OPERATION AND MAINTENANCE MANUAL

IMPORTANT SAFETY INSTRUCTIONS
(SAVE THESE INSTRUCTIONS)

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V-077-B-X

X=23, 26, 30, 33, 36, 48

Noiselevels 70dB(A)

⚠ CAUTION

"Before proceeding with installation, operating, servicing, or maintain the lift, the user must read the manual carefully..."

INDEX.....ENGLISH

READ ALL INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

When using your garage equipment, basic safety precautions should always be followed, including the following:

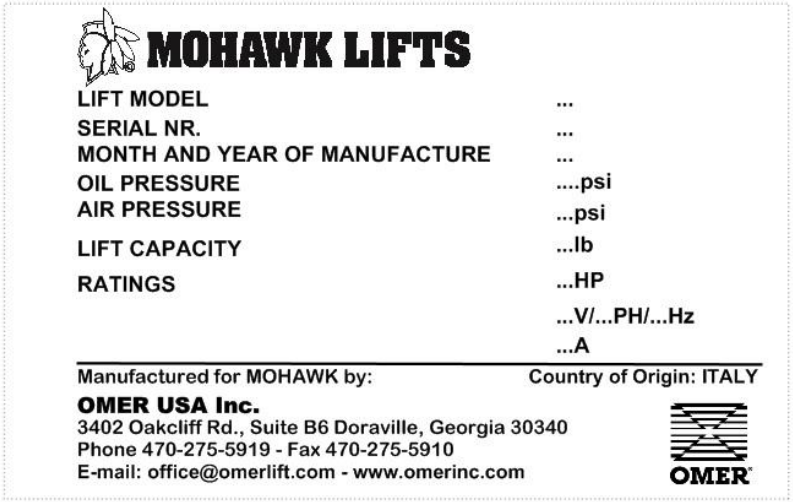
1. Read all instructions.
2. Care must be taken as burns can occur from touching hot parts.
3. Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged until it has been examined by a qualified service person.
4. Do not let a cord hang over the edge of the table, bench, or counter or come in contact with hot manifolds or moving fan blades.
5. If an extension cord is necessary, a cord with a current rating equal to ormore than that of the equipment should be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
6. Always unplug equipment from electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect.
7. Let equipment cool completely before putting away. Loop cord loosely around equipment when storing.
8. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).
9. Adequate ventilation should be provided when working on operating internal combustion engines.
10. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
11. To reduce the risk of electric shock, do not use on wet surfaces or expose to rain.
12. Use only as described in this manual. Use only manufacturer's recommended attachments.
13. **ALWAYS WEAR SAFETY GLASSES**. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.
14. To reduce the risk of injury, close supervision is necessary when this product will be used around children. (Pertains to cabinets only.)
15. To reduce the risk of injury, never overload the drawers or shelves. Refer to loading instructions.
16. To reduce the risk of electric shock or fire, never overload receptacles. Refer to markings for the proper load on receptacles.

SAVE THESE INSTRUCTIONS

1. GENERAL INFORMATION

1.1. *Marking data*

Table identification plate:



1.2. *Assistance*

Please use the following contact details for assistance requests :

Mohawk Lifts, LLC.
Phone: 1-800-833-2006 x 3000
Email: service@mohawklifts.com

1.3. *Intellectual and industrial property*

Designed & manufactured by O.ME.R. and patented worldwide.

1.4. *Description of personnel*

TERMS AND DEFINITIONS

- SPECIALISED TECHNICIAN/EMPLOYER:
  the person(s) appointed to:
  - install,
  - set up,
  - adjust
  - perform maintenance on,
  - clean,
  - repair
  - transport the lift.
  - perform certain maintenance operations that require specific preparation and expertise in the mechanics, electrical, electronic, oil-hydraulic and pneumatic fields.

The specialised technician is aware of any risks present on the machine and the procedures to be followed to avoid damage to his/herself or others during such maintenance operations.

- EXPOSED PERSON: any person wholly or partly in a hazardous area.
- HAZARDOUS OR RISKY AREA: any area inside and/or close to a machine in whose presence an exposed person constitutes a risk for his/her health and safety.
- USER/OWNER: anyone who buys or possesses the lift in any way (on loan, hire, lease, etc.), with the intention of using it as indicated by the manufacturer.
- MAINTENANCE: all activities, which shall be done to keep the system in efficiency and in good condition.
- DPI: (PPE) Personal protection equipment.

2. DESCRIPTION OF THE MACHINE

Addressees:

- USER/OWNER;
- SPECIALISED TECHNICIAN/EMPLOYER.

2.1. *Expected use*

The function of the vehicle lift is to lift motorized vehicles, which have the distribution of the loading according standard in force.
The vehicle movement has to be done with lift closed.
The accessories indicated in the relating chapter can be used.

2.2. *Technical data*

LIFT CAPACITY	**V-077-B**	Lb	77000
JACKING BEAM CAPACITY		Lb	35000

MOTOR POWER	KW	7,5	
	HP	10	
ELECTRIC POWER SUPPLY	V	220-240	THREE-PHASE
		440-480	
	Hz	60	

	V	A	Hz
TOTAL ABSORBED CURRENT MAX	200-208	33	60
	230-240	29	
	400	17	
	460-480	15	
	550-575	13	

PNEUMATIC POWER SUPPLY	bar	8	Filtered and lubricated
	psi	116	

MAXIMUM PRESSURE OF HYDRAULIC POWER SUPPLY	**V-077-B**	psi	3920

QUANTITY OF OIL	LT	40
UPSTROKE/DOWNSTROKE TIME	S	70 / 80
MIN/MAX OPERATING TEMPERATURE	°C	-10° ÷ +40
SOUND EMISSION LEVEL	db(A)	< 80
INSTALLATION		INDOOR
	Outdoor installation is prohibited	

NOTE :
A qualified person should be consulted to address seismic loads and other local or state requirements.

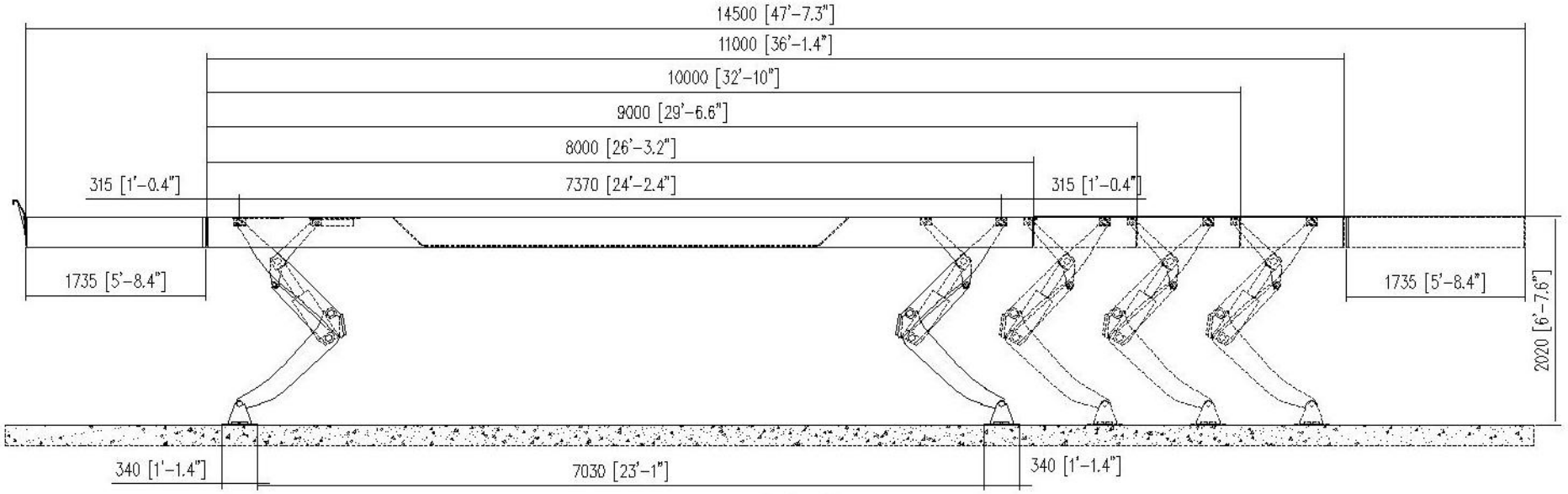
2.3. *Nomenclature*

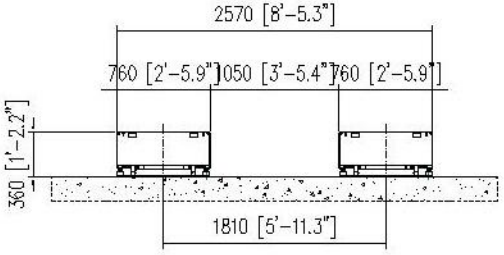
MODELS LEGEND :

N	STANDALONE VERSION (SMOOTH TRAVEL)
I	RECESS-MOUNTED VERSION

N°	DESCRIPTION
1	Platform
2	Lower leg
3	Upper lever
4	Tension rod
5	Hydraulic cylinder (main lift)
6	Base plate
7	Wheel stop
8	Access ramps
9	Electrical Controls
10	Hydraulic Pump
11	Flow divider
12	Protective floor pipe covers
13	Ramp cover plate

2.4. *Overall dimensions*





BOLTED EXTENSION MAY BE APPLIED TO THE 11 m PLATFORM UP TO 14,5 m.

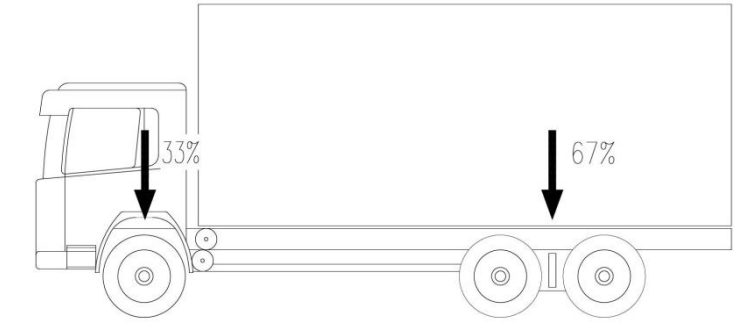
COD. FK25000005010

2.5. *Loading conditions*

The maximun lift capacity is valid when the load is equally distributed along the platform as shown in the label here below reported.

V-077-B
Capacity 77,000 lb

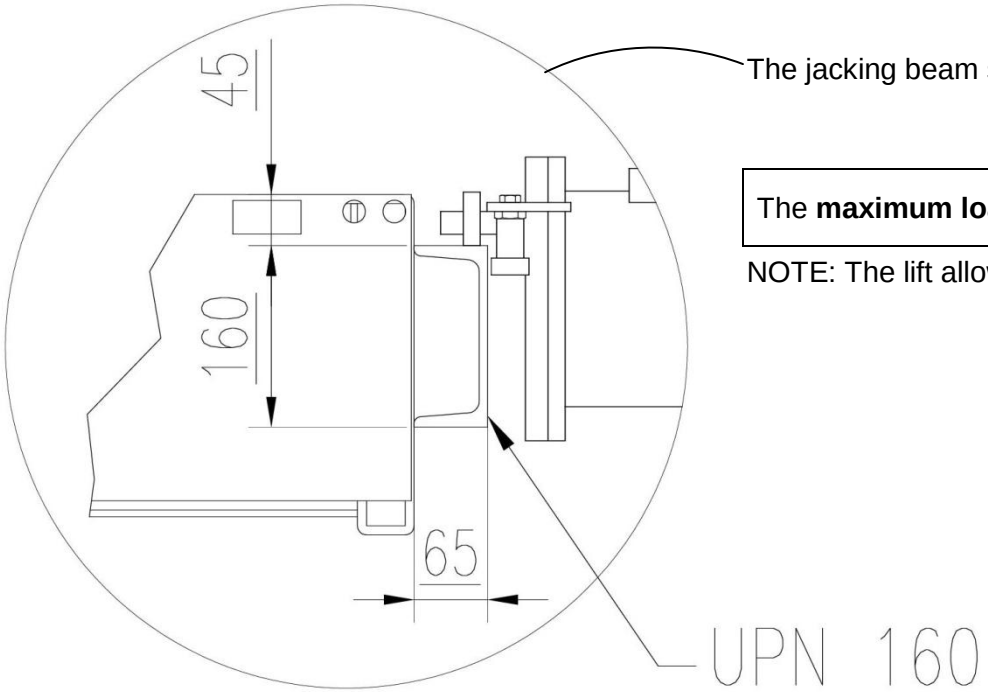

In case of an asymmetric loading distribution, the lifting capacity depends on:

The loading capacity of the table is calculated by assuming a load of distribution of 33% and 67% between the truck axles.	
Note: In case of a shorter wheel base than the indicated ones or a difference axle load ratio contact your dealer to verify the real loading capacity.	

- The maximum lifting capacity according the lift type
-
- The vehicle position along the platform
- The load distribution between the truck axles
- The wheel base

2.6. *Jacking beam*

The machine can be arranged for so that auxiliary jacking beam can be used for lifting.



The jacking beam slide on rails welded to the platform.

The **maximum load** of the jacking beam can lift is	35000 lbs	See certified model

NOTE: The lift allows the installation of 1 jacking beam.

3. SAFETY

Addressees:

- USER/OWNER;
- SPECIALISED TECHNICIAN/EMPLOYER.

3.1. *General safety regulations*

For quick reference by operator, this manual must:

- be kept in a well known, easily accessible place
- be kept in good condition

Before proceeding with installation and use of the machine, the user must read the manual carefully, especially the safety rules.

CAUTION

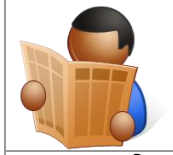
"Before proceeding with installation, operating, servicing, or maintain the lift, the user must read the manual carefully..."

The machine should be used by authorised, trained personnel only.
The user (owner and/or employee) must make sure that the fitter has provided:

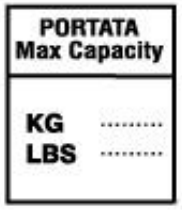
- all accessories
- the spares provided with the lift
- this operation and maintenance manual

Use as described in this manual only.
Always use the accessories recommended by the manufacturer.
Mohawk Lifts LLC. declines all responsibility for non-compliance with the indications given in this manual.

The main safety rules are shown below:

	Read all instructions carefully
	Put the main switch to the zero position when the machine is not in use. Never pull the electric cable to remove the plug from the socket.
	To reduce the risk of fires, avoid using the lift close to open drums of inflammable liquid (such as gas oil) and/or in explosive environments.
	Make sure the work area is adequately aired when using internal combustion engines.
	Avoid contact between parts of the body and/or clothing and moving parts.

3.2. *Precaution*

	When loading the lift never exceed the capacity shown on the ID plate on the lift.
	Never lift people.
	Any modifications to the lift must be authorised by the manufacturer.
	The equipment must be used by specifically trained and authorised personnel only.
	Do not tamper with the lift's upstroke and downstroke.

	Always check the stability of hoisted vehicle.
	In case of "**recess-mounted version**" before carring out the final lowering with bypass key, please ensure you that all personell are clear of the lift.
	Do not use the lift in the event of hindrances to operation or hazardous conditions.
	Check the lift carefully after long periods of inactivity before putting it back into service.
	The lift comes complete with an instruction manual warning labels designed to last. Ask the manufacturer for a replacement immediately if damaged or destroyed.
MOHAWK	MOHAWK LIFTS declines responsibility for any inconvenience deriving from non-compliance with the instructions for use.
	The operator in order to lift the vehicle in a proper way has to : - Follow the instructions of the **ALI/SM Lifting It Right** - Refer to SAE J 2184 for the vehicle lifting points

3.3. *Owner/Employer Responsibilities*

The owner/employer:

Shall ensure that lift operators are qualified and that they are trained in the safe use and operation of the lift using the manufacturer's operating instructions; ALI/SM, "Lifting It Right" safety manual; ALI/ST, "Safety Tips" card; ANSI/ALI ALOIM, Standard for Automotive Lifts – Safety Requirements for Operation, Inspection and Maintenance; ALI/WL Series, ALI Uniform Warning Label Decals/Placards; and in the case of frame engaging lifts, ALI/LP-Guide, "Quick Reference Guide – Vehicle Lifting Points for Frame Engaging Lifts".

Shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM, Standard for Automotive Lifts – Safety Requirements for Operation, Inspection and Maintenance; and the employer shall ensure that lift inspectors are qualified and that they are adequately trained in the inspection of the lift.

Shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM, Standard for Automotive Lifts – Safety Requirements for Operation, Inspection and Maintenance; and the employer shall ensure that lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.

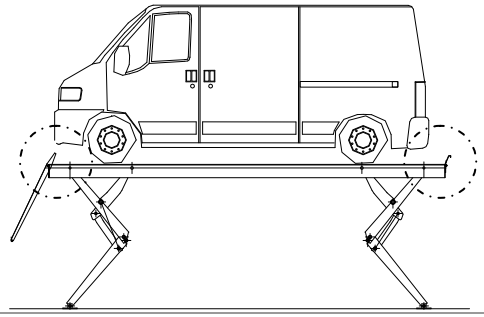
Shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM, Standard for Automotive Lifts – Safety Requirements for Operation, Inspection and Maintenance.

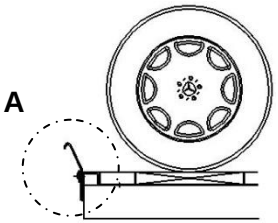
Shall display the lift manufacturer's operating instructions; ALI/SM, "Lifting It Right" safety manual; ALI/ST, "Safety Tips" card; ANSI/ALI ALOIM, Standard for Automotive Lifts – Safety Requirements for Operation, Inspection and Maintenance; ALI/WL Series, ALI Uniform Warning Label
Decals/Placards; and in the case of frame engaging lifts, ALI/LP-Guide, "Quick Reference Guide – Vehicle Lifting Points for Frame Engaging Lifts"; in a conspicuous location in the lift area convenient to the operator.

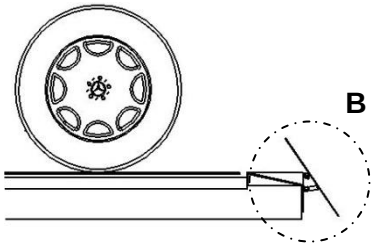
Shall review and understand the proper requirements outlined in ANSI/ALI ALIS, Safety Requirements for Installation and Service of Automotive Lifts.

3.4. *IMPROPER USE*

DANGER



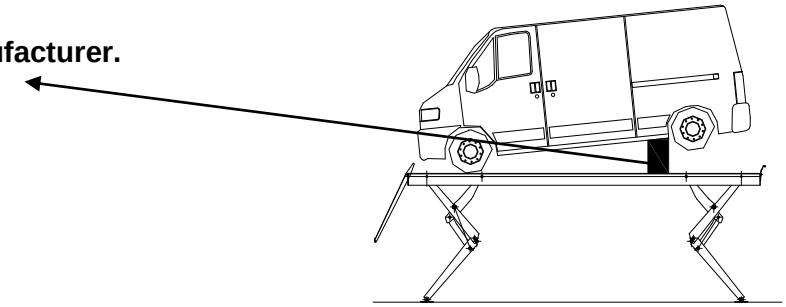


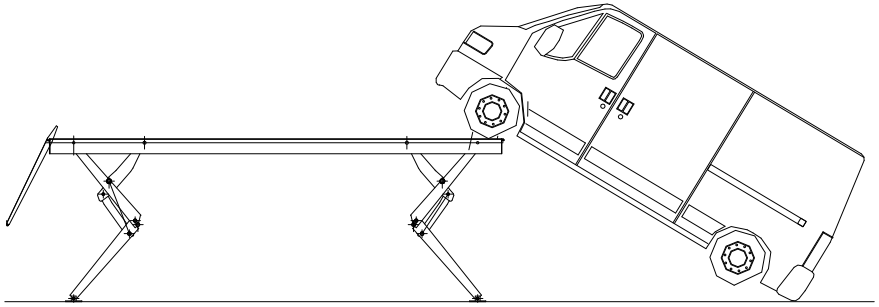


NEVER remove the wheel stop (A) and the union platform (B).

They prevent the vehicle from coming off the platform.

NEVER lift vehicles using equipment other than that envisaged by the manufacturer.





NEVER lift vehicles that are only partially on the lift.

3.5. *Safety device features*

SAFETY DEVICE	COMPOSED OF	POSITION	IN THE EVENT OF ...	EFFECT ON MAIN LIFT
MECHANICAL ANTI-FALL DEVICE	Rack jack	On each hydraulic cylinder of the lift.	Leakage on the hydraulic circuit or breakage of a component	Accidental descent is blocked with a maximum displacement of 4 inch.
ANTI-SHEARING DEVICE	Limit switch and buzzer	On the master cylinder in the control unit.	Descent on last stretch	Platform descent stops at 19.6 inches off the ground To complete descent: ✓ turn the PEFT key switch. ✓ Hold down the Down Button PD 1. Final descent is confirmed by the buzzer.
PLATFORM ALIGNMENT CONTROL DEVICE	Photocell and reflectors	Each end of the platforms	Maximum misalignment of 2 inches between the platforms of the main or auxiliary lift.	The lift stops moving.
HYDRAULIC FAILURE DEVICE	Velocity fuse	On each hydraulic cylinder of the lift and on MASTER cylinder supply.	Breakage of hoses.	The valve blocks descent when the speed reaches a value preset by the Manufacturer.
WHEEL STOP DEVICES	Wheel chock and ramp cover plate	Front and rear in both lift platforms.	-	They prevent the vehicle from coming off the platforms.
SIGNALS	Stickers and plates	See paragraph: *Stickers and plates*	-	Draw attention to residual risks and precautions for use.

