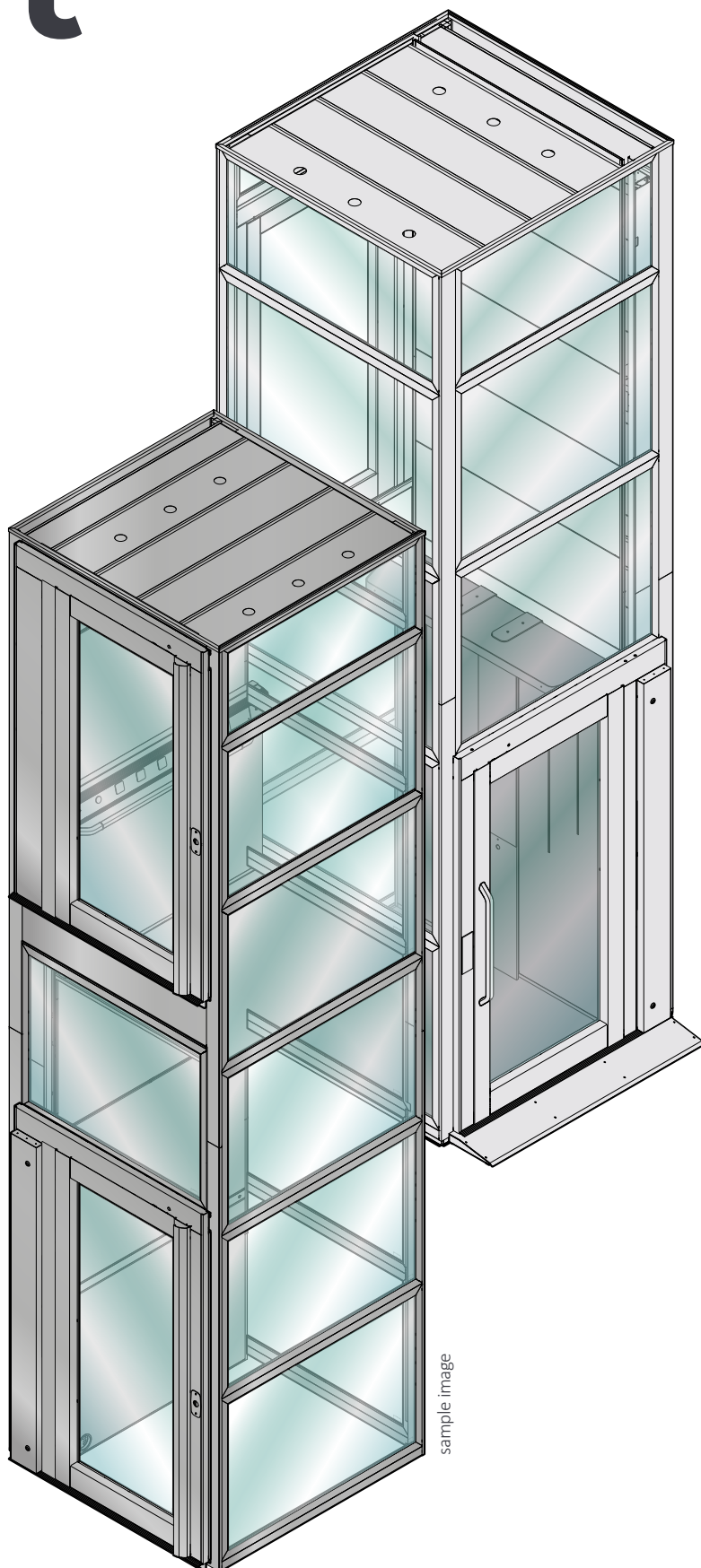


DomoFlex[®] and IconLift[®]

Electric screw driven platform lift

MAINTENANCE INSTRUCTIONS

(Rev.2.2)



sample image

TABLE OF CONTENTS

1. Manual reading guide	5
1.01. Preliminary information.	5
1.02. Personal security and risk recognition	6
2. Safety and information Signs	7
2.01. DANGER Signs.	7
2.02. PROHIBITION Signs.	7
2.03. MANDATORY Signs	7
2.04. Information symbols and infographics	7
3. Liability and warranty conditions	8
3.01. Legal warranty and its free extension up to 60 months	9
4. General requirements and installation site management	10
4.01. General requirements	10
5. Preliminary controls	11
5.01. Preliminary safety checks	11
5.02. Preliminary checks of the installation site	11
5.03. Obligations of the installer	12
6. Equipment and materials required for maintenance	13
7. Test procedure	14
7.01. General information.	14
7.02. Out of service mode.	14
8. Maintenance operations	15
8.01. Maintenance - in front of the control board	16
8.02. Maintenance - in the pit	17
8.03. Maintenance - on the platform.	19
8.04. Internal mechanical infill panels - removal	20
8.05. Maintenance operations: frequency and description	21
8.06. Safety nut - verification of correct spacing.	25
8.07. Safety nut - adjustments	25
8.08. Netscrews - wear check.	27
8.09. Brake - function and wear check.	29
9. Landing doors - maintenance.	30
9.01. Manual door closer	30
10. Landing doors - use of emergency key	31
11. Repair	31
12. Spare parts	31

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1. Manual reading guide

IMPORTANT!



EN: Translation of the original instructions

This product may only be commissioned if these instructions are available to you in an official EU language that you understand and you have understood the contents.
If this is not the case, please contact your Lifting Italia S.r.l. contact partner.

READ THIS MANUAL CAREFULLY

BEFORE INSTALLING AND USING THE PRODUCT

Retain the technical documentation near the lifting platform for the entire lifecycle of the product. In case of change of ownership, the technical documentation must be provided to the new user as an integral part of the product.

1.01. Preliminary information

NOTICE



This product must be installed and put into operation according to the provisions and regulations in force. Improper installation or improper use of the product can cause damage to people and property, as well as cause the warranty to lapse.

FOLLOW THE SUGGESTIONS AND RECOMMENDATIONS TO OPERATE IN SAFETY.

Any unauthorized modification can compromise the safety of the system, as well as the correct operation and the life of the machine. If you have any doubts regarding the correct understanding of the information and contents contained in this manual, contact LIFTING ITALIA S.r.l. immediately.

QUALIFIED PERSONNEL.

The product covered by this documentation can only be installed by qualified personnel, in compliance with the attached technical documentation, above all in compliance with the safety warnings and the precautions contained therein.



Technical specifications may be subject to change without notice due to product improvement development.

The drawings included in this manual are to be considered as indicative and are NOT an exact reference to the product concerned.


1.02. Personal security and risk recognition

This manual contains safety rules that must be observed to safeguard personal safety and to prevent damage to the property.

The indications to be followed to guarantee personal safety are highlighted by a triangle symbol while those to avoid material damage are not preceded by the triangle. The hazard warnings are shown as follows and indicate the different levels of risk in descending order.







RISK CLASSIFICATION AND RELATIVE GRAVITY OF DAMAGE		
DANGER!	The symbol indicates that the failure to comply with appropriate safety measures causes death or serious physical injury.	RISK LEVEL
WARNING	The symbol indicates that the failure to observe the corresponding safety measures can cause death or serious personal injury.	
CAUTION	The symbol indicates that failure to observe the relevant safety measures can cause minor or moderate personal injury or damage to the device.	
NOTICE	It is not a symbol of security. It indicates that the failure to comply with relevant safety measures can result in property damage.	
INFORMATION	It is not a symbol of security. It indicates important information.	

If there are multiple levels of risk, the danger warning always indicates the highest one. If a warning is drawn with a triangle to warn to the risk of injury to persons, the risk of possible property damage may also be caused at the same time.

WARNING	
	During installation / maintenance of the platform, the safety functions are temporarily suspended. Therefore all necessary precautions must be taken to avoid personal injury and / or damage to the product.

2. Safety and information Signs

2.01. DANGER Signs

	GENERAL DANGER		ELECTRICITY DANGER		DANGER FLAMMABLE MATERIAL
	DANGER OF FALL BY A LEVEL		DANGER SUSPENDED LOADS		DANGER OF CRUSHING










2.02. PROHIBITION Signs




	GENERIC PROHIBITION		FORBIDDEN TO STEP ON		PROHIBITED TO WALK ON OR STOP IN THIS AREA
---	---------------------	---	----------------------	---	--

2.03. MANDATORY Signs


	OBLIGATORY TO WEAR THE PROTECTION HELMET		OBLIGATORY TO WEAR SAFETY SHOES		OBLIGATORY WEAR THE PROTECTIVE GLOVES
	OBLIGATORY TO WEAR EYE PROTECTION		OBLIGATION TO WEAR THE AUDIO PROTECTION		

2.04. Information symbols and infographics

	MARK		DRILL AND/OR SCREW		CUTTING AND/OR GRINDING
	MEASURE		APPLY RIVETS		USE SUCTION CUPS
	USE THE HAMMER		LEVELING		USE HOIST

	INFORMATION Symbol that identifies information that is useful to the installer but is not mandatory for the installation, nor does it pose a risk to the user.
	IMPORTANT! Symbol that identifies important information to be scrupulously observed.
	ELECTRICAL CONNECTIONS Symbol that identifies the connection of an electrical component.

