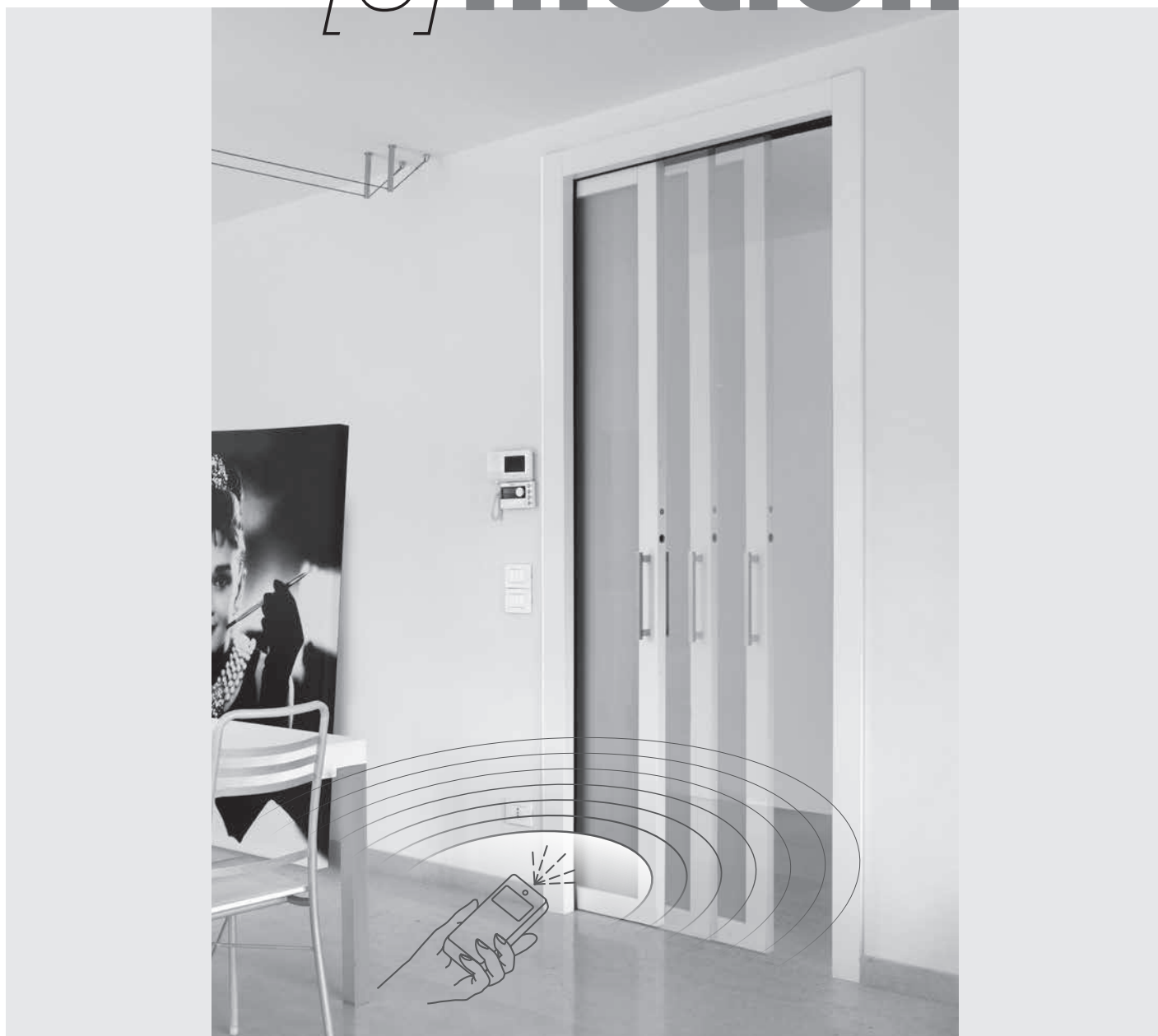


[e]motion



Operating Manual, Use and Maintenance

Automatic guide E-Motion for a single automatic sliding door Pocket sliding system UNICO, LUCE SD, UNILATERALE, EWOLUTO[®]

INDEX

0.	INTRODUCTION	2
1.	DETAILS	3
2.	TECHNICAL AND ASSISTANCE DATA.....	5
3.	DEMOLITION AND DISPOSAL	8
4.	PART I . OPERATIONG MANUAL.....	9

0. INTRODUCTION

Dear client,

We would like to thank you for your trust in Eclisse, for buying this new and innovative automatic guide, E-motion, which can be installed in our pocket systems UNICO, LUCE SD, UNILATERALE, EWOLUTO®.

Eclisse products are all designed and developed following special production models and they are based on need. This is how we guarantee outstanding performances, simple installation and easy use.

This manual contains important information, needed for a correct and safe installation of the automatic guide. We would like you to read the operating and use instruction carefully before installing and using E-motion automatic guide.

Yours sincerely,

ECLISSE S.R.L.



Luigi De Faveri

1. DETAILS

This manual has reference to:

- Installation
- Use and maintenance

Referring to E-motion automatic guide.

The installation part is limited ONLY to the technical qualified staff.

1.1 GENERAL WARNINGS



Before installing, using or making the maintenance of E-motion automatic guide, we require you to read and understand this manual.

This document is a part of the automatic guide and it must be kept by the client or by the user for future consultations.

This manual means to give all the needed instructions, in order to guarantee correct installation and maintenance.

Eclisse Srl reserves the right to modify and improving the manual and described product in any moment without notice.

The data presented in this document has been prepared and controlled carefully, but Eclisse Srl deny liability for any inaccuracies due to press or transcription mistakes or excisions.

E-motion automatic guide, when installed in pocket system, is to all intents and purposes a machine, as described in Directive 2006/42/EC on machinery.

The complete analysis of safety and health protection, as described in the Directive on machinery, is valid only if:

- All procedures described in the manual have been correctly respected;
- The type of installation corresponds to the one illustrated on the manual.

Any procedure or action undertaken on administration, installation, functioning, maintenance and use of the machine which is not expected and described in this manual, won't be included in this analysis, this way Eclisse Srl is not responsible. The fitter will take charge for the essential safety and health protection requirements.

1.2 GENERAL RULES



E-motion automatic guide is designed exclusively for pocket sliding systems automation used by Eclisse pocket sliding systems for single door.

It cannot be used for aims that are different from the ones described in this manual.

E-motion automatic guide has been designed and developed respecting all Norma EN 16005 "Automatic pedestrian doors-Safety in use" requirements.

E-motion has been designed to work correctly with a maximum weight of 80 kg per door.

Eclisse Srl denies any liability for any harm or damage.

Any alteration or substitution of parts or components of the guide, and the use of accessories or materials that are not original, almost raises the risk so the producer denies any civil or penal liability.

It is forbidden to remove and/or change the directions and the signposting or accessories placed on the automatic guide by the producer.

It is forbidden to stay in the sliding zone of the doors or operate near the moving mechanic parts.

1.3 GUARANTEE



Guarantee lapses if the use of E-motion automatic guide doesn't respect the instructions and the rules illustrated in this manual and if components, accessories, spare parts and control systems non-provided by Eclisse are used.

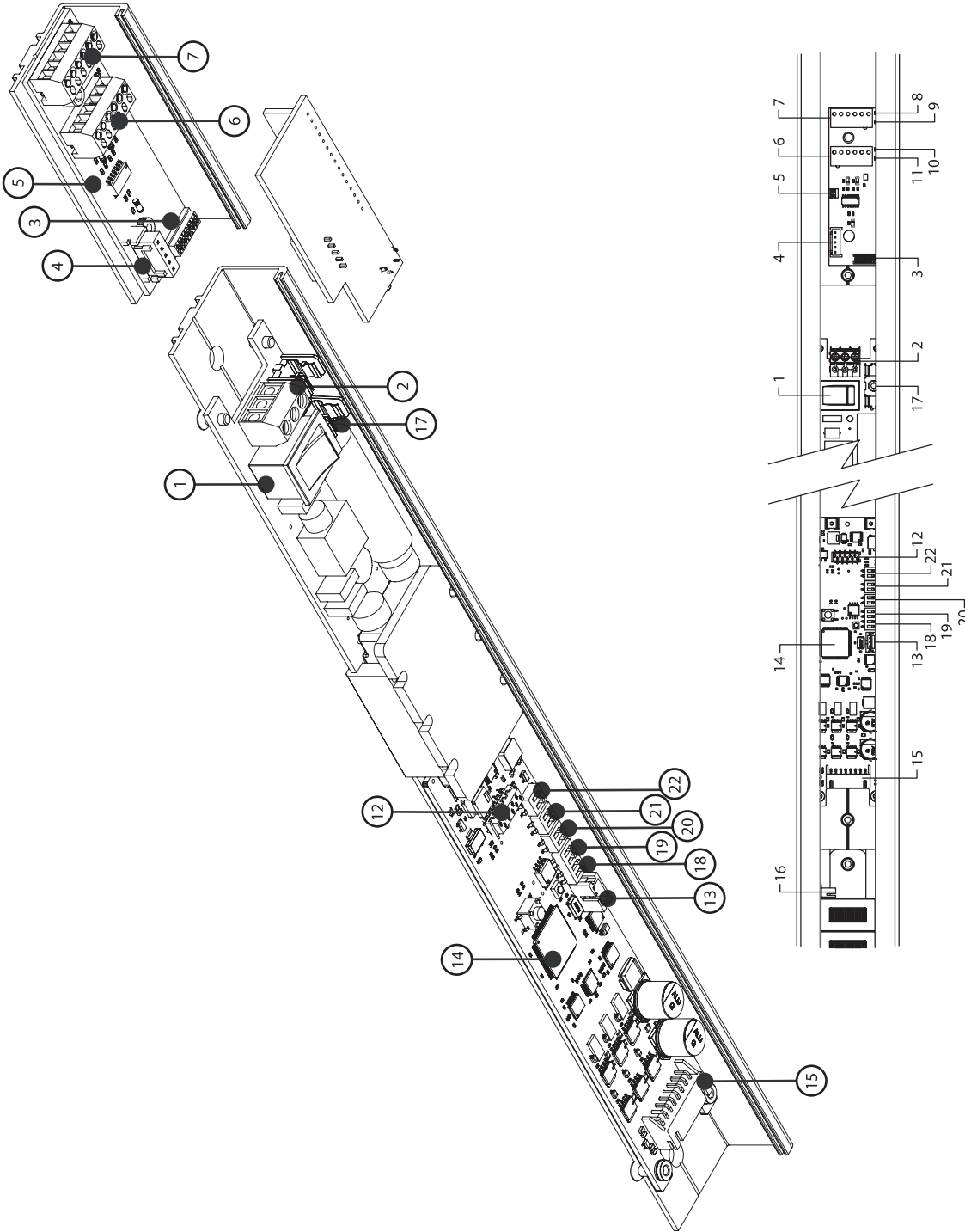
2. TECHNICAL DESCRIPTION

2.1 TECHNICAL DATA E-MOTION GUIDE – MECHANIC

DIMENSION		PARAMETER E-MOTION GUIDE									
Width	52 mm	Passage Size (mm)	Guide Length (mm)	Track Length (mm)	Opening Speed	Closing Speed	Guide Weight (kg)				
Height	58 mm	700	1420	735	Variable regulation 0,20 - 0,70 m/sec.	Auto regulation complies with EN 16363 "Low Energy" (**)	8,0				
		750	1520	785			8,5				
		800	1620	835			9,0				
		850	1720	885			9,5				
		900	1820	935			10,0				
		950	1920	985			10,5				
		1000	2020	1035			11,0				
		1050	2120	1085			11,5				
		1100	2220	1135			12,0				
		1150	2320	1185			12,5				
		1200	2420	1235			13,0				
		1250	2520	1285			13,5				
		1300	2620	1335			14,0				
		DOOR WEIGHT (kg)		10	20	30	40	50	60	70	80
		(**) Closing Speed (m/sec.)		0,57	0,40	0,33	0,28	0,25	0,23	0,21	0,20

2.2 TECHNICAL DATA, E-MOTION GUIDE – ELECTRIC CHARACTERISTICS

ELECTRIC CHARACTERISTICS	
Input	Voltage: 230 V AC – 50/60 Hz Intensity: 1 A Fuse protection: 2,5 A Input cable: 3x1,0 mm ² Length: 2m.
Power / Consumption	Medium: 80w Peak: 150w Stand-by: 15w
Electric motor	Model: Linear PMSM Motor - Permanent magnet synchronous linear motor with Iron core. N° Poles: 4 Pitch poles 50mm. N° Phases: 3 Voltage: 24 V DC – 5 ^a Magnet: Neodymium 35H Force <80 N
Control	Type: Microprocessor type DSP for vectorial control of movement. Course auto-learning. Door weight auto-learning.
Accessories	Voltage: 24 V DC Intensity: 1 A
Functioning temperature	Minimum: 5° C - Maximum 60° C



- | | | | | | |
|---|--|----|--|----|---|
| 1 | ON/OFF Button | 9 | Orange led (button signal active) | 17 | Protection fuse 2 A |
| 2 | Power supply input 220V-50 Hz | 10 | Green led (external radar signal active) | 18 | Operation |
| 3 | Accessories circuit connection | 11 | Red led (lock signal active) | 19 | Regulation of opening speed |
| 4 | RF receiver connection | 12 | Accessories circuit connection | 20 | Regulation of closing sensitivity force |
| 5 | Domotics connection (reserved) | 13 | PC connection (reserved) | 21 | Regulation of door opened time |
| 6 | External radar and lock connection | 14 | Microprocessor | 22 | Dip switches (door Weight) |
| 7 | Internal radar and buttons connection | 15 | Motor/ receiver connection | | |
| 8 | Green led (internal radar signal active) | 16 | Motor/ receiver connection | | |

ELECTRIC CHARACTERISTICS

Power supply	
Voltage	230 V AC
Power	150 W
Intensity	0,75 A
Frequency	50/60 Hz

Normative	
	2006/42/CE
	2004/108/CE
	2006/95/CE
	EN 60335

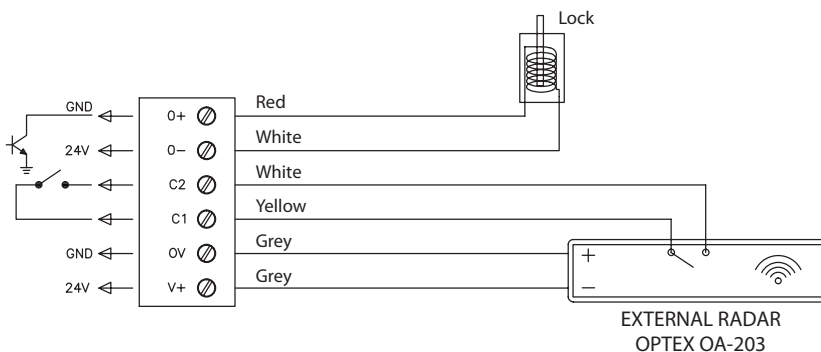
Linear Motor			
Type:	"PMSM" Permanent magnet synchronous motor Iron core. 3 Phases - 4 Poles - 24 V		
Magnets:	Neodymium 35 H	Pitch Pole 25 mm	
Consumption:	Peak	150 W	Force: 80 N
	Medium	80 W	IP: IP 22
	Stand-By	15 W	Class: I

Accessories			
Power:	25 W	Power supply	24 V DC
		Consumption	1 A

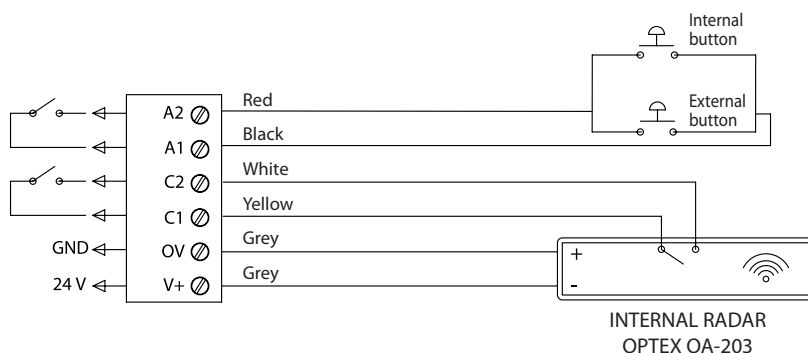
2 → POWER SUPPLY INPUT



6 → EXTERNAL RADAR AND LOCK CONNECTION



7 → INTERNAL RADAR AND BUTTON CONNECTION



3. DEMOLITION AND DISPOSAL



PACKAGE DISPOSAL

Package components can be assimilated to municipal waste and they can be disposed of without any difficulty, simply doing the waste separation for recycling.

Before proceeding we advise you to verify the specific directives, in the installation place.

DO NO POLLUTE BY TOSSING THIS CONTAINER AFTER USE!