3.6. *Residual risks*

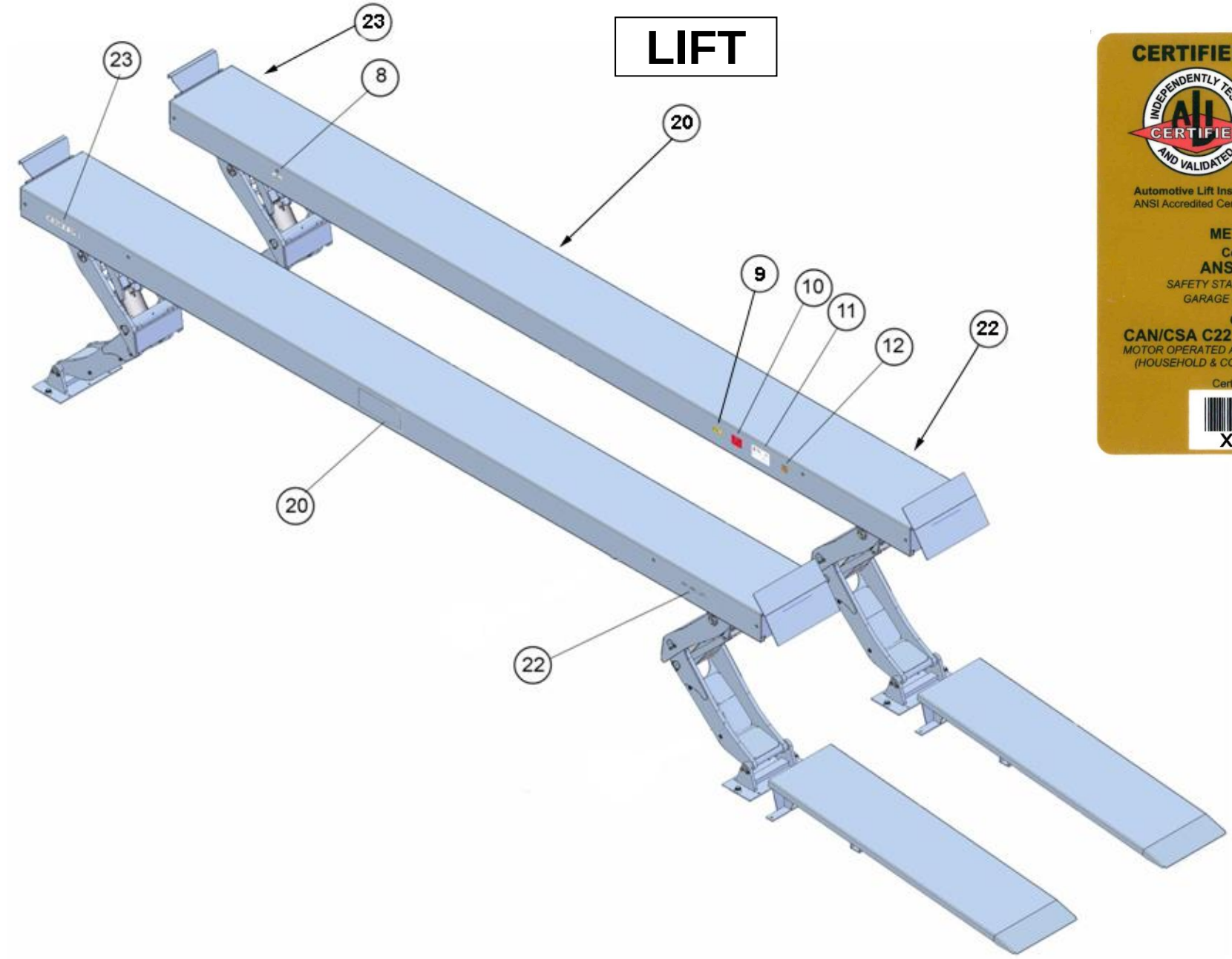
DANGER

	HAZARD	WHO	CONDITION	RISK
	PIPE BREAKING AIR ELIMINATION FROM CYLINDERS PIPES LOOSENING	Maintenance technician	MAINTENANCE	Contact with squirts of pressurised oil
	ELECTRIC SHOCK	Maintenance technician	MAINTENANCE	Contact with live components
	SHEARING	Maintenance technician	MAINTENANCE	Shearing of hands and feet with lift is in movement.
	TIPPING OVER OF THE LOAD	Maintenance technician	MAINTENANCE	During manual lowering, check that the load moves smoothly, without being thrown out of balance. Operate the valves so that the bridge is realigned step by step.
	REDUCED VISIBILITY	Operator	OPERATING	Possible third-party damage

3.7. *Stickers and plates*

The labels must be readable and permanently attached to the equipment.
The labels that will be furnished with the equipment, together with their relevant positions, listed below:

N.	Plate description		
1	Control panel identification		
2	Risk of electric shock - Risk of explosion - Risk of fire - Fuses indication		
3	Photocell override		
4	Up		
5	Down		
6	Mechanical safety locks		
7	Light selector		
8	Air attachment		
9	Warning: rolling jacks		
10	Load distribution		
11	Serial number plate		
12	**GOLD LABEL CODE**	**LIFT**	
		CONTROL UNIT	
13	Operating time		
14	Notice		
16	Warning		
17	Earth connection		
18	Logo MOHAWK		
19	Do not use below garage floor or grade level (ON REMOTE CONTROL)		
20	Logo MOHAWK		
22	MAX CAPACITY		
23	Do not stay near the lift in movements		


LIFT
23
23
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12
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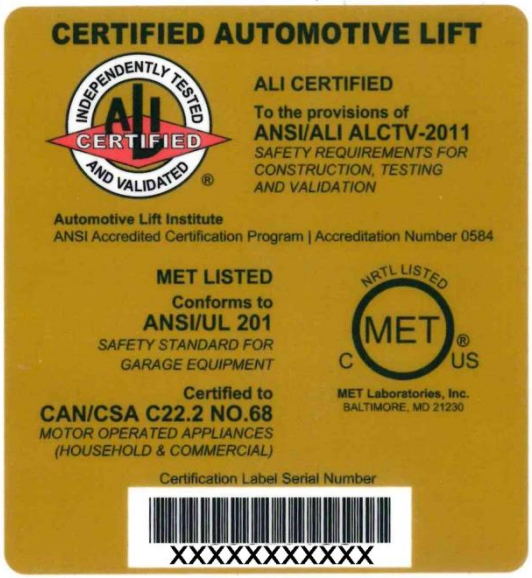
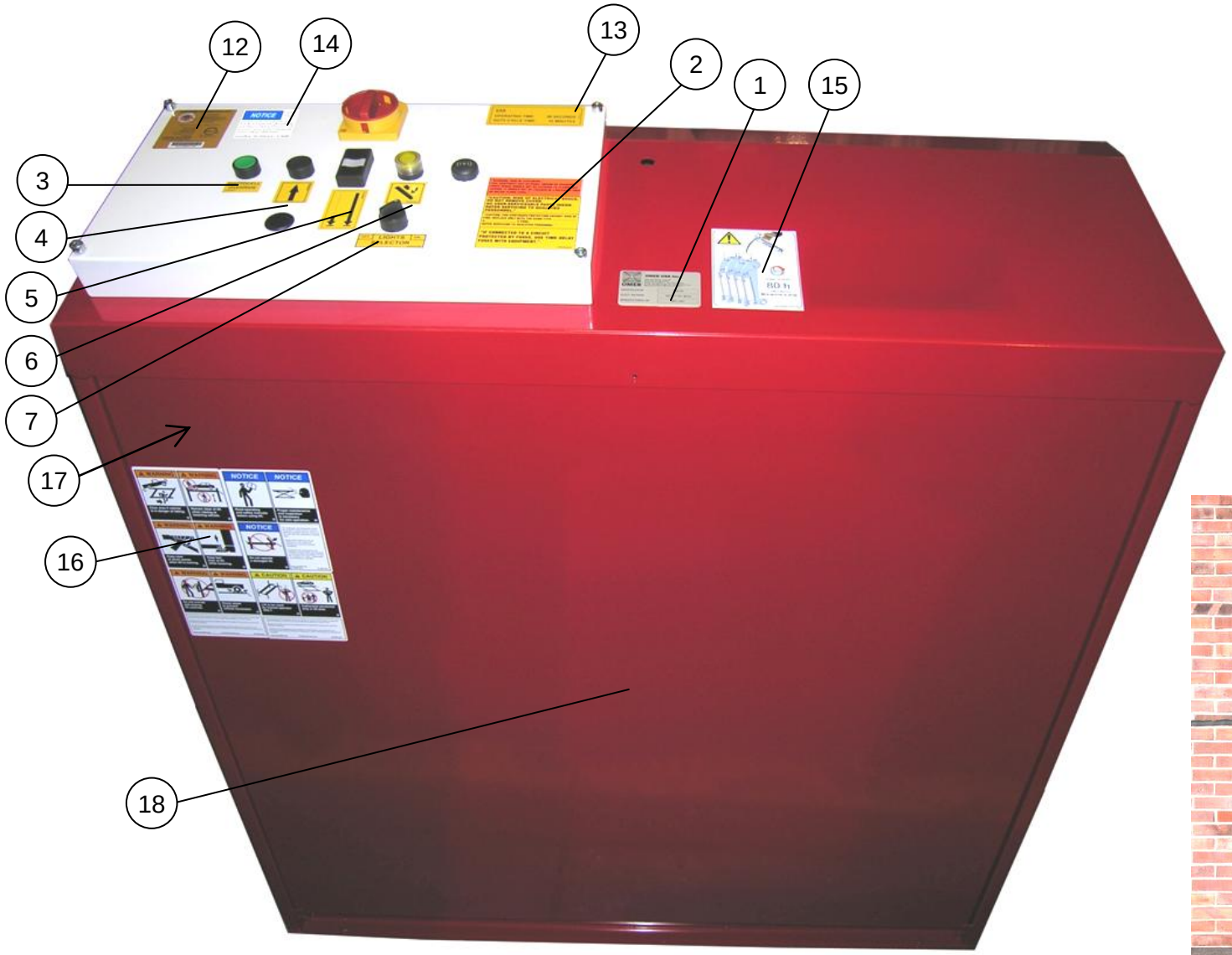
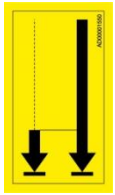
22

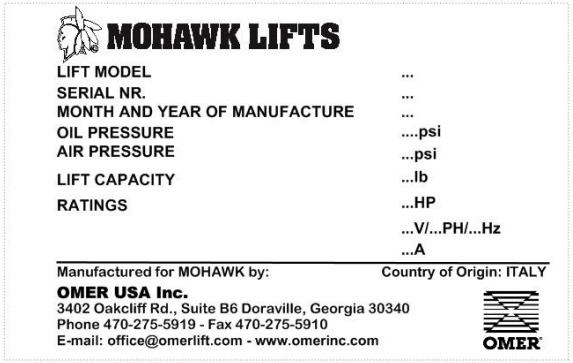

CERTIFIED AUTOMOTIVE LIFT
INDEPENDENTLY TESTED
ALI
CERTIFIED
AND VALIDATED
ALI CERTIFIED
To the provisions of
ANSI/ALI ALCTV-2011
SAFETY REQUIREMENTS FOR CONSTRUCTION, TESTING AND VALIDATION
Automotive Lift Institute
ANSI Accredited Certification Program | Accreditation Number 0584
MET LISTED
Conforms to
ANSI/UL 201
SAFETY STANDARD FOR GARAGE EQUIPMENT
Certified to
CAN/CSA C22.2 NO.68
MOTOR OPERATED APPLIANCES (HOUSEHOLD & COMMERCIAL)
NRTL LISTED
MET
C US
MET Laboratories, Inc.
BALTIMORE, MD 21230
Certification Label Serial Number
XXXXXXXXXXX

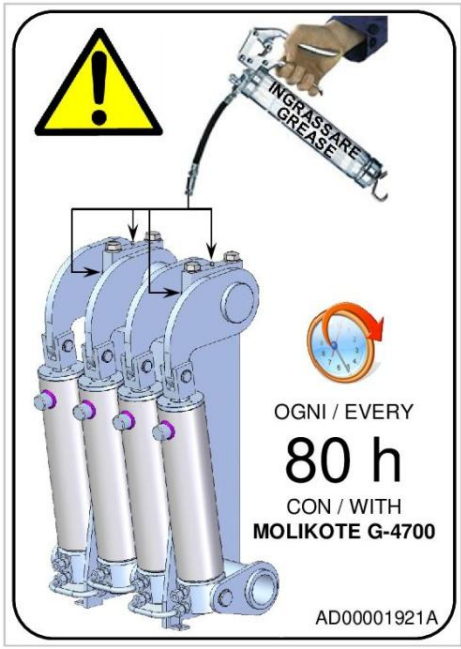
CONTROL UNIT



LABEL 1	MOHAWK LIFTS IDENTIFICATION ELECT. RATINGS MANUFACTURED ON "month" 20.. Manufactured for MOHAWK by: Country of Origin: ITALY OMER USA Inc. 3402 Oakcliff Rd., Suite B6 Doraville, Georgia 30340 Phone 470-275-5919 - Fax 470-275-5910 E-mail: office@omerlift.com - www.omerinc.com OMER
LABEL 2	"WARNING: RISK OF EXPLOSION. THIS EQUIPMENT HAS INTERNAL ARCING OF SPARKING PARTS WHICH SHOULD NOT BE EXPOSED TO FLAMMABLE VAPORS. IT SHOULD NOT BE LOCATED IN A RECESSED AREA OR BELOW FLOOR LEVEL." "CAUTION: RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL." "CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE ..... A, ... V FUSE. REFER SERVICING TO QUALIFIED PERSONNEL." "IF CONNECTED TO A CIRCUIT PROTECTED BY FUSES, USE TIME-DELAY FUSES WITH EQUIPMENT." AD00002002

LABEL 3	PHOTOCELL OVERRIDE AD00000638
LABEL 4	
LABEL 5	
LABEL 6	
LABEL 7	OFF LIGHTS SELECTOR ON AD00001989
LABEL 8	AIR ATTACHMENT AD00000449
LABEL 9	WARNING! IF USING 2 ROLLING JACKS TOTAL CAPACITY OF BOTH JACKS CANNOT EXCEED THE LIFT CAPACITY!

LABEL 10	**V-077-B**	
LABEL 11		
LABEL 12		

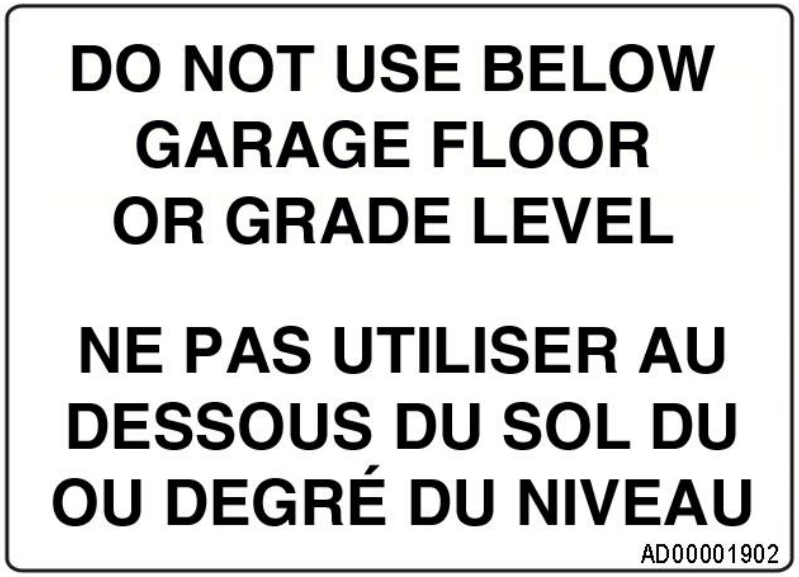
LABEL 13	
LABEL 14	
LABEL 15	

LABEL 16

LABEL 17

LABEL 18

LABEL 19



LABEL 20		
LABEL 22	**V-077-B**	
LABEL 23		

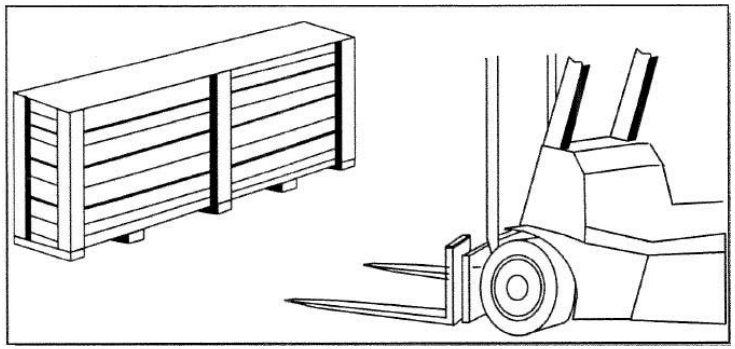
4. INSTALLATION

Addressees:

- SPECIALISED TECHNICIAN/EMPLOYER.

4.1. *Transport and handling*

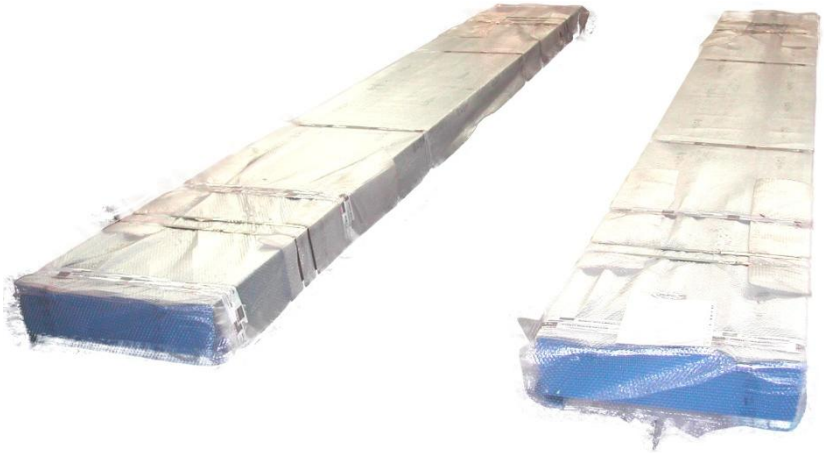
The packaged lift must only be transported using dedicated hoisting equipment with a greater capacity than the lift to be handled.



The equipment is wrapped in bubble pack to protect the components wooden crates or pallets are used in special cases.

PROCEED AS FOLLOWS:

- protect the electric control panel from exposure to the elements
- protect against blows and do not use the electronic control panel for hoisting
- protect the corners and ends of the piece to be transported with suitable material (Bubble pack - cardboard).
- harness using dedicated straps



PACKING LIST

VERSION OF LIFT	WEIGHT		
	Platform lbs	Control unit lbs	Ramps lbs
KAR standalone	~13200	~ 2200	~ 1100
KAR recess-mounted version	~ 13200	~ 2200	/

Data refers to the table with dimensions L=36'..

The lift is usually sent in 4 packages:

- ✓ Right platform
- ✓ Left platform
- ✓ Control unit
- ✓ Accessories
  - Hose covers
  - Auxiliary lifting beams (OPTIONAL)

The packages may vary according to:

- the size of the lift;
- the type of shipment;
- the packaging used, subject to customer's request;
- the destination country.

DURING TRANSPORT THE CAGE (OR PACKED LIFT) MUST BE SECURED PROPERLY TO PREVENT IT FROM MOVING AROUND ON THE FLOOR OF THE VEHICLE USED TO TRANSPORT IT.

4.2. *Installation*

See the installation and parts reference section of this manual for diagrams and part list that will assist you during the installation process. Use these diagrams and part list together with the following written instructions.
Insure that the lift installation complies with ANSI/ALI/ALIS Safety Requirements for Installation and Service of Automotive Lifts.

4.2.1. Installation sequence

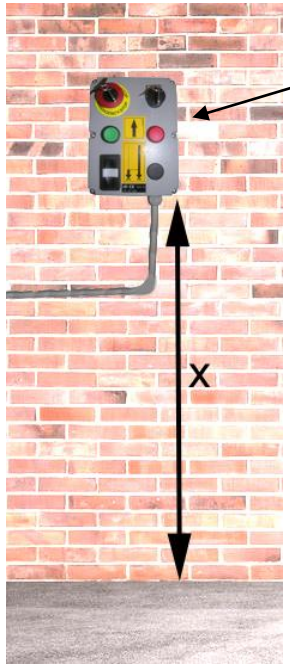
The installation sequence is as follows:

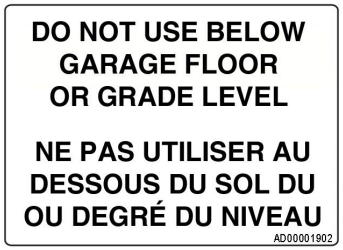
1. Check the bay layout
2. Unpack the lift
3. Check the lift components
4. Position the lift
5. Connect air lines
6. Connect hydraulic lines
7. Connect electrical cables
8. Run the lift
9. Level shim and anchor
10. Complete the lift with accessories
11. Final check
12. Clean
13. Train user and owner

Installation Remote push button panel (OPTIONAL)

⚠ CAUTION

In case of remote push button panel installation follow the instructions below:

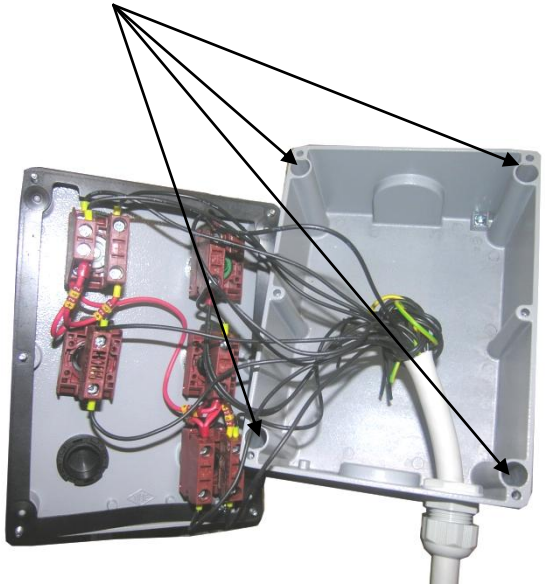




The push-button panel must be fixed at a height **X** from the ground.