3. Liability and warranty conditions

RESPONSIBILITY OF THE INSTALLER	
IMPORTANT!	
	Installers are responsible for ensuring compliance with safety procedures at work and any health and safety regulations in force in the country and on the site where the assembly is carried out.
	The persons authorized to carry out installation, maintenance, and rescue operations are those in possession of an elevator maintenance authorization certificate, issued according to the regulations in force in the country where the assembly is carried out.

The elevator / platform (and each of its components) is produced and intended to be installed as described in the attached project drawing and in this manual; any divergence from the prescribed procedure may affect the operation and safety of the system and cause the immediate cancellation of the warranty.
Any modification or variation made to the project and the to the assembly Instructions must be documented in detail and referred to LIFTING ITALIA S.r.l., in order to allow the company an adequate assessment. Under no circumstances can a modified system be activated without the express authorization of LIFTING ITALIA S.r.l.
The elevator / platform must only be used in the way envisaged by the system and illustrated in the relative manuals (transportation of people and / or things, maximum loads, cycles of use, etc.). LIFTING ITALIA S.r.l. assumes no responsibility for damage to persons and property caused by improper use of the system.

	Pictures and images on this manual are for illustration purposes only.
---	--

3.01. Legal warranty and its free extension up to 60 months



The manufacturer warrants the lift under the condition that the instructions in the installation and current maintenance manual of the machine are strictly followed.

The lift has a legal warranty of 1 year and a free extension for a further 4 years according to the following conditions and exclusions:

- A. The period of legal warranty of the product is 12 months from the date of the 'Goods Ready' notice.

The warranty does not cover:

- ordinary maintenance and adjustment activities;
- normal wear and tear of items such as, but not limited to: shoe seals (arch, doors), hydraulic cylinder and valve unit seals, transmission belts, brakes, batteries, lamps, LED strips, rolling bearings, electric motors subject to belt pull, idler pulleys, push buttons (after 12 months from commissioning), oils and lubricants, dulling of paintwork, glass and mirrors arrived on site in undamaged packaging.

The warranty does not cover damage caused by:

- abnormal use, incorrect operation, improper service, alteration or removal of parts, use of the lift not in line with the recommended operation and work cycle, incorrect installation i.e. not in accordance with the installation manual; use of parts or accessories that are not original or authorised by AreaLifting; use of oils or lubricants other than those indicated by the manufacturer, installation in an environment or application not in line with the manufacturer's recommendations, incorrect maintenance or repair, failures due to insufficient power supply, fortuitous events or force majeure.

- B. The Warranty shall be effective if the defects are reported within 2 weeks of their actual discovery. The Seller reserves the right to repair or replace the defective part at their sole discretion. The Seller shall bear the transport costs of the defective part but reserves the right to charge for the same if it is found not to be defective or not subject to warranty. Excluded from Warranty and/or reimbursement are customs duties and any additional charges resulting from the uninstallation and subsequent restoration of the defective part on the lift.

- C. The Warranty on the machine will be extended free of charge, for a period of a further 48 months beyond the legal warranty period, when:
- the product is installed by a customer who is registered on the Seller's 'Warranty' portal;
 - the purchaser has carried out training provided by the Seller, or undertakes to do so within a period of 12 months from the purchase order;
 - the Sentinel module is continuously connected - wireless or GSM - once the lift has been put into service, if it is equipped as standard. If, on the other hand, it is not equipped, the Buyer must manually register it on the Warranty Portal. Should the Seller be requested to activate the GSM SIM card, the Seller shall only activate it upon payment of the relevant five-year fee.
 - the lift is regularly maintained according to the instructions in the Maintenance Manual.

4. General requirements and installation site management

4.01. General requirements

IMPORTANT!



For more information on safety, liability and warranty conditions, receipt and storage of material on site, packaging, waste disposal, cleaning and storage of the product; refer to the "SAFETY INSTRUCTIONS AND SITE MANAGEMENT" manual.

NOTICE



PRELIMINARY CHECKS.

Once the packaging has been opened, check that the product is intact and has not been damaged during transport. Should any anomalies or damage be found, please dispatch them in writing on the transport document to the transport company, giving written notice to LIFTINGITALIA S.r.l.

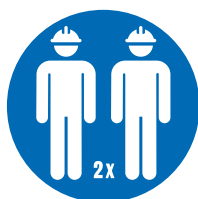
WARNING



SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:

4. Always secure tools and any objects against falling;
 5. Pay the utmost attention to all the steps described in this;
 6. While assembling the parts making up the system or after installation, be careful of any sharp burrs (machining residues).
- Before proceeding with the installation, it is necessary to remove any rubble and material deposited during the construction of the shaft.
 - Only nuts and bolts included in the supply must be used.
 - The bags containing the screws must be opened in correspondence with the respective operating phases indicated in this manual.
 - The instructions described in this manual refer to a reinforced shaft, to a fastening with mechanical expansion plugs of the stud type. For the use of plugs in masonry other than the reinforced concrete see the attachment to this manual. For the shafts with metal framework, we proceed by replacing the plugs with normal screws.
 - In these instructions and on the wiring diagram, the stops are indicated with 0, 1, (2, 3 etc.), meaning "0" the lowest stop: the numbers on the push-button panels may be different according to the user's needs (for example - 1, 0, etc.).

CAUTION




The assembly must be performed by a
MINIMUM 2 people




Use a suitable lifting equipment for handling
 the components if the load is greater than
50kg

5. Preliminary controls

5.01. Preliminary safety checks

WARNING	
	<p>BEFORE STARTING THE INSTALLATION/MAINTENANCE, YOU NEED TO:</p> <ul style="list-style-type: none"> • Check that the main electrical system is up to standard and provided with adequate grounding. <u>Otherwise, stop the installation until the Customer has updated the system.</u> • Check the presence of an efficient lighting system at the place of installation; • Check the cleanliness of the shaft area/pit that there are no liquids (water, oil, ...) on the bottom; • Check that the entrances to the work areas are properly closed. • Check that all the holes and the housings for the electric cables are free, inspectable, well finished and dry; • Check that there is adequate ventilation for the smoke exhaust.

5.02. Preliminary checks of the installation site

NOTICE	
	<p>BEFORE STARTING THE INSTALLATION, CHECK THE FOLLOWING MEASURES AND COMPARE THEM WITH THOSE ON THE PROJECT DRAWING:</p> <ul style="list-style-type: none"> • Width (distance between the side walls) • Depth (distance between front and back wall) • Base/Pit depth • Travel • Headroom height • Plumbing of the shaft and any plumb parts already installed • Dimensions of any necessary arrangements (breaking down the landing doors, distance between the guides, • Determine the finished floor level of each floor. <p><u>Measure the width and length of the shaft at all levels. Perform the dimensional checks independently of the measurements taken by the building contractor.</u></p>

5.03. Obligations of the installer

WARNING



BEFORE STARTING THE INSTALLATION, YOU NEED TO:

- Arrange a material deposit area near the work area, easily accessible and protected from the bad weather.
- Prepare any lifting equipment to be used.
- Check the presence of all materials, using the list.
- Check the state of all materials at the time of receipt on site and in case of damage or missing contact the supplier immediately.
- Periodically check the materials destined for long storage before installation to avoid possible deterioration caused by incorrect storage.
- Check the completeness of the attached documentation.

6. Equipment and materials required for maintenance

IMPORTANT!

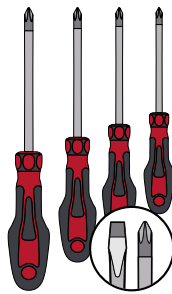


The lift maintenance operations must be carried out by qualified personnel, authorized in accordance with the current legislation.

BALL POINT LONG HEX KEY WRENCH



ELECTRICIAN SCREWDRIVER SET



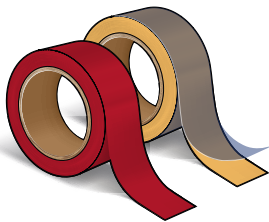
DIGITAL MULTIMETER



TAPE MEASURE



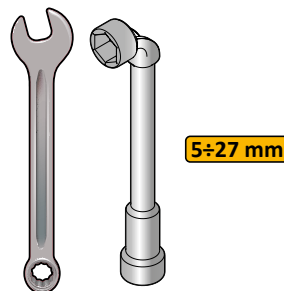
INSULATION TAPE + DOUBLE SIDED TAPE



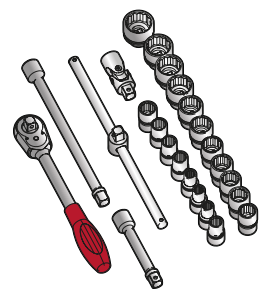
SCISSORS FOR ELETTRICIANS



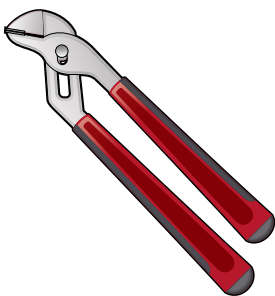
SPANNER + SOCKET WRENCH



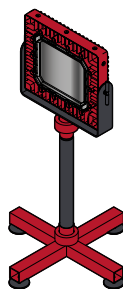
RACKETING RING SPANNER SET



PLIERS WRENCH



PORTABLE LAMP



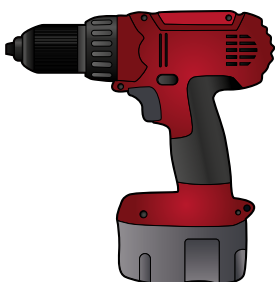
SAFETY LADDER 5 STEPS



HAMMER + RUBBER HAMMER



DRILL + ELECTRIC SCREWDRIVER



DRILL BITS



CONCRETE
from 6 to 22 mm



STEEL
from 2 to 13 mm

7. Test procedure


The platform lift has been designed to reduce the necessity of periodical maintenance.