PRODUCT DISPOSAL

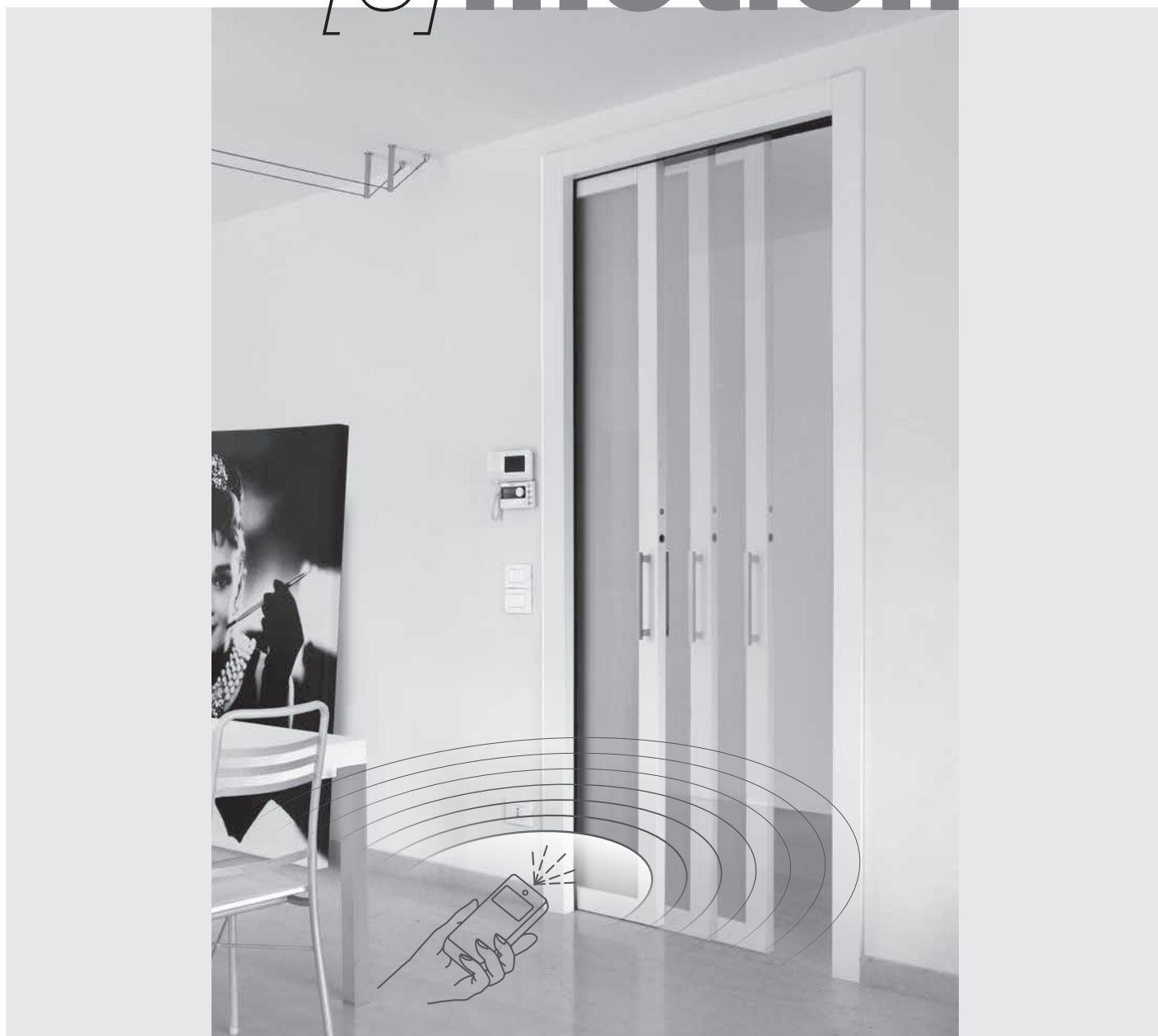
Our products are made of different material. Most of them (aluminium, plastic, iron, electric cables) can be assimilated to municipal waste. They can be recycled by the waste separation and disposal in the authorized centres.

Other components (printed circuit board, radio control's batteries etc.) could contain pollutants. These one should be removed and given to companies entitled to recovery and disposal of waste. Before proceeding we advise you to verify the specific directives, in the disposal place.

DO NO POLLUTE BY TOSSING THIS PRODUCT AFTER USE!



[e]motion



PART I

Installation Manual


Automatic guide E-Motion for a single automatic sliding door Pocket sliding system UNICO, LUCE SD, UNILATERALE, EWOLUTO[®]

INDEX

1.1	INTRODUCTION	10
1.2	RISK ANALYSIS	10
1.3	PRE-INSTALLATION OPERATIONS	11
1.4	INSTALLATION PHASES	11
1.5	FINAL CHECK	36
1.6	INSTALLATION DECLARATION OF CONFORMITY.....	37

1.1 INTRODUCTION

This part of the manual is dedicated to qualified installers only.

 Before installing automatic guide E-motion this part of the manual must be read and fully understood.

The installation of E-motion automatic guide must be performed by competent technical staff in possession of technical tools required by the law in the place of installation.

1.2 RISK ANALYSIS

Below is the table with details of the different phases of installation, risks and safety measures to be taken:

N°	Fase	Rischi	Misure di protezione
0	Guide disassembly	Cut - Crushing	Gloves
1	Description of E-motion automatic guide	Cut - Crushing	Gloves
2	Rear stop regulation	Cut - Crushing	Gloves
3	Cover disassembly	Cut - Crushing	Gloves
4	Guide installation in the pocket system	Cut - Crushing	Gloves
5	Electronic components	Cut - Crushing	Gloves
6	Accessories' test and connection	Cut - Crushing	Gloves
7	Functioning test	Cut - Crushing	Gloves
8	Cover assembly	Cut - Crushing	Gloves
9.a	Glass doors installation	Cut - Crushing	Gloves - Accident prevention shoes
9.b	Wooden door installation	Cut - Crushing	Gloves - Accident prevention shoes
10	Commissioning ON	Cut - Crushing	Gloves

1.3 PRE-INSTALLATION OPERATIONS

Read the manual before installation: it is important for your safety to respect the instructions in this document. Improper installation can cause serious injury.

Make sure the installation area is closed to unauthorized persons.

During installation and maintenance, use accident prevention equipment.

Make sure that the package includes all the necessary components for the guide assembly and that they are in good condition. Prepare all the required tools for assembly.

During assembly and connection make sure to operate without tension.

1.4 INSTALLATION PHASES

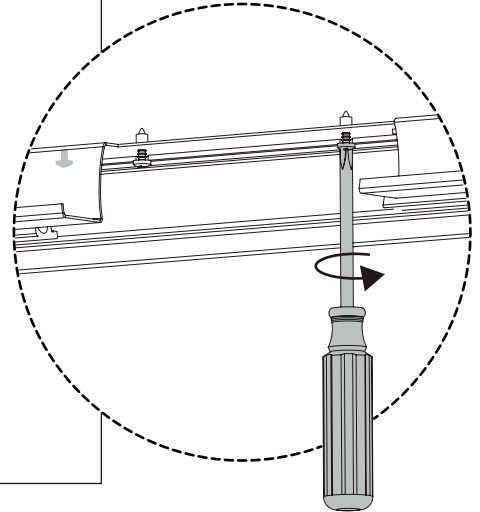
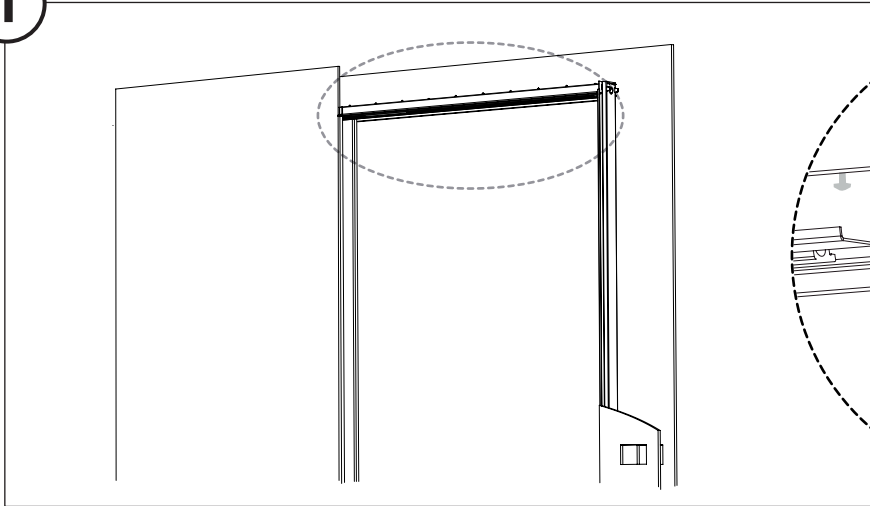
Usually these are the installation phases:

0.	GUIDE DISASSEMBLY	12
1.	E-MOTION AUTOMATIC GUIDE DESCRIPTION	14
2.	REAR STOP REGULATION	16
3.	COVER DISASSEMBLY	17
4.	GUIDE INSTALLATION IN THE POCKET SYSTEM.....	18
5.	ELECTRONIC COMPONENTS	20
6.	ACCESSORIES' TEST AND CONNECTION	24
7.	FUNCTIONING TEST.....	26
8.	COVER ASSEMBLY.....	27
9.a	WOODEN DOOR INSTALLATION.....	28
9.b	GLASS DOOR INSTALLATION	31
10.	COMMISSIONING ON	34

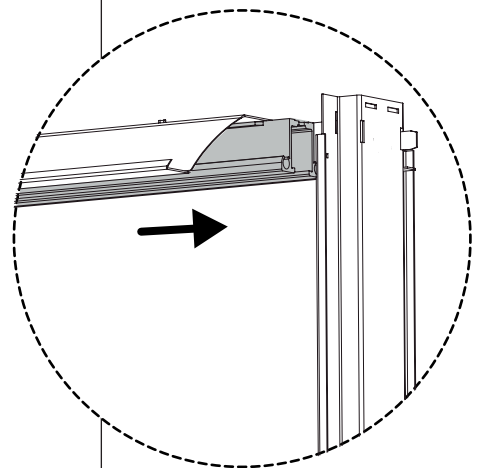
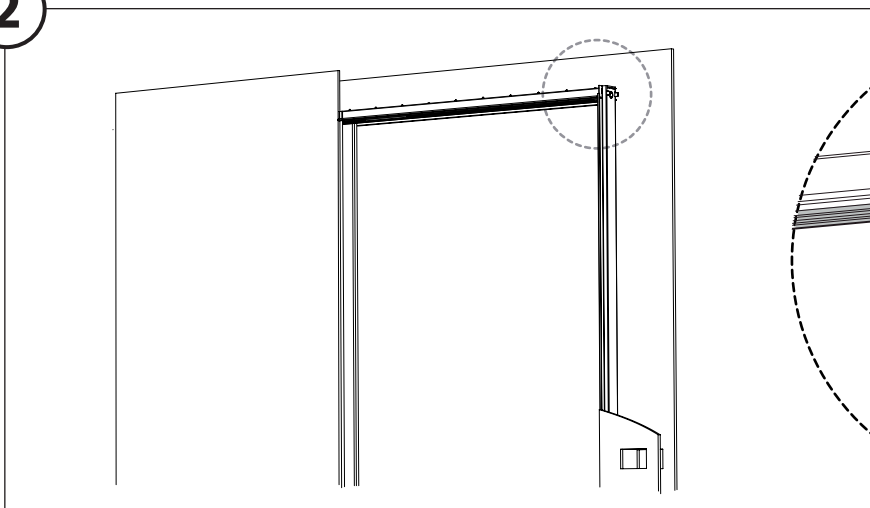
Here follow the visual instructions of each and every phase.

0. GUIDE DISASSEMBLY

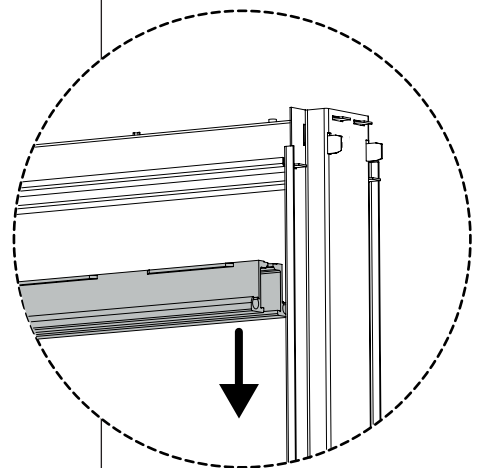
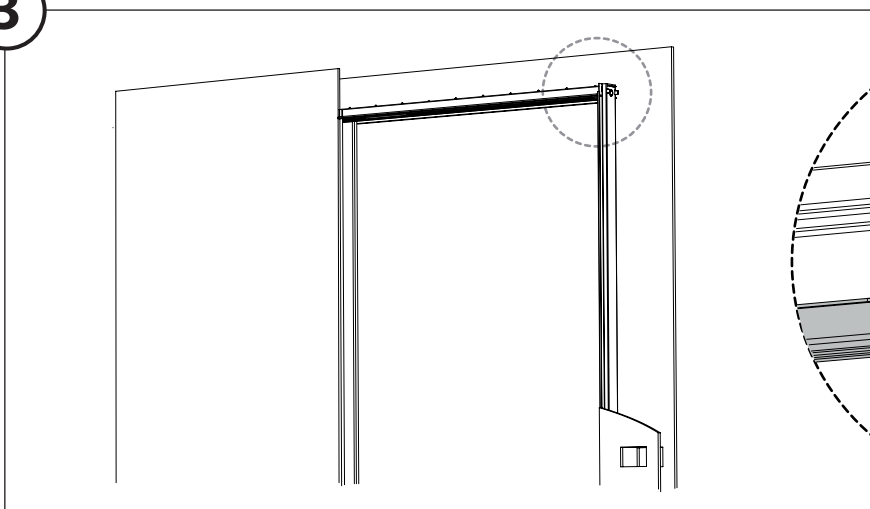
1



2

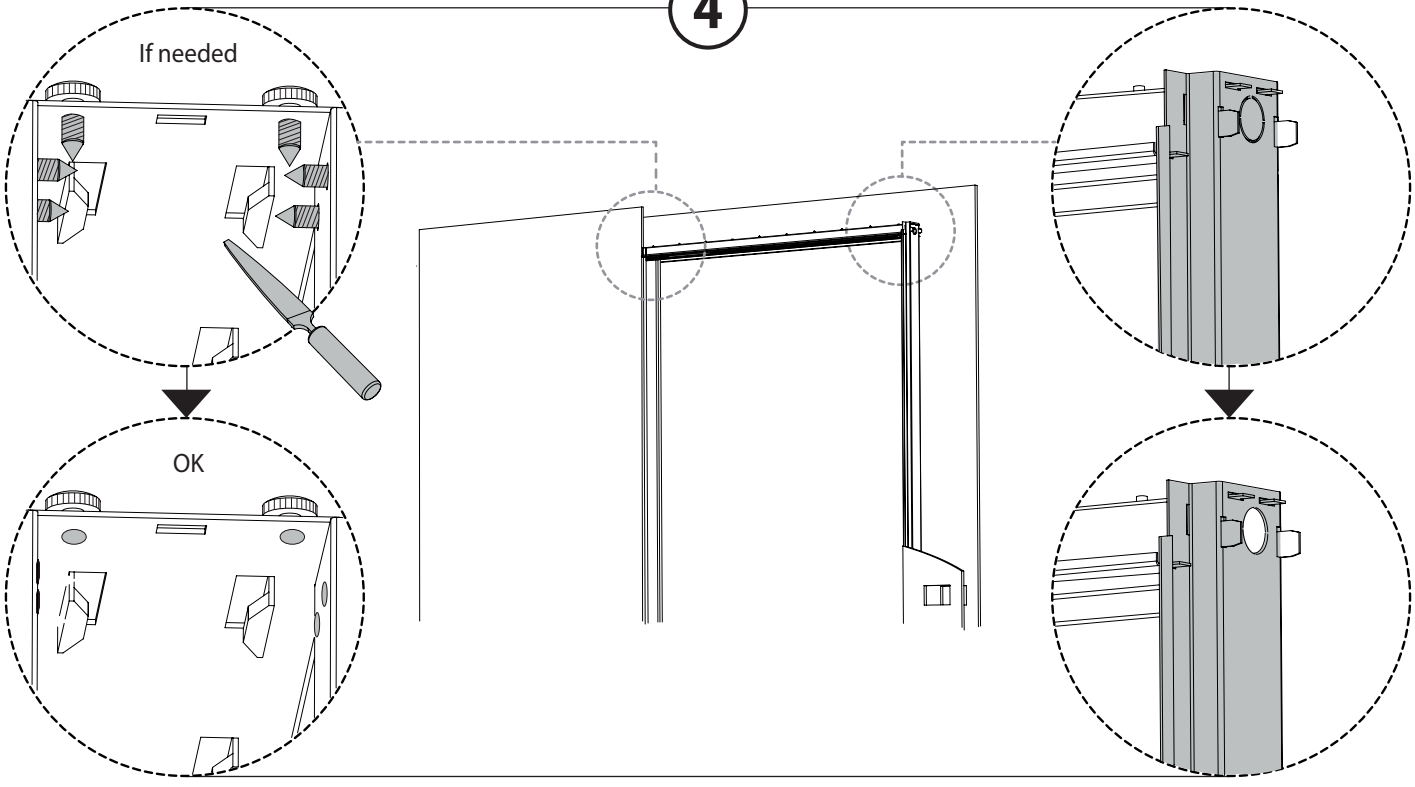


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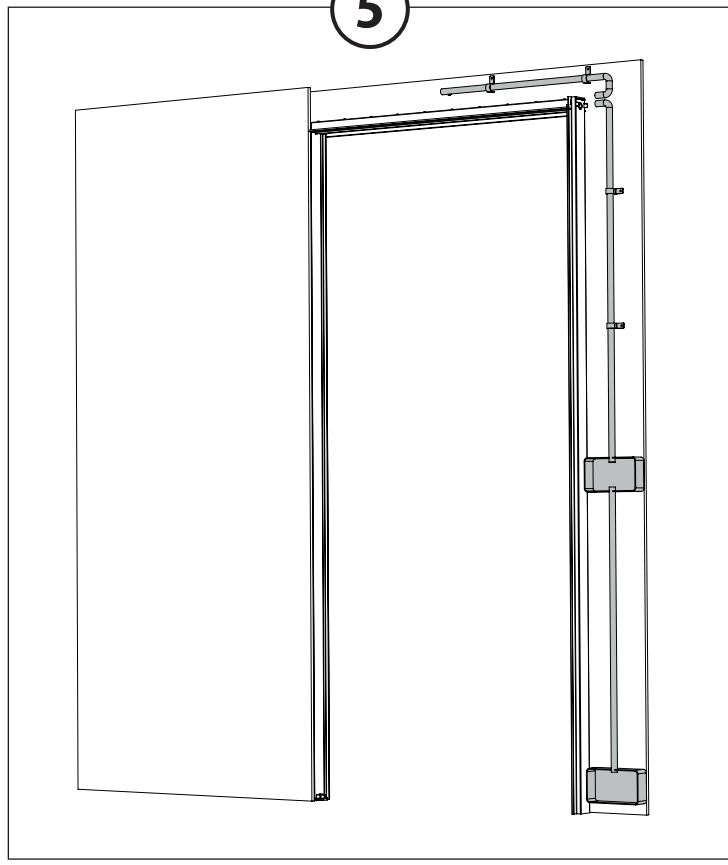


