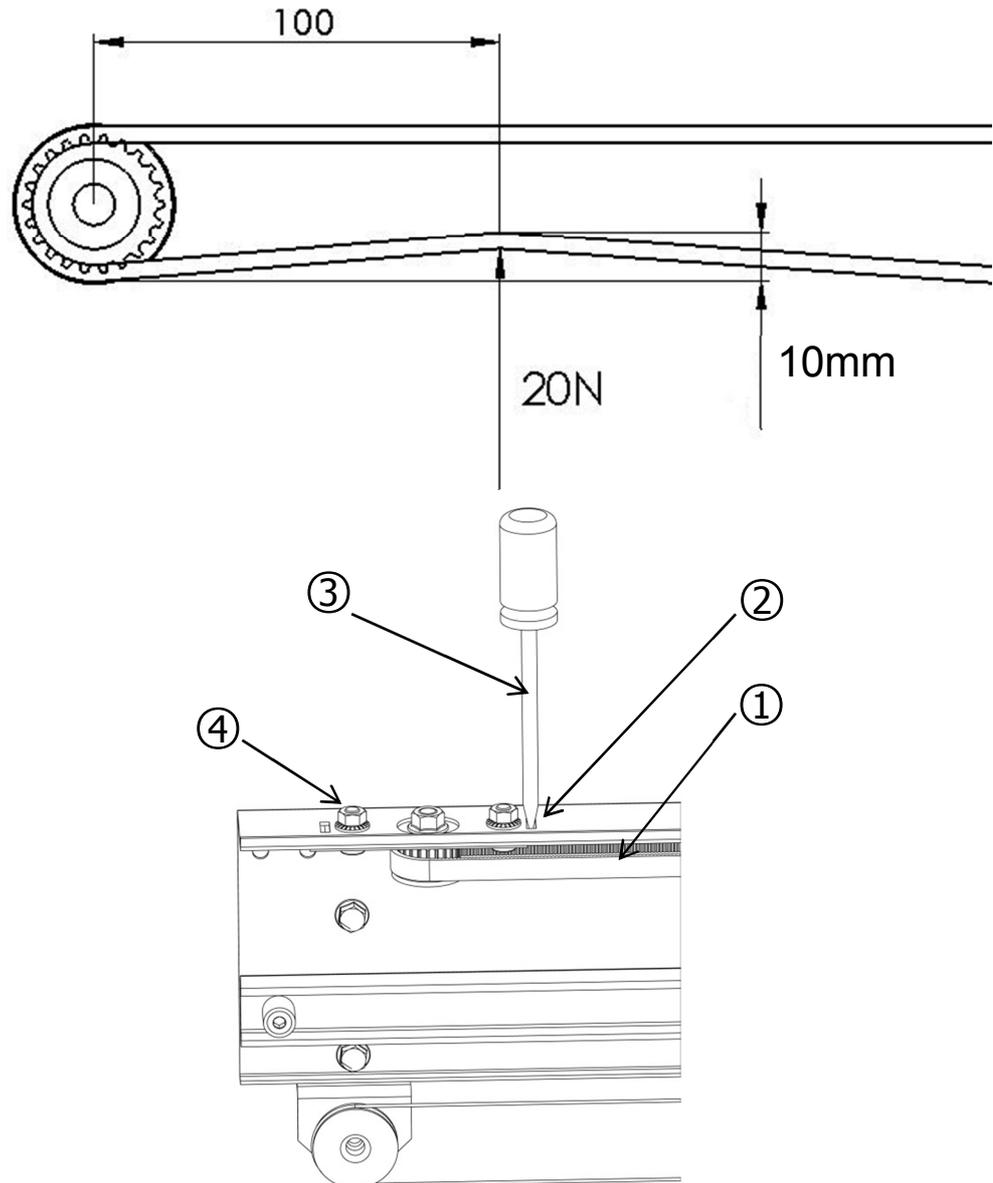
Step	Action	Note
1	The transmission cable is pre-tensioned by spring	When replacing the cable (1) make sure that the spring (2) is compressed by 3mm