The safety components have been certified in accordance with the current regulations. The platform lift has been certified in accordance with Machine Directive 2006/42/CE, to guarantee the maximum reliability of the products and the complete user's safety.

The actual maintenance requirements comprise a periodical check by an authorized Body, to be effected every two years. We recommend that maintenance operations be effected to ensure the correct functioning of the lift. The owner of the lift is invited to plan and strictly follow the maintenance operation schedule. Should any irregularity or trouble occur, the maintenance personnel must be notified immediately.

7.01. General information

- The stops are indicated as 0, 1, 2, 3, "0" meaning the lowest floor: the COP numbering may be different according to the customer's needs (example -1, 0, etc.);
- The other reference documents are as follows:
 - Project drawings referred to the lift;
 - Electrical schemes and instructions.
- For threaded fixings coupling, please respect the below table.
All the screws used for the lift assembly, have been tightened using the parameters stated in the below table.

NOTICE			
 FOLLOW THE TIGHTENING TORQUES INDICATED FOR THREADED COUPLINGS. In order to avoid the risk of bolt or component loosening or stress, with a deformation and breakage risk, please follow the screw tightening torques indicated in the table.	TIGHTENING TORQUE GUIDE		
	SCREW	COUPLE MAX (Nm)	COUPLE MIN (Nm)
	M3	1.2	1.0
	M4	2.6	2.1
	M5	5.1	4.1
	M6	9.0	7.0
	M8	21.0	17.0
	M10	42.0	34.0
	M12	71.0	57.0
	M16	175.0	145.0

7.02. Out of service mode

The following instructions describe the out of service procedure.

- Make sure the platform is empty;
- Bring the platform to the lowest floor;
- Wait for the busy signal to be off;
- Open all the circuits of the power supply board;
- Check if all the other landing doors are closed correctly;
- Arrange the "out of service" boards to be placed on all landings.

On completion of the above listed operations, the lift can be considered out of service, and cannot be used.

8. Maintenance operations

The frequency and the description of the operations are stated in the table, paragraph “8.04”.

The recommended frequency is referred to the normal use of the lift, which means 1200 runs per month; a more frequent use requires a more frequent maintenance. The commissioning operations are listed in the Installation Manual; these are to be repeated, should there be a time gap of more than six months between the installation and the commissioning dates, or should the service be suspended for more than six months.

Should any element need to be replaced, we recommend using original components from the supplier LIFTINGITALIA S.r.l.

NOTICE



The lift maintenance operations must be carried out by qualified personnel, authorized in accordance with the current legislation.

THE FOLLOWING MAINTENANCE AREAS HAVE BEEN IDENTIFIED:


- IN FRONT OF THE CONTROL BOARD;
- IN THE PIT;
- ON THE PLATFORM.

The following table shows the maintenance areas in connection with paragraph “8.04”.

Maintenance area	N. of operation
In front of the control board	2. EMERGENCY POWER SUPPLY 5. EMERGENCY DESCENT 9. EXTRACORSA SUPERIORE ED INFERIORE 11. LIGHTING
In the pit	6. GUIDE RAIL SHOES 7. GUIDE RAILS 11. LIGHTING 13. ELECTRICAL WIRING 14. SHAFT CONTACTS 15. PLATES- SCHEMES
On the platform	1. SYSTEM MOVEMENT 2. EMERGENCY POWER SUPPLY 3. SENSITIVE SAFETY EDGES 4. LOCKS 6. GUIDE RAIL SHOES 7. GUIDE RAILS 8. TRACTION SCREW 10. GROUNDING 11. LIGHTING 12. OVERLOAD 13. ELECTRICAL WIRING 14. SHAFT CONTACTS 15. PLATES- SCHEMES 16. SPEED- PICKUP- SLOWING DOWN 17. CONTACTORS

Make sure that all the safety measures are taken, before starting to work in the maintenance areas.

8.01. Maintenance - in front of the control board

WARNING	
	ELECTRICITY HAZARD Several operations are to be effected in front of the control board under power.

- Disable power by means opening the main switch;
- Close the main switch only if required, paying attention to the safety rules to be followed in presence of components under power.

8.02. Maintenance - in the pit

- As stated in the adhesive plate, the “Safe Pit” device must be enabled before accessing the pit, by means of the following sequence of operations:

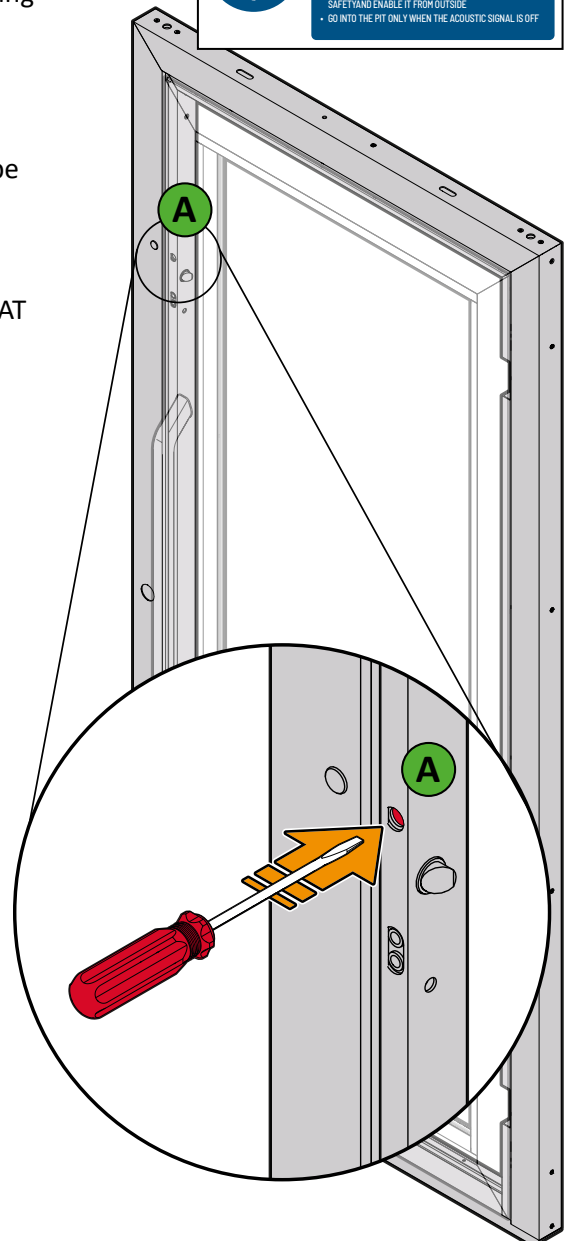
WARNING

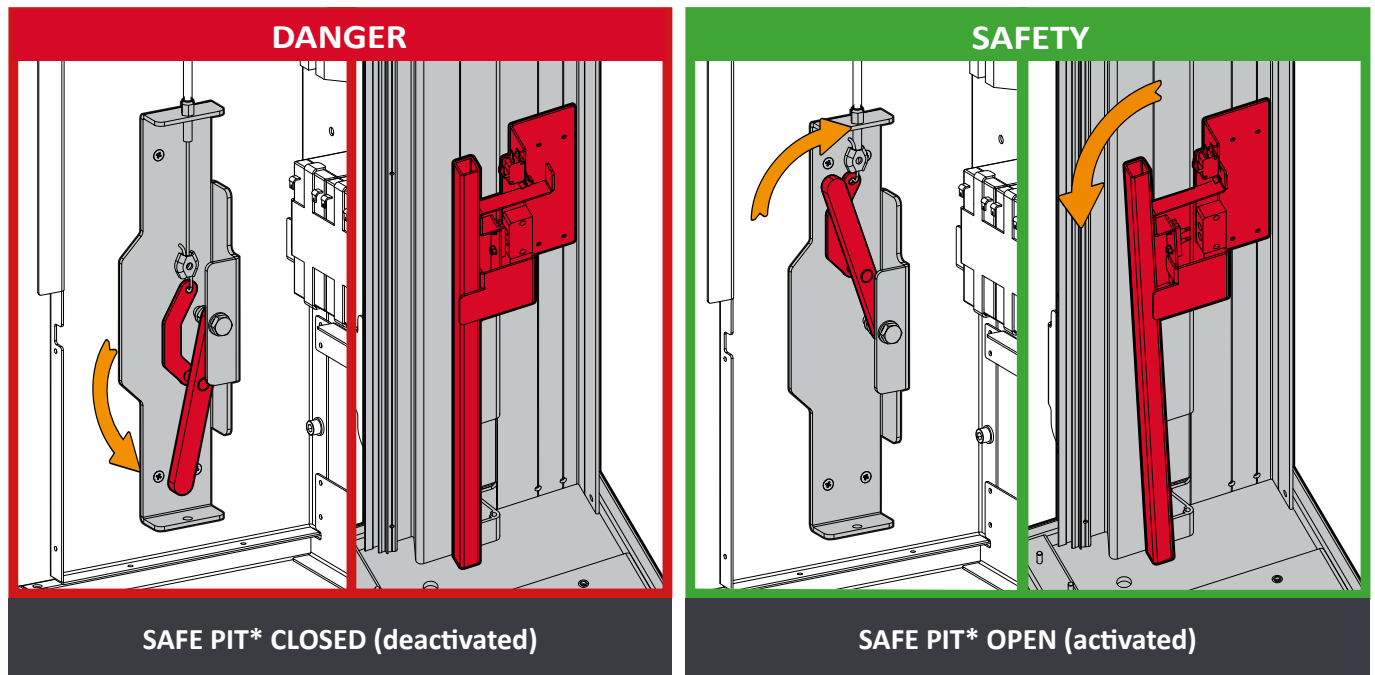


DANGER OF CRUSHING - BEFORE ACCESSING THE PIT IT IS MANDATORY:

