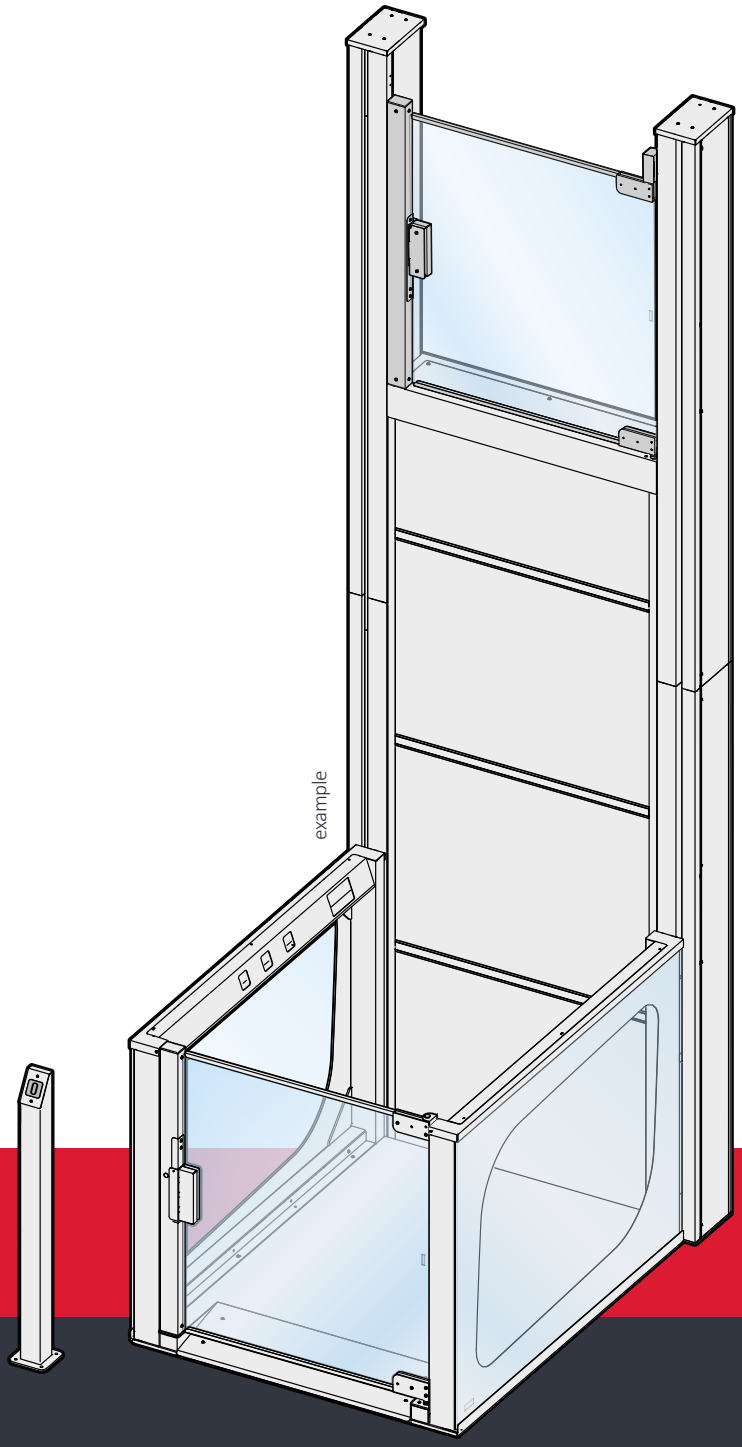
EN

EasyPlat®

Electric belt driven low rise platform lift

MAINTENANCE INSTRUCTIONS



LIFTINGITALIA®
AREALIFT®

HOMELIFTS & PLATFORM LIFTS MADE IN ITALY

20230301

2.0	First edition	10.03.2023
Rev.	*Description*	*Date*

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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.

Specifications may be subject to change without notice due to product improvement development. The drawings in this manual are to be considered as indicative and are NOT an exact reference to the product.

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.

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

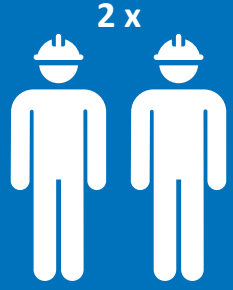
SAFETY AND SITE MANAGEMENT - OVERALL DISPOSITIONS:

1. Always secure tools and any objects against falling;
2. Pay the utmost attention to all the steps described in this;
3. 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.