6 CHECK COUPLER EMERGENCY UNLOCKING DEVICE



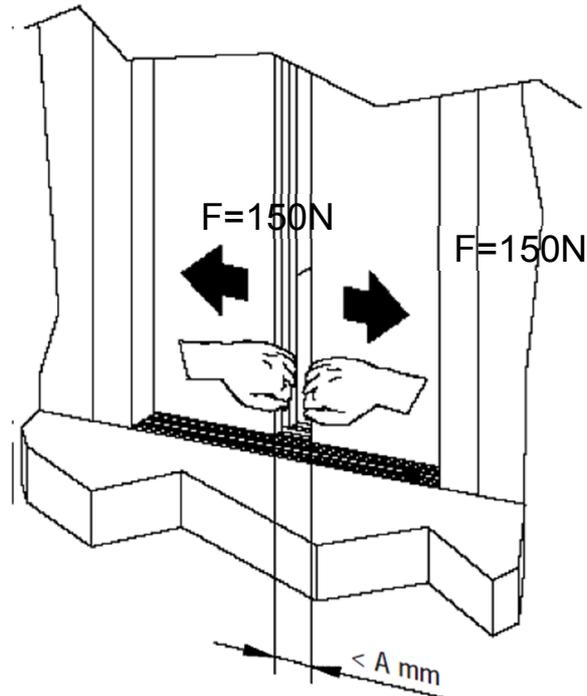
Step	Action	Note
1	Open landing door at floor level	The coupler vanes isn't between the lock rollers of landing door
2	Unlock the car door lock by pull the rope shown as Fig.1. Then open the car door.	

7. Adjustment Of Toothed Belt



Step	Action	Note
1	To adjust tension of toothed belt (1), move support (2) using a screwdriver (3) and verify dimension "a", then fix the position by tightening the screws (4).	

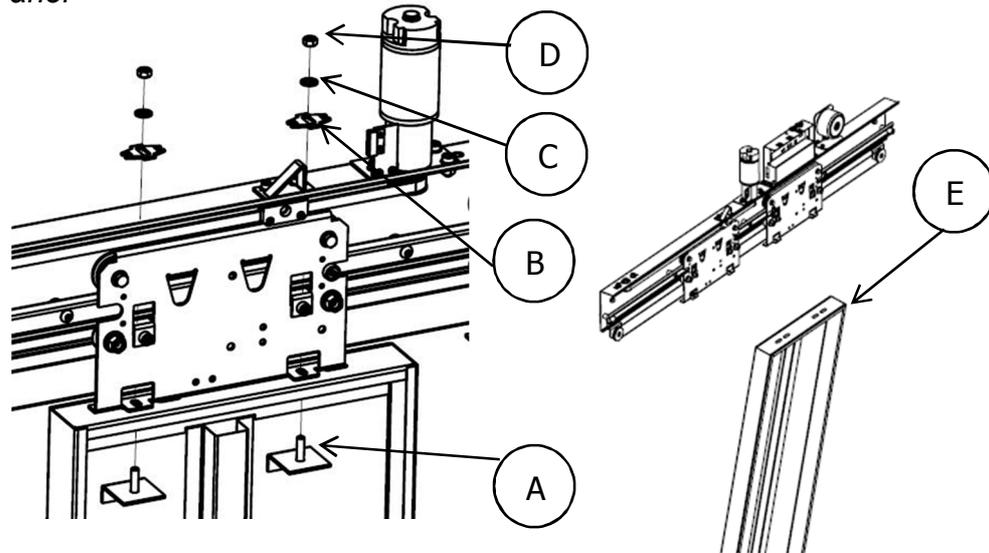
8 Mechanical Strength



Step	Action	Note
1	Close (lock) the door.	
2	Apply 150N at the panel bottom	The measured value (A) shall not exceed 45 mm
3	If the maximum tolerance has been reached, check the adjustment and eccentric roller (see chapter 2)	