- Activate the “pit safety device” (Safe-Pit) as indicated in the following instructions.
- Open the main switch located in the power supply panel (ref. IM.TEC.026 § 5.6).
- Perform the anti-entrapment procedures described in the following instructions (point 4).

- bring the car to one of the upper floors, possibly at the minimum height of 2500mm from the pit bottom and in any case OUT OF THE LANDING FLOOR (red led on the door of the control panel OFF). In this way, the Safe Pit device can be easily enabled;
- should you have trouble open the landing door using the unblocking key;
- should you have trouble as soon as the landing door has been unblocked, a light and sound emergency signal will be enabled, to remind the maintenance operator of the “Safe Pit” device to be activated; utilized a special lever;
- In the event of an electric lock, release the lock bolt pushing the white button **A**; by using the tip of a screwdriver and CHECK THAT BY CLOSING THE DOOR IT DOES NOT LOCK;
- USE DEVICES TO KEEP THE LANDING DOOR OPEN





6. Activate the “pit bottom safety device” by operating it from the outside;
7. should you have trouble when positioning the Safe Pit device, and should the light and sound signal still be on, it means that the car is too close to the pit bottom. So, close the landing door, reset the control board and send the car to the upper floor. Get back to the previous sequence of steps;
8. as soon as the light and sound signal is deactivated, pit access and maintenance operations inside are possible;
9. upon the work completed, leave the pit and close the Safe Pit. The light and sound signal will be active again until the device has returned to the resting position. Close the landing door and check it is locked off correctly.
10. Make sure all the landing doors are closed and locked off.
11. Reset the control board in order to put the lift into operation.

SAFE-PIT = PIT SAFETY DEVICE

8.03. Maintenance - on the platform

WORKING ON THE BACK SIDE OF THE CONTROL BOARD

The lifting platform has been designed to ensure an easy access to the drive unit and to the gibs of the load platform.

Follow the below instructions:

- with the platform stationary at one of the stops, open the Mains Supply Switch, press the STOP button in platform and make sure that the lift cannot be commanded from the control board;
- remove the service panel unscrewing the safety screws;
- put the service panel aside;

WARNING



ELECTRICITY HAZARD

Make sure the wires are not pulled during the panel removal.

- perform the required operations on the motor unit or gibs;
- once the operations on the motor unit or shoes are over, re-position the service panel and fix it with the safety screws;

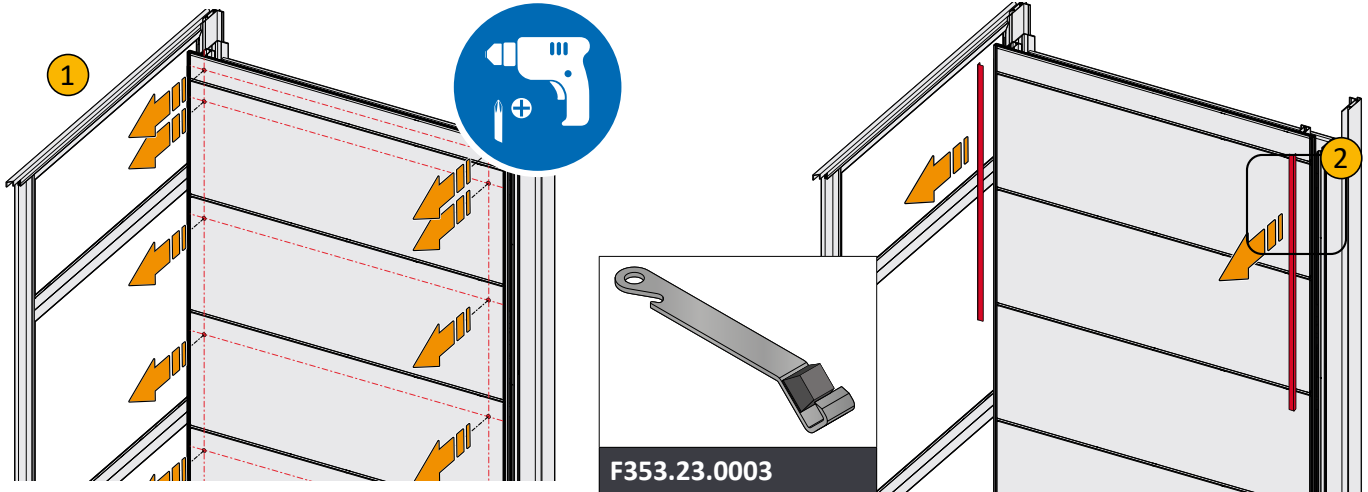
unblock the STOP button in the platform, close the Mains Supply Switch and check that the system correctly responds to the commands and functions.

8.04. Internal mechanical infill panels - removal

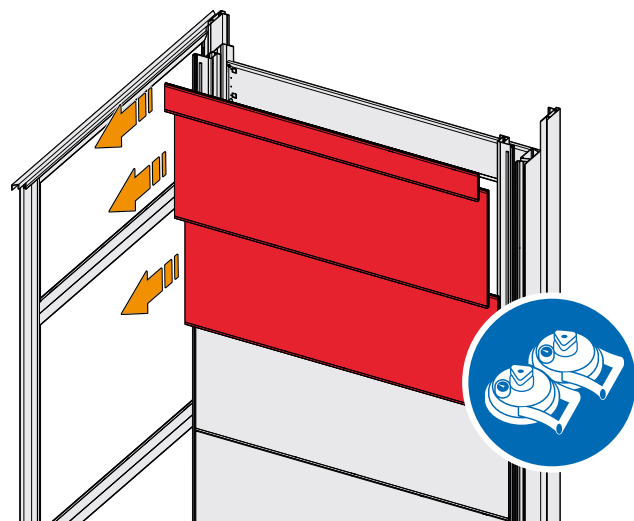
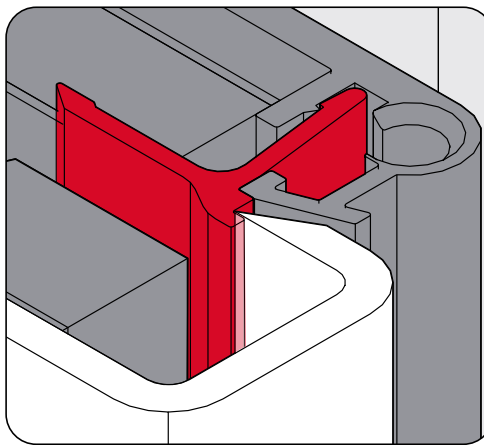
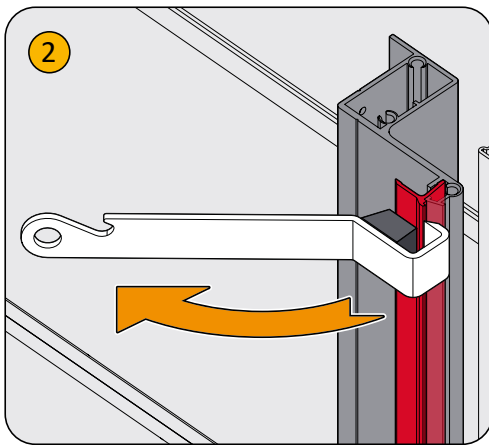
IMPORTANT!



Check whether the additional safety fastening has been carried out and remove screws if present ^①.