WARNING

RISK OF ELECTROCUTION:
The lighting and power supply systems must meet the requirements of the system and the regulations in force. Check that it has an effective earth. **If they do not meet all the requirements, interrupt the installation until the system has been brought up to standard** by the customer..

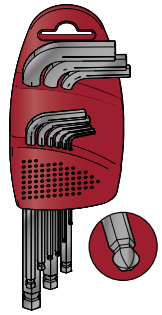


Il montaggio deve essere eseguito da MINIMO 2 persone;

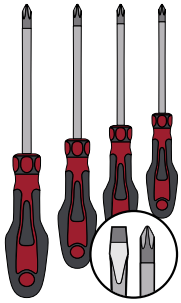
Se il carico è maggiore di 50kg, utilizzare il paranco per la movimentazione.

5. Tools required for installation

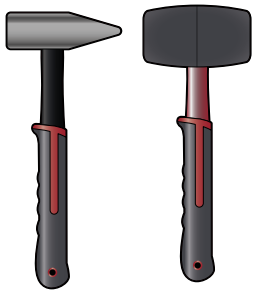
BALL POINT LONG HEX KEY WRENCH



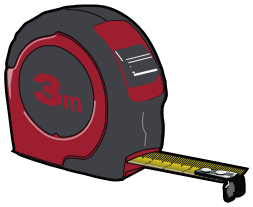
ELECTRICIAN SCREWDRIVER SET



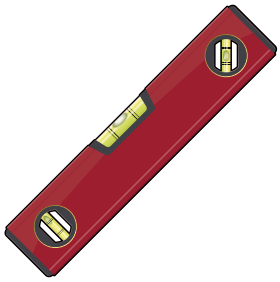
HAMMER + RUBBER HAMMER



TAPE MEASURE

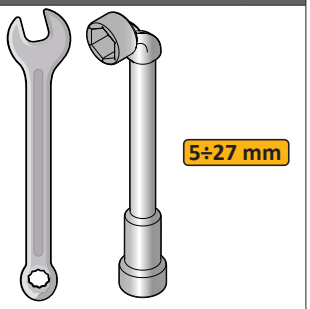


SPIRIT LEVEL

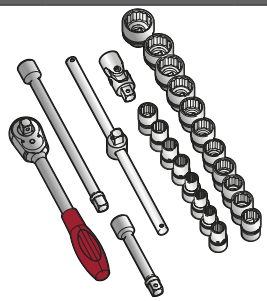


SCISSORS FOR ELETTRICIANS

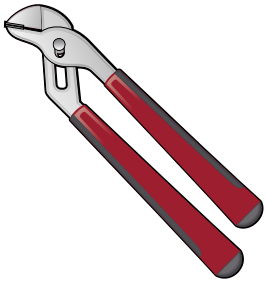
SPANNER + SOCKET WRENCH



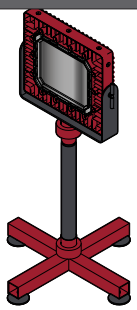
RACKETING RING SPANNER SET



PLIERS WRENCH

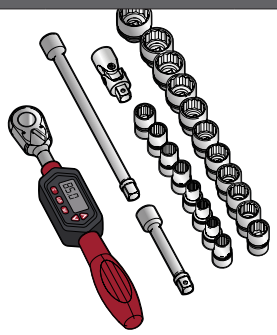


PORTABLE LAMP



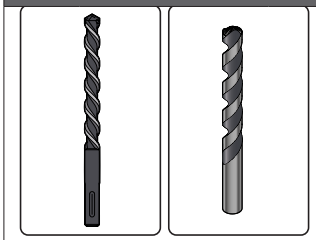
SAFETY LADDER 5 STEPS

TORQUE WRENCH SET WITH EXAGONAL INSERT



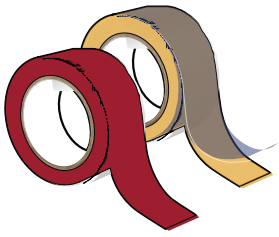
DRILL + ELECTRIC SCREWDRIVER

DRILL BITS



DIGITAL MULTIMETER

INSULATING TAPE + DOUBLE-SIDED ADHESIVE



6. Preliminary controls

6.01. Verifica impianto elettrico a monte della piattaforma

WARNING

ELECTRIC SHOCK HAZARD:
The lighting and power supply systems must meet the requirements of the system and the regulations in force. Check that it has an effective earth. If they do not meet all the requirements, interrupt the installation until the system has been brought up to standard by the customer.