X= 1100 ÷ 1400 mm

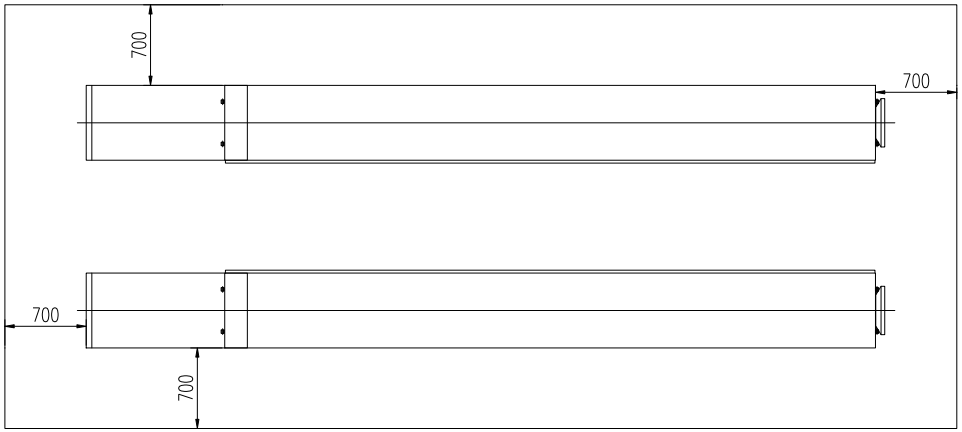
FIXING HOLES INSIDE THE BOX

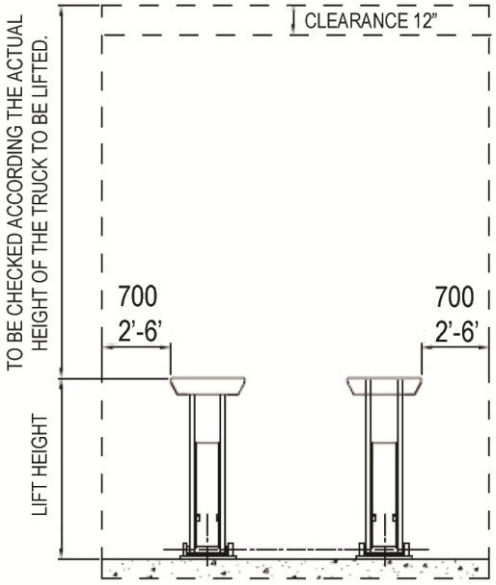


1. Open the cover
2. Install the box onto a fixed part, wall or column, using fixing screws:
    a. Bolts M6 (screw+nut)
    b. Or Anchors Ø6
3. Close the cover

4.3. *Place of installation*

The free space around the table must satisfy applicable regulations and be no less than 700 mm or 27,5 inches.
The control unit must be positioned so that the operator has a full view over the lift area.



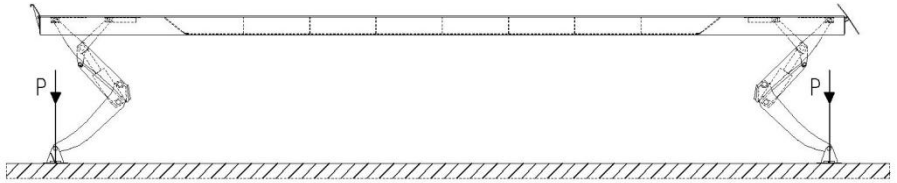


WORK AT A ROOM TEMPERATURE OF
-10 TO 40 ° C.
14 TO 104 °F

To install the anchor capsules, the foundation must have the following characteristics:

FOUNDATION	Tamped
THICKNESS OF CONCRETE	≥ 17 cm / 7 inches
CONCRETE RESISTANCE CLASS	≥ C 25 / 4000 psi
IMPROVED ADHERENCE STEEL GIRDERS	Type FeB 44 K
REINFORCEMENT GIRDERS FOR LARGE SURFACES	Electro welded mesh
REINFORCEMENT GIRDERS FOR SMALL SURFACES	Bent irons
FLATNESS	± 1 / 1000

If the floor characteristics are not available, foundations must be provided underneath the lift's clamping holes.



MAX.GROUND PRESSURE (*)	Kg/cm^2	≤ 5
	psi	70

The lift must in any case be fastened to the floor using dedicated chemical anchor capsules.
(*) press calculated under the base plates.

4.4. *Connecting the lift*

Follow the sequence of operations given below:

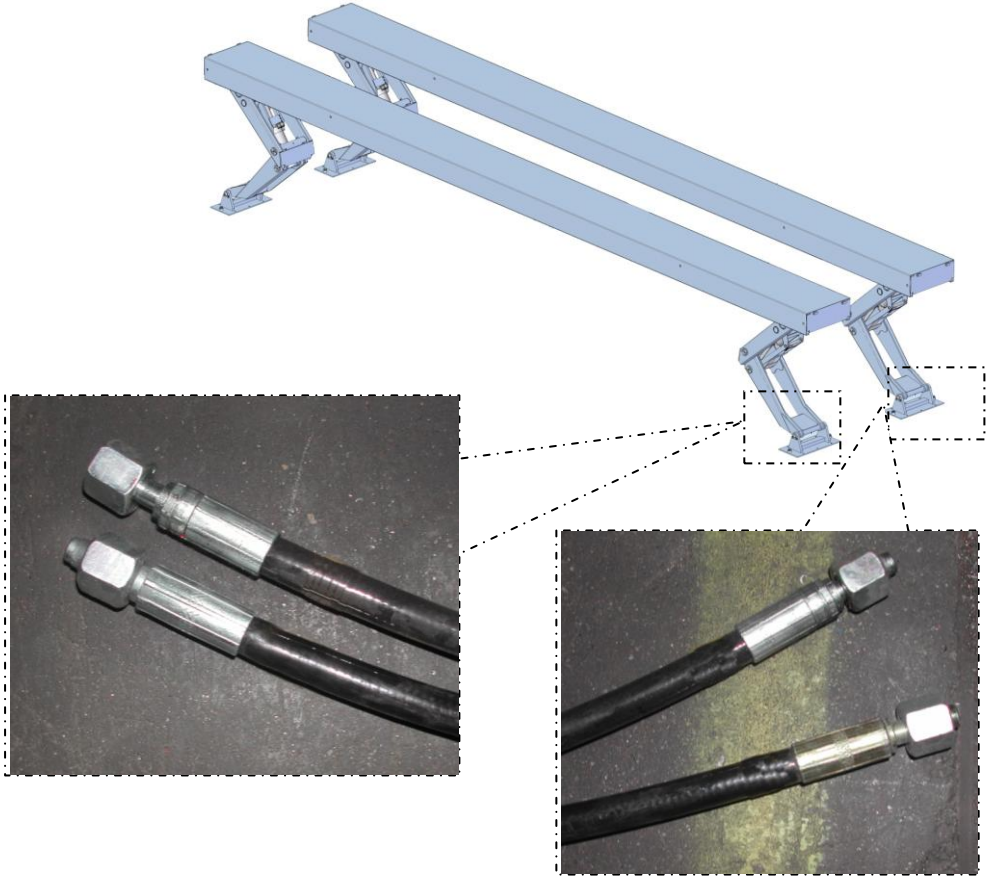
1. connect the hoses provided, which lead out of the control unit with their respective inputs to the lift
   (see paragraphs: *Hydraulic, pneumatic, electrical connection).*
2. Fill the circuit MASTER/SLAVE and remove air from the same circuit.
   (see paragraphs: *Filling of the circuit Master-Slave*)
3. Fix the legs of the lift with the raw plugs at the correct distance and perfectly levelled.
   (see paragraphs: *Lift position* and *Anchorage capsule installation*)
4. Carry out all due tests before using the lift.
   (see paragraphs: *Check* and *Checks before use*)

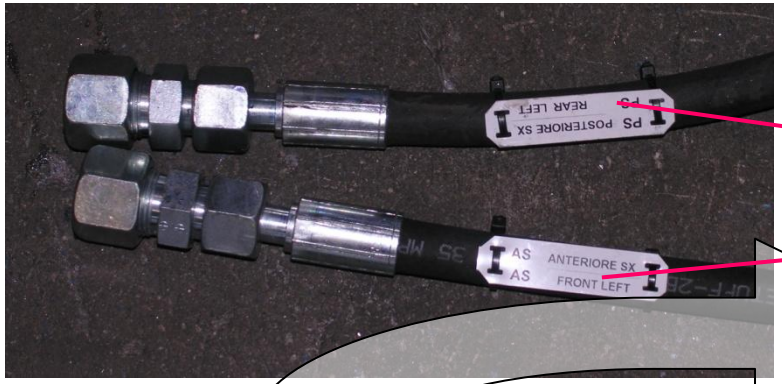
The control unit must be positioned so that the operator has a full view over the lift area.

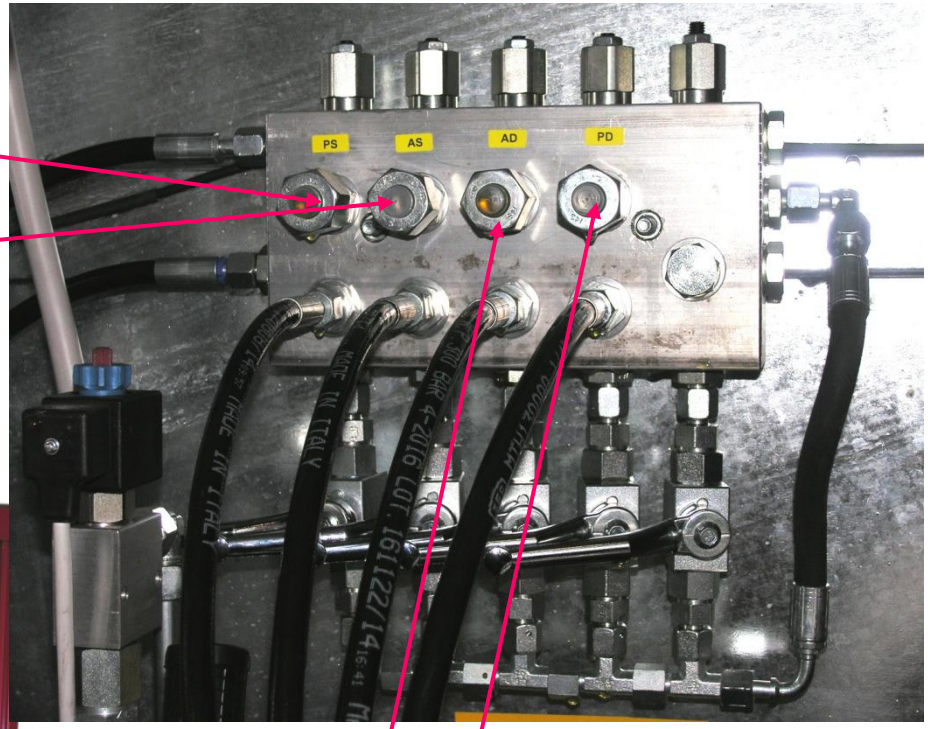
4.5. *Connecting the lift's commands*

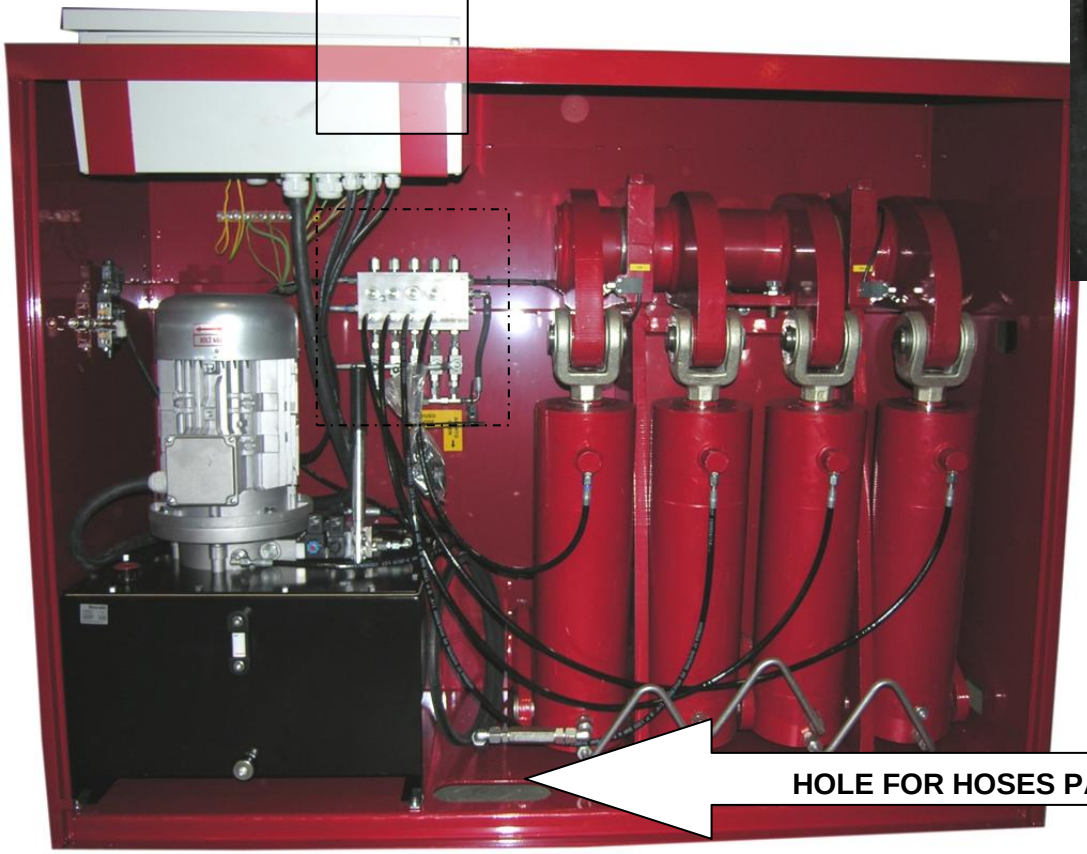
4.5.1. Hydraulic connections

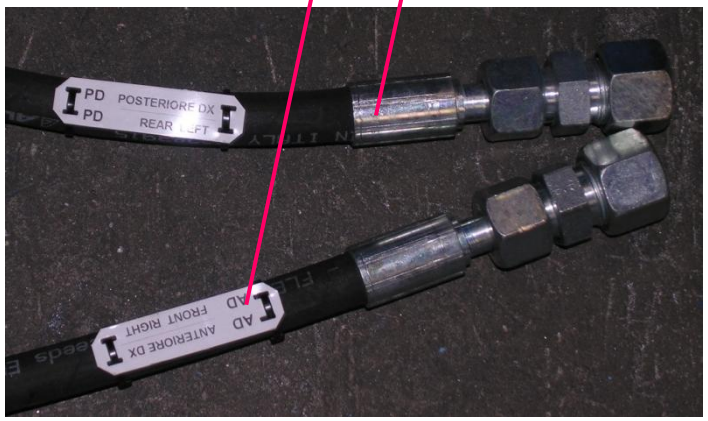
- Open the control unit door
- Bring the hydraulic hoses from the lift to the control unit, through the hole at the base of the control unit.
- Join the hoses to the hydraulic blocks (see photo).









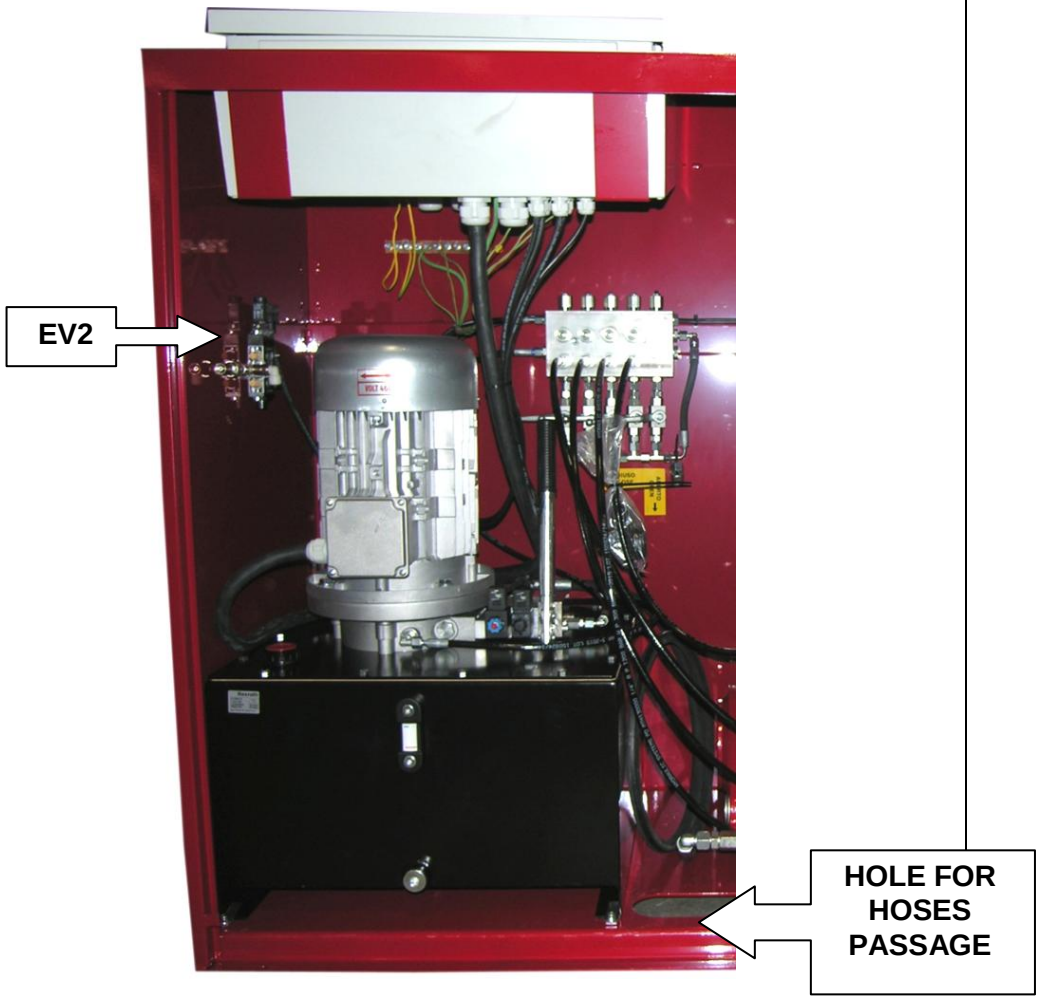


HOLE FOR HOSES PASSAGE

JOIN THE HOSES – SEE THE RIGHT POSITIONS WRITTEN ON THE PLATES

4.5.2. Pneumatic connection

- Uncoil the pneumatic hose connected to EV2.
- Bring the pneumatic hose from the control unit to the lift, through the hole at the base of the control unit.
- Join the hoses from the platform with the hose from the control unit with a tee-coupling.



4.5.3. Electric connection

A) LIFT SUPPLY

The electric supply system must include:

- a main switch with a circuit breaker;
- fuses or thermal magnet protection suited to the machine's characteristics;
- device against accidental contact, for protection.

The switch must be positioned in the immediate vicinity of the machine in full compliance with local accident prevention regulations.

Power cables must have a suitable section for absorbing current, without deviations for other utilities.

Electric systems must be created according to the state of the art by a qualified electrician who must check the earthing system's efficiency.

The power cable must be locked in the dedicated cable gland and the electric panel must be carefully closed to assure the envisaged IP 54 protection.

Only connect the machine to type approved sockets with an earth cable of proven efficiency.

Periodically have qualified personnel check the correct tightening of the electric cables of the various components.