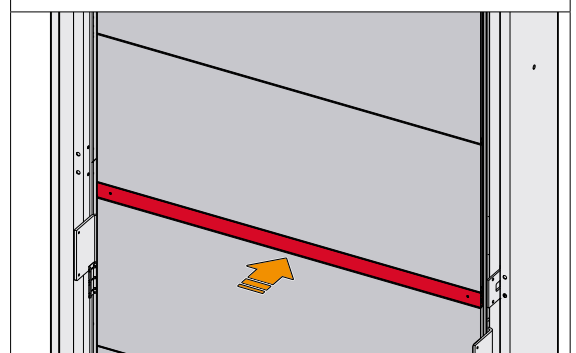


- Remove the snap-in profiles using the lever provided in the kit ^②
- Remove the infill panels starting from the top ^③




CAUTION





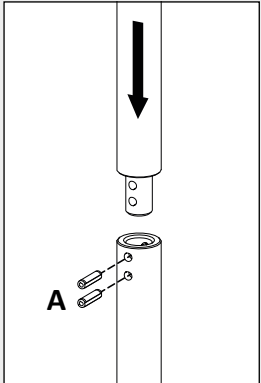
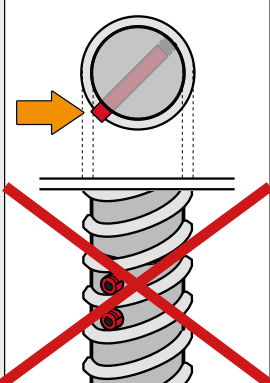
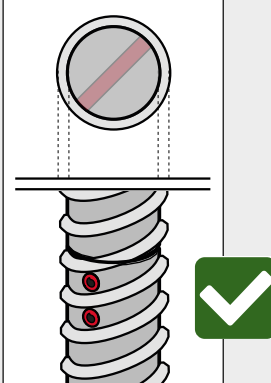
REMOVAL OF THE SECTION-BREAKER PROFILE MAY CAUSE THE INFILL TO FALL.



8.05. Maintenance operations: frequency and description

OPERATION	RECOMMENDED FREQUENCY	
	1st run	every 6 months
1. SYSTEM MOVEMENT Check the correct system movement and stops using the related commands. A. from the platform: try to send the lift to each of the stops (both during ascent and descent), checking the correct automatic stop, with the maximum difference in height of 10 mm above or under the landing level; B. from all the landings: try to call the platform, checking the correct automatic stop and the “busy” and “present” lights functioning; C. make sure that the lift cannot be commanded from the COP without the enabling key.	✓	✓
2. EMERGENCY POWER SUPPLY  Check the efficiency of the emergency power supply unit, as far as alarm, platform emergency lighting and forced descent to the lowest floor are concerned. A. bring the platform near an upper stop; B. switch the power off by opening the power supply switch upstream of the electrical panel (main of the building); C. platform emergency light will be enabled; D. push the alarm button: the siren will be activated; E. press and hold any call button: the platform descends and stops at the level of the first stop useful for landing, it is possible to open the door (it opens automatically in case of automatic doors). For battery replacement (batteries inside the control board) follow the below instructions. F. open the Driving Force switch; G. disconnect the battery connectors, trying to avoid shorts; H. replace batteries and re-connect the connectors; I. close the Driving Force Switch, disable the control board lighting and repeat test operations from A. to E.; J. dispose of the exhausted batteries bringing them to the authorized points (as special and dangerous waste).	✓	✓

OPERATION	RECOMMENDED FREQUENCY	
	1st run	every 6 months
3. SENSITIVE SAFETY EDGES Check the efficiency of all the sensitive safety edges: <ul style="list-style-type: none"> A. remain in car and command the ascent; B. when the platform is out of the door zone, activate the sensitive edges, first on the platform and then on the COP side; the platform will stop and remain stationary until the obstacle has been removed and the motion is again commanded; C. repeat inside the door zone. 	✓	✓
4. LOCKS Check the locks of all the landing doors. <ul style="list-style-type: none"> A. Check the correct opening-closing movement, with and without the emergency key; B. Check if the removable bridge on the fixed contact, as well as the lock chain in the doorleaf hole have been assembled properly; C. Check the independence between the chain contact and the preliminary half-closing contact. 	✓	✓
5. EMERGENCY DESCENT Make sure that the manual emergency descent device works. <ul style="list-style-type: none"> A. open the Driving Force main switch located on the Power Supply board; B. with the platform stationary at the upper floor, press the SB-MEM button; C. aprire la porta con la chiave di emergenza e verificare l'avvenuto abbassamento della platform; richiudere la porta 	✓	✓
6. GUIDE RAIL SHOES A. Visually check the integrity of the rubbing seal: the nominal thickness is 5 mm, allowed wear is 1 mm. In case of higher wear, replace the gibs. B. The play of the shoes must be 1-2 mm. Major gaps can be made up for, by means of shoe bearers adjustment; ortogonal gaps require shoe replacement.	✓	✓
7. GUIDE RAILS A. Clean the guide rails from excess lubricant and dirt with a clean soft rag; B. Check that the sliding surfaces are integer and undamaged. Any minor imperfections can be corrected with sandpaper (grit 320 or higher); C. Fully lubricate the guide rails EXCLUSIVELY with silicone spray lubricant.	✓	✓

OPERATION		RECOMMENDED FREQUENCY	
		1st run	every 6 months
8. DRIVE SCREW Check for correct screw lubrication. If necessary, lubricate and top up the bowl using suitable oil (5W-40).		✓	✓
CAUTION			
	RISK OF DAMAGE TO THE PLATFORM LIFT: Before moving the platform via the controller, it is necessary: <ul style="list-style-type: none"> • CLEAN THE SCREW THOROUGHLY AND OIL IT COMPLETELY WITH 5W-40 OIL. • CLEAN THE GUIDES THOROUGHLY AND LUBRICATE THEM COMPLETELY WITH SILICONE SPRAY. 		 
In case of jointed screws, the joint spring pins (A) MUST NEVER PROTRUDE FROM THE SCREW CORE DIAMETER.			
WARNING			
	  		
9. TOP AND BOTTOM LIMIT SWITCH Check the overrun contact. <ul style="list-style-type: none"> A. send the empty platform to the upper floor; B. from the electric board, access the limit switch test menu (see electric equipment manual) and command lifting until the limit switch trips; C. return the platform to the floor using the emergency descent (SBMEM button) and restore standard operation; D. repeat the trip of the limit switch with the platform on the lowest access. 		✓	✓
10. GROUNDING Verify the efficiency of the grounding and the electrical circuit insulation, as described in the machine electrical equipment manual.		✓	✓
11. LIGHTING Check the correct functioning of the lighting systems: in the platform, in the shaft and in the control cabinet.		✓	✓

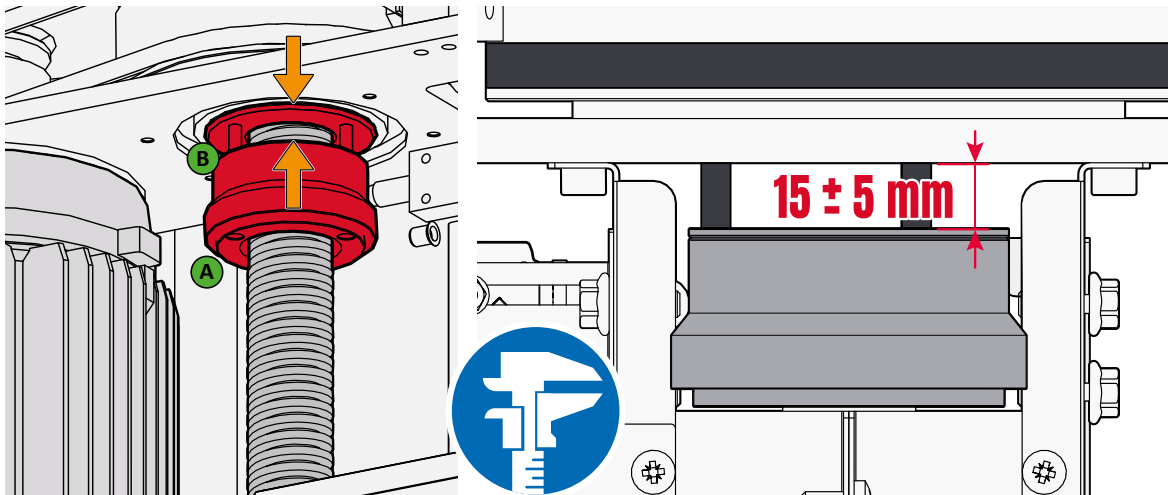
OPERATION	RECOMMENDED FREQUENCY	
	1st run	every 6 months
12. OVERLOAD Make sure the operation mode with overloaded platform is disabled. A. load the platform; B. bring the platform to the first stop; C. open the landing door and enter the platform; D. close the door; E. make sure that the lift does not react to the inner not outer commands.	✓	✓
13. ELECTRICAL WIRING Check the integrity of the lines, either fixed and mobile.	✓	✓
14. SHAFT CONTACTS Check the integrity of the contacts of doorlock block exclusion.	✓	✓
15. PLATES - SCHEMES Verify the presence of the followings schemes and plates: A. pit plate (danger in case of access, safety devices required); B. control board plate (electrical hazard, access forbidden); C. control board plate (beside the board, emergency procedure); D. red emergency button identification plate; E. landing door plate (use reserved to less able people, for public places only); F. platform plate (load, capacity, constructor's name, emergency descent procedure in case of power blackout); G. electrical schemes on the electrical panel.	✓	✓
16. SPEED - PICKUP - SLOWING DOWN Make sure the actual parameters match the set values.	✓	✓
17. CONTACTORS Check the contactors and their efficiency.	✓	✓
18. SCREW NUT - INSPECTION Check the wear of the nutscrew using the wear register: if the vertical distance between the upper edge of the register and the upper face of the nutscrew > 2 mm, stop the machine immediately and proceed with the replacement of the nutscrew (§ 8.08 Netscrews - wear check).	✓	✓

8.06. Safety nut - verification of correct spacing

NOTICE



Ensure that the nominal distance between the nutscrew **A** and the pulling device **B** is 15 mm (with a tolerance of ± 5 mm).