6.02. Preliminary safety cheks

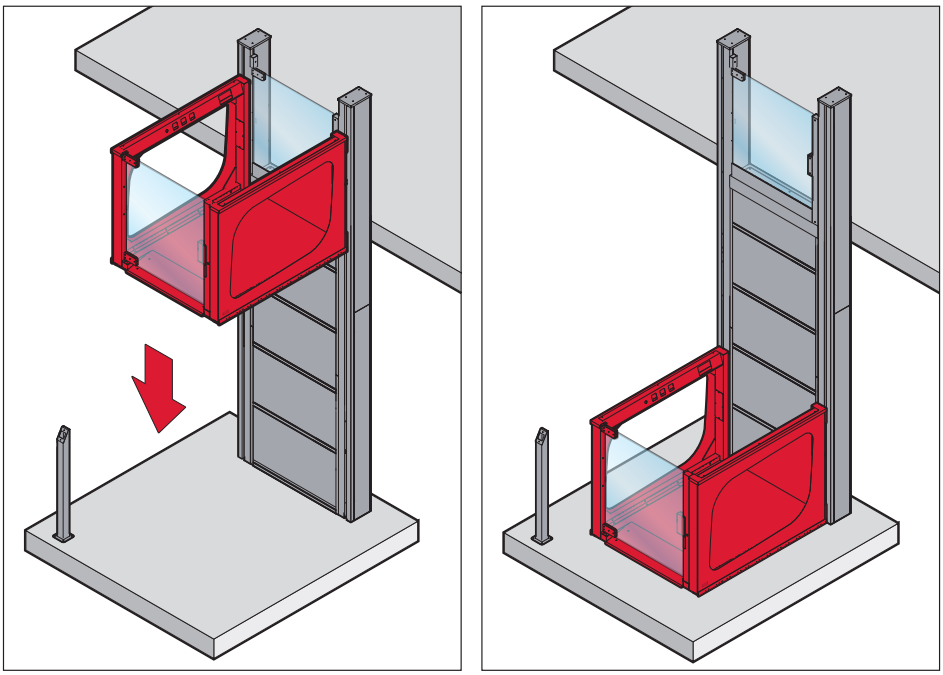
WARNING

BEFORE STARTING THE INSTALLATION/MAINTENANCE, YOU NEED TO:

- Check that the main electrical system is up to standard and provided with adequate grounding; Otherwise, stop the installation until the Customer has updated the system.
- 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.

CAUTION

BEFORE CARRYING OUT ANY INTERVENTION, TAKE THE PLATFORM TO THE LOWER FLOOR.



6.03. 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 realibility of the products and the complete user's safety.
The actual maintenance requirements comprise a periodical check by an authorised 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..

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.

7. Platform general informations

- The stops are indicated as 0, 1, "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:
  a. Project drawings referred to the lift;
  b. Electrical schemes an instructions;

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

8. Out of service mode

IMPORTANT!

BEFORE CARRYING OUT ANY WORK ON THE SYSTEM, CHECK THE FOLLOWING:

1. Make sure the platform is empty.
2. Bring the platform to the lowest floor.
3. Wait for the busy signal to be off.
4. Open all the circuits of the power supply board.
5. Check if all the doors are closed correctly.
6. Arrange the “out of service” boards to be placed at both level or landings.

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

9. Maintenance operations

CAUTION	WEAR APPROPRIATE PPE
The following operations must only be carried out by qualified personnel, in possession of a certificate for the maintenance of lifts, issued according to the current regulations.	

The frequency and the description of the operations are stated in the table, paragraph 5.4. 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 (listed in the Installation Manual); 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.

9.01. Maintenance areas:

- **AT THE CONTROL PANEL IN THE SILL OF FLOOR 1.**
- **ABOVE THE PLATFORM (FLOOR 0).**

Maintenance operations are described in § 9.0.5.