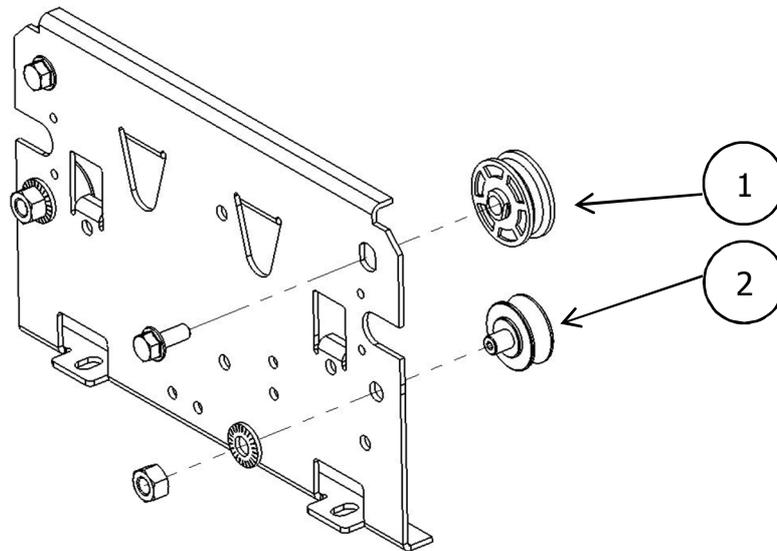
9. REPLACEMENT

9.1 Door Panel



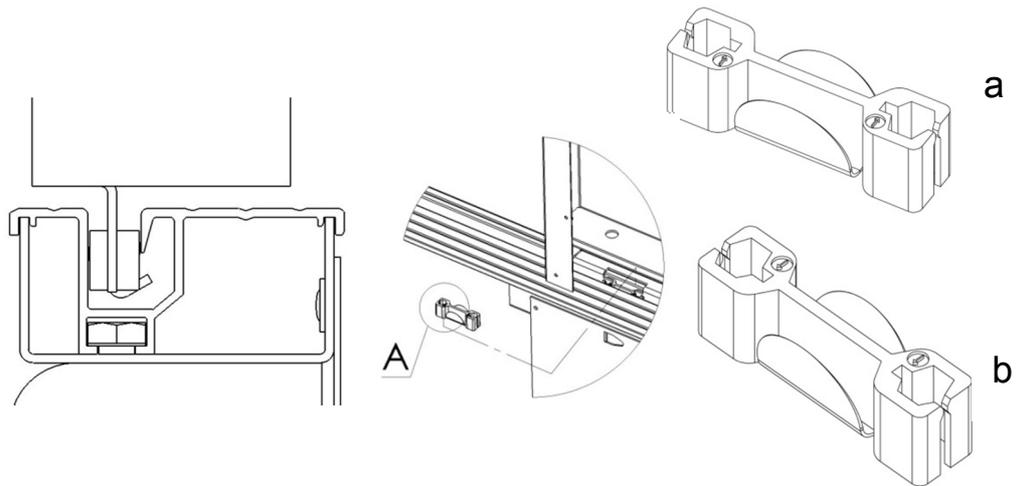
Step	Action
1	Close the door
2	Loosen the screws, washers and nuts (A/B/C/D)
3	Remove the car door panels (E)

9.2 Rollers



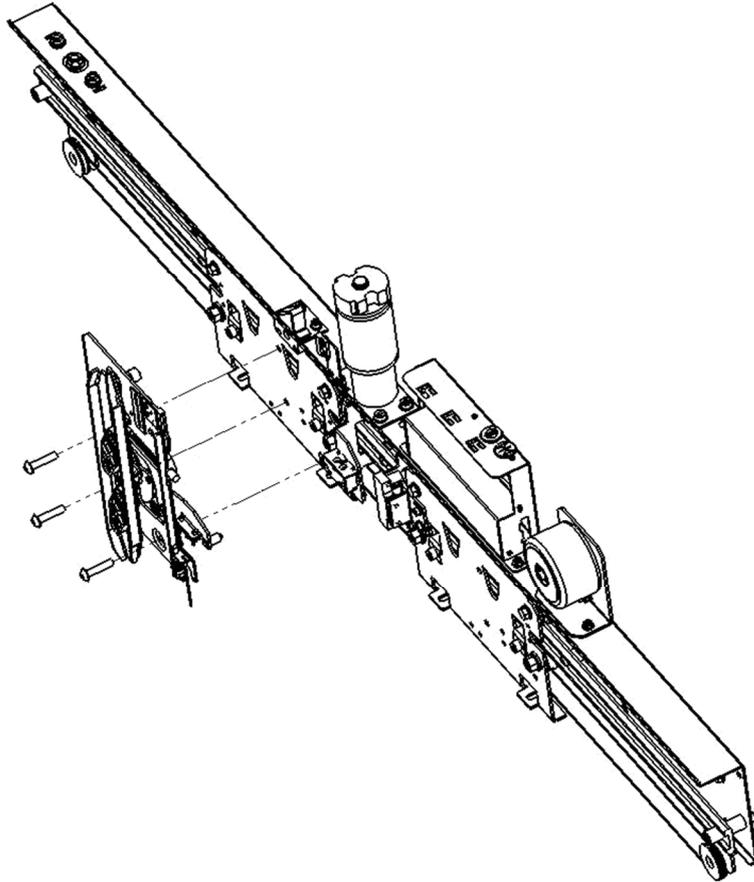
Step	Action	Note
1	Disassembly old upper rollers	<ul style="list-style-type: none"> a) Remove door panel b) Remove fixation nut and washer of counter roller c) Remove counter roller (2) d) Remove fixation screw of upper roller e) Remove old upper roller (1)
2	Assembly new upper rollers	<ul style="list-style-type: none"> a) Mount new upper roller (1) and tighten fixation screws b) Remount counter roller (2) and fixation accessories without fixing c) Adjust counter roller (see chapter 2) d) Tighten fixation nut of counter roller e) Remount door panel f) Adjust panel (see chapter 4) g) Check movement of the door
3	Disassemble old counter rollers	<ul style="list-style-type: none"> a) Remove fixation nut of counter roller b) Remove old counter roller (2)
4	Assemble new counter rollers	<ul style="list-style-type: none"> a) Mount new counter roller (2) and remount nut without fixing b) Adjust counter roller (see chapter 2) c) Tighten fixation nut of counter roller d) Check movement of the door