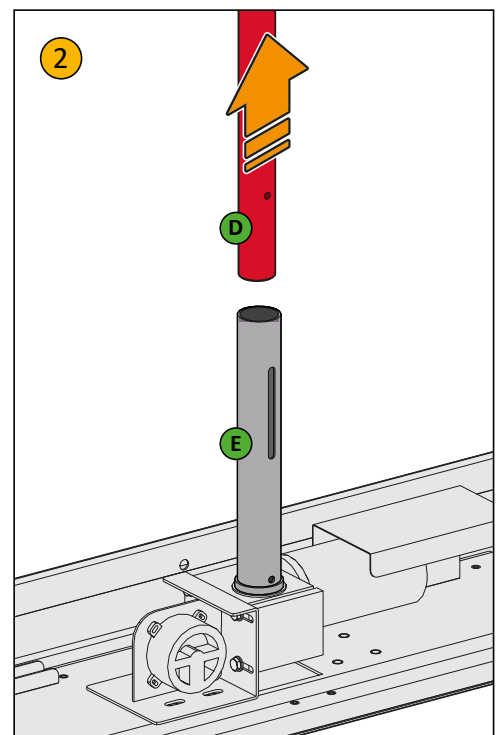
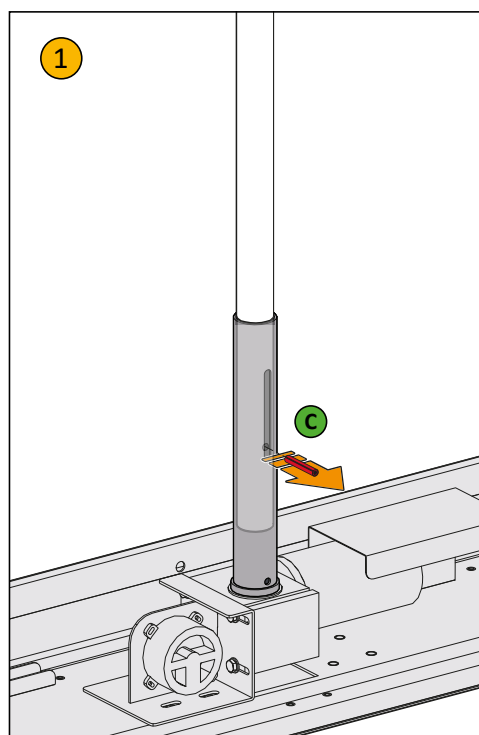
8.07. Safety nut - adjustments

In the event that it is necessary to correct the nominal distance between the safety nut and the nut, follow the procedure described below:

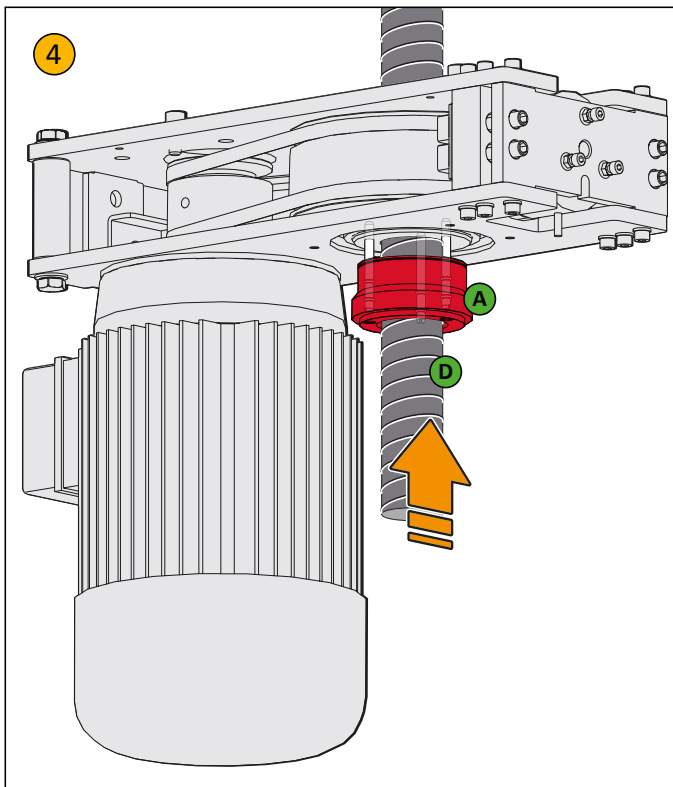
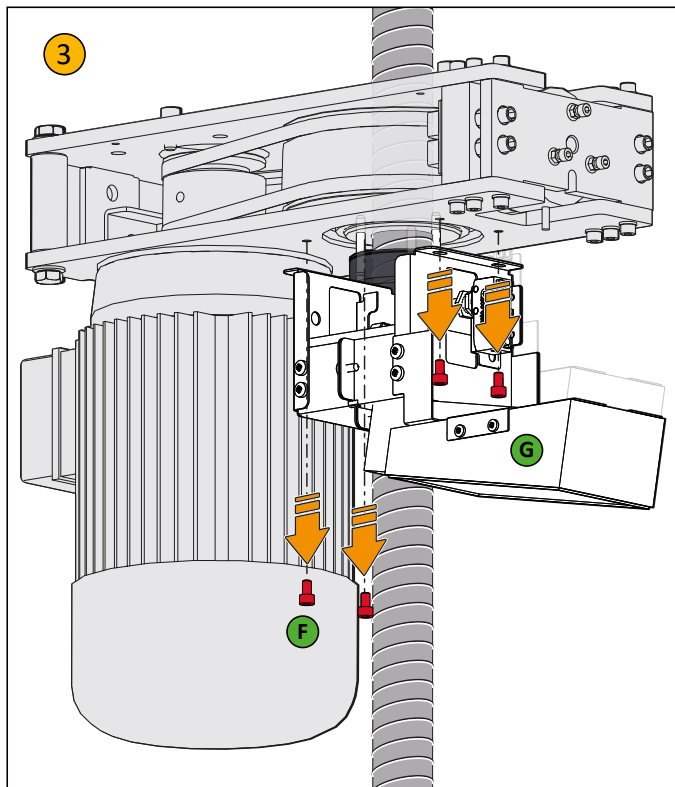
- ① Remove the fixing pin of the manoeuvring screw from the gearmotor housing **C**.
- ② Raise the manoeuvring screw **D** from the gearmotor housing **E**.



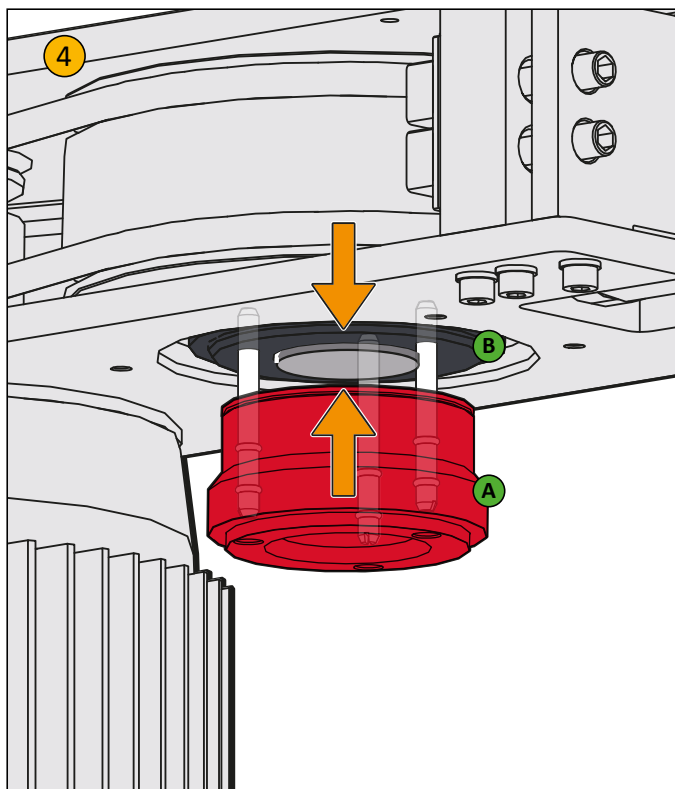
Use a suitable lifting device to lift the manoeuvring screw.



- 3 Unscrew the fixing screws **F** and remove the oiler assembly **G**.
- 4 Raise the manoeuvring screw **D** until it comes out of the safety nut **A**.



- 4 Adjust nominal distance between safety nut **A** and nut **B** (15 mm with tolerance +/- 5 mm).
- 5 Restore the system by performing the operations in reverse order.



IMPORTANT!