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

9.02. At the control panel

WARNING

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

- Disable power by means of opening the main switch.
- Turn off any uninterruptible power supplyes (UPS).
- Close the main switch only if required, paying attention to the safety rules to be followed in the presence of components under power.

9.03. Safety-gear - maintenance operations

SAFETY GEAR DEVICE
interventions on the SAFETY GEAR DEVICE, consult the manual:
IM.TEC.114 - EasyPlat - Installation and commissioning instructions, Chap. § 24.01.

9.04. Drive belt - maintenance operations

DRIVE BELT - REPLACEMENT
For interventions on theDRIVE BELTS, consult the manual:
IM.TEC.114 - EasyPlat - Installation and commissioning instructions, § 24.02.

9.05. Maintenance operations - frequency and description

CAUTION

THE MACHINE CAN BE STARTED ONLY IF ALL THE FOLLOWING CHECKS HAVE A POSITIVE RESULT.
If any of the following checks fail, immediately contact LIFTINGITALIA s.r.l. for maintenance and component replacement operations.

TEST AND VERIFICATION PROCEDURES	RECOMMENDED FREQUENCY			
	1st run	every 6 months	every 1/2 year(s)	every 5/10 years
1. PLATFORM MOVEMENT - TEST OF CORRECT FUNCTIONING **Check the correct car 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 20 mm above or under the landing level. B. From all the landings: try to call the lift, checking the correct automatic stop and the "busy" and "present" lights functioning. C. Check that, without switching the enabling key, the platform does not receive to input of the push-button panel.	✔	✔		
2. EMERGENCY POWER SUPPLY - TEST OF CORRECT FUNCTIONING **Check the efficiency of the emergency power supply unit, as far as alarm, car emergency lighting and forced descent to the lowest floor are concerned.** A. Bring the car to the upper floor. B. Switch the power off by opening the power supply switch upstream of the electrical panel (main of the building). C. Car emergency light will be enabled. D. Push the alarm button: the siren will be activated. E. Press and hold any call button: the car will descend and stop at the lowest stop level. F. The door can be opened (automatic doors automatically open). **REPLACEMENT OF THE UPS placed inside the control panel.** G. Open the Driving Force switch. H. Disconnect the uninterruptible power supply (UPS) connectors, trying to avoid shorts. I. Replace uninterruptible power supply (UPS) and re-connect the connectors. J. Close the Driving Force Switch, disable the control board lighting and repeat test operations from A. to E. K. Dispose of the exhausted uninterruptible power supply (UPS) bringing them to the authorised points (as special and dangerous waste).	✔	✔		
3. SENSITIVE SAFETY UNDERPAN - TESTING **Check the efficiency of all the sensitive safety edges:** A. remain in car and command the ascent; B. Command descent using the remote control, activate the safety underpan; the platform will stop and remain stationary until the obstacle has been removed; C. Repeat operation B along all the external sides of the platform, at least at the ends and in the center, Aa well as in the central part of the sensitive base. Maintain an external position to the vertical projection of the platform.	✔	✔		

TEST AND VERIFICATION PROCEDURES	RECOMMENDED FREQUENCY			
	1st run	every 6 months	every 1/2 year(s)	every 5/10 years
4. LOCKS - TEST OF CORRECT FUNCTIONING OF THE DEVICE **Test of landing and platform locks.** 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. UPPER OVERRUN - TEST OF CORRECT FUNCTIONING OF THE DEVICE **Check the safety contact.** A. Send the empty car to the upper floor. B. Command the platform upwards (^) from the electrical controller, until the overtravel contact is activated (the contact is activated when the lift does not accept any external call).	✔		✔ 1	
6. GROUNDING (EARTHING) - CONTROL TEST Verify the efficiency of the grounding and the electrical circuit insulation, as described in the electrical scheme.	✔		✔ 1	
7. LIGHTING - TEST OF CORRECT FUNCTIONING Check the correct functioning of the lighting systems in the platform.	✔		✔ 1	
8. OVERLOAD - TESTING **Make sure the operation mode with overloaded car is disabled.** A. load the car; B. bring the car to the first stop; C. open the landing door and enter the car; D. close the door; E. make sure that the lift does not react to the inner not outer commands.	✔		✔ 2	
9. ELECTRICAL WIRING - EXAMINATION **Check the integrity and correctly positioning of the lines, either fixed and mobile.**	✔		✔ 2	
10. DIAGRAMS AND SAFETY SIGNS - VERIFICATION **Check the presence of the signs indicated below:** (see "Chap. 19. Safety signs to be applied on the platform" of the IM.TEC.114 - EasyPlat - **Installation and start-up instructions manual).** A. Under the platform - danger of crushing. B. On the electrical panel - electrical danger and forbidden to touch. C. Next to the electrical panel - with the instructions to carry out the emergency maneuver. D. Next to the red emergency lowering button - for easy identification. E. On landing doors - international symbol of accessibility (only for public facilities). F. On the platform - with indications of: capacity, capacity, manufacturer's name and mode of emergency descent in case of power failure. G. On the electrical panel (or in its compartment) - wiring diagram.	✔		✔ 2	
11. SPEED - PICKUP/SLOWING DOWN - TEST AND VERIFICATION **Make sure the actual parameters match the set values.**	✔		✔ 2	