0. GUIDE DISASSEMBLY

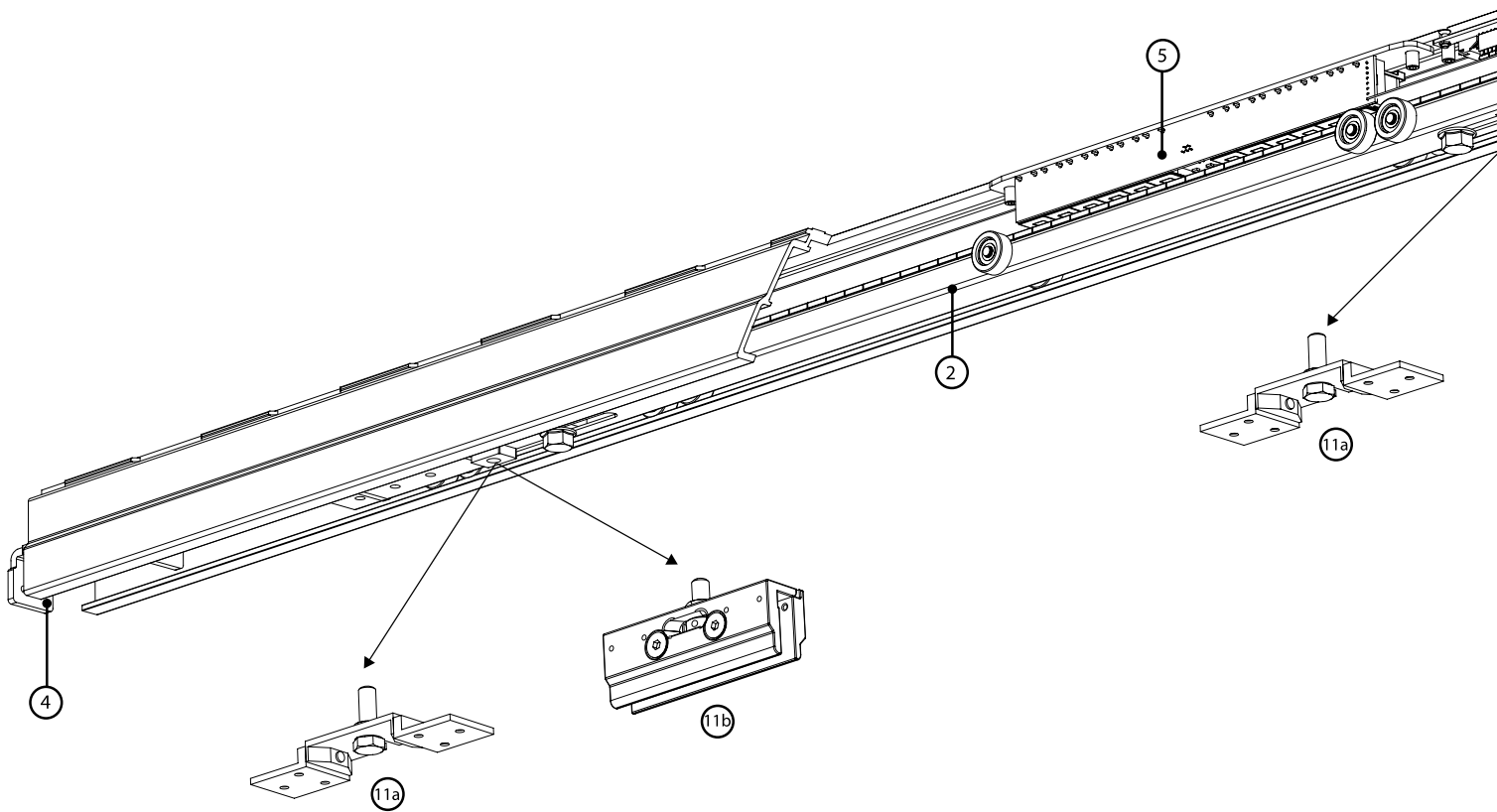
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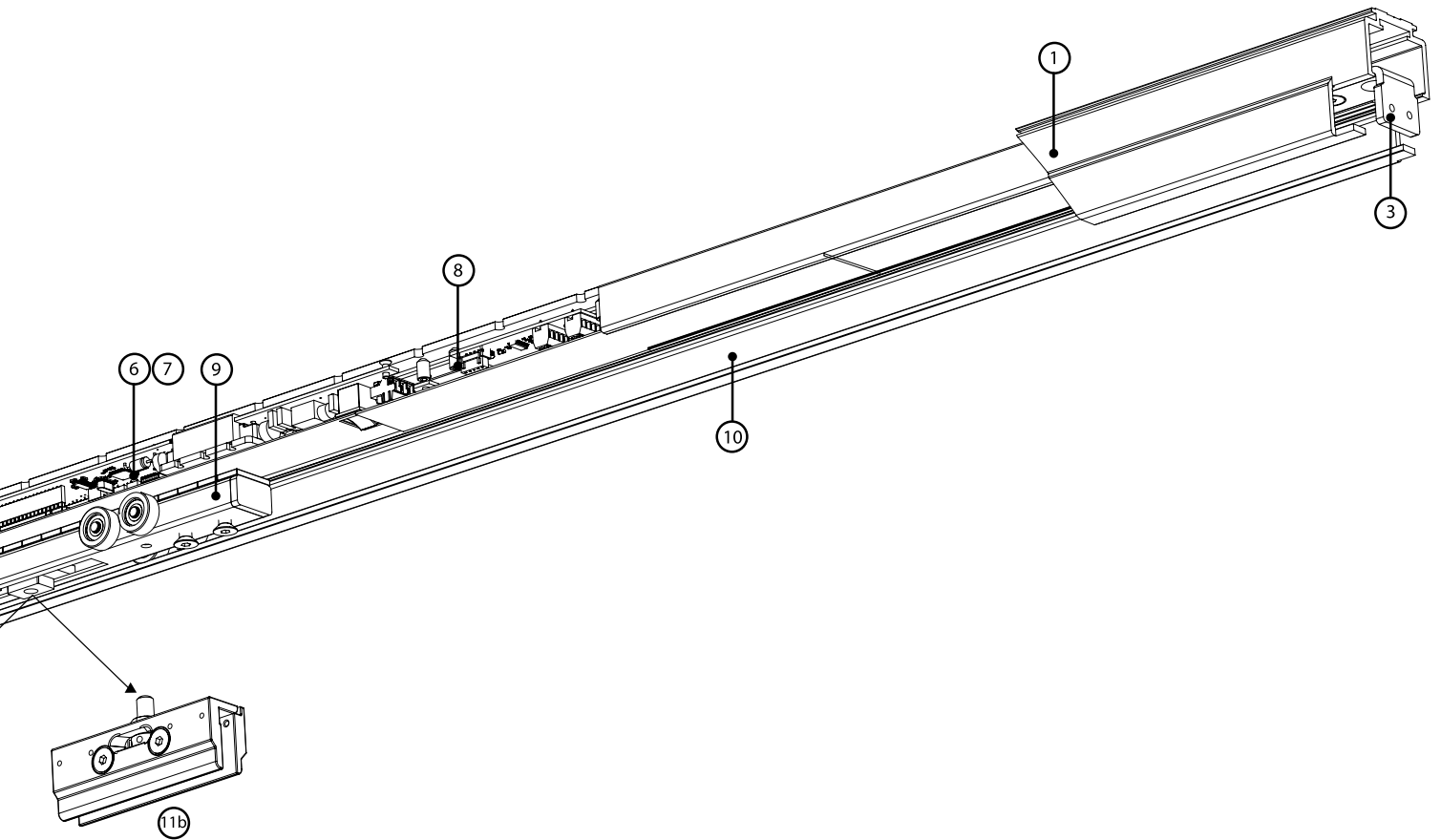
5



1. E-MOTION AUTOMATIC GUIDE DESCRIPTION

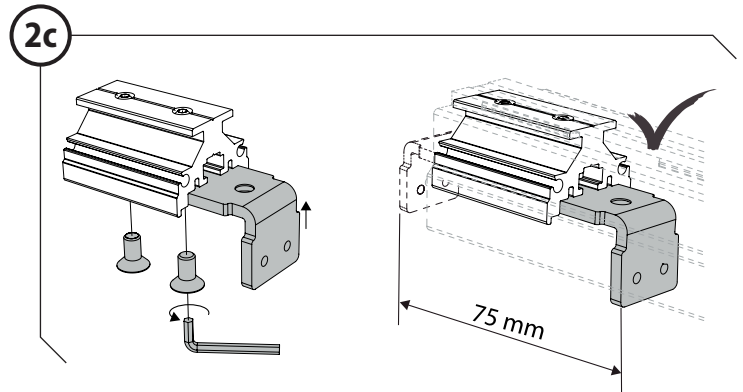
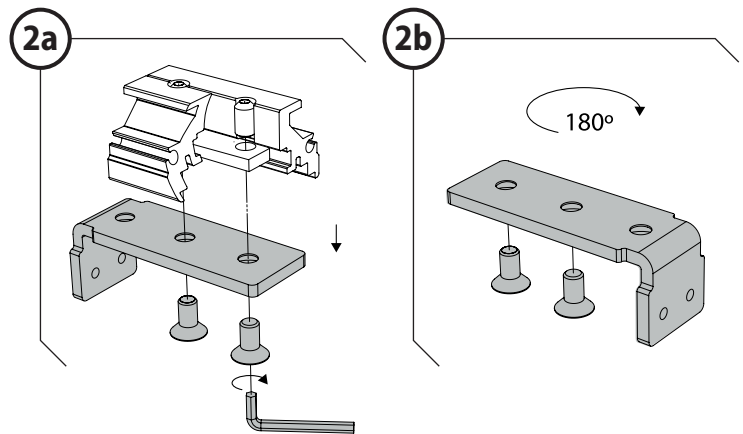
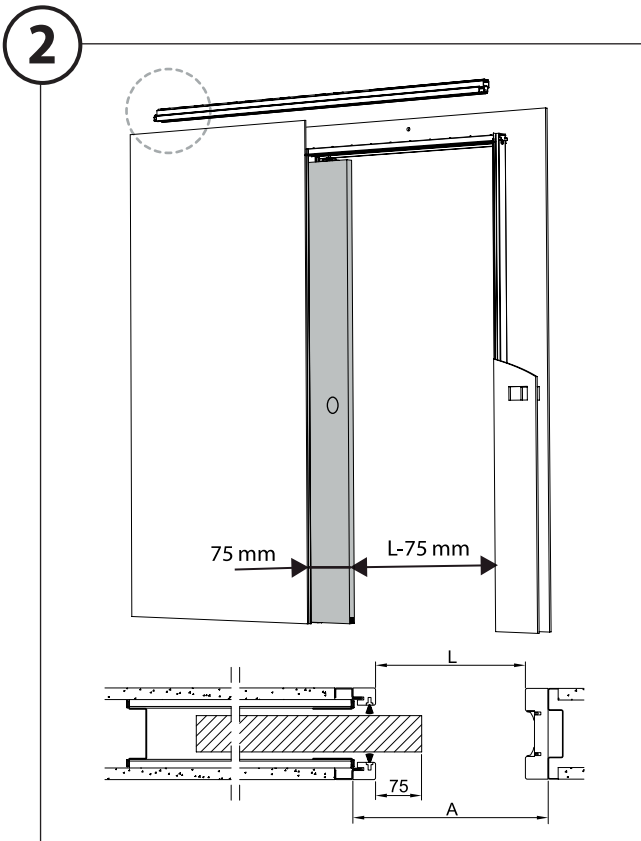
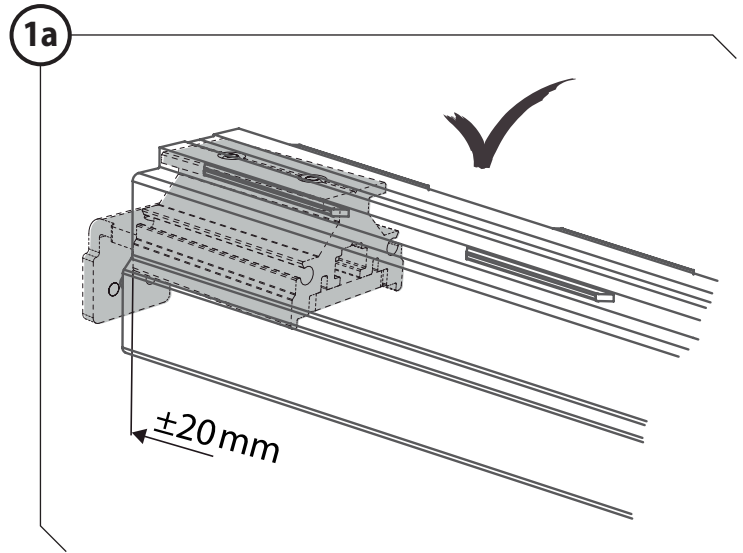
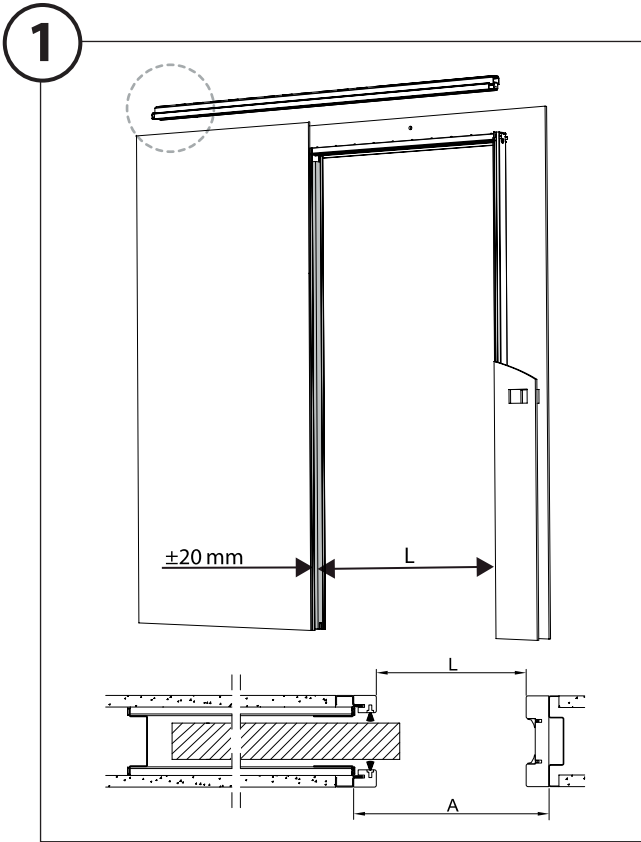


- | | | | |
|---|--------------------|-----|-----------------------------------|
| 1 | Principal profile | 7 | Power electronic |
| 2 | Hung-door track | 8 | Accessories electronic |
| 3 | Stop – closing | 9 | Permanent magnets' array |
| 4 | Stop – opening | 10 | Lower cover |
| 5 | Linear motor... | 11a | Wooden door adjustable suspension |
| 6 | Control electronic | 11b | Glass door adjustable suspension |