While re-inserting the manoeuvring screw, **MAKE SURE THE SAFETY SCREW MAINTAINS THE CORRECT DISTANCE..**

8.08. Netscrews - wear check

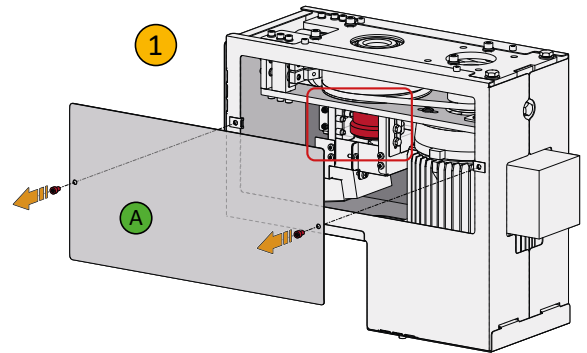
CAUTION



IMPORTANT SAFETY REGULATIONS

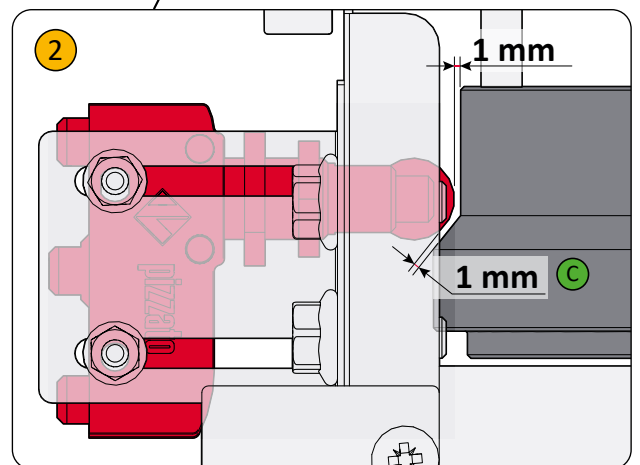
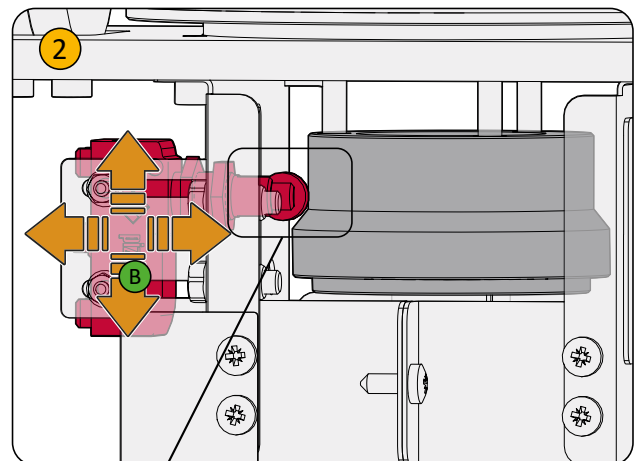
The indications given in this paragraph represent important safety regulations, which must be scrupulously observed.

- ① Access the wear contact of the nutscrew by removing the motor housing cover **A**.



WEAR CONTACT OF THE NUTSCREW - SETTING

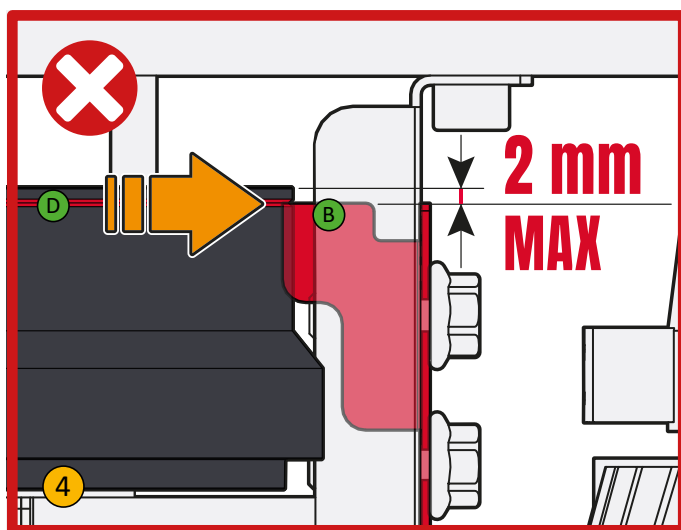
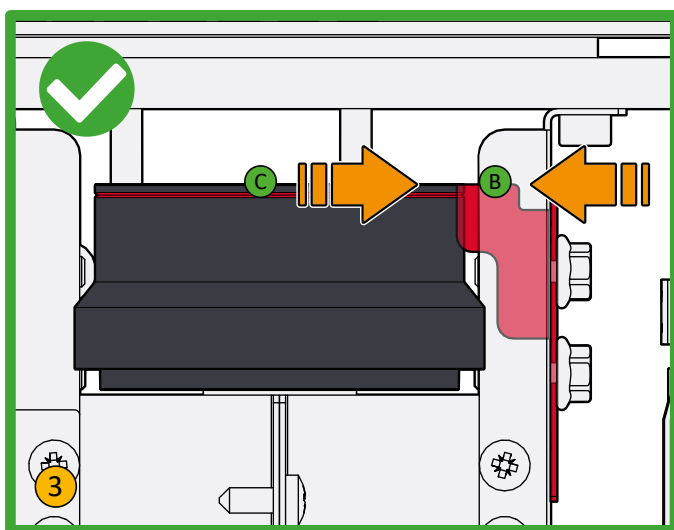
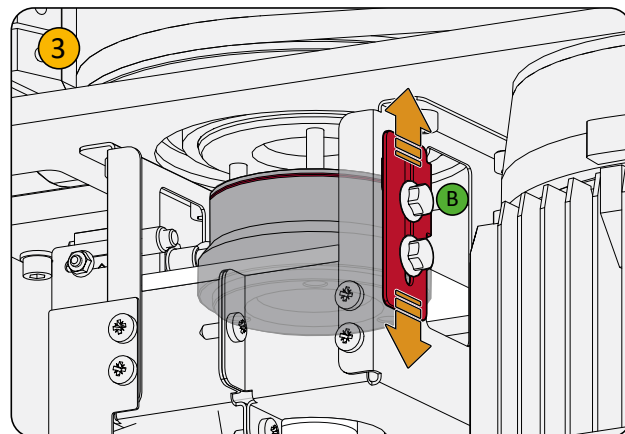
- ② Adjust the vertical and horizontal position of the contact **B** so that its head is ~1mm from both the vertical and the inclined surface of the safety nutscrew **C**.



WEAR REGISTER OF THE NUTSCREW - SETTING

- ③ Adjust the vertical position of the safety nutscrew wear register **B** so that its upper edge is aligned ± 0.1 mm with the upper face of the safety nutscrew **C**.

NOTE: The limit for vertical displacement, i.e. wear of the traction nutscrew is MAX 2 mm (see below)

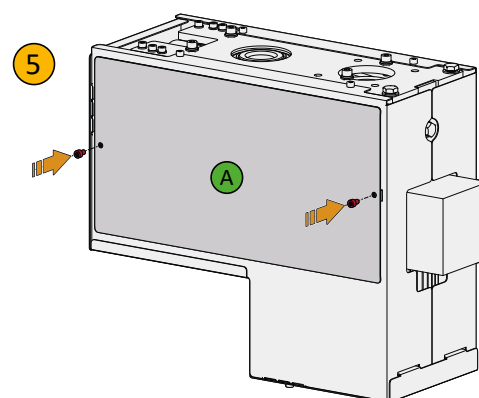


CAUTION



WEAR OF THE NUTSCREW

- ④ If the upper edge of the wear register **B** sags down to the reference mark on the nutscrew **D**, i.e. by 2 mm, replace it immediately!



- ⑤ After adjustments, close the motor housing cover **A** again.



If the contact cannot be adjusted to the correct position, adjust the vertical position of the safety nutscrew by moving it 1 or more threads on the tension screw downwards or upwards (this should be done by removing the screw from the safety nutscrew).

IMPORTANT!



THE CONTACT POSITION MUST NEVER BE CHANGED

Once the contact position has been adjusted, it must never be changed for any reason (except for replacement of the contact or nutscrew).

In the event of contact and/or nutscrew replacement, repeat the adjustment operations described above.