TEST AND VERIFICATION PROCEDURES	RECOMMENDED FREQUENCY			
	1st run	every 6 months	every 1/2 year(s)	every 5/10 years
12. BELT SLACKING SENSORS - CONTROL TEST **Check the presence of the following plates and diagrams:** A. Manually operate both the belt slacking contacts on the upper belt return unit, with the platform stopped at the lowest floor. B. Check that the conttroller receives the belt slacking signal correctly.	✔		✔	
13. SAFETY GEAR - CONTROL TEST **Check the presence of the following plates and diagrams:** A. Disassemble both safety gear as indicated in the assembly instructions: **IM.TEC.114 - EasyPlat - Installation and commissioning instructions** (Ch. 18). B. Check that the rocker arm rotates without friction and that the return spring works correctly. C. Eck that the safety gear contact works correctly. D. Refit both safety gear as indicated in the assembly instructions: **IM.TEC.114 - EasyPlat - Installation and commissioning instructions** (Ch. 18).	✔		✔	
14. BELT AND WINDING PULLEYS - INSPECTION AND VERIFICATION Check that the connection points between the belt and the belt top and between the belt and the traction pulley are not loose and have not slipped. Repeat the operation on both belts.	✔	✔		
15. DRIVE BELTS - THOROUGH EXAMINATION Carry out a thorough check of both drive belts: ensure that they are undamaged and show no signs of wear along their entire length.	✔	✔		
16. ROLLERS - CONTROL TEST Check that the 4 sliding wheels of the platform do not show any signs of significant wear on their entire external circumference, and that the platform moves without vibrations or abnormal noises.	✔	✔		
17. RAILS - CONTROL TEST Check that the sliding surface of the rollers on the guides does not show signs of abnormal wear and that the movement is without vibrations or abnormal noises.	✔	✔		

TEST AND VERIFICATION PROCEDURES	RECOMMENDED FREQUENCY			
	1st run	every 6 months	every 1/2 year(s)	every 5/10 years
18. SAFETY GEAR - TESTING			✔	

CAUTION

The following test must be carried out **EXCLUSIVELY FROM THE LANDING LEVEL**. No one must stand near the machine during the test - observe a safety distance of at least 5 metres from the machine itself at the lowest landing level.

Il paracadute deve intervenire entro uno spazio di caduta di 25 cm max. If this does not occur, stop the test immediately and proceed with the parachute check as described in point 13.

Check the proper functioning of the safety gear by means of a dynamic fall test of the platform under full load (rated capacity), using the following procedure from the control panel:

A. Raise the platform to the level of the upper floor.
B. Use the keypad on the main board to enter the SAFETY GEAR TEST mode. *Refer to the electrical equipment manual*.
C. After the safety gear has tripped, check on the main board that the safety series is open (LEDs S3-BLT and following off)..

Following the triggering of the safety gear, check the mechanical integrity of all elements of the platform, guides, and arch (wheels, etc.).
Then proceed to reset the machine using the following procedure:

D. Access the control panel. Open the QF-2 disconnector and switch off the UPS to de-energise the machine.
E. Open the side cover of the guide and access the motor from the side.
F. Engage the hexagonal end of the motor shaft with a ratchet spanner or a Ch.13 screwdriver.
G. Turn the crankshaft anti-clockwise to raise the footboard so as to release the chute and refit the belts.
H. If this operation proves difficult, open one of the 2 motor brakes with the hand lever.
I. Restore the machine and check that it has been properly reset.
J. With the machine restored, carry out the parachute check indicated in point 13.