- Power cables must have a suitable section for absorbing current, without deviations for other utilities
- Electrical system shall be designed to meet all local / national codes and shall be properly grounded

Attention:

- power the lift's electrics system using a line fitted with a mains switch and without any other junctions.
- The devices fitted to provide protection against short circuits must take into account the features of the electrical equipment:

NOMINAL POWER		HP	10	10	10	10	10	10
VOLTAGE		V	200	208	220-240	380-415	440-480	550-575
No. of phases			3	3	3	3	3	3
FREQUENCY		Hz	60	60	60	60	60	60
NOMINAL CURRENT		A	32.2	30.8	28.0	18.0	14.0	11.0
PICKUP CURRENT		A	193.2	184.8	168.0	108.0	84.0	66.0
PROTECTION	FUSE (DELAYED)	A	35	35	35	25	25	25
	FUSE (FAST)	A	50	50	50	35	35	35
	THERMOMAGNET	A	50	50	50	32	32	32

B) LIFT AND CONSOLLE WIRING

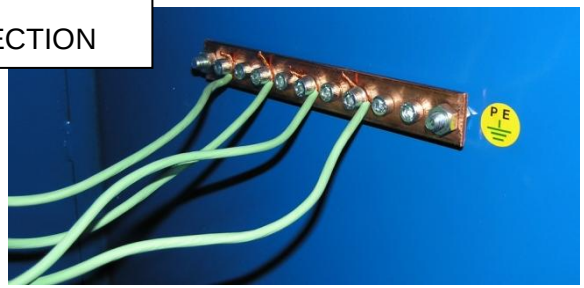
- The wire of the cables connecting the lift and the consolle are numbered.
- Connect the wire to the terminal box of the console according to the wiring diagram.
- Install methalic covers for piping and cables

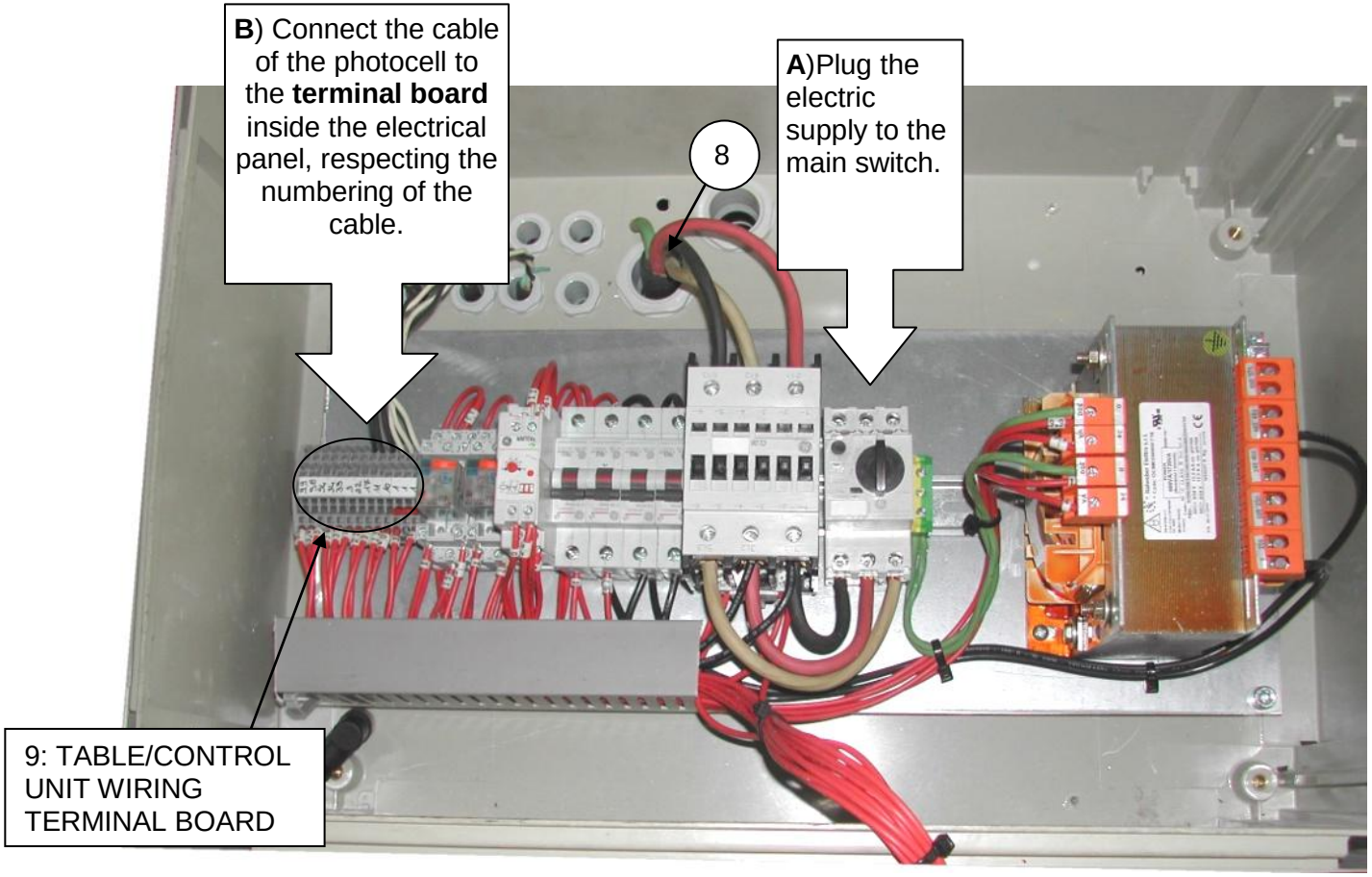
Warnings for the installation of electric cables between the control unit and lift:

the connecting cable that powers the safety limits switches on the lift must:

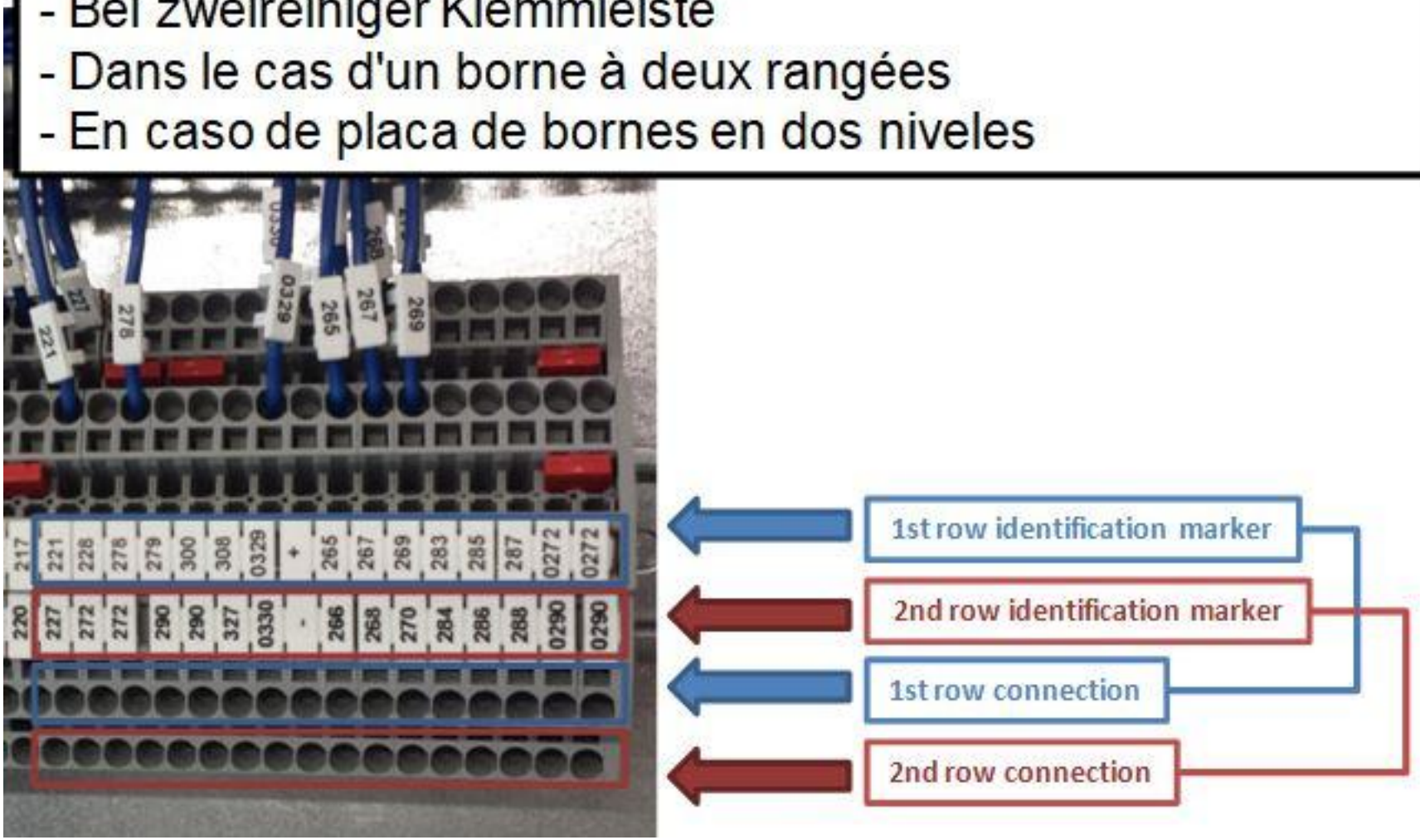
- be adequately protected against the mechanical actions it may be exposed to during use.
- Be passed through the dedicated cable glands (8) and connected to the terminal board (9) inside the electric panel, respecting the numbering of the cable.

EARTH CONNECTION





- In caso di morsettiera a doppio livello
- In case of double row terminal block
- Bei zweireihiger Klemmleiste
- Dans le cas d'un borne à deux rangées
- En caso de placa de bornes en dos niveles



4.6. *Filling of the circuit Master-Slave*

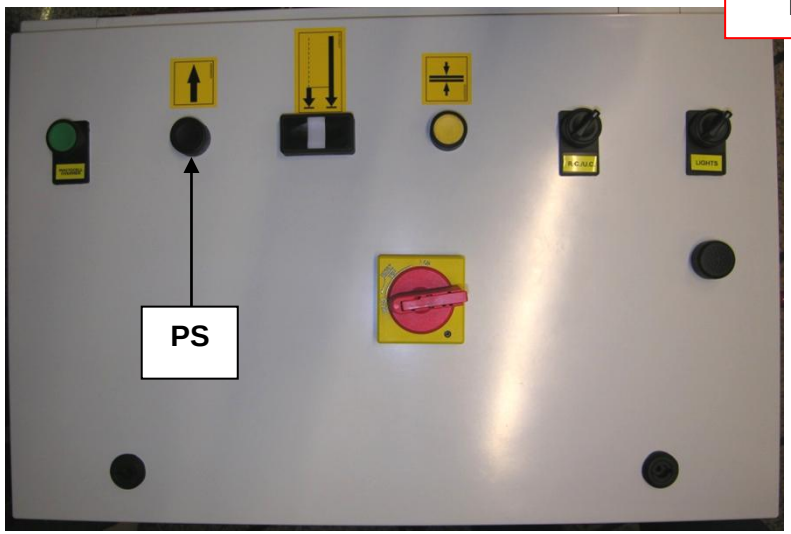
CAUTION

PROCEDURE TO BE EXECUTED ONLY DURING THE INSTALLATION

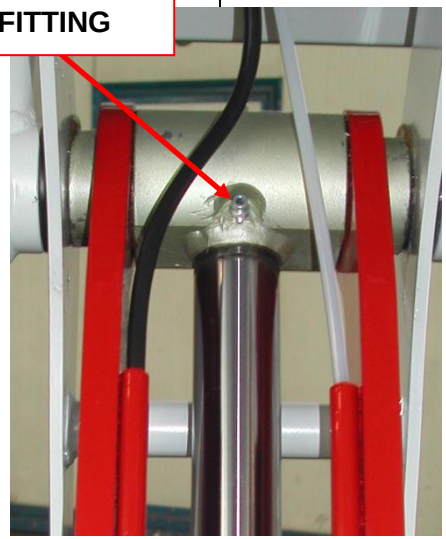
1. Turn the taps on
2. Push button PS /UP till when the lift starts lifting
3. Turn the taps off
4. Push button PS/UP till the complete opening of the divider
5. Turn the taps on
6. For each cylinder:
   a. Push button Ps/UP till max height of the lift.
   b. Allow air to escape from the air valve till the lift leans on the mechanical safety locks.
   c. Repeat at least three times

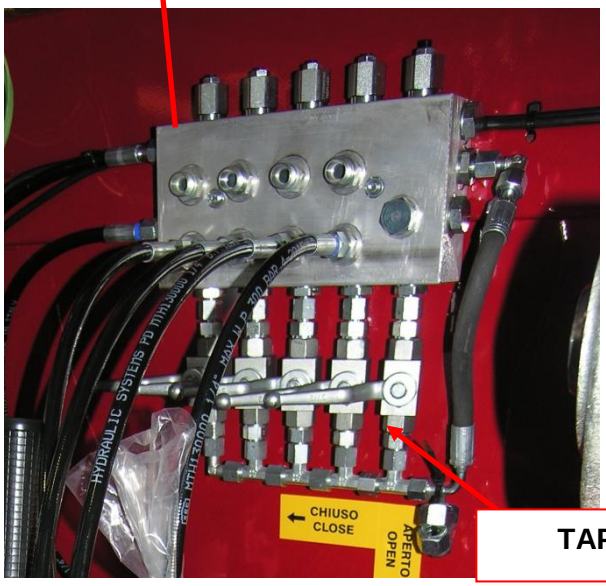
Repeat point 6 for all cylinders:

7. Push PS/UP till the max height of the lift
8. Turn the taps off



BLEEDING FITTING





TAPS

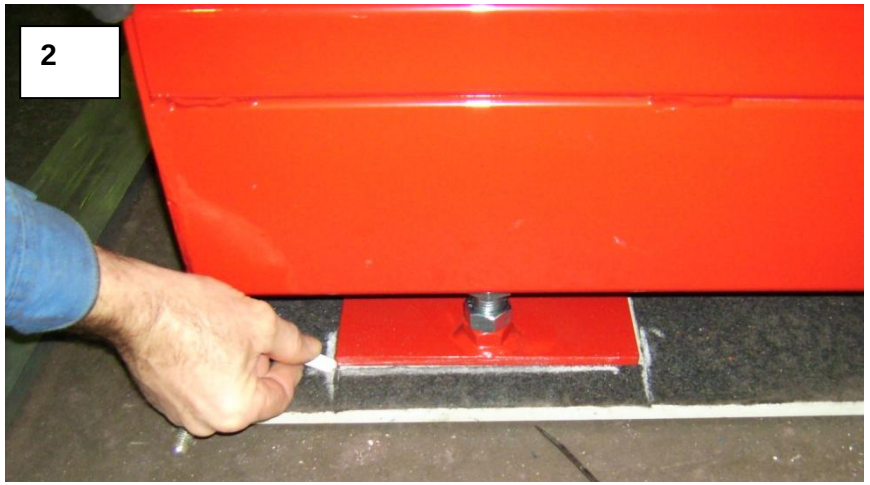
4.7. *Lift position*

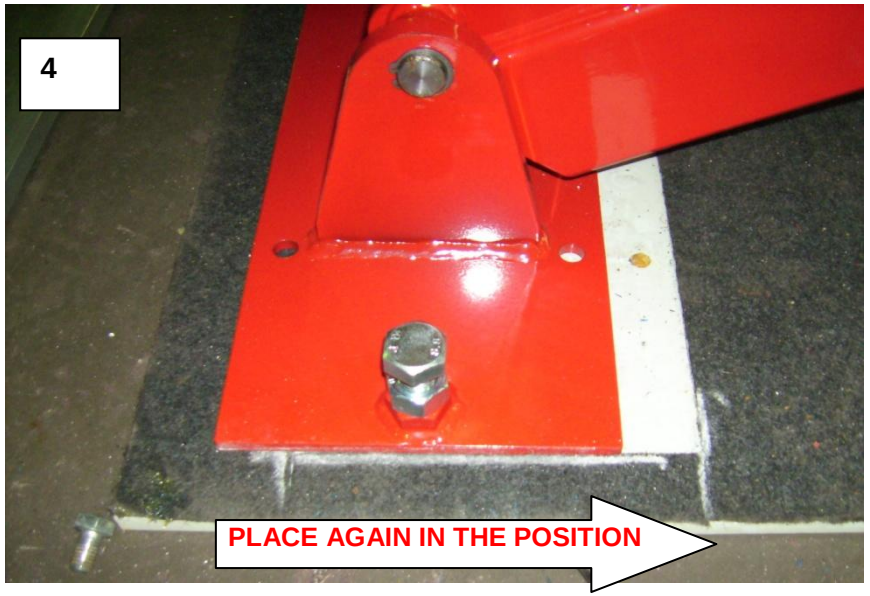
1. Place the lift on floor
   a. aligned
   b. in parallel
2. Mark on floor the position of the base frames
3. Lifting

Note: normally the plates move out.

4. For each platform:

- Put the base frames again in the position alongside the realized line on floor.
- Fix the frames in the position.
- Repeat the above-said steps for the other plate



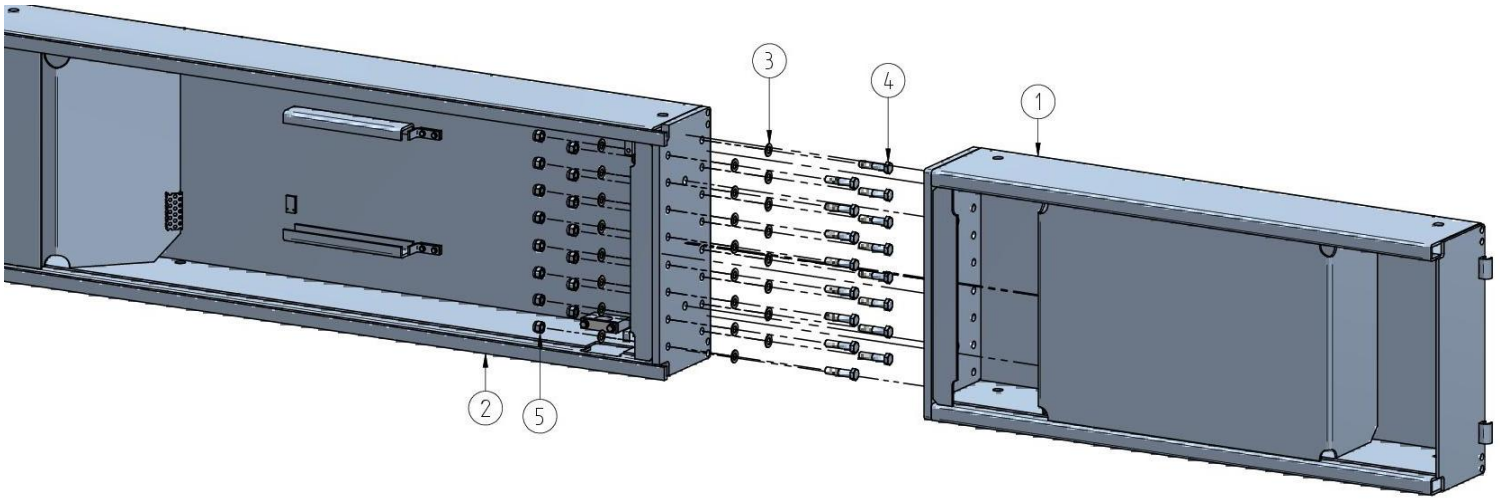


4.8. *Extensions installation (if present)*

The extensions installations procedure is as follows:

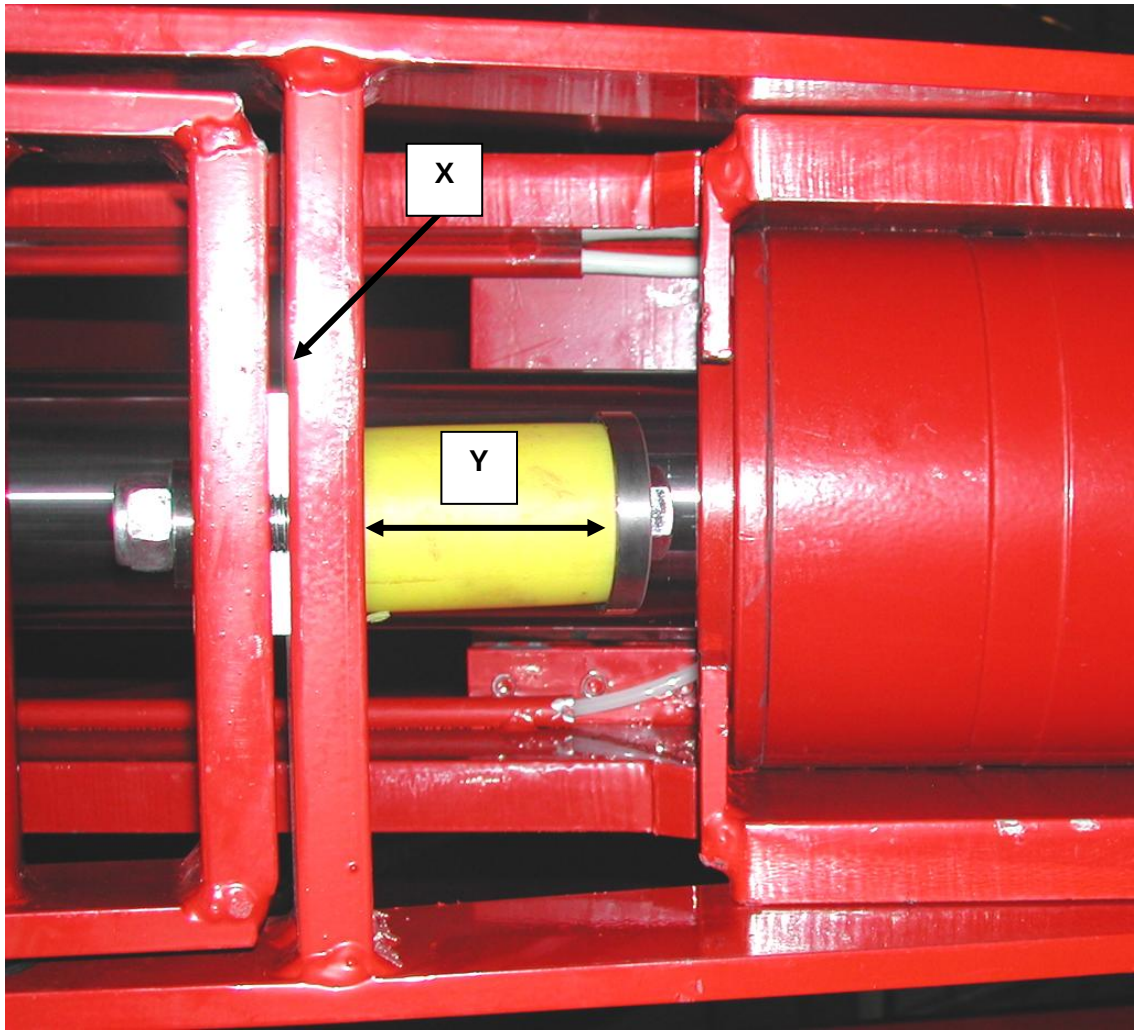
- The lift is positioned in higher position
- Lift the extension with slings
    - Be careful of the balancing of the extensions
- Position the extension closed to the platform by using the centering pins
- Install the bolts
- Apply the tightening torque as required
- Install the wheel stop

TIGHTENING TORQUE	Nm	440



4.9. *Check*

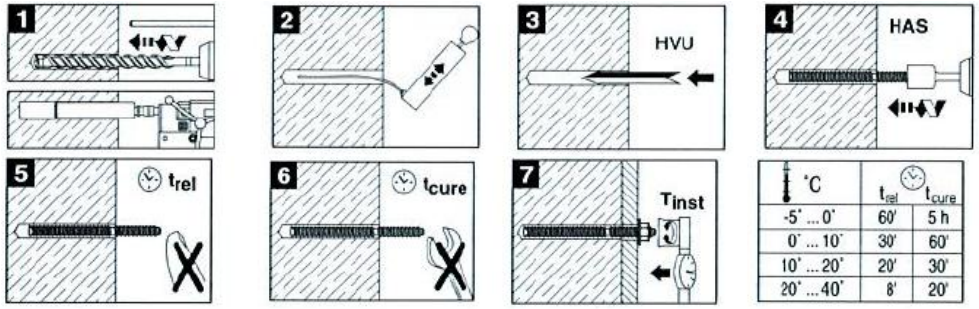
1. Check that the gap is of >**X** (6 mm – 1/4” inches).
2. Screw the nut up to the time that the high of the spring is of **Y** (65 mm – 2.6 inches).