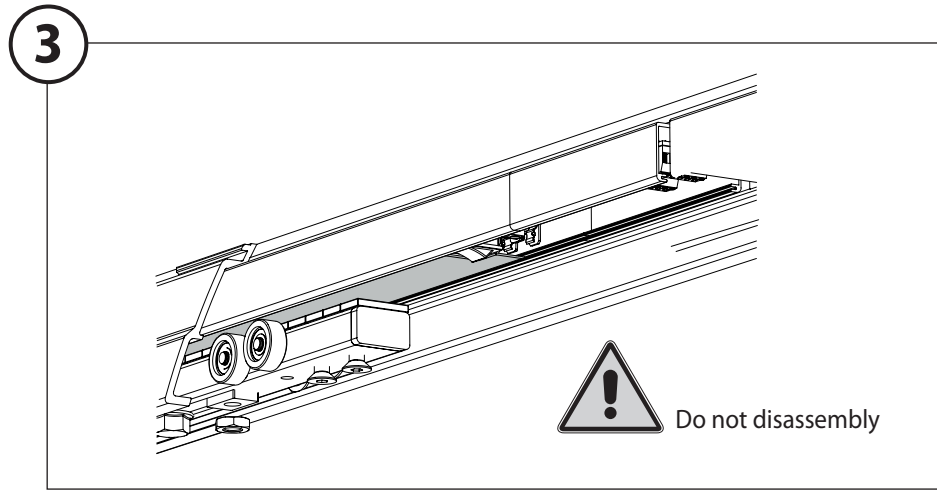
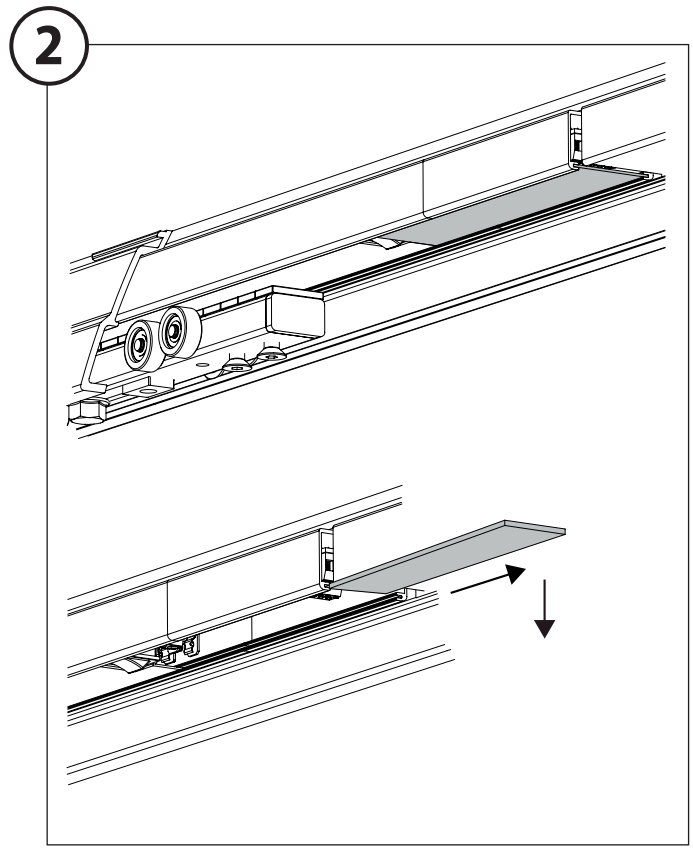
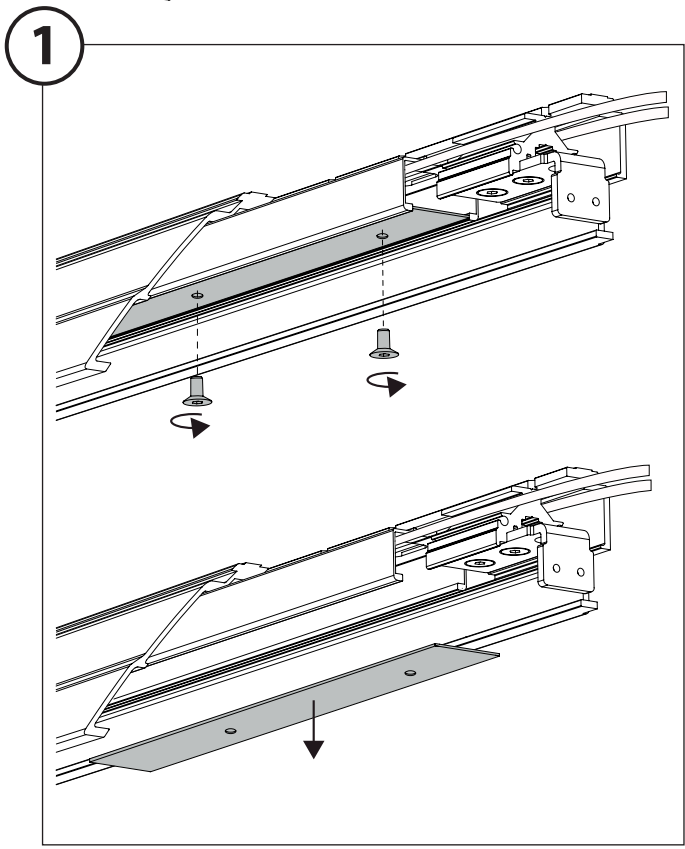
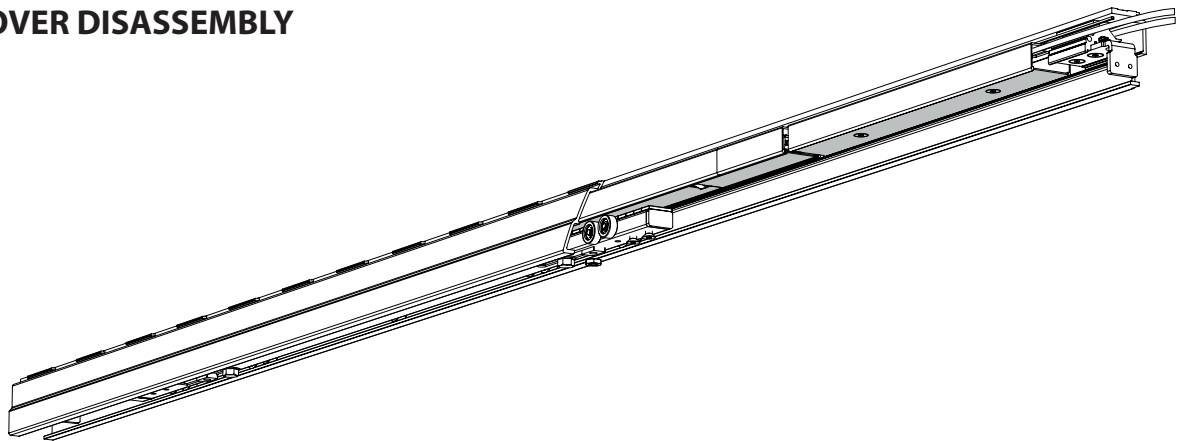


ELECTRIC CHARACTERISTIC – see page 7

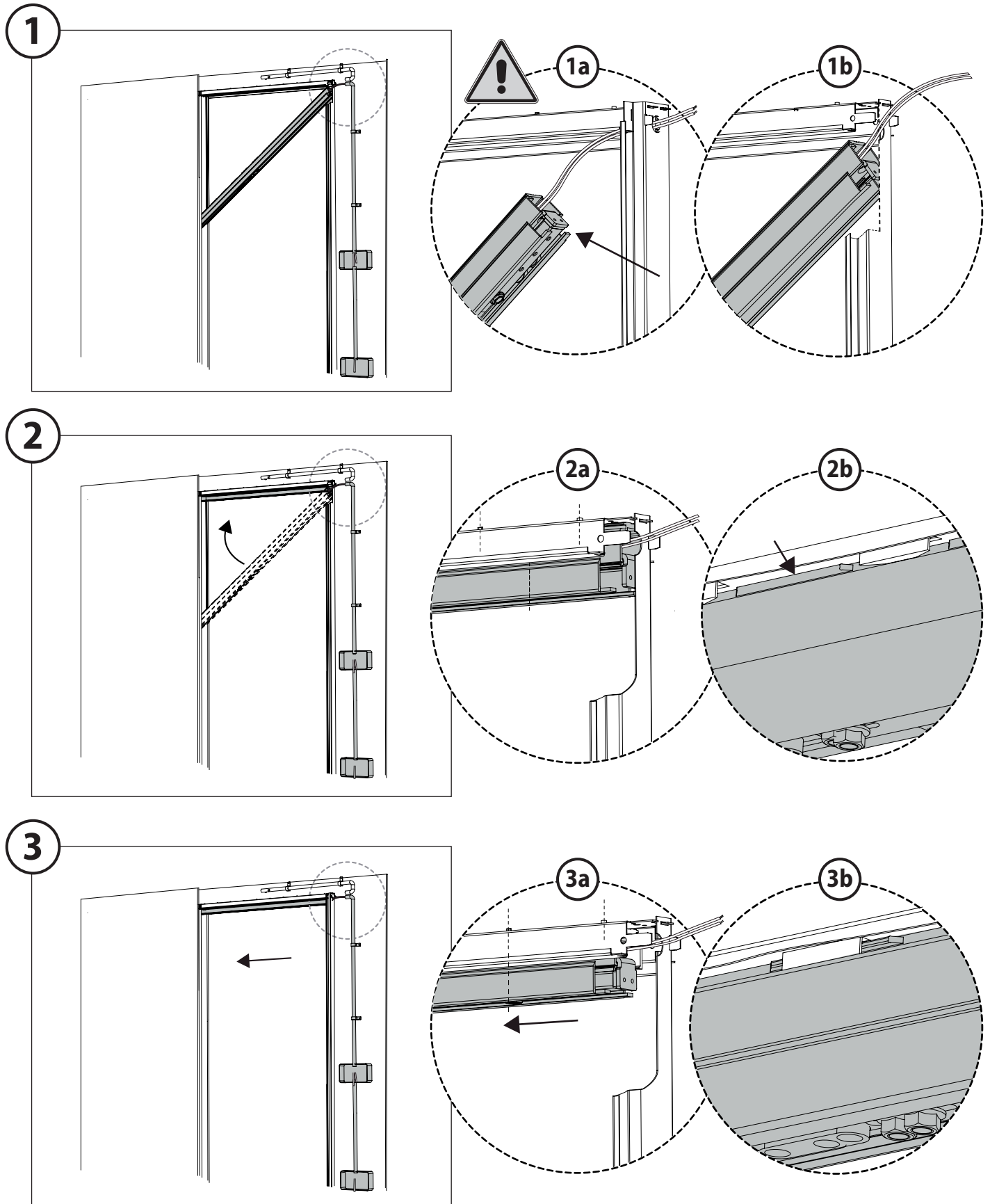
2. REAR STOP REGULATION



3. COVER DISASSEMBLY

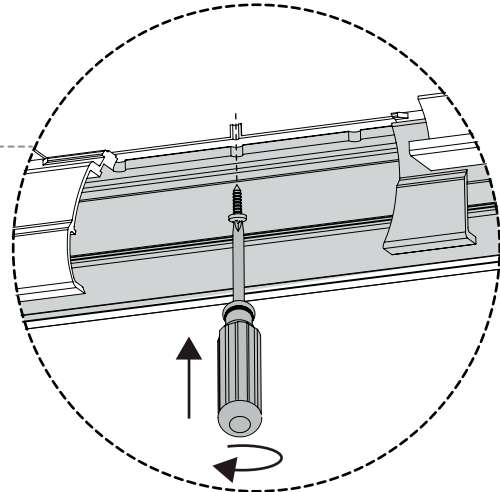
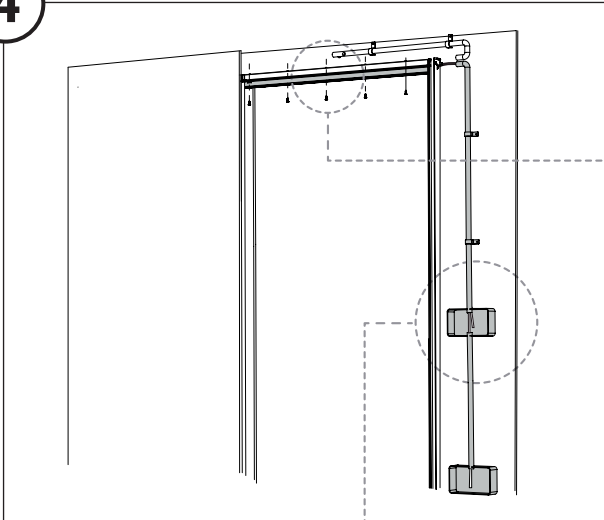


4. GUIDE INSTALLATION IN THE POCKET SYSTEM

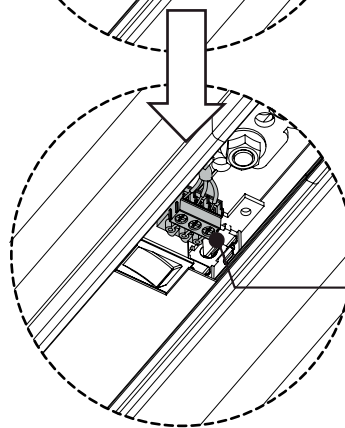
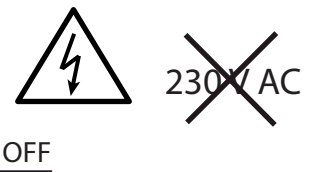
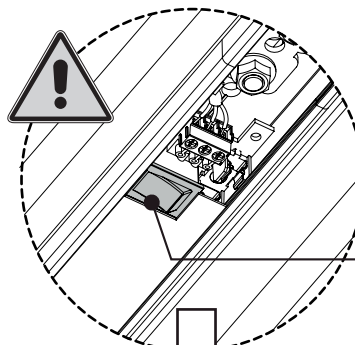
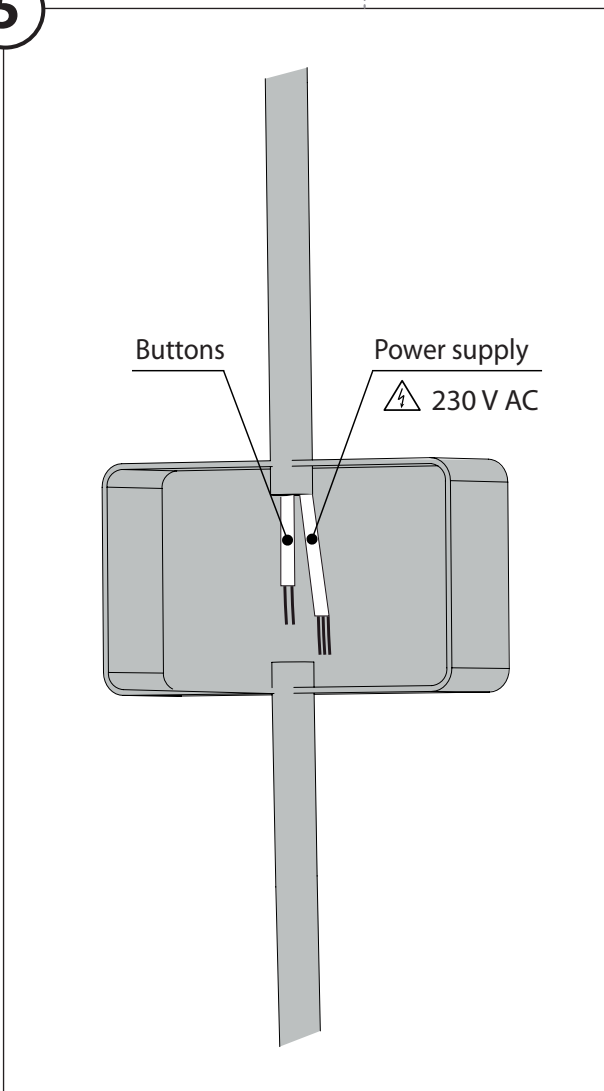


4. GUIDE INSTALLATION IN THE POCKET SYSTEM

4

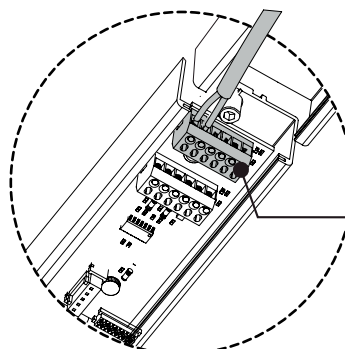


5



Power supply

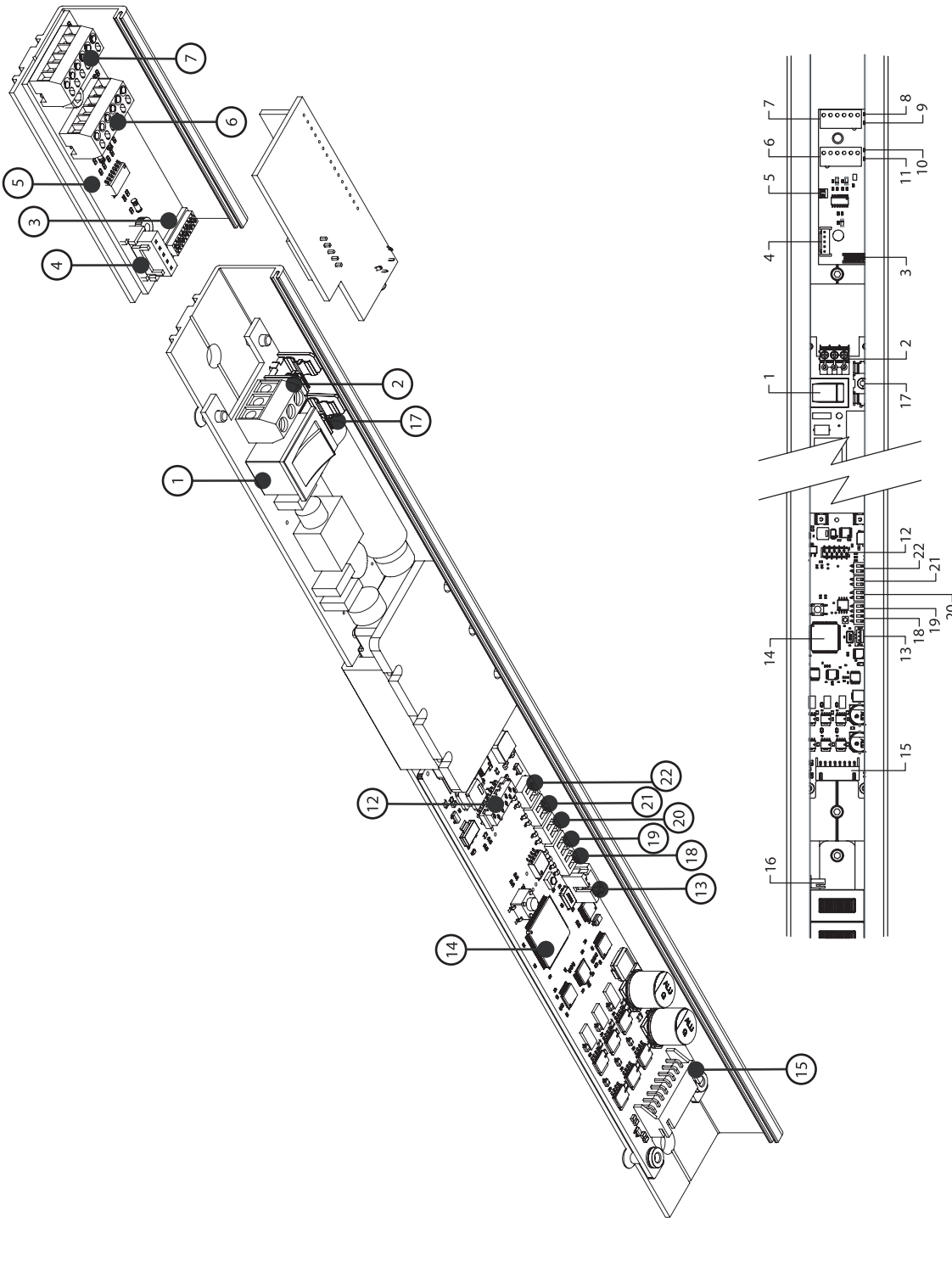
⊥	Green-Yellow	○	EARTH
N	Blue	○	NEUTER
L	Brown	○	PHASE



Buttons

A2	Red	○
A1	Black	○
C2		
C1		
OV		
V+		

5. ELECTRONIC COMPONENTS



- | | | | | | |
|---|--|----|--|----|---|
| 1 | ON/OFF Button | 9 | Orange led (button signal active) | 17 | Protection fuse 2 A |
| 2 | Power supply input 220V-50 Hz | 10 | Green led (external radar signal active) | 18 | Operation |
| 3 | Accessories circuit connection | 11 | Red led (lock signal active) | 19 | Regulation of opening speed |
| 4 | RF receiver connection | 12 | Accessories circuit connection | 20 | Regulation of opening sensitivity force |
| 5 | Domotics connection (reserved) | 13 | PC connection (reserved) | 21 | Regulation of door opened time |
| 6 | External radar and lock connection | 14 | Microprocessor | 22 | Dip switches (door Weight) |
| 7 | Internal radar and buttons connection | 15 | Motor/ receiver connection | | |
| 8 | Green led (internal radar signal active) | 16 | Motor/ receiver connection | | |