8.09. Brake - function and wear check

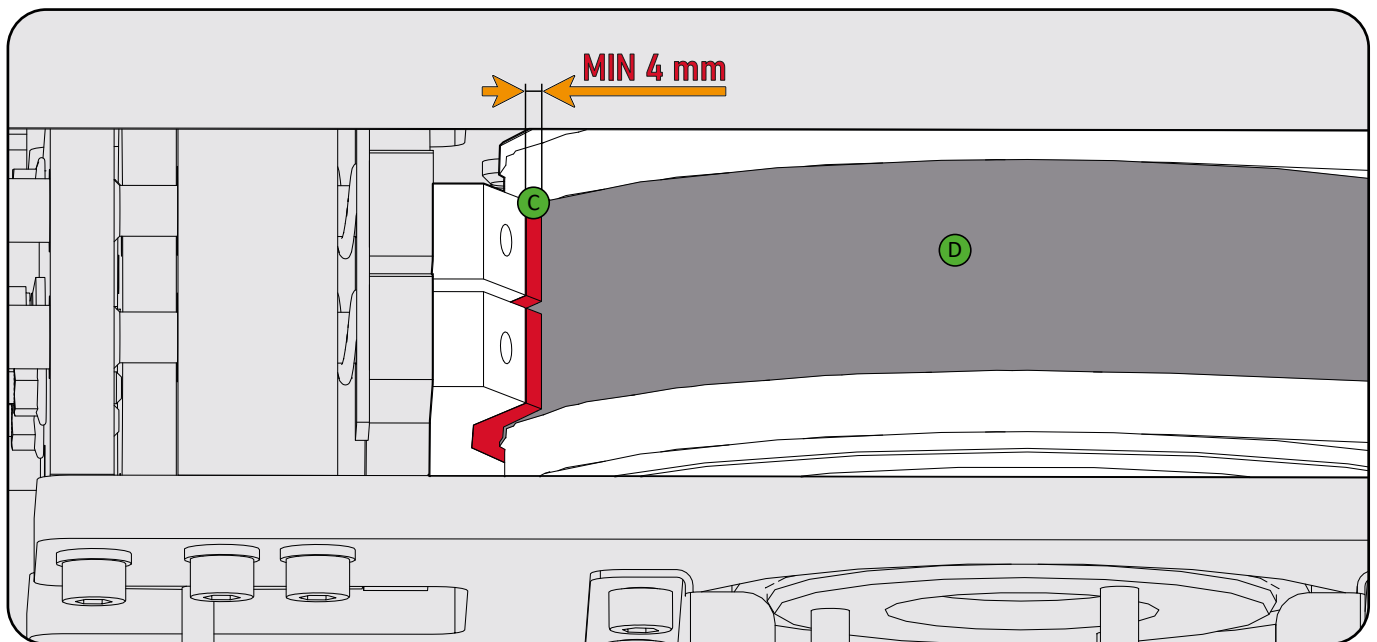
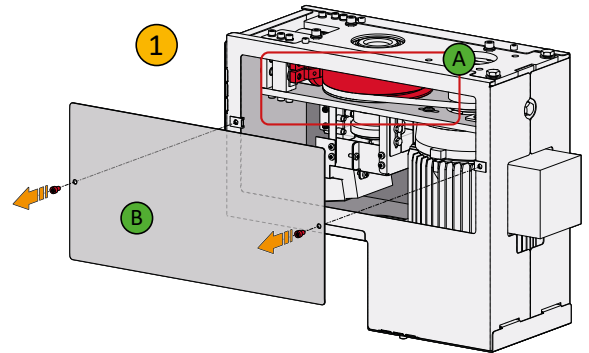
CAUTION



IMPORTANT SAFETY CHECKS

The information in this section represents important safety checks, which must be strictly observed..

- ① Move the footboard to the lowest level..
- ② Access the brake **A** by removing the motor housing cover **B**.
- ③ Check that the brake elements (brake shoes) **C** are intact and free of wear (brake shoe thickness min. 4 mm)
- ④ Check that the brake opens and closes correctly using the footpeg controls.



- ⑤ Check the brake components and brake track **D** for signs of wear, oxidation, dirt..
If not, restore and/or replace the components..

9. Landing doors - maintenance

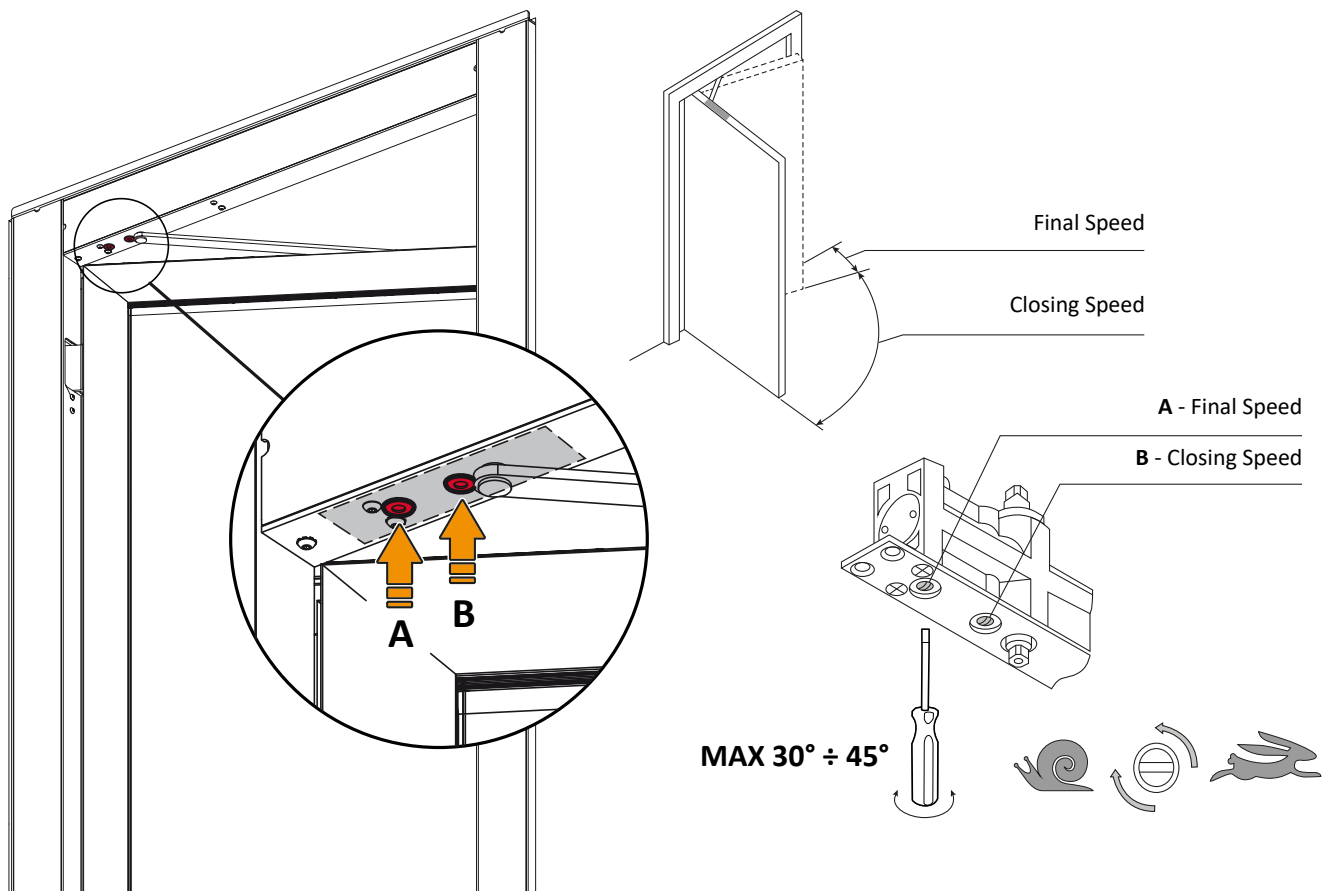
9.01. Manual door closer

NOTICE





ADJUSTING THE CLOSING SPEED AND THE FORCE OF THE FINAL STROKE. Usually performed using special screws, **ARE IMPORTANT**, both to adapt perfectly the action of the door-closer to the weight of the door on which it is applied, and to ensure effective operation in all seasons. The viscosity of the internal oil actually changes in relation to the external temperature. **THE ACTION OF THE DOOR-CLOSER IS THEREFORE SUBJECT TO NATURAL SEASONAL VARIATIONS THAT MAY REQUIRE MINOR PERIODIC ADJUSTMENTS**, in order to maintain the effectiveness of the mechanism. The door-closer has 2 different adjustments: the closing speed and the force of the end stroke that is used to overcome the lock latch resistance at the time of closing.

- Adjust the force of the end stroke and then the **Final Speed** according to the weight of the door by rotating screw A no greater than $30^{\circ} \div 45^{\circ}$.
- Adjust and periodically check the **Closing Speed** by rotating screw B no greater than $30^{\circ} \div 45^{\circ}$.




10. Landing doors - use of emergency key

WARNING	
	Opening doors by means of the triangular emergency key may be dangerous. Be extremely careful.
	A difference of height exceeding 30 cm between the car floor and the landing level, may imply a serious risk of falling inside the shaft. Therefore, NEVER use the intermediate landing door during rescue operations.

To unblock and open the landing door, first open the driving force main switch, then insert the safety key in the special hole in the jamb, then turn the key. Open the door carefully, making sure of the car position in respect to the landing.

Upon the operation completed, make sure that all the landing doors are locked and blocked.


11. Repair

WARNING	
	Usually a damaged frame (especially if the damage was caused by a bending, excessive heat etc.) cannot be replaced. The damaged parts must be replaced. Only spare parts by LIFTINGITALIA S.r.l. can be used for replacement.
	The repair operations must be carried out by qualified personnel, with the maximum care, to guarantee post repair efficiency.

The following operations can be carried out directly in place by qualified personnel:

- Sanding down the rust (caused by painting faults) and anti-rust layer application;
- Gibs replacement;
- Replacement of screws and motor unit, in platform and pit;
- Replacement of electrical parts.

12. Spare parts

	USE GENUINE PARTS ONLY. Contact LIFTINGITALIA S.r.l. to obtain the correct codes.
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