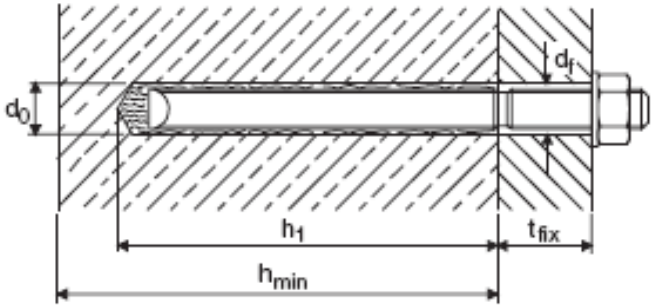
The springs of the legs are adjusted in the factory for the use

4.10. *Anchorage capsule installation*

1. Drilling the hole;
2. Clean the inside of the hole;
3. Push the anchor capsule into the drilled hole;
4. Driving the anchor rod into the hole;
5. Waiting for the solidification time (t_{rel})
6. Waiting for the hardening of the compound (t_{cure});
7. Close with the prescribed tightening torque(T_{inst}).



TYPE OF ANCHOR CAPSULE			HVU M16X125
TYPE OF ANCHOR ROD			HAS M16X190
DRILL BIT DIAMETER	d0	mm/inches	18/0.75
MIN. BORE DEPTH	h1	mm/inches	125/5
MIN. THICKNESS OF CONCRETE	h	mm/inches	170/7
LIFT BASE SPACER		mm/inches	38/1.5
HOLE DIAMETER		mm/inches	18/1
TIGHTENING TORQUE	T_{inst}	Nm/ft lbf	100/74
DRILL BIT	TE-T		18-32
NUMBER OF PINS		N°	16 or more



ANCHORAGE CAPSULE POSITION

K200-250-300-350 BASE

A = OBLIGATORY ANCHORAGE CAPSULE

B = OPTIONAL ANCHORAGE CAPSULE
(according to the foundation characteristics and dimension)

4.11. *Checks before use*

Having completed installation of the table, the following tests must be performed before it can be used for work:

	TESTS	**STANDARDS**	
1	Table levelling using spirit level.	Max 0.5 mm per meter / 0.006 inches/foot	☐
2	GAP between the plates and the height of the spring.	*(see: Check)*	
3	Sturdiness of anchors fastening to the floor.	Tightening torque (see: *Anchorage capsule installation paragraph*)	☐
4	Pneumatic connections.	Diagram *(see: Pneumatic diagram paragraph)*	☐
		Air leakage	☐
5	Hydraulic connections.	Diagram *(see: Hydraulic Diagram paragraph)*	☐
		Oil leakage	☐
		Pressure	☐
6	Wiring.	Diagram *(see: Wiring Diagram)*	☐
7	Safety devices.	*(See: Safety device features paragraph)*	☐
8	The compressed air system must be powered by filtered and lubricated air	Presence of a filtering system.	☐
9	Oil level.	Oil level rod	☐
10	Direction of rotation of motor.	Arrow on motor	☐
11	Plant cable and piping protection.	Cable and pipe runs provided.	☐
12	In case of upstroke from opposite side to the torsion bar.	Presence of up ramp (optional).	☐
13	Never load vehicles whose overall dimensions exceed those of the lift.	Loading conditions *(see paragraph: Loading conditions)*	☐
14	Never load vehicles weighing more than the lift's nominal capacity.	Capacity indicated on plate.	☐
DATE		**SIGNATURE**	

4.12. *Final testing*

The static and dynamic load tests with overloads are performed at the Manufacturer's premises.

The user may perform nominal load tests (with a ± 10% tolerance admitted for maximum valve calibration) with distribution of the loads as described in the *Loading conditions* paragraph of the installation, use and maintenance manual.

Tests can be carried out with the following “overloading factors”

STATIC TEST	overload	125 %
DINAMIC TEST	overload	110 %

With loading distributed according the foreseen scheme of the machine in the charter *“Loading conditions”.*

4.13. *LIFT OPERATIONAL TEST*

4.13.1. Lift Operation

✓ Perform pre-operation check list item by item
✓ Ensure lift is completely lowered
✓ Position vehicle on the lift

4.13.2. Caution

✓ Avoid sudden “starts and stops” during loading and unloading of vehicle

4.13.3. To Load a Typical Vehicle

✓ Position vehicle on the lift runways by using the approaching ramp. Make sure the center of gravity is
located equally between the legs . The individual axle weight should not exceed two-thirds of the lift
capacity.
✓ Set vehicle parking brake and chock tires.
✓ Make sure vehicle is neither front nor rear heavy.

4.13.4. To Raise the Lift

✓ Push up button (PS) to raise the lift by about 10”
✓ Check for the vehicle movement and weight distribution. Raise to desired height if secure.
✓ **DO NOT WORK UNDER A LIFT THAT IS NOT IN THE LOCK POSITION.**

4.13.5. To Lower the Lift

✓ Inspect the lifting area to insure all personnel and debris have been cleared away.
✓ Push the down button (PDA) and the lift will first disengage the safety locks, then start its descent.
✓ Once the lift reaches 120mm from (5 inches) the unit will stop, to allow the operator to check for
potential pinch problems. Depress both PDA and PDB to lower the lift to the final lowered position.
✓ Lower lift completely to the floor. Carefully drive off the vehicle from the lift runways

.

INSURE THIS MANUAL ALONG WITH OPERATION AND MAINTENANCE INSTRUCTION ARE DELIVERED TO THE OWNER/ USER/EMPLOYER

5. USE

Adressees:

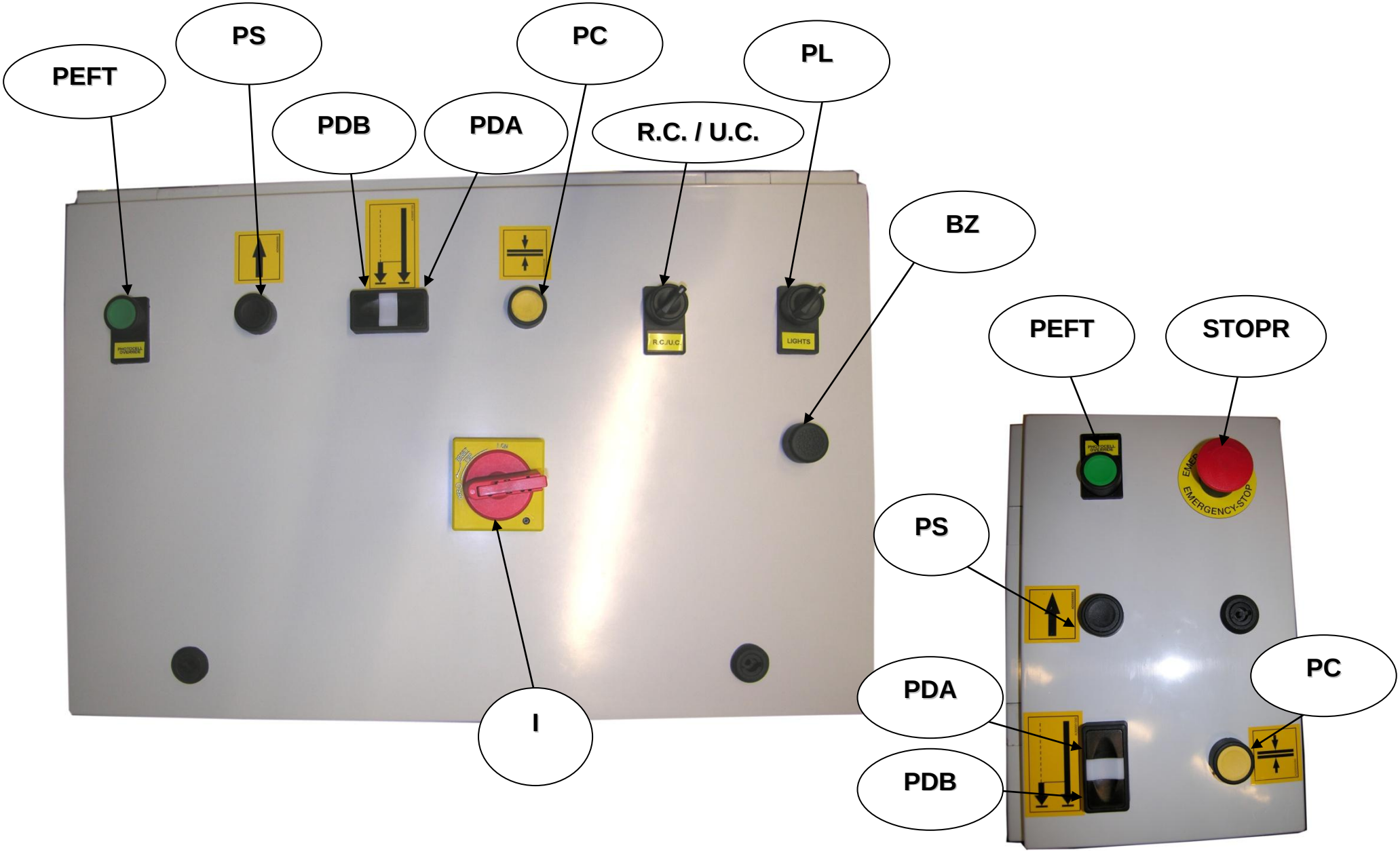
- USER/OWNER;
- SPECIALISED TECHNICIAN/EMPLOYER.

5.1. *Operation commands*

I	***SYSTEM MAIN SWITCH*** Activating this switch, the control panel in enable.
PS	***TABLE UP BUTTON*** Activating this switch, the vehicle lift begins lifting.
PDA **PDB**	***TABLE DOWN BUTTON:*** 1 By pressing the button **PDA**, the lift: a) Rises a little bit in order to unlock the mechanical locks. b) Starts the lowering. c) Stops when the platform height is about 500 mm from the ground. Press together the buttons **PDA** e **PDB** in order to end the last lowering phase ; the buzzer sounds (BZ).
PEFT	***CUT-OFF KEY SWITCH PHOTOCELLS:*** the tables are provided with photocells to check platform synchronisation positioned at the front and rear platform ends. If there is a difference in height of more than 50 mm, the photocells interrupt the electric circuit that powers the control unit (24 Volts). Use the PEFT key to exclude the photocells; in this case, by keeping the PEFT button turned it is also possible to perform the upstroke (PS) and downstroke operations (PD).

BZ	***BUZZER***
PL	***LIGHT SWITCH***
R.C. / U.C.	***SELECTOR REMOTE CONTROL / UNIT CONTROL***
PC	***PLACE IN MECHANICAL SAFETY CONDITIONS BUTTON:*** having been raised to the desired height using the button PS, press the PC button until the lift lowers on the nearest mechanical safety position
STOPR	***EMERGENCY BUTTON of REMOTE CONTROL*** Activating this switch, the vehicle lift stops.

The locks remain opened during the lowering


PEFT
PS
PDB
PDA
PC
R.C. / U.C.
PL
BZ
I
PEFT
STOPR
PS
PDA
PDB
PC

6. MAINTENANCE

Addressees:

- **A**: USER/OWNER;
- **B**: SPECIALISED TECHNICIAN/EMPLOYER.
- **NOTE: trained lift service personnel**

The lift organs, control and safety devices should be checked periodically by the user to assure ongoing efficiency.
All routine maintenance operation should be performed by trained staff operating in full safety.

- ***Maintenance to be performed only by trained lift service personnel.***
- ***Replace worn, damaged or broken parts with parts approved by the original equipment manufacturer or with parts meeting original manufacturer specifications.***

6.1. *Ordinary/extraordinary maintenance*

We recommend the following ordinary and extraordinary routine maintenance operations

CAUTION **Note: Before starting any maintenance on the lift, please ensure the lift system has been "lockout / tagout" as per ANSI Z244.1**

		WHO	WHERE	WHAT	MACHINE STATUS	HOW	TYPE OF GREASE	TYPE OF LUBRICANT
ORDINARY	DAILY	A	ON THE PLATFORM	PHOTOCELL	ON	MANUALY		
	80 h	A	UNDER BASE PLATFORM	SLIDERS (PAD)	OFF	GREASE	MOLYCOTE G-4700	
	80 h	B	PNEUMATIC CIRCUIT	CYLINDER - TUBE CONNECTIONS	IN MOTION	VISUAL INSPECTION		
	80 h	A	STRUCTURE	PINS AND SUPPORTS	OFF	LUBRICATE GREASE	MOLYCOTE G-4700	
	80 h	B	HYDRAULIC CIRCUIT	CYLINDER - TUBE CONNECTIONS	IN MOTION	VISUAL INSPECTION		
	MONTHLY	B	HYDRAULIC UNIT	PLATFORM LEVELLING	ON	FOLLOW PROCEDURE		
	3 months	A	STRUCTURE	PHOTOCELLS	IN MOTION	CHECK OF THE CORRECT WORKING		
EXTRAORDINARY	12 months	B	HYDRAULIC UNIT	TANK + FILTER	OFF	CHECK + CLEAN		
	24 months	B	HYDRAULIC UNIT	TANK	OFF	OIL CHANGE (if required by the oil dirt)		HYDROIL GF 46
	12 months	B	STRUCTURE	BUSHES	OFF	CHECK OF THE WEAR		
	12 months	B	ELECTRIC CIRCUIT	ELECTRIC SECURITIES	IN MOTION	CHECK OF THE CORRECT WORKING		
	12 months	B	STRUCTURE	SAFETY LOCKS	OFF	INTEGRITY CHECK		

LUBRICATION POINTS (repeat, on all 4 legs)

6.2. *Table adjustment procedures*

6.2.1. Maximum pressure valve calibration

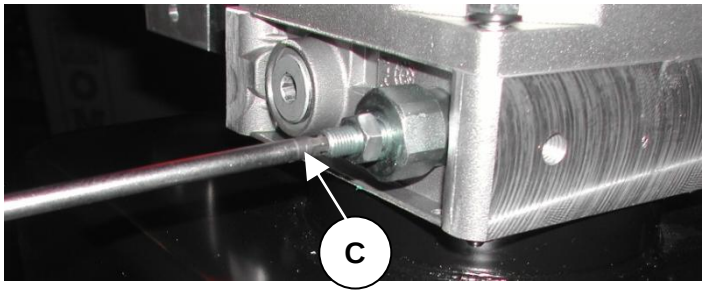
WARNING

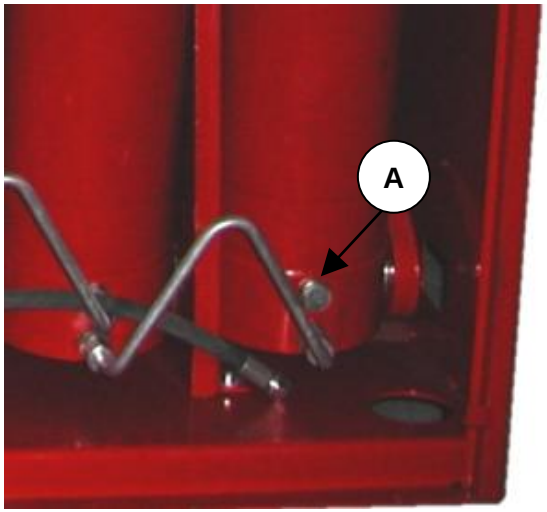
The calibration of the valve must be execute by specialized people and authorized by the manufacturer. After the calibration the valve must be sealed for example with sealing wax.

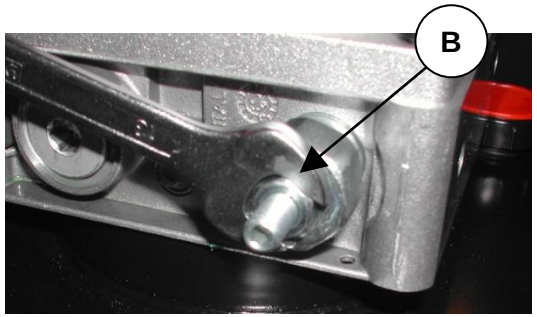
1) Take the table to maximum height.
2) Connect a pressure gauge to the output (part. A)
3) Loosen the nut by turning two revolutions anticlockwise (part. B)
4) Keeping the up command pressed, check the pressure on the pressure gauge.
5) Adjust pressure with a screwdriver: (part. C)
   Turn clockwise to increase calibration pressure
   Turn anticlockwise to reduce calibration pressure
6) When the pressure is equal to **P**, fix the loosened nut at point 3.

			psi
PRESSURE	**P**	**V-077-B**	4312

MAXIMUN OVERLOAD PRESSURE = 110% to OPERATING PRESSURE

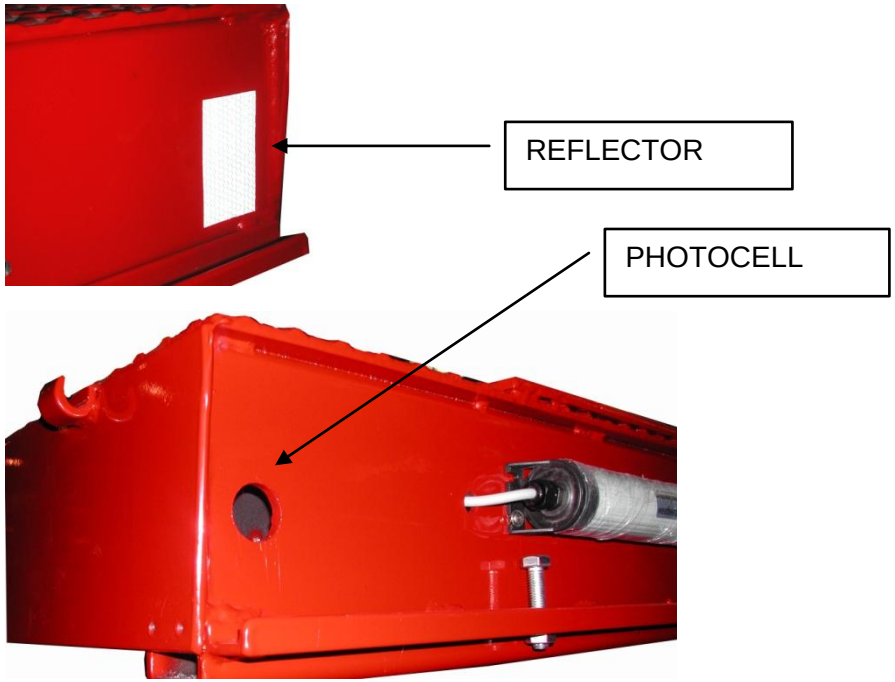






6.2.2. Photocell

6.2.2.1. Alignment



The alignment procedure of the photocells has to be carried out from specialized people and authorized from the manufacturer.