9.3 Sliding Shoes



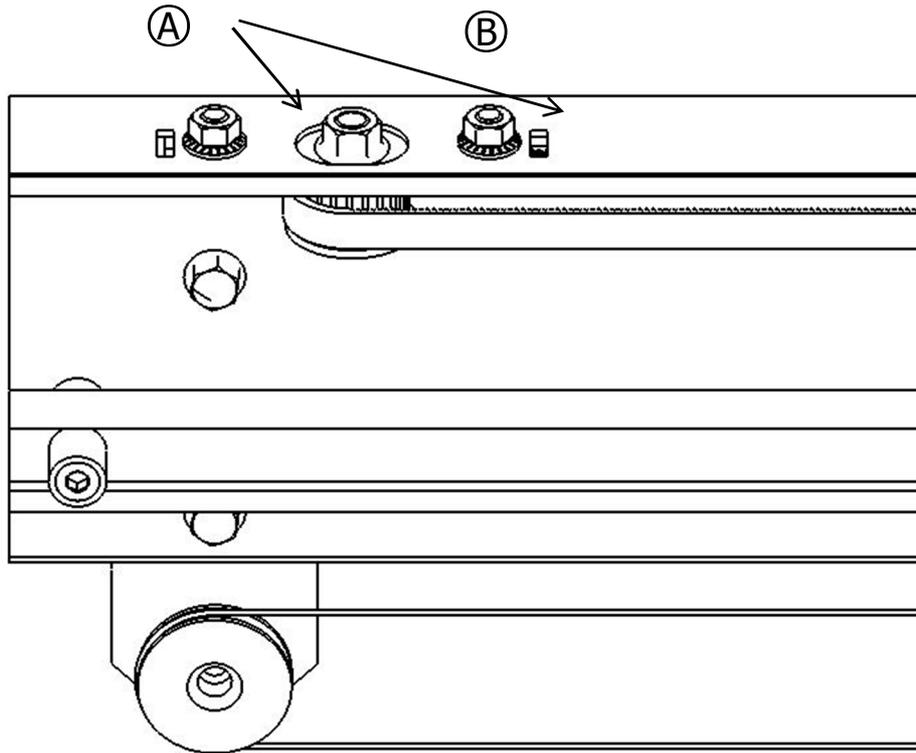
Step	Action	Note
1	Check gap "B" at the sill	If the gap "B" > 3 mm replace the sliding shoe
2	Disassemble sliding shoes without removing door panels	Use screw driver to pull out the sliding shoes
3	Assemble new sliding shoes; Check the movement of the panels.	The arrow on sliding shoe should be placed according picture a (painted panel) and b (cladded panel)

9.4 Coupler Replacement



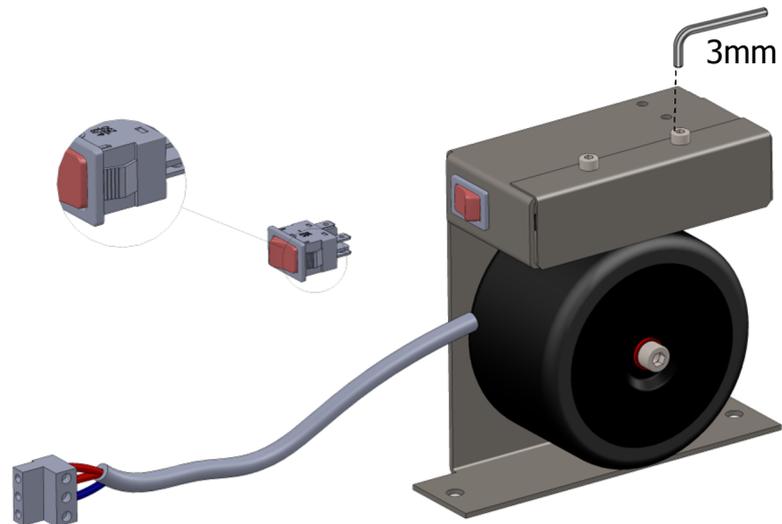
Step	Action
1	Close the door
2	Loosen the screws (A)
3	Remove the old coupler (B) and fix the new one