ELECTRIC CHARACTERISTICS

Power supply	
Voltage	230 V AC
Power	150 W
Intensity	0,75 A
Frequency	50/60 Hz

Normative	
	2006/42/CE
	2004/108/CE
	2006/95/CE
	EN 60335

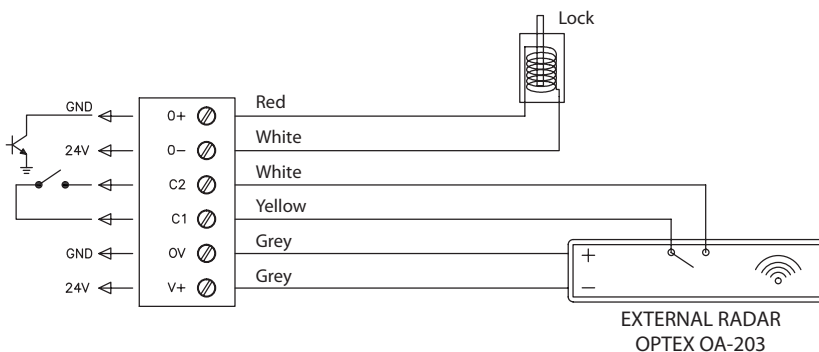
Linear Motor			
Type:	"PMSM" Permanent magnet synchronous motor Iron core. 3 Phases - 4 Poles - 24 V		
Magnets:	Neodymium 35 H	Pitch Pole 25 mm	
Consumption:	Peak	150 W	Force: 80 N
	Medium	80 W	IP: IP 22
	Stand-By	15 W	Class: I

Accessories			
Power:	25 W	Power supply	24 V DC
		Consumption	1 A

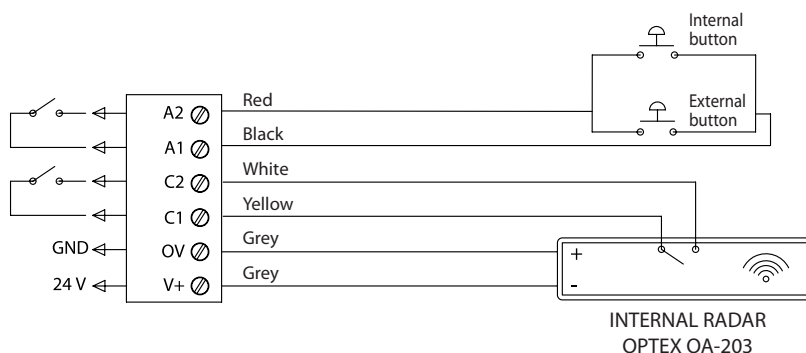
2 → POWER SUPPLY INPUT

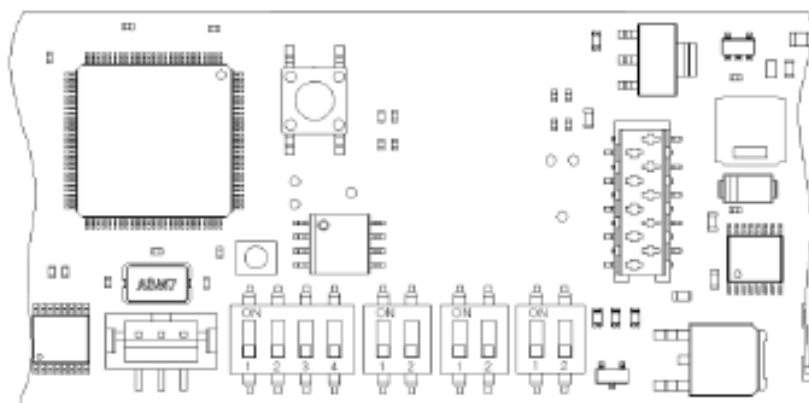


6 → EXTERNAL RADAR AND LOCK CONNECTION



7 → INTERNAL RADAR AND BUTTON CONNECTION





1a | 1b | 2 | 3 | 4
 Operating modes Regulation of sensitivity force
 Obstacles detection
 Regulation of door
 opened time Door Weight

Operating modes	Switch 1		Switch 2	Operating modes	To confirm the change of the operating mode
	1a	OFF	<input type="checkbox"/> <input type="checkbox"/>	OFF	Normal
ON		<input type="checkbox"/> <input type="checkbox"/>	ON	Cyclic	Automatic
OFF		<input type="checkbox"/> <input type="checkbox"/>	OFF	without Remote Control	Automatic
OFF		<input type="checkbox"/> <input type="checkbox"/>	ON	with Remote Control	Automatic

Regulation of opening speed	Switch 1		Switch 2	Regulation of opening speed	To confirm the change of sensitivity force
	OFF	<input type="checkbox"/> <input type="checkbox"/>	OFF	Medium speed	ON/OFF Button
	ON	<input type="checkbox"/> <input type="checkbox"/>	OFF	High speed	ON/OFF Button
	OFF	<input type="checkbox"/> <input type="checkbox"/>	ON	Low speed or "Low Energy"	ON/OFF Button
ON	<input type="checkbox"/> <input type="checkbox"/>	ON	ON/OFF Button		

Rugulation of sensitivity force Obstacles detection	Switch 1		Switch 2	Rugulation of sensitivity force Obstacles detection	To confirm the change of sensitivity force
	OFF	<input type="checkbox"/> <input type="checkbox"/>	OFF	high	ON/OFF Button
	ON	<input type="checkbox"/> <input type="checkbox"/>	OFF	Medium high	ON/OFF Button
	OFF	<input type="checkbox"/> <input type="checkbox"/>	ON	Medium low	ON/OFF Button
ON	<input type="checkbox"/> <input type="checkbox"/>	ON	Low	ON/OFF Button	

Regulation of door opened time	Switch 1		Switch 2	Regulation of door opened time	To confirm the change of sensitivity force
	OFF	<input type="checkbox"/> <input type="checkbox"/>	OFF	2,5 Seconds	ON/OFF Button
	ON	<input type="checkbox"/> <input type="checkbox"/>	OFF	5 Seconds	ON/OFF Button
	OFF	<input type="checkbox"/> <input type="checkbox"/>	ON	10 Seconds	ON/OFF Button
ON	<input type="checkbox"/> <input type="checkbox"/>	ON	20 Seconds	ON/OFF Button	

Door weight insertion	Switch 1		Switch 2	Door weight insertion	To confirm the weight
	OFF	<input type="checkbox"/> <input type="checkbox"/>	OFF	0-20 kg	ON/OFF Button
	ON	<input type="checkbox"/> <input type="checkbox"/>	OFF	20-40 kg	ON/OFF Button
	OFF	<input type="checkbox"/> <input type="checkbox"/>	ON	40-60 kg	ON/OFF Button
ON	<input type="checkbox"/> <input type="checkbox"/>	ON	60-80 kg	ON/OFF Button	



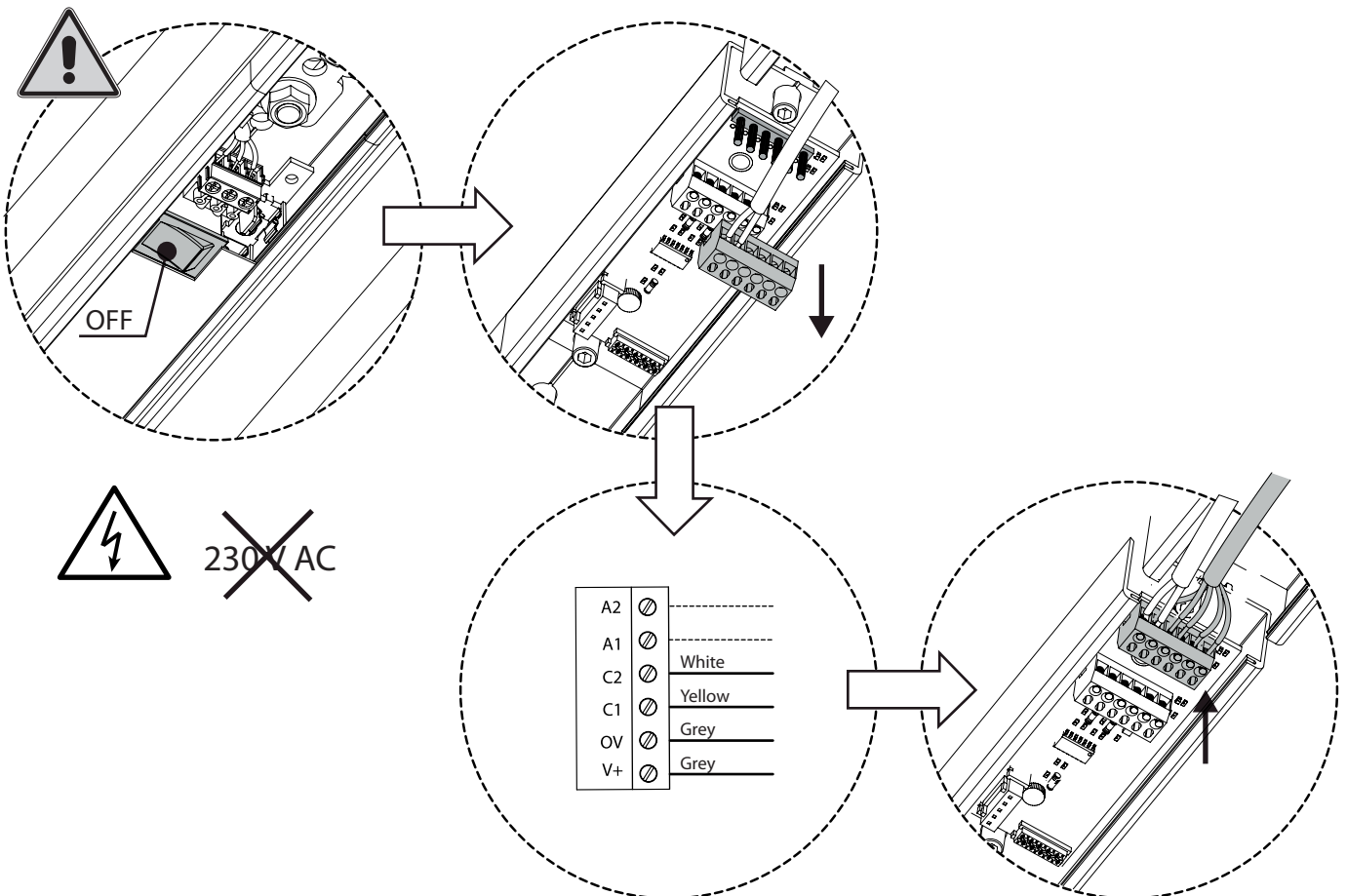
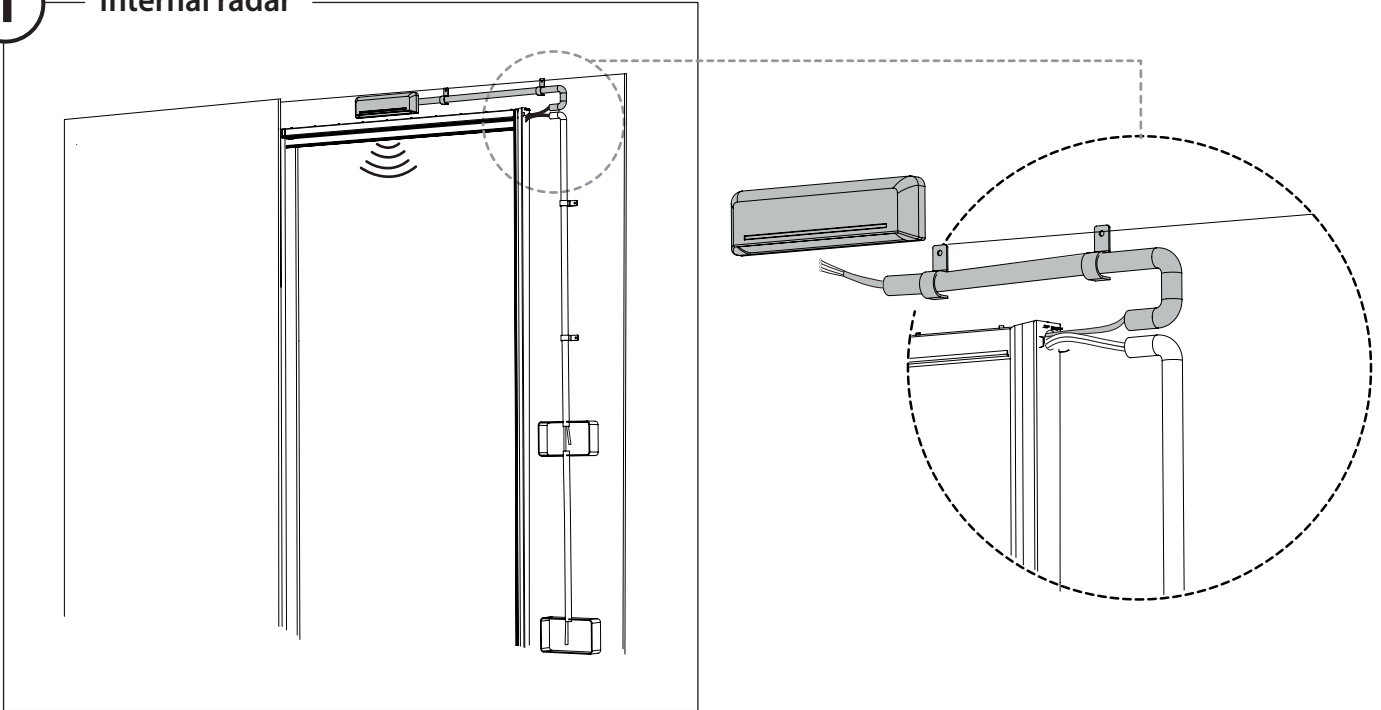
OPERATING MANUAL, USE AND MAINTENANCE
AUTOMATIC GUIDE E-MOTION



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Rev. 2

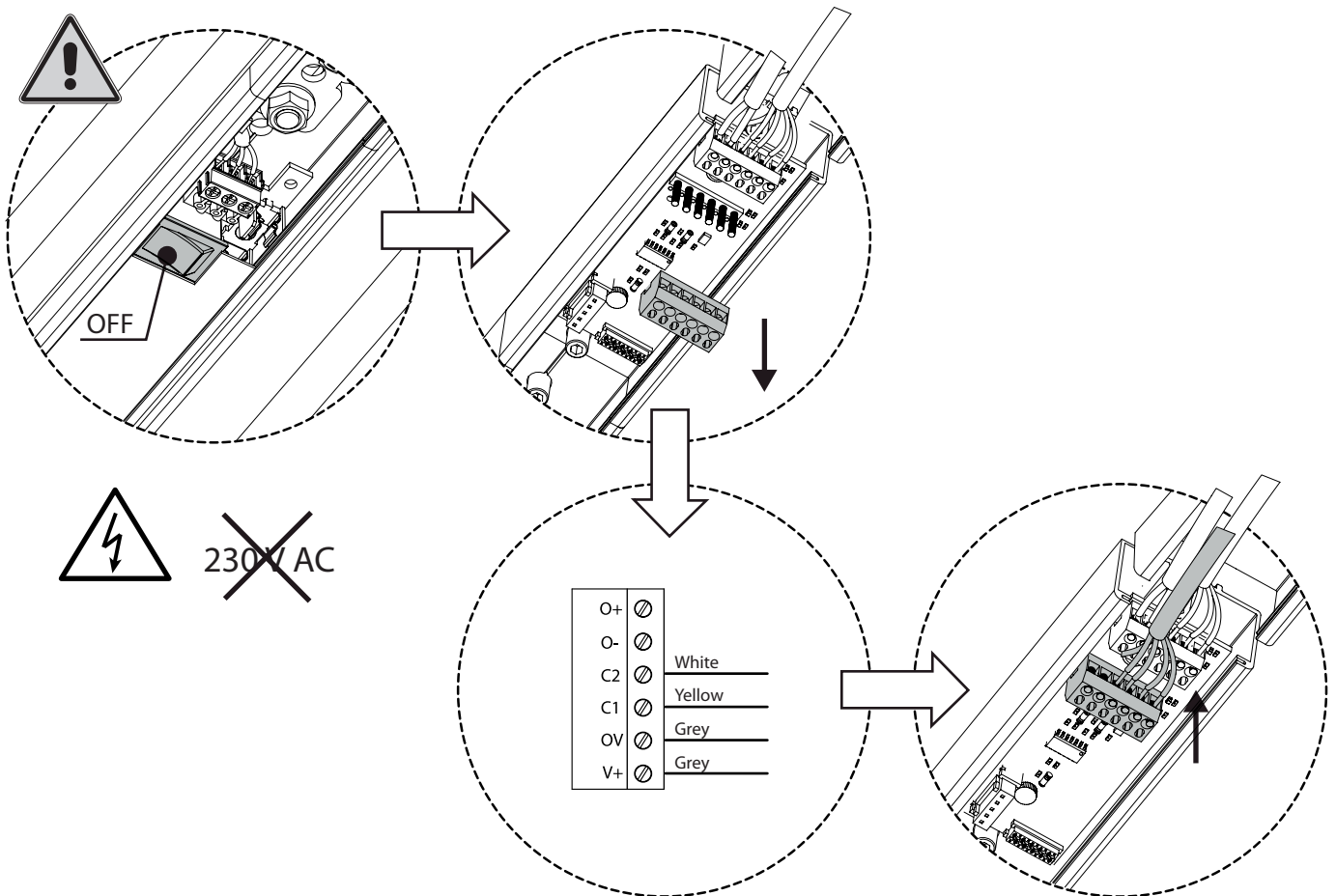
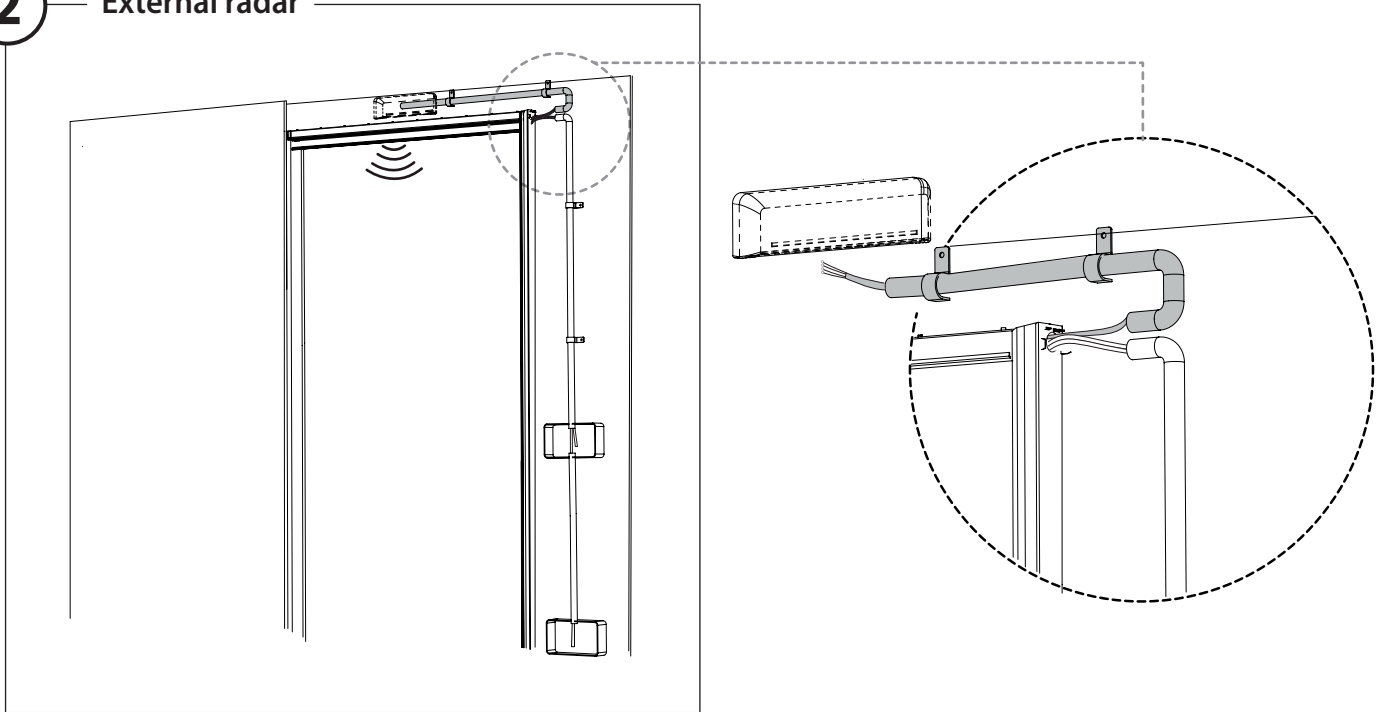
6. ACCESSORIES' TEST AND CONNECTION