NORMAL STATUS	• RED LED ON
STOP STATUS	• RED LED OFF
POSITIONING CHECK	• with a sheet parallel to the catadiopter move downwards • check when the RED LED is switched off. • mark the position
	• with a sheet parallel to the catadiopter move upwards • check when the RED LED is switched off. d) mark the position
	e) the work field is between the two marks
	f) the lift's permitted operating field must be ±50mm.

6.2.2.2. Functioning test

Interrupt "photocells beam" using a matt object and check:

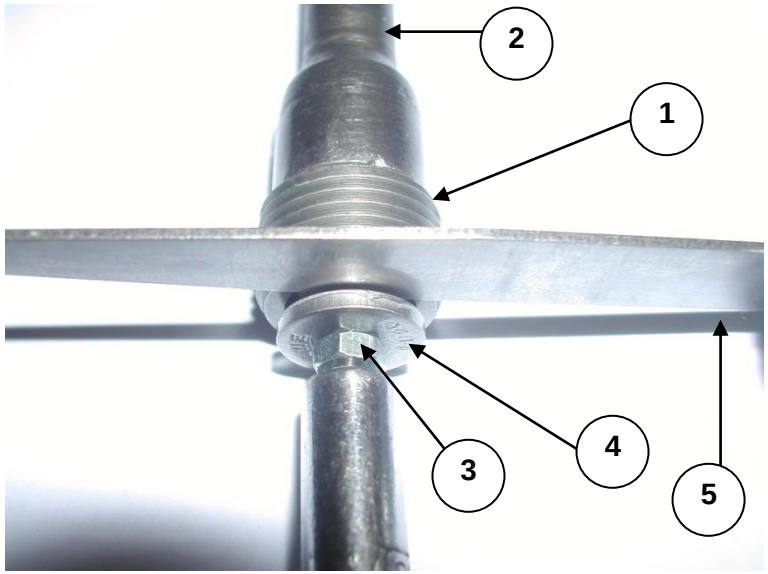
A	With vehicle lift stopped	The lift can be not activated from the control panel
B	With vehicle lift on the go	The lift movement has to stop

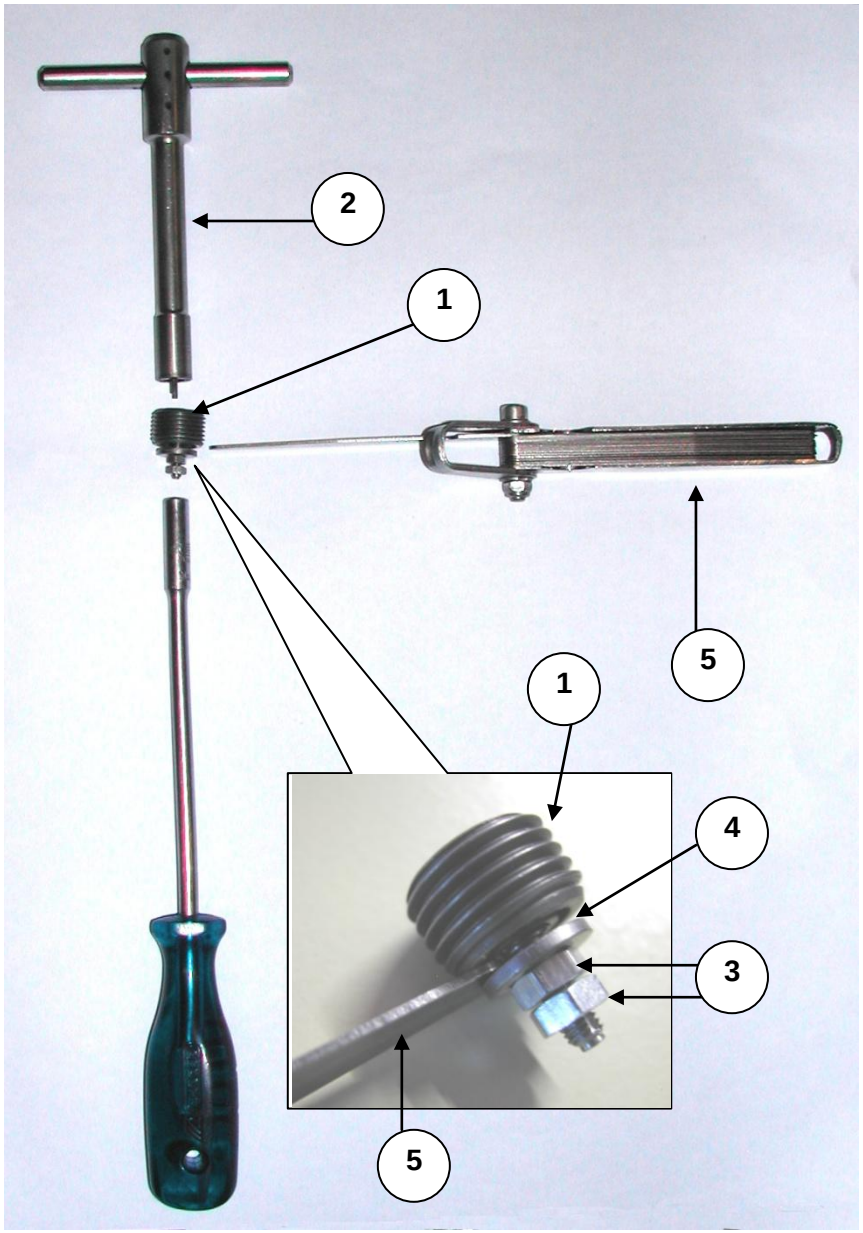
6.2.3. Parachute valve

The calibration of the valve must be execute by specialized people and authorized by the manufacturer.

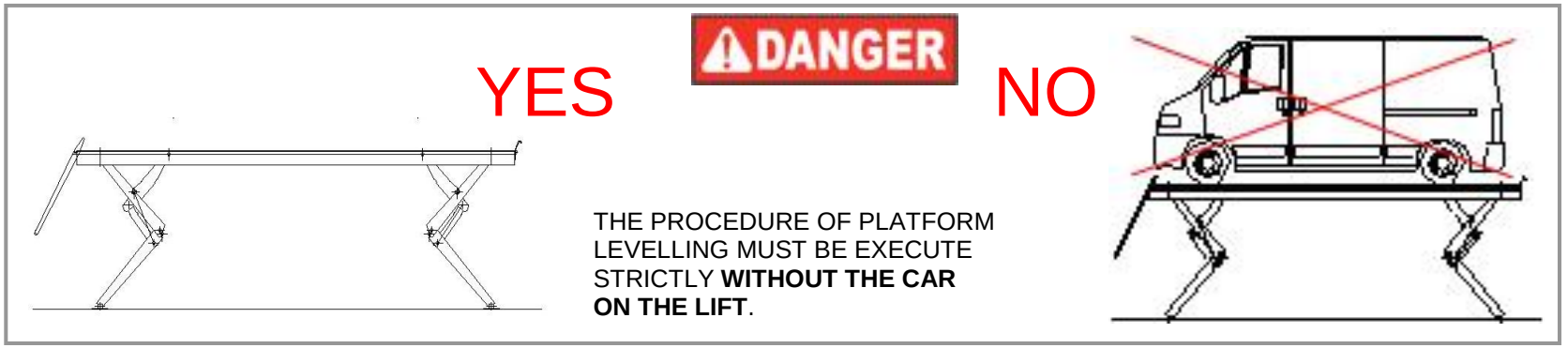
THE CALIBRATION DISTANCES MUST BE ESTABLISHED BY THE MANUFACTURER.

1. Remove the valve (1) on the bottom of the piston using the key provided (2)
2. Loosen the washer and lock nut (3) beneath the valve.
3. Move the plate of the valve (4) closer or further away as desired, checking the height with the dedicated thickness gauge (5).
4. Reassemble and test.

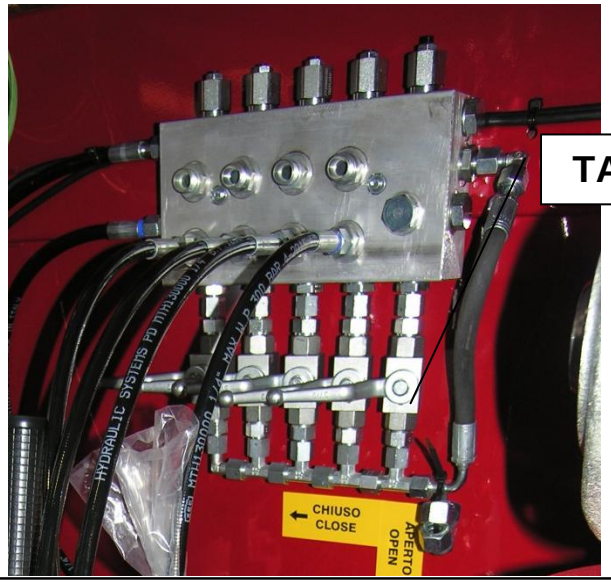


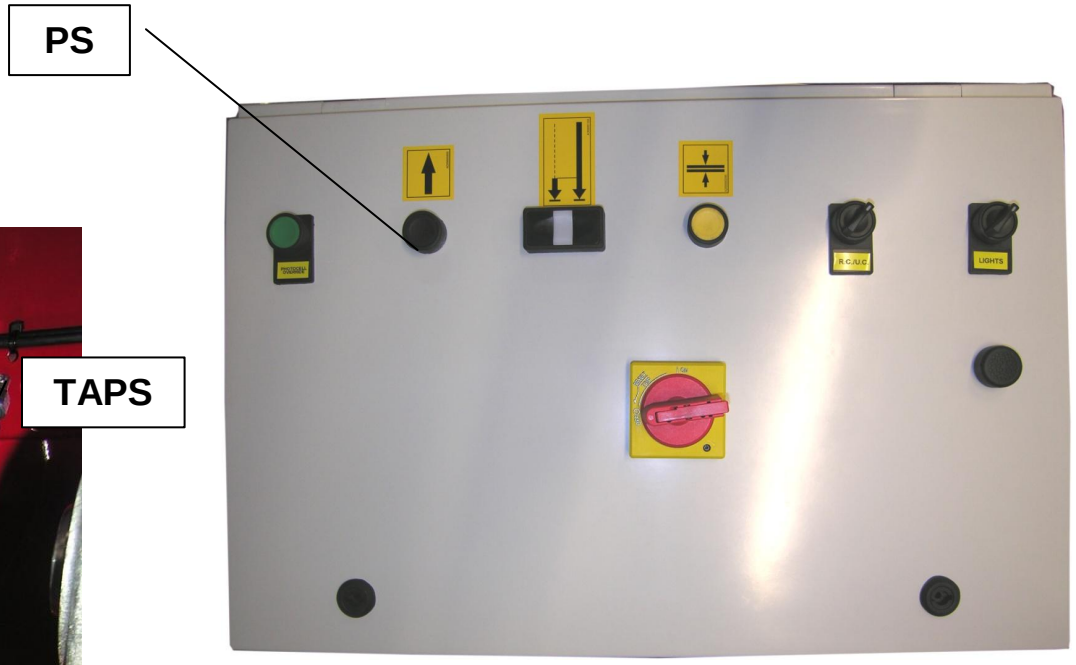


6.2.4. Platforms levelling



1 Lift using the bottom of " upward " PS till the max high.
2 Turn the taps on.
3 Push PS/UP
4 Turn the taps off





6.2.5. Unblocking safety locks

WARNING

The “unblocking procedure” has to be carried out from specialized people and authorized from the manufacturer.

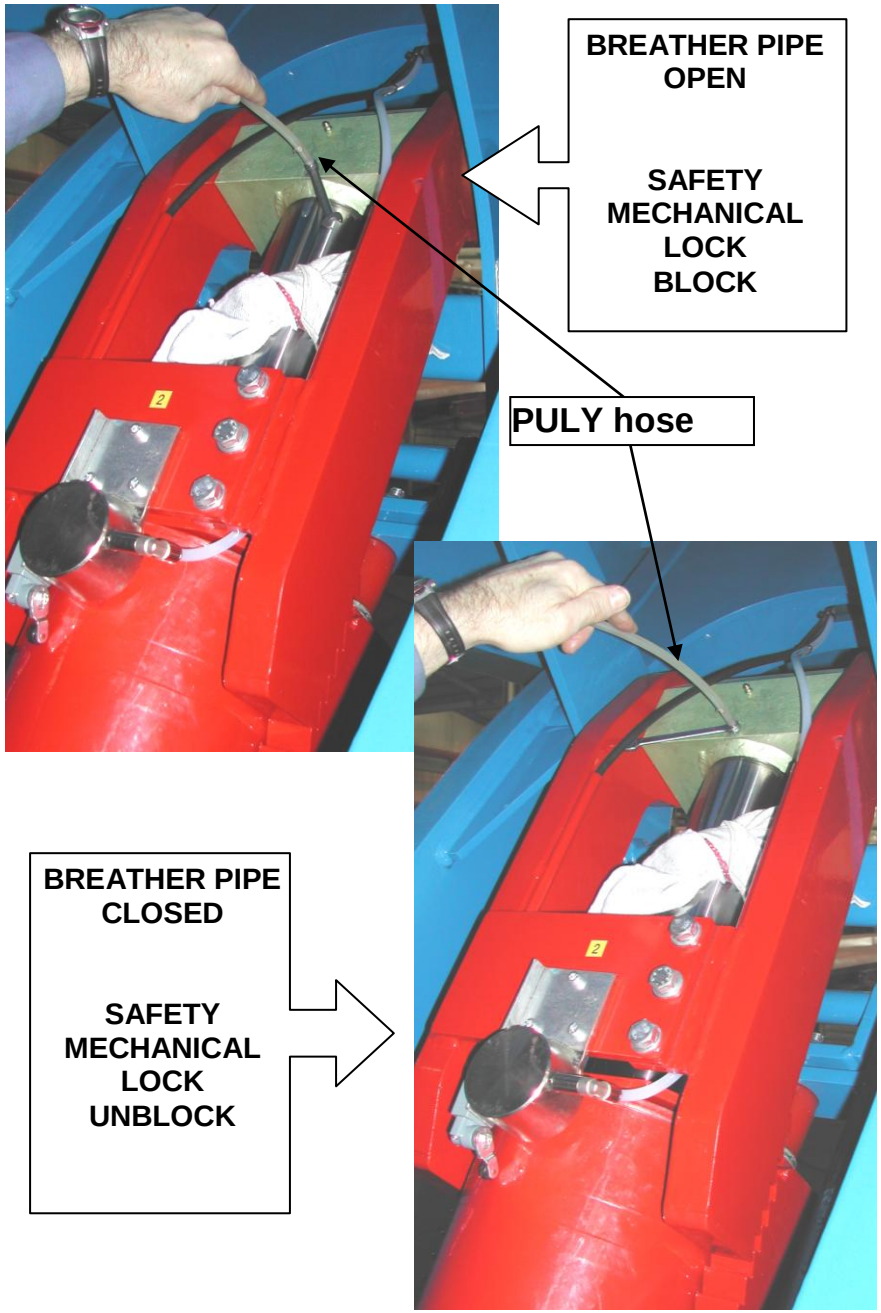
Procedure to be done, when a “safety lock” is in blocking position:

1. Open the feed valve of the slave circuirt of the involved cylinder
2. Activate the hand pump till when the “safety lock” is blocked
3. Close the “feed valve” of the slave circuit
4. Lower the lift
5. Discharge the loading
6. Fill the slave circuits.

6.2.6. Bleeding air from the volumetric circuit

To bleed the air from the circuit, proceed as follows:

1. Take the lift to its maximum height;
2. Connect breather pipe of the first slave cylinders to a tank using a flexible PULY hose;
3. Open the breather pipe a little send oil to the volumetric circuit using the dedicated switch.
4. Repeat the procedure for the other 3 cylinders.
5. Close the breather pipe;
6. Lower by about 0.5 m/18”;
7. Repeat this procedure at least 3 times until all the air has been eliminated from the circuit.



6.3. *EMERGENCY MANUAL LOWERING*

Addressees:

- **B**: SPECIALISED TECHNICIAN/EMPLOYER.

WARNING

WITH HAND PUMP
(accessory available on request)

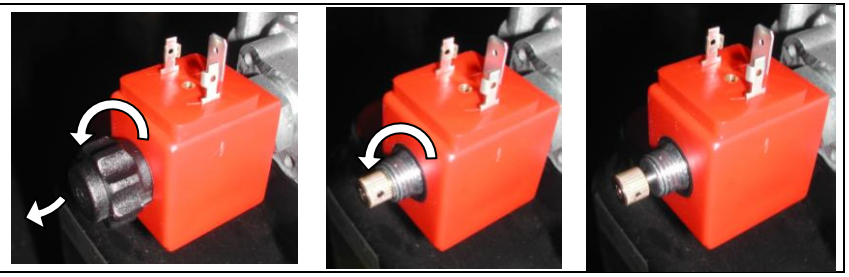
Operations to be performed to lower raised platform with vehicle on in the case of a blackout:

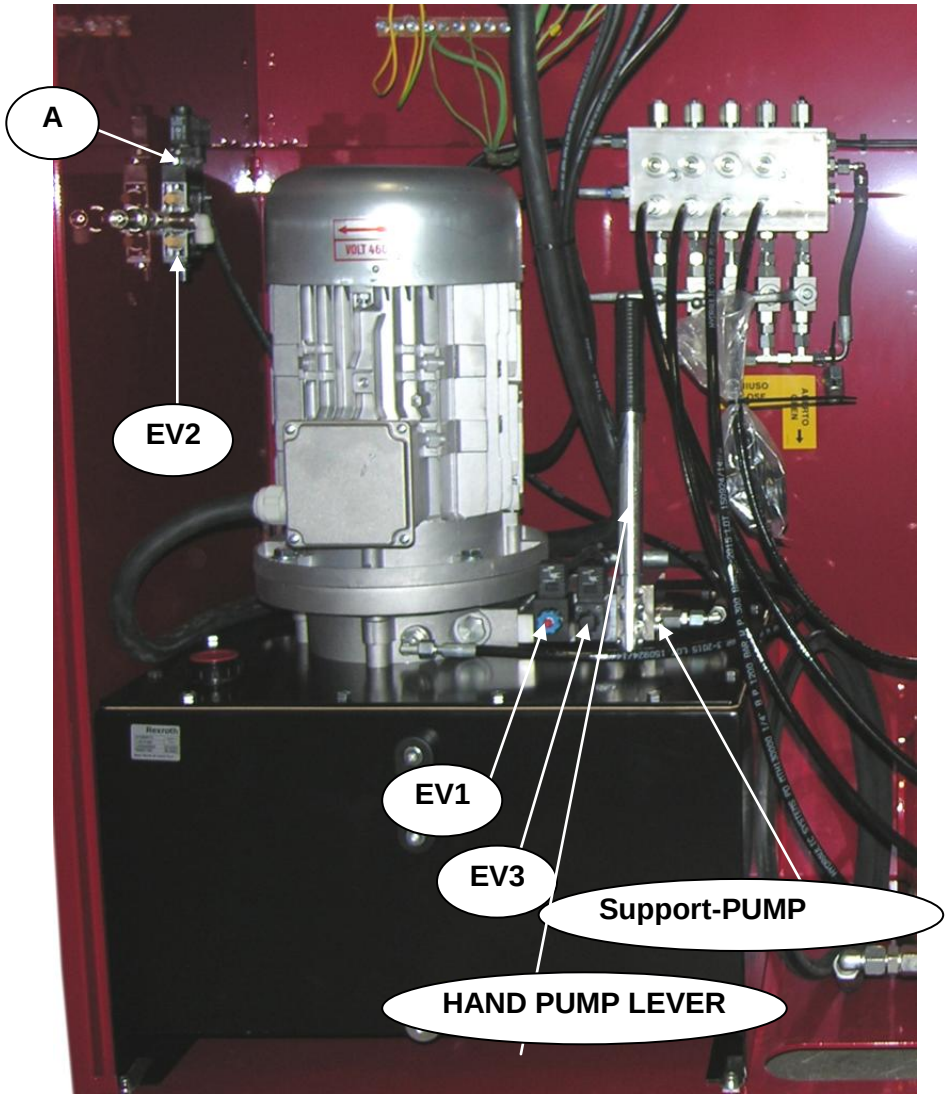
- insert the lever on the dedicated pump support;
- unscrew the lock nut on valve EV3, fully unscrew the knurled pin (see photograph) and allow the table to lower;
- pump until the safety jacks move away from the block position;
- activate jack opening using the dedicated manual valve on solenoid valve EV2 (turn screw **A** through 90°);

ENSURE THAT THE ALL 4 MECHANICAL SAFETY DEVICES ARE OPEN.

- unscrew the lock nut on valve EV1, fully unscrew the knurled pin (see photograph) and allow the table to lower;
- to restore, return the manual command of valve EV2 to its position and tighten the knurled pins.