9.5 Replace Toothed Belt



Step	Action
1	Loosen screw and nuts (A).
2	Move the toothed belt pulley in direction B
3	Remove the old toothed belt
4	Fix new toothed belt and adjust its tension (see chapter 7)

9.6 Replace the power switch



Step	Action
1	Loosen screw with 3mm Allen key and remove the transformer cover (a).
2	Unplug the wires connected to the power switch.
3	Remove the power whitch.
4	Fix new stitch and re-plug the wire according to the schema

WARNING ON HOW TO KEEP THE DOORS IN GOOD OPERATION CONDITIONS

In order to prevent failures or incorrect operation and to maintain the system in good conditions, the technical efficiency of the system should periodically be checked, to ensure compliance with the applicable laws.

The technical efficiency depends on various factors such as:

- Work load
- Years of operation
- Door weight
- Climatic and environmental conditions
- Cleanness of environment
- Correct maintenance
- Etc.

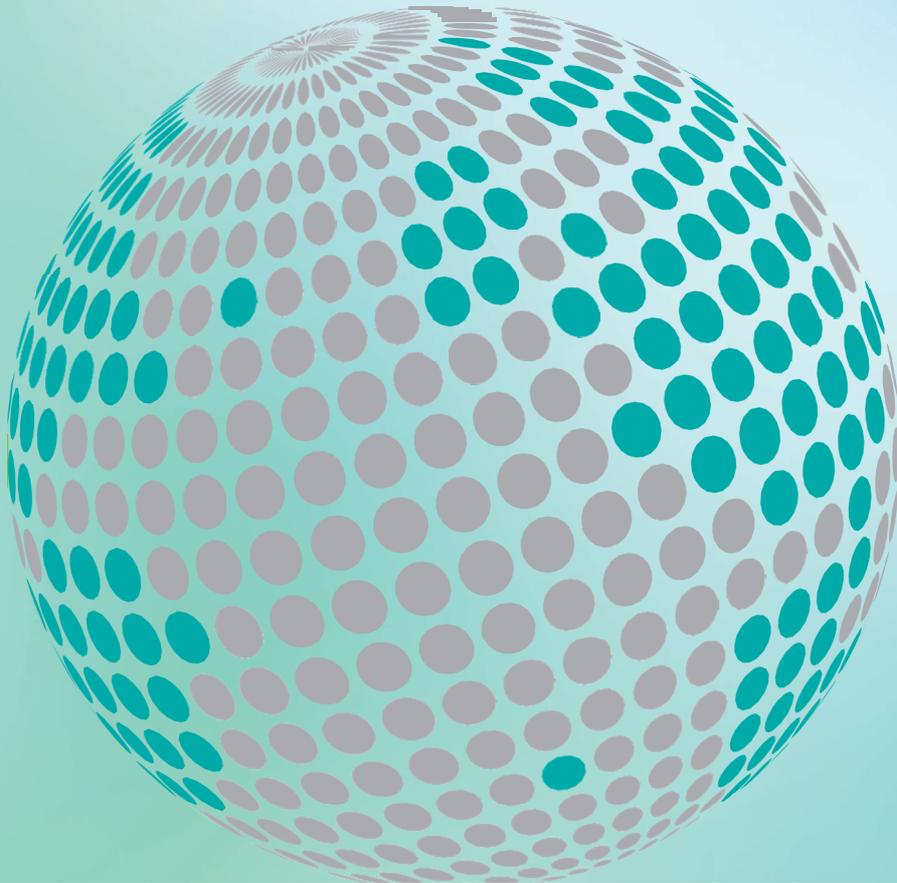
And it can affect:

- Clearance/interference between the doors, and between the doors and posts according to the applicable laws
- Clearance of coupling device
- Status/conditions of fixing and coupling elements
- Conditions of parts affected by wear
- Efficiency of the lock and relevant contacts
- Any other parts that may be affected by the type of application.

For these reasons it is not possible to establish a general part replacement program beforehand.



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