1 Internal radar



6. ACCESSORIES' TEST AND CONNECTION

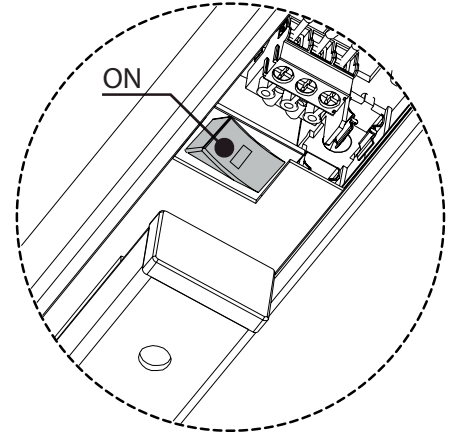
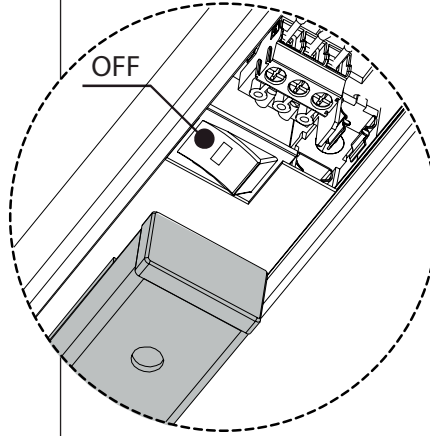
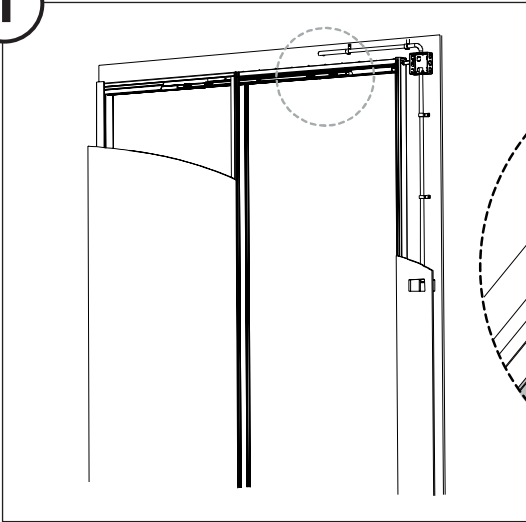
2 External radar



7. FUNCTIONING TEST

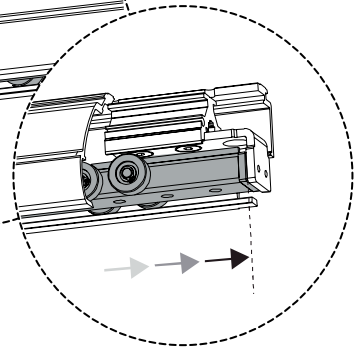
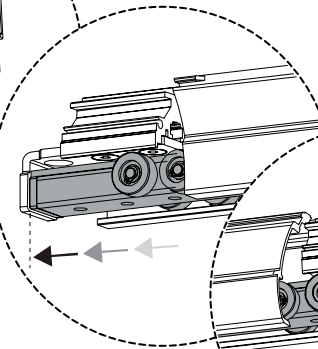
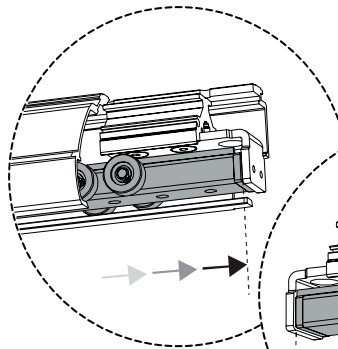
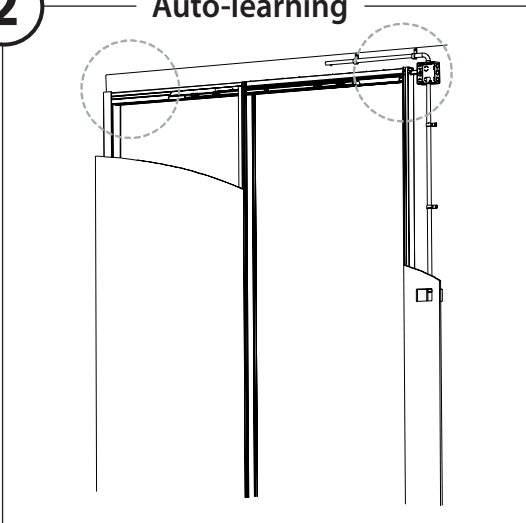
ADVICE: It is recommended to test the automatic guide without the activation elements (button, radar). In case of successful operation, connect the accessories and make the test again. This method allows to detect a potential malfunction.

1

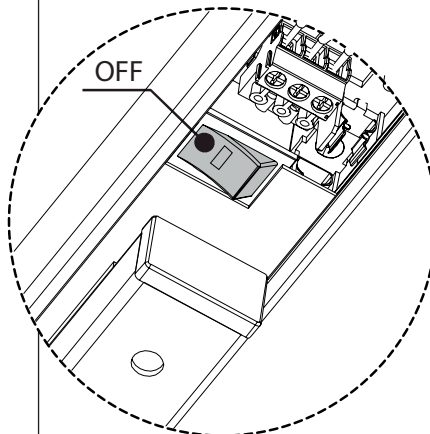
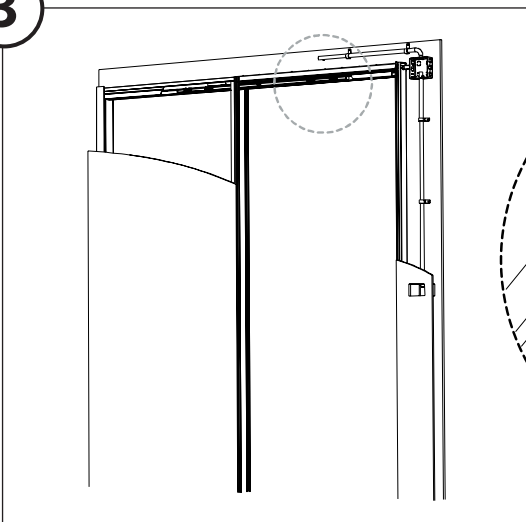


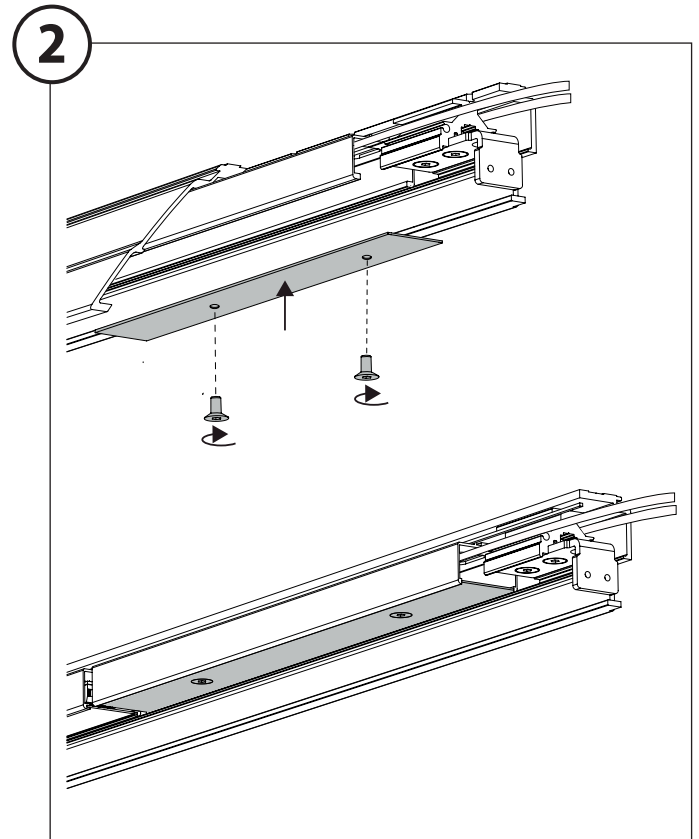
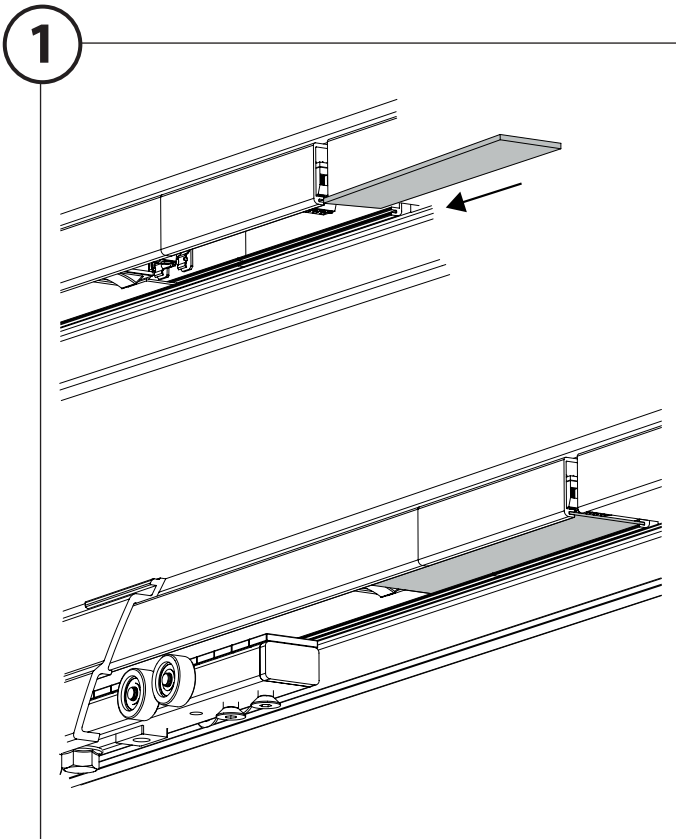
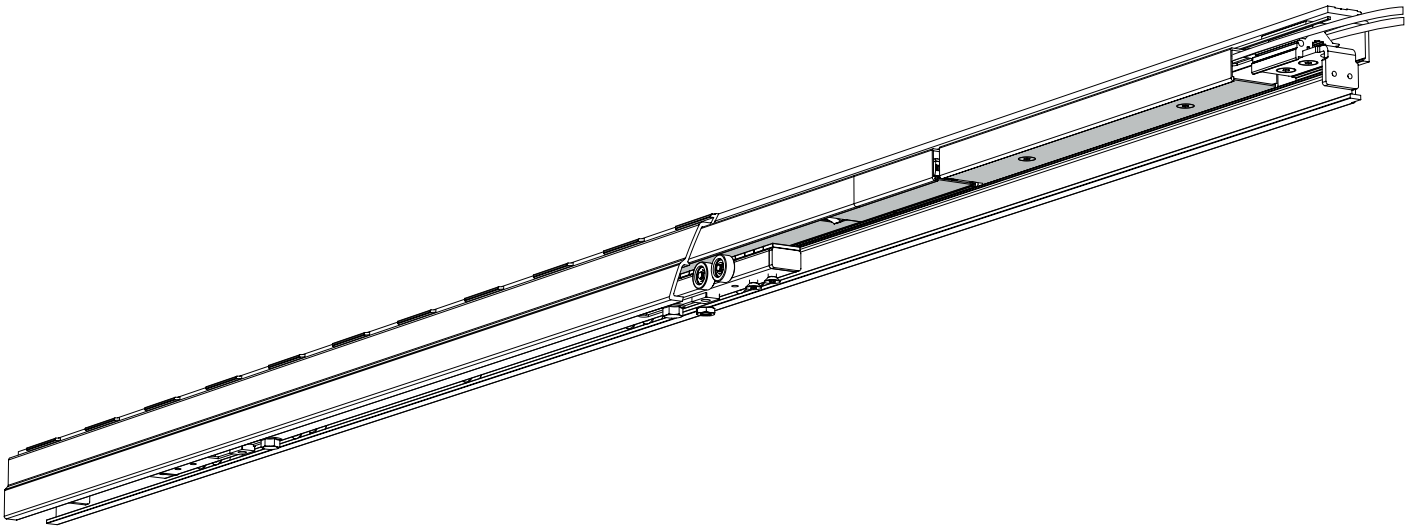
2

Auto-learning



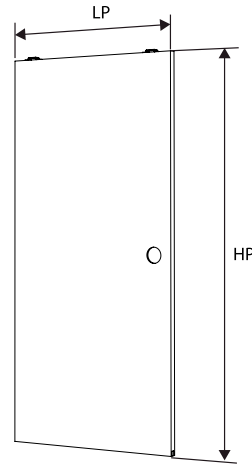
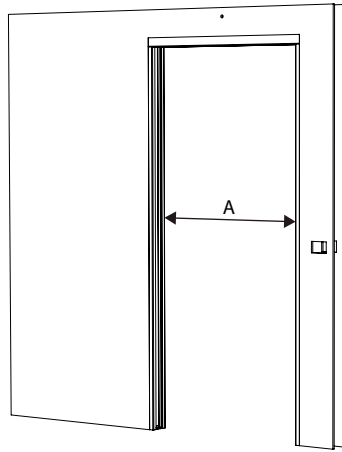
3