10. Exceptional maintenance operations

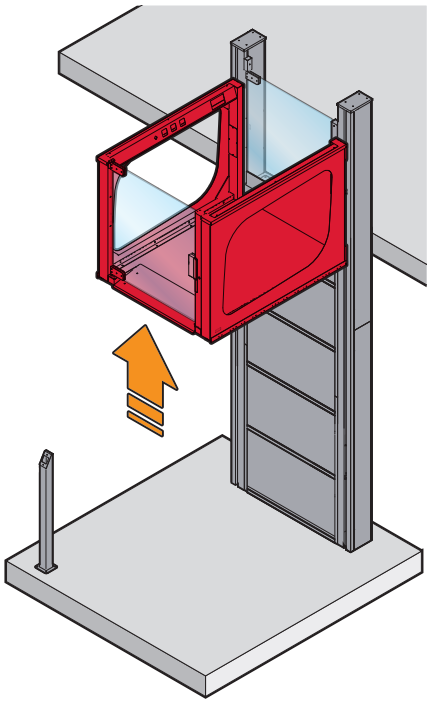
10.01. Engine replacement

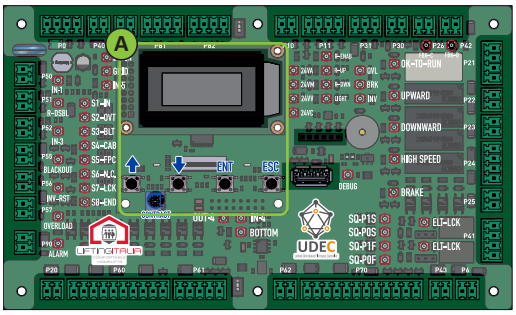
WARNING

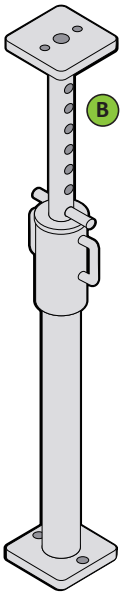
ELECTRICITY HAZARD:
Before working on electrical components, switch off the power supply to the system by opening the main switch..

1 Bringing the platform to the high floor.

2 Operate the mechanical lock as indicated in the manual A
§ 9.04 Maintenance operations - frequency and description - point 18.
Alternatively, take the weight off the straps by propping up the platform B.