EV1
EV3





6.4. *Abnormal operation*

WHAT HAPPENS	WHERE	CHECK
The lift does not rise and the motor does not start	a. FUSES b. THERMAL RELAY c. TRANSFORMER d. MOTOR e. CONTACTOR f. PHOTOCELLS	a.1. line fuse blown. a.2. 24-volt fuse blown. b.1. thermal relay tripped, re-cock. c.1. transformer burnt out, does not emit 24 volt. d.1. motor short-circuited or burnt out. e.1. contactor C1 burnt out f.1. photocell fault. f.2. photocells out of reading range
The lift does not rise and the motor starts.	a. HYDRAULIC PUMP b. DISCHARGE VALVE c. LIMIT VALVE d. MOTOR	a.1. o-ring seal broken. a.2. key broken. a.3. aspiration tube broken. a.4. clamping screws loose. a.5. check oil leakage. a.6. check the pressure value b.1. EV1 remains open. c.1.limit valve broken. d.1. Check that the motor turns in the direction shown by the arrow.
The lift does not lower and the pressure is normal.	a. PHOTOCELLS b. TRANSFORMER c. HYDRAULIC VALVE d. ELECTRIC VALVE e. MECHANICAL SAFETY DEVICES f. AIR VALVE	a.1. photocell fault. a.2. photocells out of reading range b.1. transformer burnt out, does not emit 24 volt. c.1. EV1 blocked. c.2. check the parachute valves on the bottom of the dual effect cylinders. d.1. EV1 24 V coil burnt out. e.1. mechanical safety devices mechanically blocked. f.1. EV2 air blocked (does not open the mechanical safety devices). f.2. EV2 requires power.
The lift rise not levelled	a. CYLINDERS b. VALVES	a.1. air in the circuit. a.2. seal wear: SLAVE and/or MASTER b.1. oil leak from the filling valves
Metallic noise	a. BUSHING	a.1. bushing wear
Raising intermittently	a. PINS	a.1. pins demage

6.5. . *Lift lockout/tagout procedure*

Purpose
This procedure establishes the minimum requirements for the lockout of energy that could cause injury to personnel by the operation of lifts in need of repair or being serviced. All employees shall comply with this procedure.

Responsibility

The responsibility for assuring that this procedure is followed is binding upon all employees and service personnel from outside service companies (i.e., Authorized Rotary Installers, contactors, etc.). All employees shall be instructed in the safety significance of the lockout procedure by the facility owner/manager. Each new or transferred employee along with visiting outside service personnel shall be instructed by the owner/manager (or assigned designee) in the purpose and use of the lockout procedure.

Preparation

Employees authorized to perform lockout shall ensure that the appropriate energy isolating device (i.e., circuit breaker, fuse, disconnect, etc.) is identified for the lift being locked out. Other such devices for other equipment may be located in close proximity of the appropriate energy isolating device. If the identity of the device is in question, see the shop supervisor for resolution. Assure that proper authorization is received prior to performing the lockout procedure.

Sequence of Lockout Procedure

1) Notify all affected employees that a lockout is being performed and the reason for it.
2) Unload the subject lift. Shut it down and assure the disconnect switch is “OFF” if one is provided on the lift.
3) The authorized lockout person operates the main energy isolation device removing power to the subject lift.
   - If this is a lockable device, the authorized lockout person places the assigned padlock on the device to prevent its unintentional reactivation. An appropriate tag is applied stating the person’s name, at least 3” x 6” in size, an easily noticeably color, and states not to operate device or remove tag.
   - If this device is a non-lockable circuit breaker or fuse, replace with a “dummy” device and tag it appropriately as mentioned above.
4) Attempt to operate lift to assure the lockout is working. Be sure to return any switches to the “OFF” position.
5) The equipment is now locked out and ready for the required maintenance or service.

Restoring Equipment to Service

1) Assure the work on the lift is complete and the area is clear of tools, vehicles, and personnel.
2) At this point, the authorized person can remove the lock (or dummy circuit breaker or fuse) & tag and activate then energy isolating device so that the lift may again be placed into operation.

Rules for Using Lockout Procedure

Use the Lockout Procedure whenever the lift is being repaired or serviced, waiting for repair when current operation could cause possible injury to personnel, or for any other situation when unintentional operation could injure personnel. No attempt shall be made to operate the lift when the energy isolating device is locked out.

7. ACCESSORIES

CODE	DESCRIPTION	PHOTOGRAPH
4033043500 4033043510	LIGHTING SYSTEM (LED) (only for standalone version)	
	SAFETY BARS	
	JACKING BEAMS Sliding on runways.	
	REMOTE CONTROL PANEL	
	RAMPS	

MOHAWK

Mohawk Lifts, LLC.
P.O. Box 11065 Vrooman Ave
Amsterdam, NY 12010
(800) 833-2006(518) 842-1431
FAX: (518) 842-1289
www.mohawklifts.com
service@mohawklifts.com

ELENCO RICAMBI
SPARE PARTS LIST
ERSATZTEILLISTE
LISTE PIECES DE RECHANGE
LISTA DE RECAMBIOS

V-077-B-X

X=23, 26, 30, 33, 36, 48

Noiselevels 70dB(A)

Versione - Version:
N

NRTL LISTED MET C US

I	**NORME PER LE ORDINAZIONI DEI RICAMBI**	Per ordinare dei ricambi si prega di: - fotocopiare - compilare - inviare via FAX o E-MAIL i seguenti moduli ❖ **RICHIESTA DATI ANAGRAFICI E FISCALI (allegato A)** (inviare solo per il primo ordine e per nuovi clienti); ❖ **MODULO D'ORDINE DI RICAMBI (allegato B)**
GB	**RULES FOR SPARE PARTS ORDERS**	To order spare parts please: - photocopy - fill out - send by fax or e-mail the following forms: ❖ **REQUEST FORM AND FISCAL DATES (attached document A)** (only for the first order and for new customers); ❖ **ORDER FORM FOR SPARE PARTS (attached document B)**
D	**VORSCHRIFT ZUR ERSATZTEILEBESTELLUNG**	Für Die Bestellung der Ersatzteilen wir bitten Sie den folgende Formulare - Zu fotokopieren - Aus zufüllen - Per fax oder E-Mail abzusenden ❖ **Anlage A: Formular für Personal -und Steuerdaten** ❖ **Anlage B: Formular für Ersatzteile Bestellung**
F	**COMMENT COMMANDER LES PIECES DE RECHANGE**	Pour commander les pièces de rechange nous vous prions de - Photocopier - Remplir - Envoyer par fax our e-mail Les suivantes formulaires : ❖ **Pièce jointe A : Formulaire données d'état civil et fiscal ;** ❖ **Pièce jointe B : Formulaire pour commander pièces de rechange**
E	**NORMAS PARA PEDIDOS DE REPUESTOS**	En caso de pedido de repuestos les rogamos de : - Fotocopiar - Llenar - Enviar por Fax o e-mail Los siguientes impresos: ❖ **Petición señas personales y fiscales (Anexo A)** (sólo para el primer pedido y para nuevos clientes) ❖ **Impreso Pedido de Repuestos (Anexo B)**

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GENERAL INDEX
ALL GEMEINVERZEICHNIS
INDEX GENERAL

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1a	SCHEMA PNEUMATICO	COMPRESSED AIR CIRCUIT DIAGRAM	PNEUMATISCHER SCHALTPLAN	SCHÉMA PNEUMATIQUE	ESQUEMA NEUMÁTICO
1b	IMPIANTO PNEUMATICO	COMPRESSED AIR SYSTEM	PNEUMATISCHER SCHALTPLAN	INSTALLATION PNEUMATIQUE	INSTALACIÓN NEUMÁTICA
2a	SCHEMA IDRAULICO	HYDRAULIC DIAGRAM	HYDRAULISCHER SCHALTPLAN	SCHÉMA HYDRAULIQUE	ESQUEMA HIDRÁULICO
2b	CENTRALE IDRAULICA	HYDRAULIC CONTROL UNIT	HYDRAULISCHES STEUERGERÄT	CENTRALE HYDRAULIQUE	CENTRAL HIDRÁULICA
3a	SCHEMA ELETTRICO	WIRING DIAGRAM	ELEKTRISCHER SCHALTPLAN	SCHÉMA ELECTRIQUE	ESQUEMA ELÉCTRICO
3b	LAYOUT UTENZE ELETTRICHE	ELECTRIC USERS LAYOUT	ELEKTRISCHE VERBRANCHER LAYOUT	LAYOUT ELECTRIQUE EMPLOI	
3c	QUADRO ELETTRICO	ELECTRIC BOX	SCHALTTAFEL	TABLEAU ELECTRIQUE	TABLERO ELÉCTRICO
4	GAMBA	LEG		JAMBE	
5	CORSIA	PLATFORM	FAHRBAHN	PLATEFORME	CAMINO DE RODADURA
5a	PROLUNGA (OPTIONAL)	EXTENSION (OPTIONAL)	VERLAENGERUNG (OPTIONAL)	EXTENSION (OPTIONAL)	PROLUNGACIÒN (OPTIONAL)
6	CILINDRO DI SOLLEVAMENTO SLAVE	SLAVE LIFTING	CYLINDER HUBZYLINDER SLAVE	CYLINDRE D'ELEVATION SLAVE	CILINDRO DE ELEVACIÓN SLAVE
8	DIVISORE DI FLUSSO	FLOW DIVIDER	FLUßREGLER	DIVISEUR	
9	CILINDRO MASTER DEL DIVISORE	DIVIDER MASTER CYLINDER	ZYLINDER MASTER	CYLINDRE MASTER	CILINDRO MASTER
10	ASTE DI SICUREZZA (OPTIONAL)	SAFETY BAR (OPTIONAL)			

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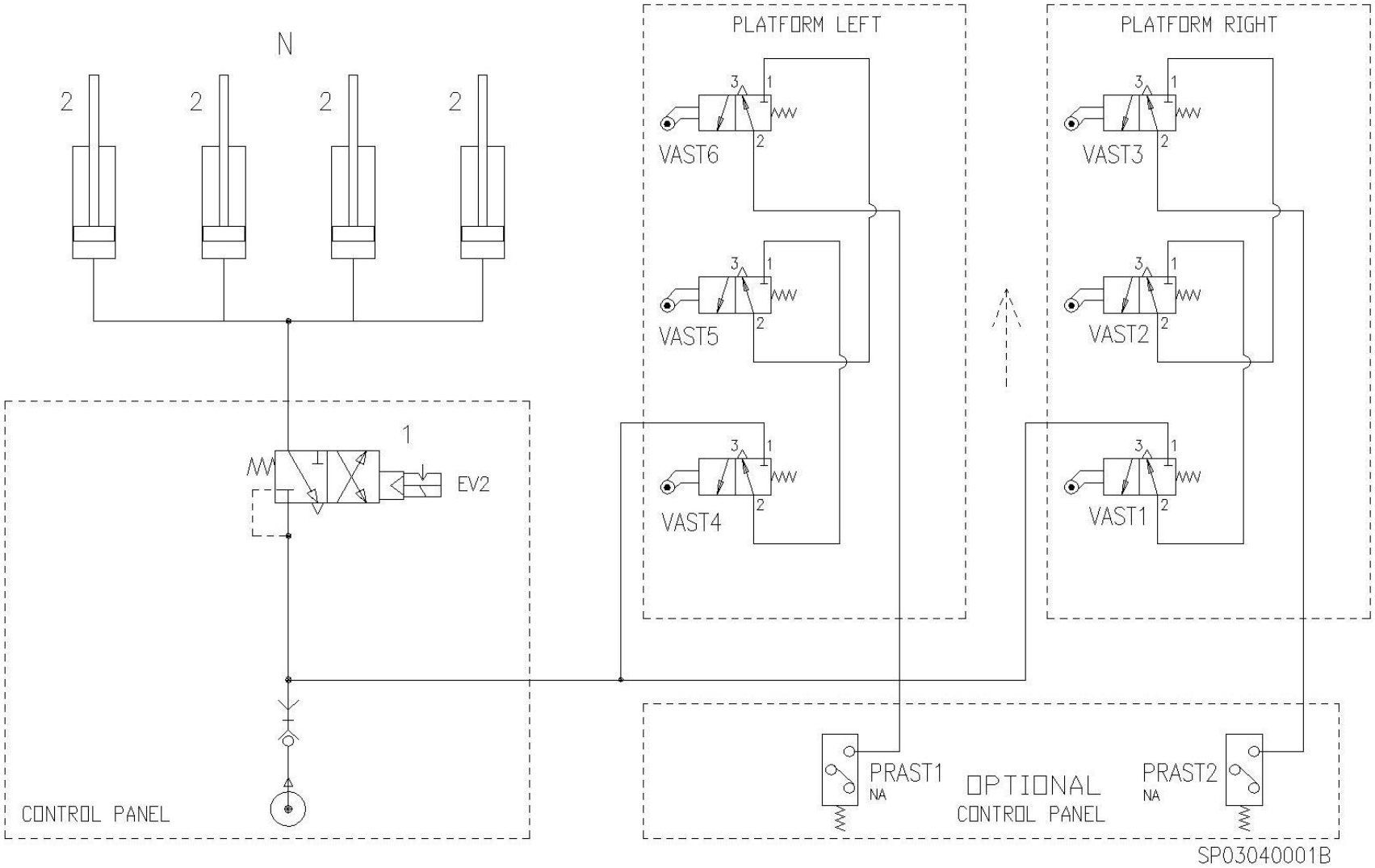
1a

SCHEMA PNEUMATICO
COMPRESSED AIR CIRCUIT DIAGRAM
PNEUMATISCHER SCHALTPLAN
SCHÉMA PNEUMATIQUE
ESQUEMA NEUMÁTICO



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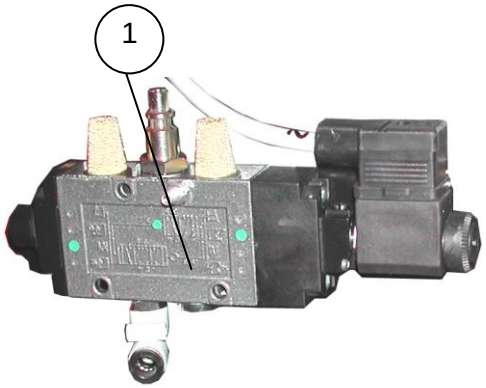
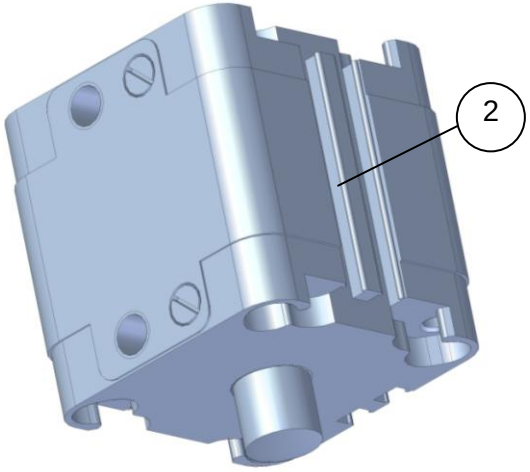
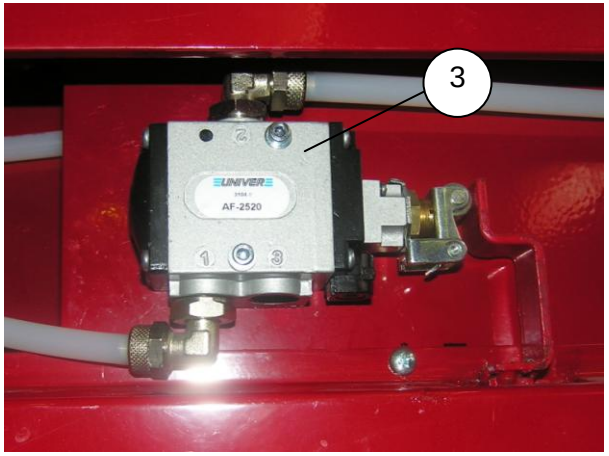
1b

IMPIANTO PNEUMATICO
COMPRESSED AIR SYSTEM
PNEUMATISCHER SCHALTPLAN
INSTALLATION PNEUMATIQUE
INSTALACIÓN NEUMÁTICA







Rif. Ref.	Sigla Abbr.	Descrizione	Description	Beschreibung	Description	Descripción	Q.tà Q.ty	Codice Code
1	EV2	Elettrovalvola per sicurezze meccaniche	Solenoid valve for mechanical safety devices	Elektroventil für Sicherheitsvorrichtungen	Electrovalve pour sécurités mécaniques	Electroválvula para seguros mecánicos	1	1281320020
2		Cilindro (sicurezze meccaniche su cilindri di sollevamento)	Cylinders (mechanical safety devices on lifting cylinders)	Zylinder (mechanische Sicherungen auf Hubzylindern)	Cylindre (sécurités mécaniques sur cylindres d'élévation)	Cilindro (seguros mecánicos sobre los cilindros de elevación)	2	Tavola 7 Table 7
	N	Corsia normale (non accessoriata)	Normal platform (unequipped)	Normale Fahrbahn (kein Zubehör)	Plate-forme base (sans accessoires)	Camino de rodadura normal (sin accessorios)	/	/
3	VAST 1-6	Valvola pneumatica	Pneumatic valve	Pneumatischer ventil	Vanne pneumatique	Válvula neumàtica	6	1271120000
4	PRAST 1-2	Pressostato pneumatico	Pneumatic pressure switch	Pneumatischer druckschalter	Pressostat pneumatique	Presostato neumàtico	2	1211110000

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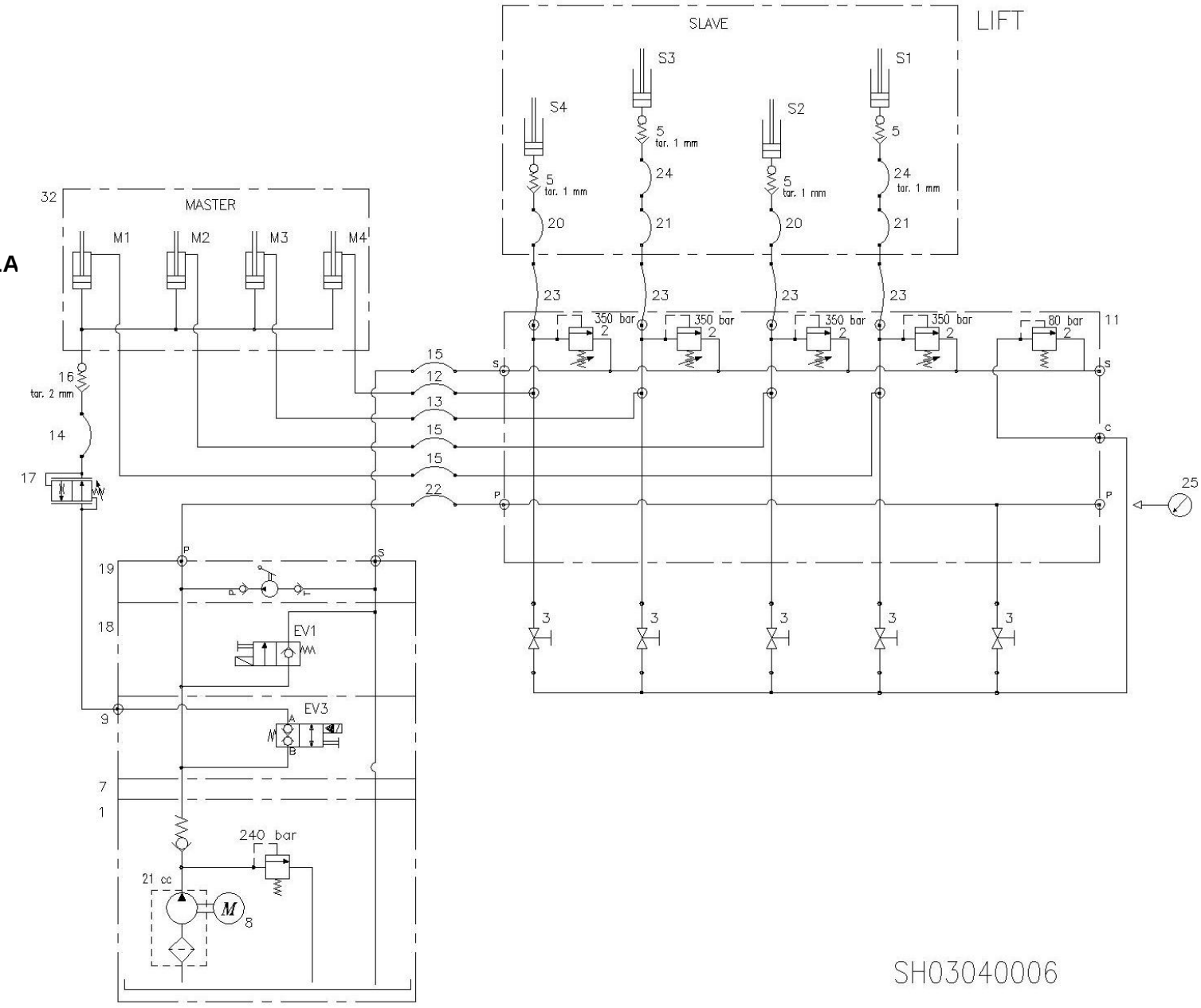
2a

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM
HYDRAULISCHER SCHALTPLA
SCHÉMA HYDRAULIQUE
ESQUEMA HIDRÁULICO



Sigla Abbreviation	Descrizione	Description	Beschreibung	Description	Descripción	Tavola Table
M	Motore elettrico	Electric motor	Elektromotor	Moteur électrique	Motor eléctrico	2
EV1	Elettrovalvola discesa sollevatore	Downstroke command solenoid valve	Elektroventil für Abfahrt	Electrovalve de commande abaissement	Electroválvula de control de la bajada	2
EV3	Elettrovalvola salita/discesa	Up/down solenoid valve	Elektroventil für Auf-/Abfahrt	Electrovalve élévation/abaissement	Electroválvula subida/bajada	2
M1 M2 M3 M4	Pistoni MASTER	MASTER pistons	Kolben MASTER	Pistons MASTER	Pistones MASTER	8
S1 S2 S3 S4	Pistoni SLAVE	SLAVE pistons	Kolben SLAVE	Pistons SLAVE	Pistones SLAVE	6