8. COVER ASSEMBLY

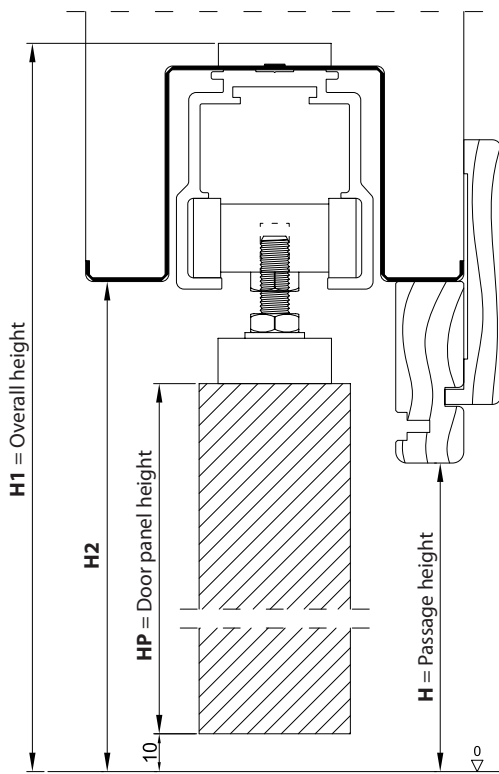
9a. WOODEN DOOR INSTALLATION

1

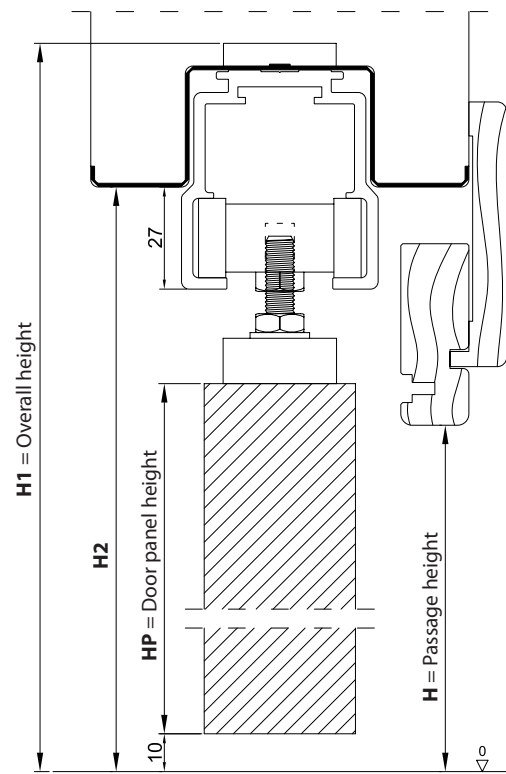


COUNTERFRAME PREPARED FOR E-MOTION

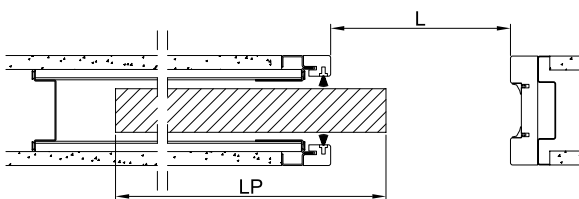
COUNTERFRAME NOT PREPARED FOR E-MOTION



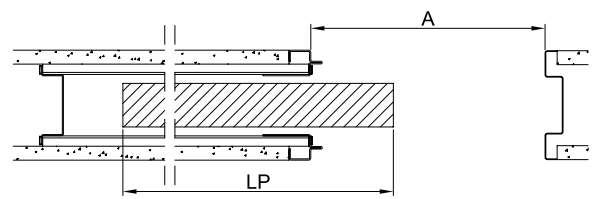
$$HP \text{ Door panel height} = H2 - 37 \text{ mm}$$



$$HP \text{ Door panel height} = H2 - 62 \text{ mm}$$

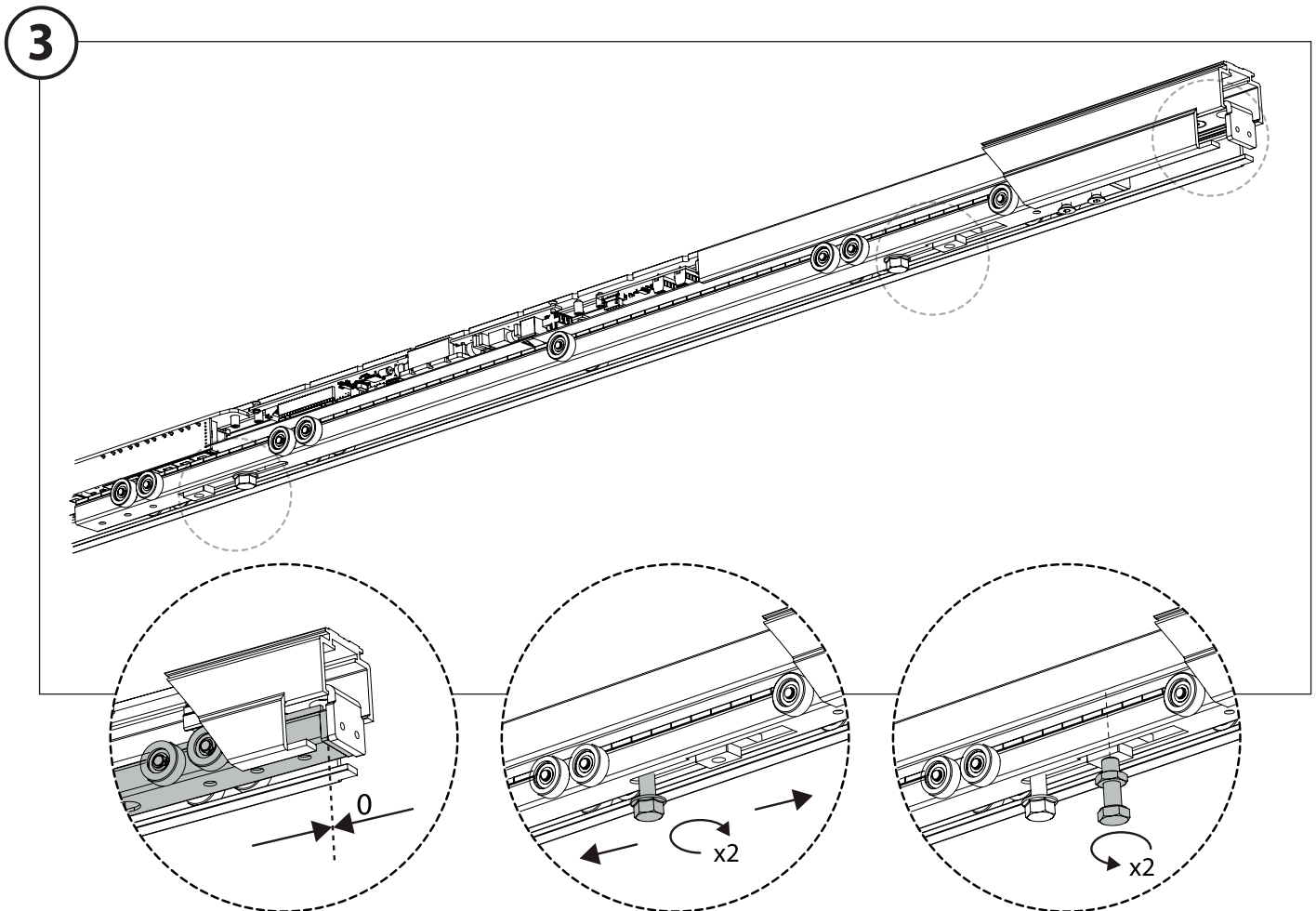
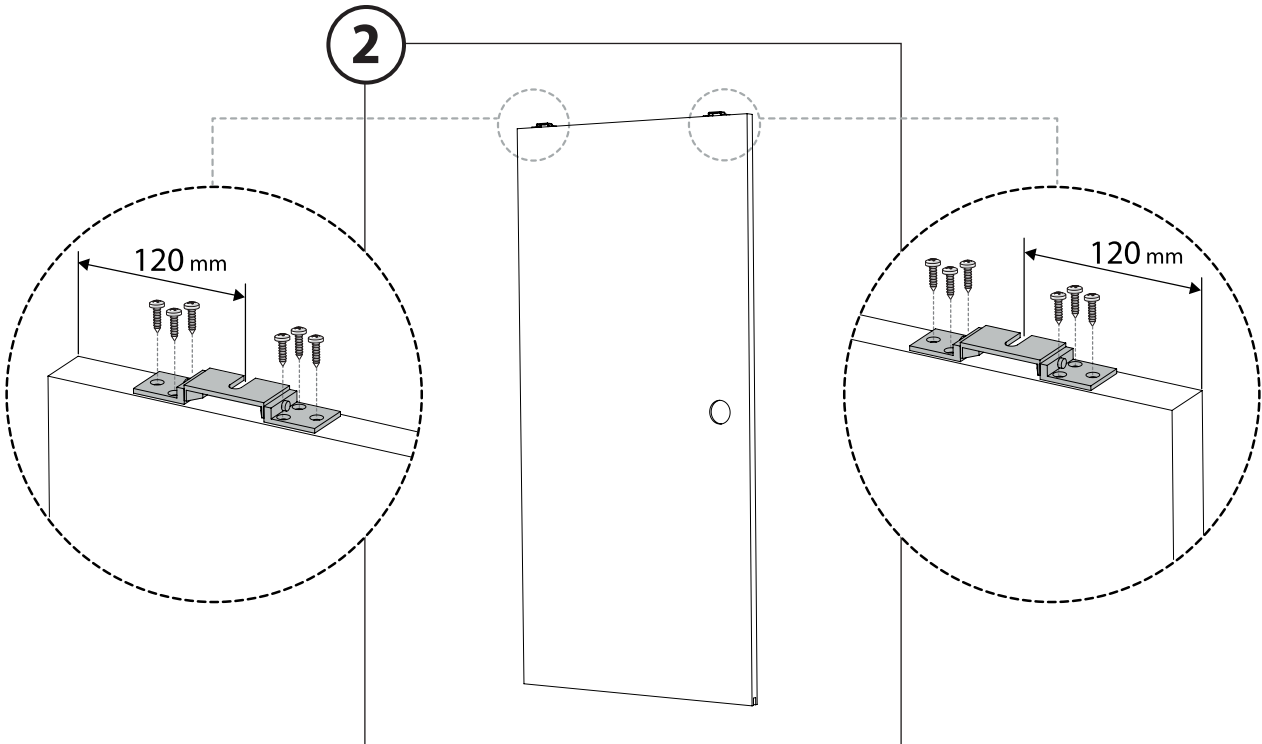


$$LP \text{ Door panel width} = L + 35 \text{ mm}$$

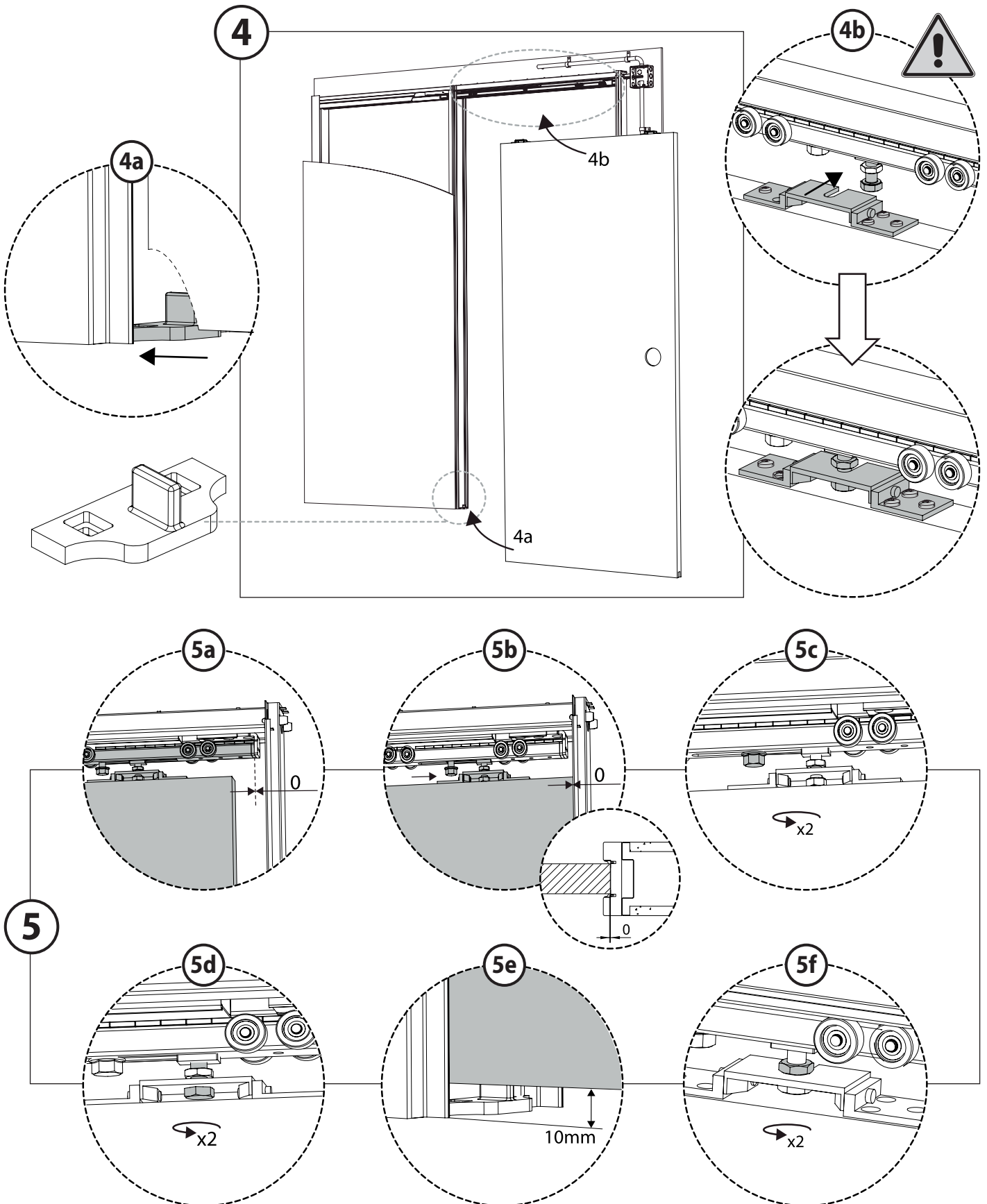


$$LP \text{ Door panel width} = A - 15 \text{ mm}$$

9a. WOODEN DOOR INSTALLATION

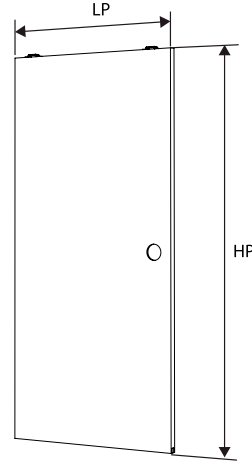
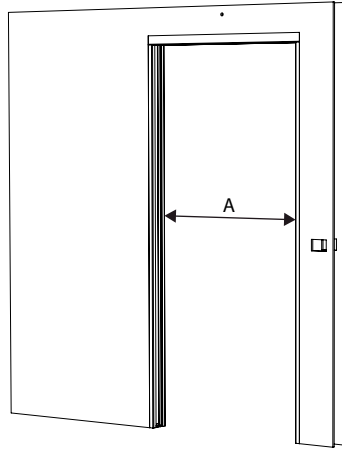


9a. WOODEN DOOR INSTALLATION



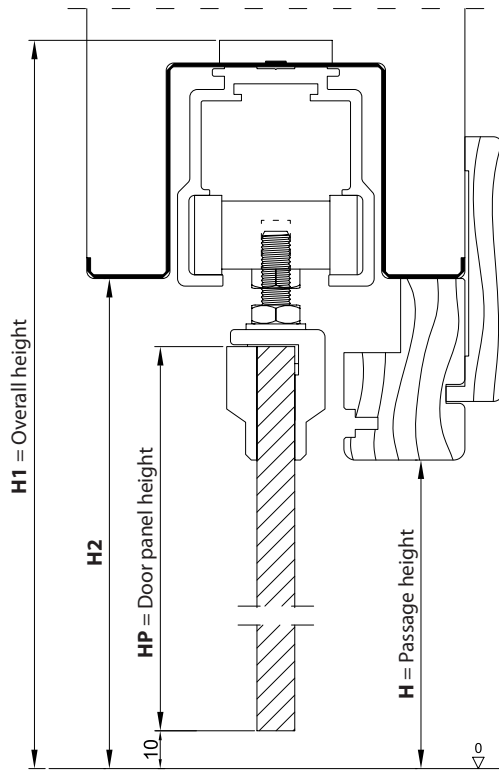
9b. GLASS DOOR INSTALLATION

1

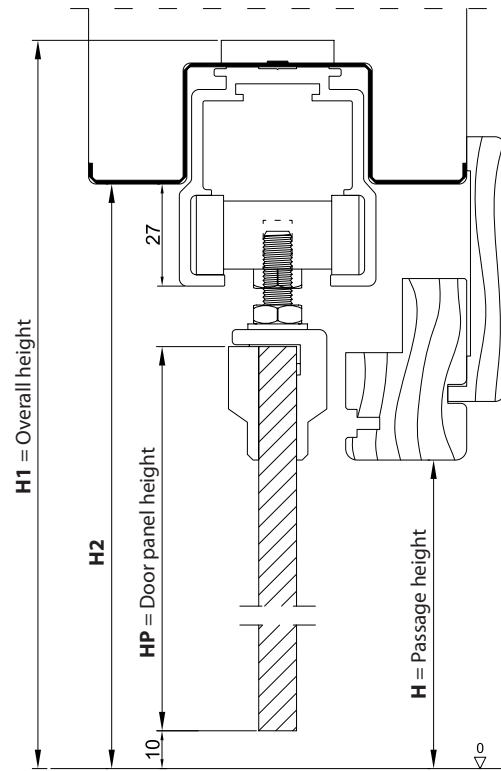


COUNTERFRAME PREPARED FOR E-MOTION

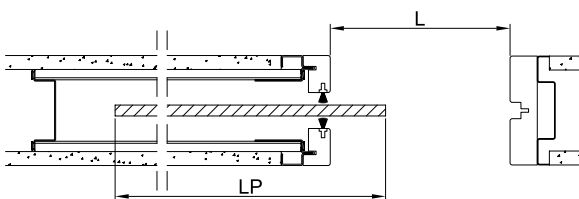
COUNTERFRAME NOT PREPARED FOR E-MOTION



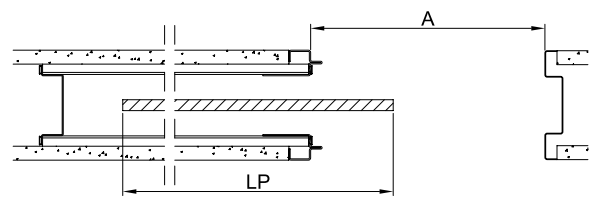
$$\text{HP Door panel height} = H2 - 28 \text{ mm}$$