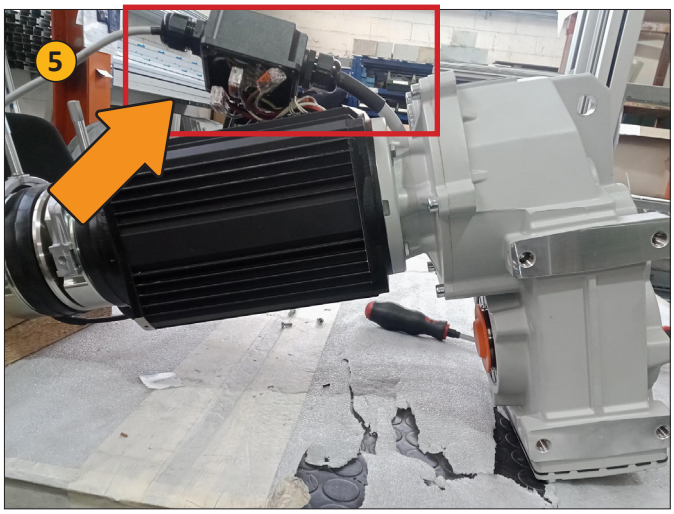


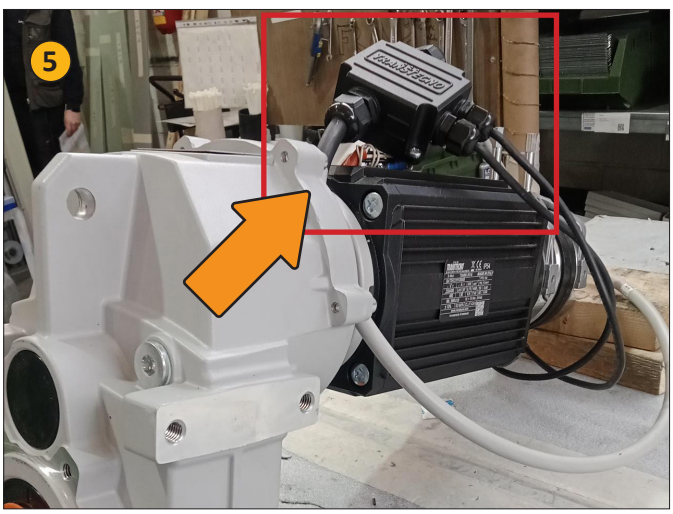


3 Remove the panelling as indicated in the manual **IM.TEC.114 - EasyPlat - Installation and commissioning instructions**
§ 13.08. Infill panels - unmounting, using a ladder if necessary.

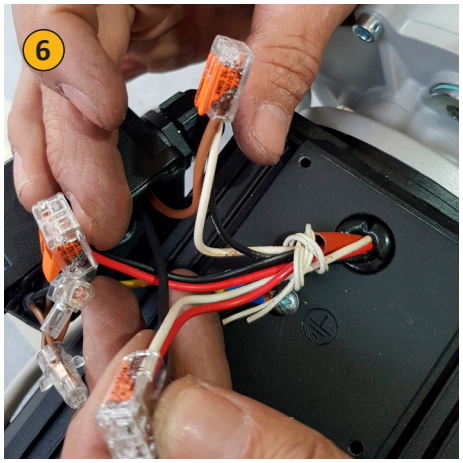
4 Disconnect power to the machine and switch off the UPS unit.

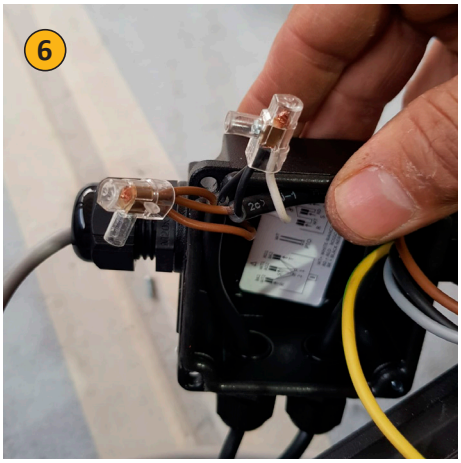
5 Unscrew and remove the wiring protection cover on the motor.



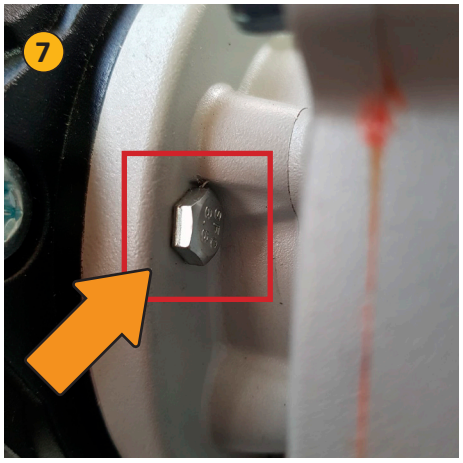


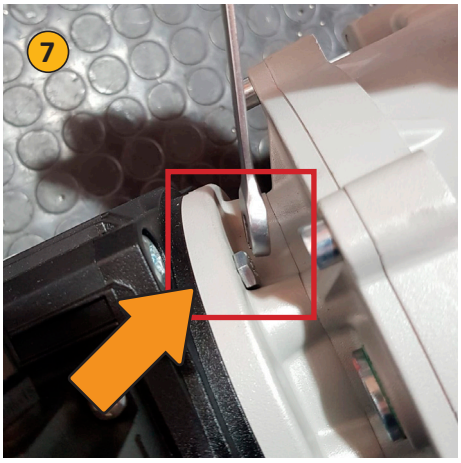
6 Disconnect the brake and motor power cables.