$$\text{HP Door panel height} = H2 - 53 \text{ mm}$$

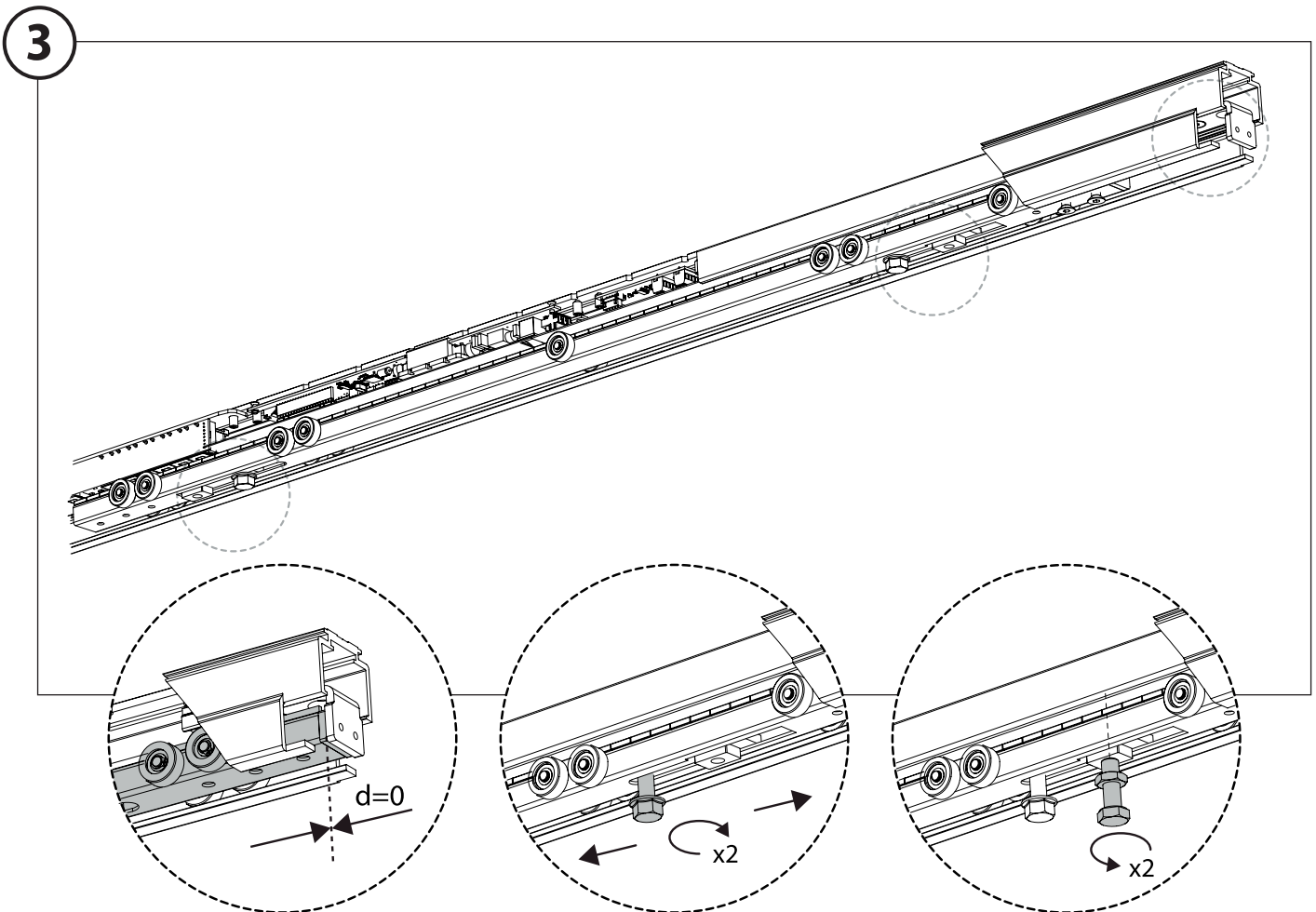
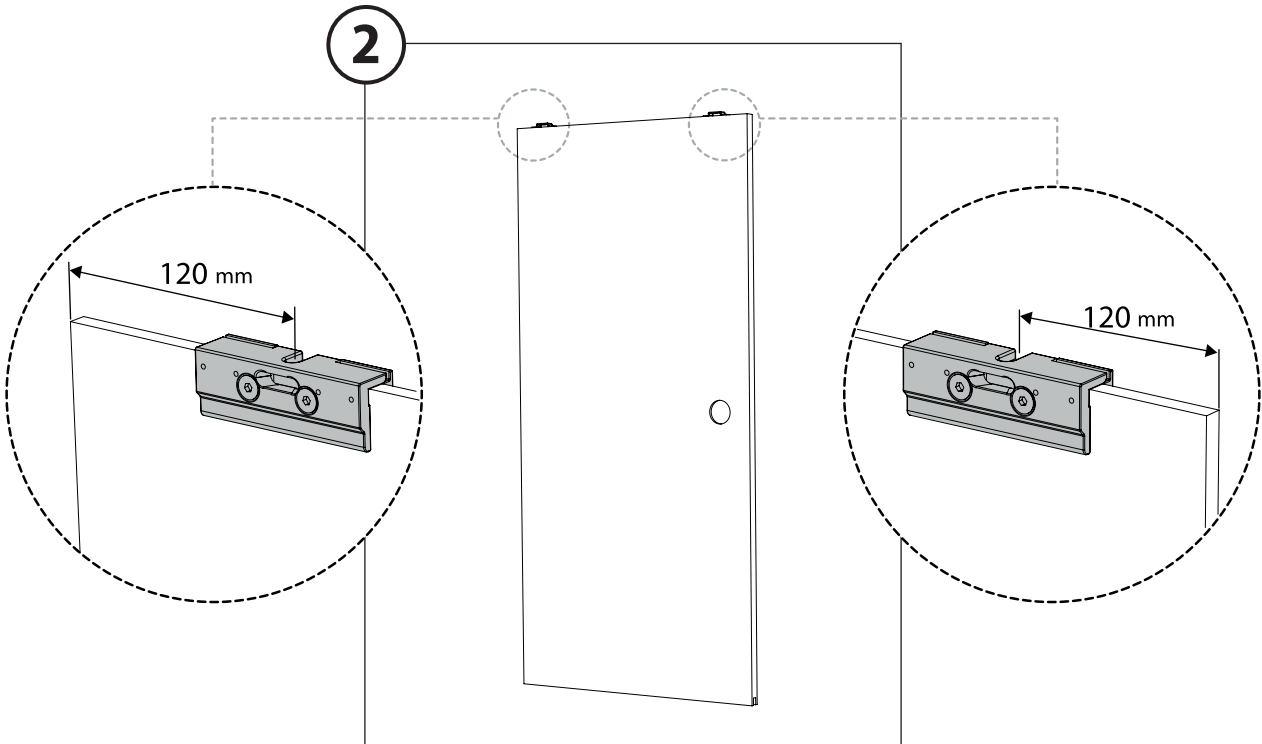


$$\text{LP Door panel width} = L + 35 \text{ mm}$$

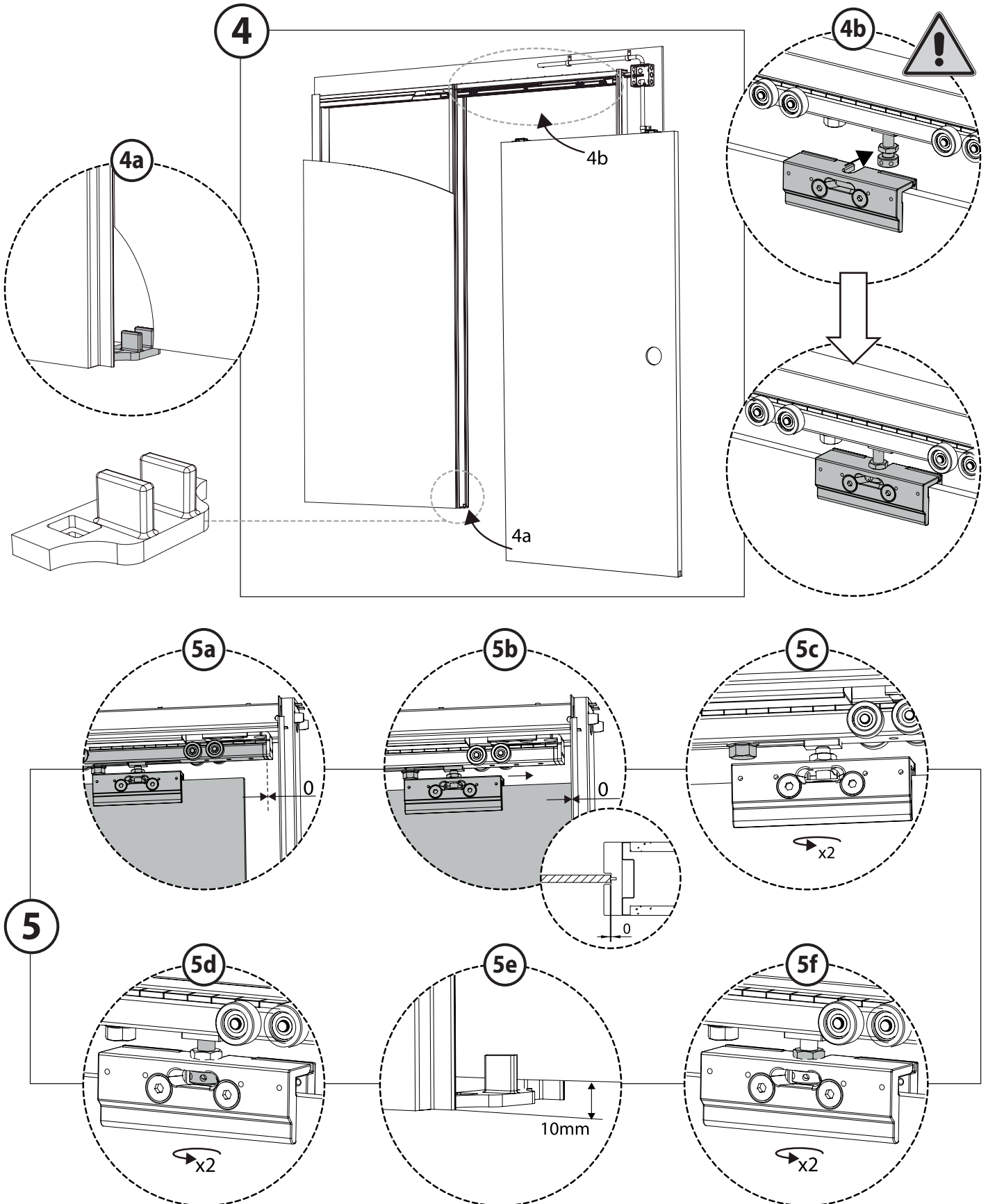


$$\text{LP Door panel width} = A - 15 \text{ mm}$$

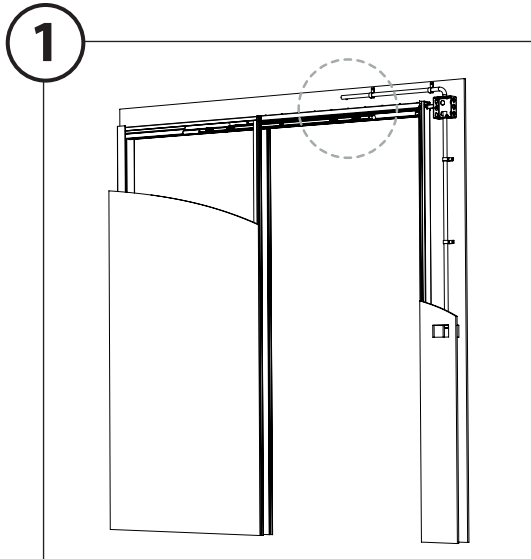
9b. GLASS DOOR INSTALLATION



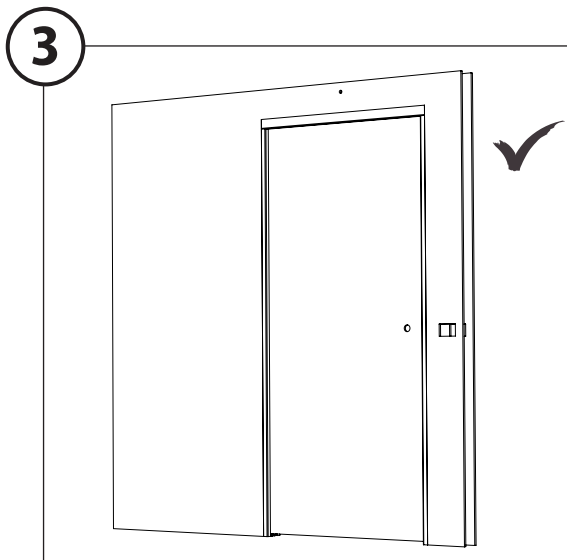
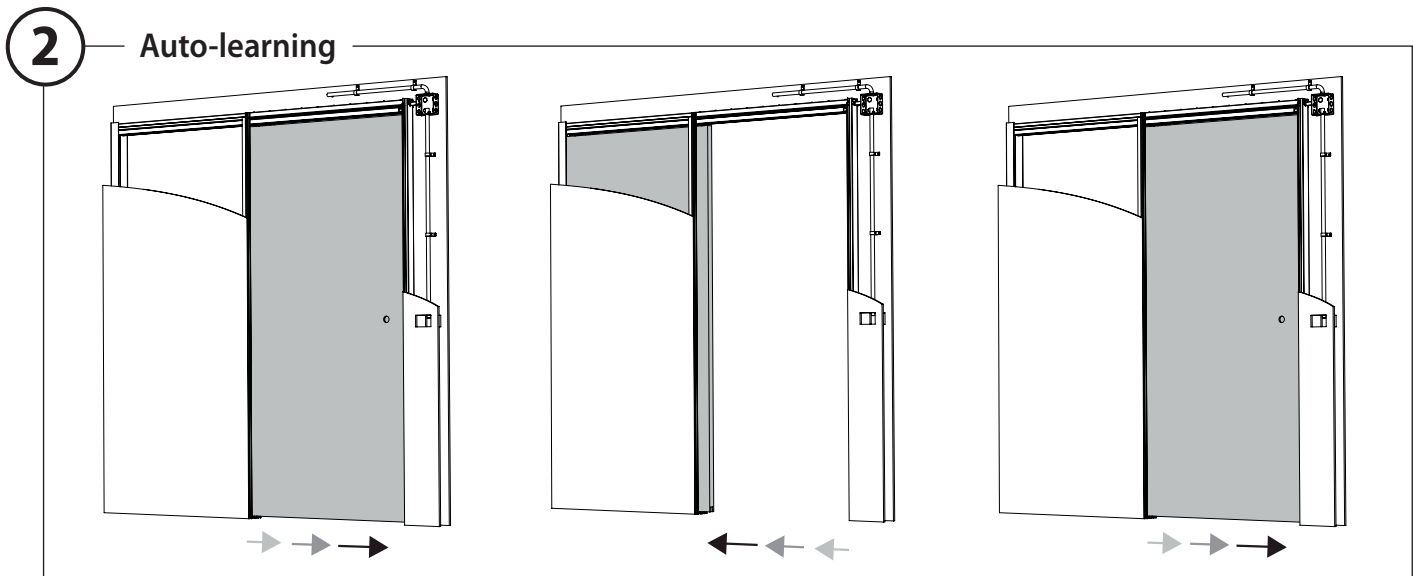
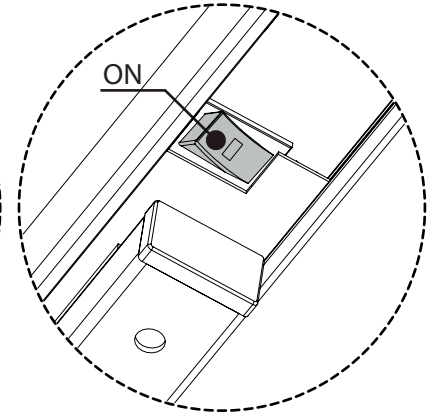
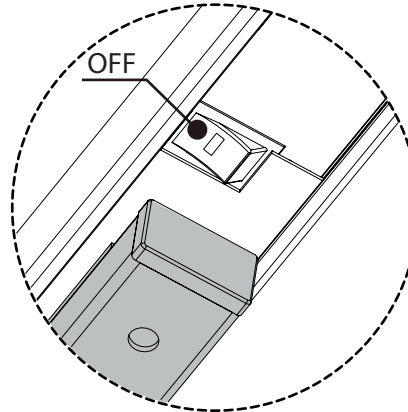
9b. GLASS DOOR INSTALLATION



10. COMMISSIONING ON



230 V AC





OPERATING MANUAL, USE AND MAINTENANCE
AUTOMATIC GUIDE E-MOTION



EC_MAN_IST_020
Rev. 2

1.5 FINAL CHECK AND CONFIGURATION

To be completed by the installer

<input type="checkbox"/> Auto learning	_____
<input type="checkbox"/> Basic functioning	_____
<input type="checkbox"/> Automatic	_____
<input type="checkbox"/> Push & Go	_____
<input type="checkbox"/> Button	_____
<input type="checkbox"/> Button + 5 sec - Opened	_____
<input type="checkbox"/> Complete functioning	_____
<input type="checkbox"/> Automatic	_____
<input type="checkbox"/> Opened	_____
<input type="checkbox"/> Exit only	_____
<input type="checkbox"/> Door closed	_____
<input type="checkbox"/> Regulations	_____
<input type="checkbox"/> Force sensitivity while closing	_____
<input type="checkbox"/> Opening speed	_____
<input type="checkbox"/> Door opened time	_____
<input type="checkbox"/> Sensors / Internal Radar	_____
<input type="checkbox"/> Regular movement in control area	_____
<input type="checkbox"/> Regular presence in research area	_____
<input type="checkbox"/> Regulation time presence	_____
<input type="checkbox"/> Proximity detector	_____
<input type="checkbox"/> Power failure	_____
<input type="checkbox"/> The lock opens	_____
<input type="checkbox"/> It works manually	_____
<input type="checkbox"/> Mechanic	_____
<input type="checkbox"/> Interference with walls and/or fix verticals	_____
<input type="checkbox"/> Doors levelled and plumbed	_____
<input type="checkbox"/> Height between door and floor: 6 – 10 mm	_____
<input type="checkbox"/> Friction	_____
<input type="checkbox"/> Cleaning	_____
<input type="checkbox"/> Note:	_____

1.6 INSTALLATION DECLARATION OF CONFORMITY CE

To be completed by the installer

INSTALLATION DECLARATION OF CONFORMITY CE (Directive 2006/42/CE - Directive on Machinery -)

Installer:

Address:

I declare:

Door description:

(Model, type)

Serial number:

Localization:

(Client, address)

- The product complies with the requirements of Directive on Machinery 2006/42/EC
- It complies with the provisions of the following other EEC directives:
Electromagnetic Compatibility Legislation 2004/108/CE, as amended;
Low Voltage Directive 2006/95/CE, as amended.
- I declare that the installation complies with all the specifications in this manual.
- I declare that the product passed the final functioning and safety check and that I informed the user about the product safe use instructions.

The following standard and national technical specifications and laws were applied:

- CEI 64-8 – Electrical installations with rated voltage not exceeding 1000V ac and 1500V dc

Date:

Installer signature, written legibly

STAMP AND SIGNATURE OF THE INSTALLER

LABEL - MARK CE

[e]motion