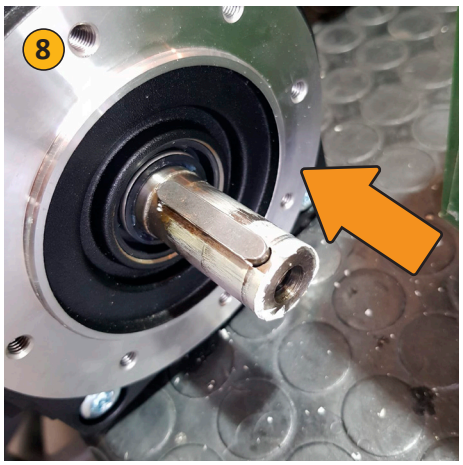


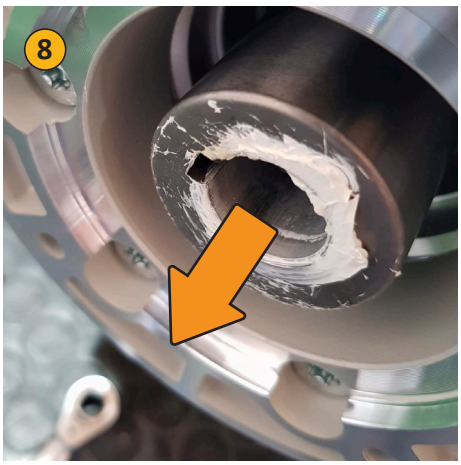
7 Unscrew the four M6 TE screws that secure the motor to the gearbox.





8 Pull the motor shaft out of the gearbox.





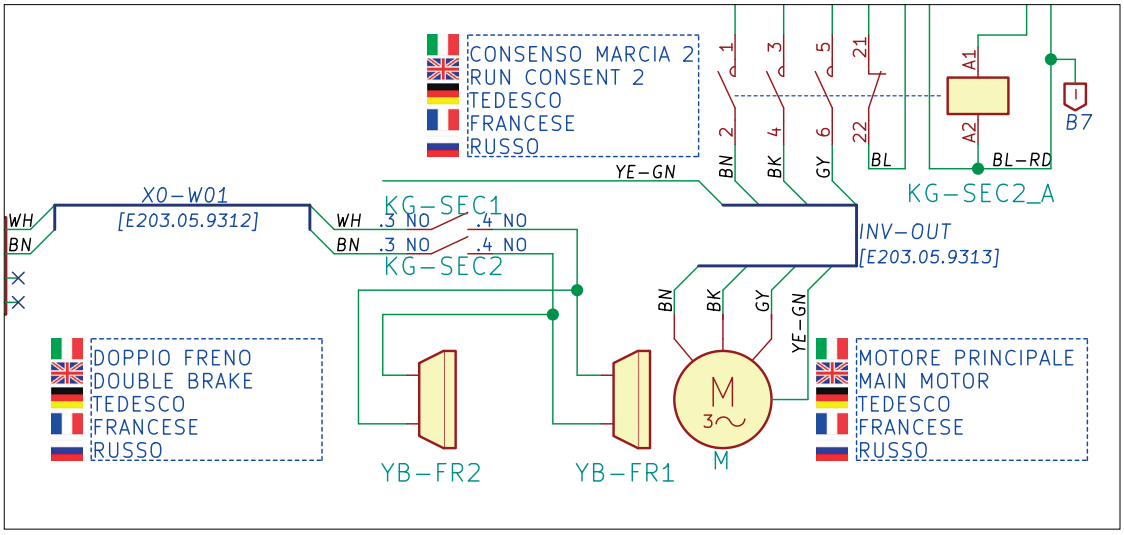
9 Insert the new motor with the key into the gearbox housing.

10 Position the new motor like the previous one and tighten the four M6 hexscrews.

11 Seguire lo schema di collegamento per ripristinare il collegamento elettrico..

12 Alimentare macchina ed UPS per visualizzare il display della scheda.

13 Seguire le indicazioni del display per eventuale ripristino di errori dovuti alla manovra di cui il punto 2.



CAUTION

THE MACHINE CAN BE RESTARTED ONLY IF ALL THE CHECKS IN § 9.04 HAVE A POSITIVE RESULT

Always use manuals and circuit diagrams for any repair or maintenance actions.

11. Gate - emergency key use

CAUTION		
	**FALL DANGER:** 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.	
	Opening doors by means of the triangular emergency key may be dangerous. **Be extremely careful.**	

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 posirion in respect to the landing.
Upon the operatin completed, make sure that all the landing doors are locked and blocked.

12. Repairs

CAUTION	
	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.

13. Spare parts

Use only original parts. Contact LIFTINGITALIA S.r.l. to obtain the correct part numbers.

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