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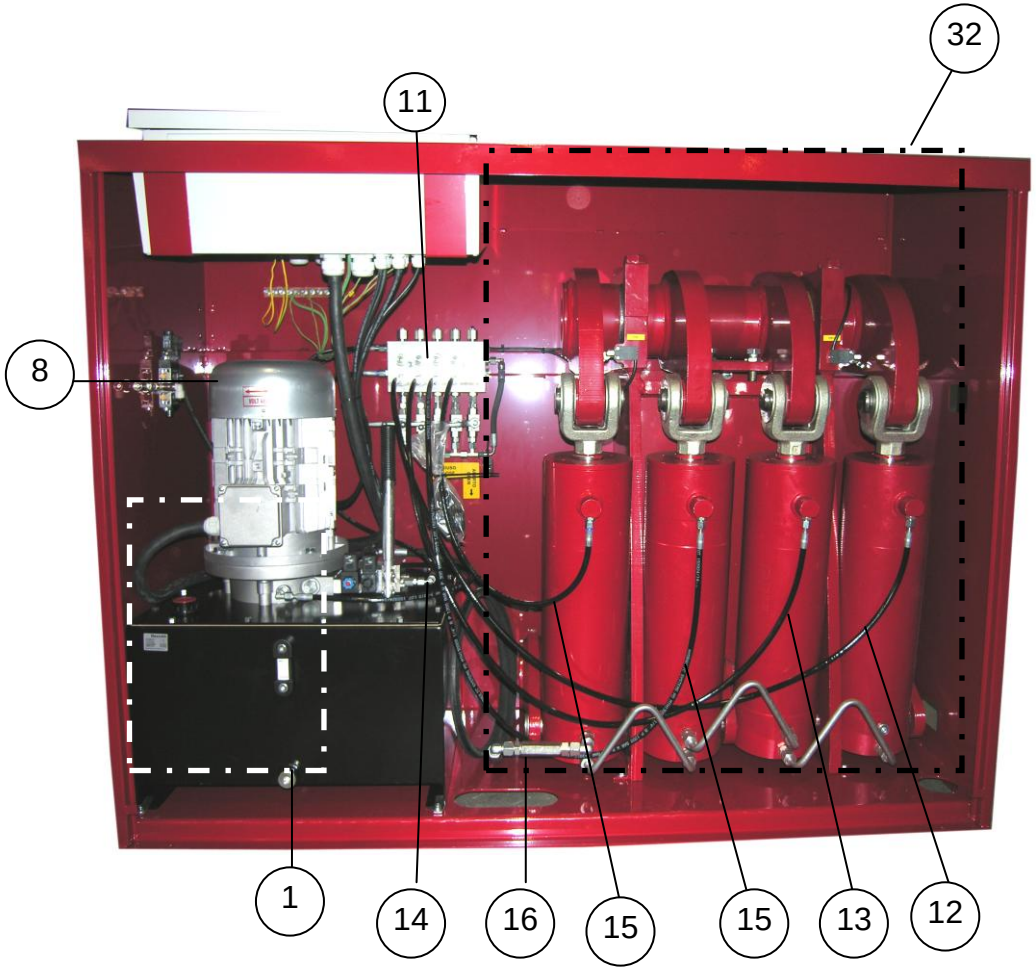
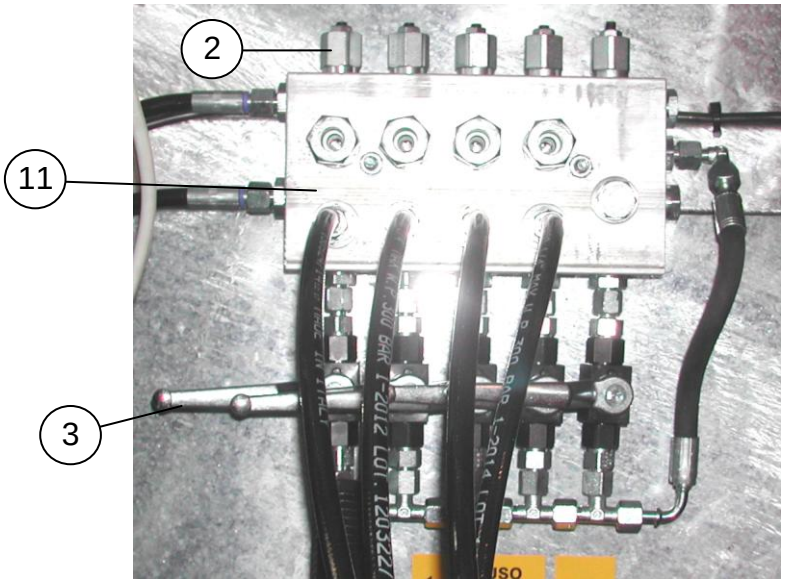
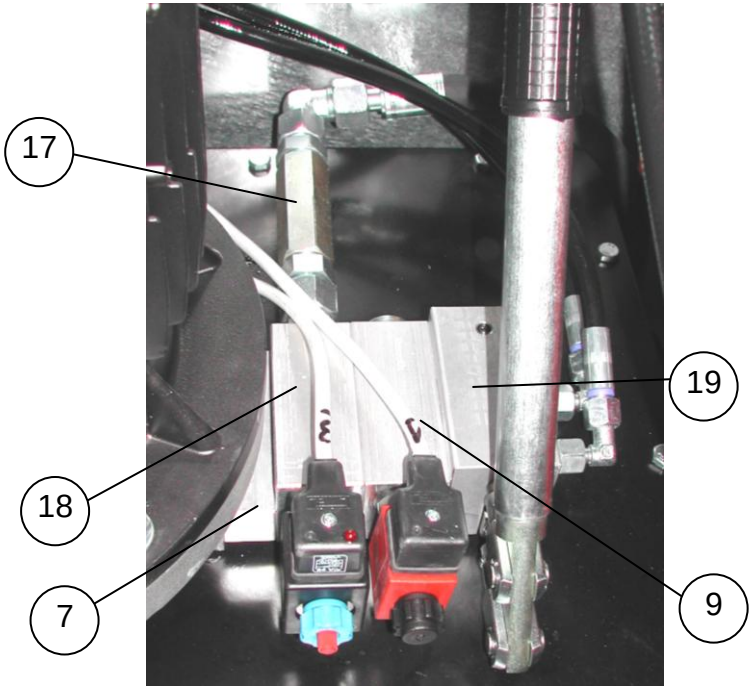
CENTRALE IDRAULICA
HYDRAULIC CONTROL UNIT
HYDRAULISCHES STEUERGERÄT
CENTRALE HYDRAULIQUE
CENTRAL HIDRÁULICA







Pos.	Sigla Abbr.	Descrizione	Description	Beschreibung	Description	Descripción	Tipo Type	Q.tà Q.ty	Codice Code	Q.tà ricambi raccomandati Q.ty recommended spare parts
1		Centralina completa	Complete control unit		Consolle equippée	Centralita completa		1	1120141620	
2		Valvola	Valve	Ventil	Vanne	Válvula	VMC1	5	1120160100	
3		Rubinetto	Cock	Faßzapfen	Coq	Espita	1 VIA BKHR14	5	1251120000	
5		Valvola di blocco automatico	Stop valve	Winkelstück	Vanne de blocage	Válvula de bloque		4	TAV.6 TAB.6	
7		Blocchetto idraulico	Hydraulic block	Hydraulikblock Aggregat	le bloc de jonction hydraulique	Bloqueo idraulico	DISTANZIALE - SPACER	1	1281061007	
8	M	Motore elettrico	Electric motor	Elektromotor	Moteur électrique	Motor eléctrico		1		
9	EV1	Blocchetto idraulico	Hydraulic block	Hydraulikblock Aggregat	le bloc de jonction hydraulique	Bloqueo idraulico	V191 + VALVOLA-VALVE	1	1281490150+ 1281180001	
11		Blocco per divisore	Divisor block					1	3036805965	
12		Tubo flex	Flex hose	Flexschlauch	Tube flexible	Tubo flex		1		
13		Tubo flex	Flex hose	Flexschlauch	Tube flexible	Tubo flex		1		
14		Tubo flex	Flex hose	Flexschlauch	Tube flexible	Tubo flex		1		
15		Tubo flex	Flex hose	Flexschlauch	Tube flexible	Tubo flex		3		
16		Valvola	Valve	Ventil	Vanne	Válvula	½" VBA	1	1281220009	
17		Valvola regolatrice di flusso	Flow regulating valve	Durchflussventil	Vanne de regulation du débit	Vàlvula regulación de flujo	28/37	1	1281000100	
18	EV3	Blocchetto idraulico	Hydraulic block	Hydraulikblock Aggregat	le bloc de jonction hydraulique	Bloqueo idraulico	V115 + VALVOLA-VALVE	1	1281490100+ 1901901901	
19		Pompa a mano	Hand pump	Handpumpe	Pompe à main	Bomba manual		1	1120109010	
23		Tubo flex	Flex hose	Flexschlauch	Tube flexible	Tubo flex		4	1201788000	
25		Manometro (a richiesta)	Pressure gauge (as option)	Drunckmesser (auf Anfrage)	Manométre (option)	Manómetro (opcional)	OPTIONAL	1		
32		Divisore di flusso completo	Flow divisor					1	TAV.7 TAB.7	
	M1-M2 M3-M4	Pistoni MASTER	MASTER pistons	Kolben MASTER	Pistons MASTER	Pistones MASTER			TAV.8 TAB.8	
	S1-S2 S3-S4	Pistoni SLAVE	SLAVE pistons	Kolben SLAVE	Pistons SLAVE	Pistones SLAVE			TAV.6 TAB.6	

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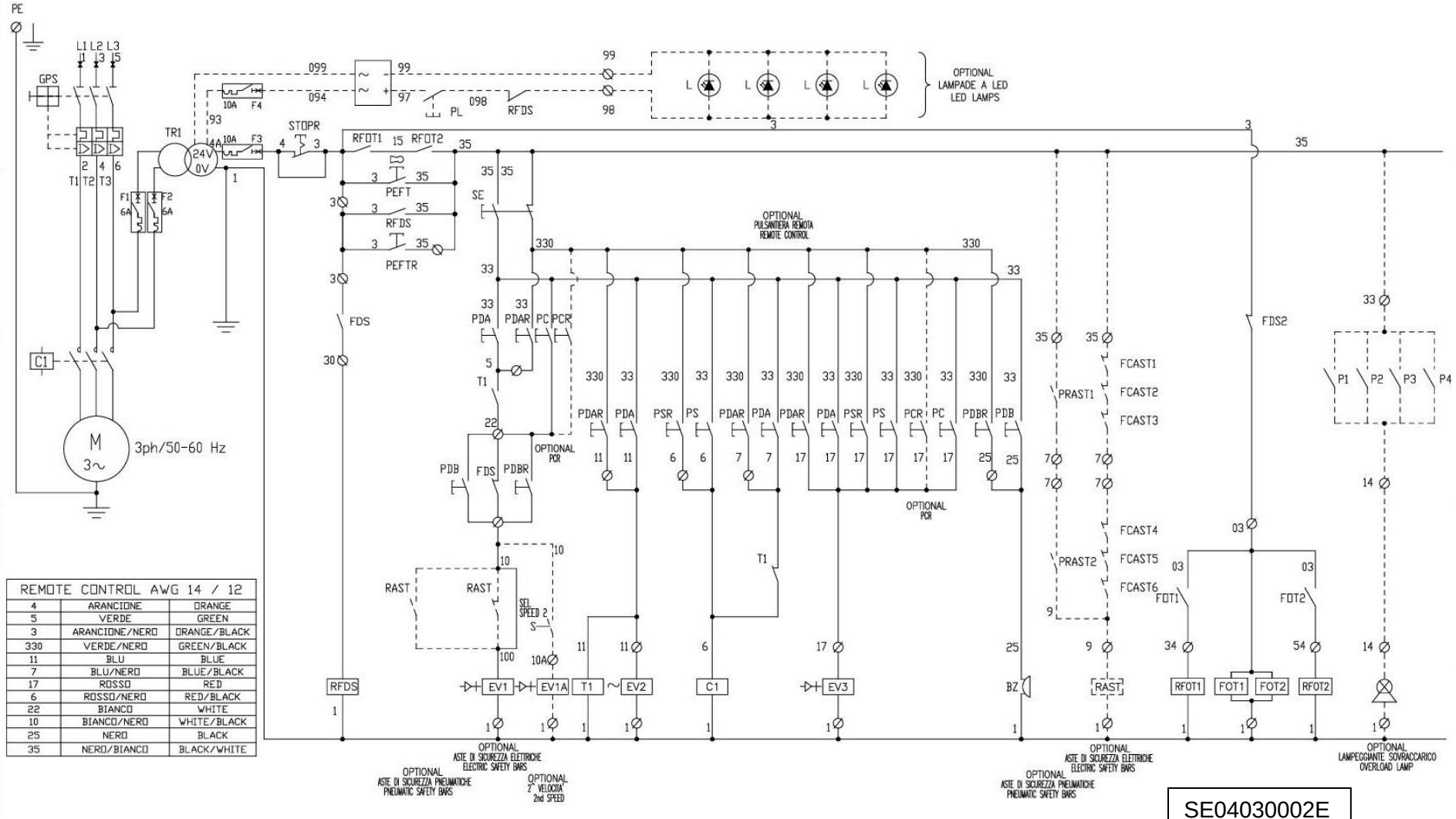
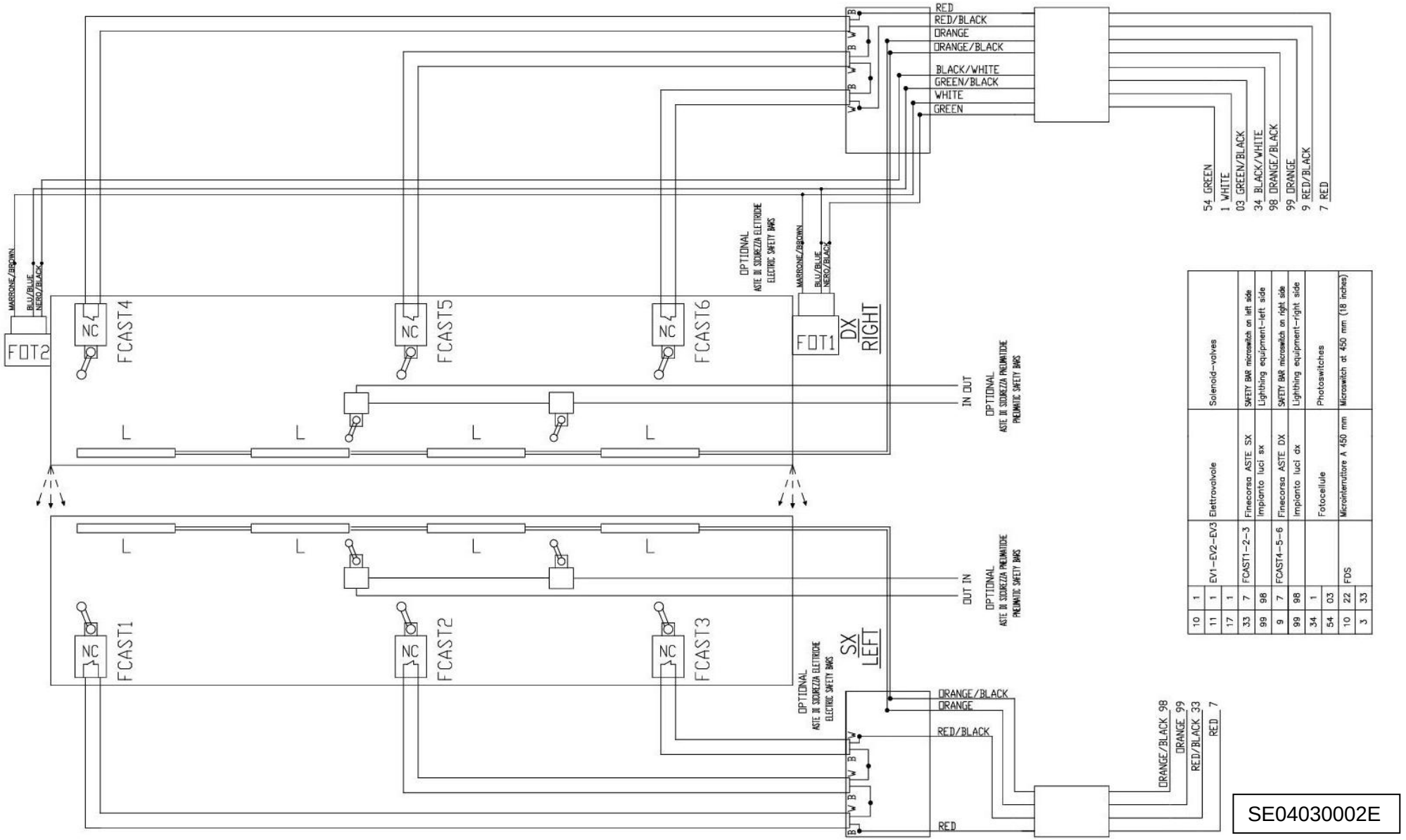
3a

SCHEMA ELETTRICO
WIRING DIAGRAM
ELEKTRISCHER SCHALTPLAN
SCHÉMA ELECTRIQUE
ESQUEMA ELÉCTRICO



REMOTE CONTROL AWG 14 / 12		
4	ARANCIONE	ORANGE
5	VERDE	GREEN
3	ARANCIONE/NERO	ORANGE/BLACK
330	VERDE/NERO	GREEN/BLACK
11	BLU	BLUE
7	BLU/NERO	BLUE/BLACK
17	ROSSO	RED
6	ROSSO/NERO	RED/BLACK
22	BIANCO	WHITE
10	BIANCO/NERO	WHITE/BLACK
25	NERO	BLACK
35	NERO/BIANCO	BLACK/WHITE

SE04030002E



10	1				
11	1	EV1–EV2–EV3	Elettrovalvole	Solenoid-valves	
17	1				
33	7	FCAST1–2–3	Finecorsa ASTE SX	SAFETY BAR microswitch on left side	
99	98		Impianto luci sx	Lighthing equipment-left side	
9	7	FCAST4–5–6	Finecorsa ASTE DX	SAFETY BAR microswitch on right side	
99	98		Impianto luci dx	Lighthing equipment-right side	
34	1		Fotocellule	Photoswitches	
54	03				
10	22	FDS	Microinterruttore A 450 mm	Microswitch at 450 mm (18 inches)	
3	33				

SE04030002E

Sigla Abbr.	Descrizione	Description	Beschreibung	Description	Descripción		Tavola Table
GPS	Interruttore generale	Main switch	Hauptschalter	Interrupteur général	Interruptor general		3c
PS	Pulsante salita ponte	Table up button	Taste für Auffahrt der Hebebühne	Bouton élévation pont	Botón subida puente		3c
PSR	Pulsante salita ponte	Table up button	Taste für Auffahrt der Hebebühne	Bouton élévation pont	Botón subida puente	PULSANTIERA REMOTA REMOTE CONTROL	OPT.
PDA PDB	Pulsante discesa ponte	Table down button	Taste für Abfahrt der Hebebühne	Bouton abaissement pont	Botón bajada puente		3c
PDAR PDBR	Pulsante discesa ponte	Table down button	Taste für Abfahrt der Hebebühne	Bouton abaissement pont	Botón bajada puente	PULSANTIERA REMOTA REMOTE CONTROL	OPT.
BZ	Cicalino	Buzzer	Summer	Avertisseur sonore	Zumbador		3c
PEFT	Interruttore esclusione fotocellule (chiave)	Photocell cutoff switch (key)	Schalter für Ausschluss der Photozellen (Schlüssel)	Interrupteur exclusion photocellules (clé)	Interruptor exclusión fotocélulas (llave)		3c
RFOT1 RFOT2	Relè ausiliari per fotocellule	Auxiliary relay for photocells	Hilfsrelais für Photozellen	Relais auxiliaires pour photocellules	Relés auxiliarios para fotocélulas		3c
PL	Interruttore comando luci	Light control switch	Lichtschalter	Interrupteur commande éclairage	Interruptor control luces		3c
TR1	Trasformatore	Transformer	Trafo	Transformateur	Transformador		3c
T1	Temporizzatore	Timer	Zeitgeber	Temporisateur	Temporizador		3c
L	Lampada su corsia	Platform lamp	Plattformbeleuchtung	Lampe sur plate-forme	Bombilla sobre camino de rodadura		3b
M	Motore elettrico	Electric motor	Elektromotor	Moteur électrique	Motor eléctrico		2
EV1	Elettrovalvola comando discesa	Lowering control solenoid valve	Elektroventil für Abfahrt	Electrovalve de commande abaissement	Electroválvula de control de la bajada		2
EV1A	Elettrovalvola comando discesa	Lowering control solenoid valve	Elektroventil für Abfahrt	Electrovalve de commande abaissement	Electroválvula de control de la bajada	2^ VELOCITA' 2nd SPEED	OPT.
EV2	Elettrovalvole comando sicurezze meccaniche	Mechanical safety control solenoid valves	Solenoidventil	Electrovanne	Electroválvula		1

Sigla Abbr.	Descrizione	Description	Beschreibung	Description	Descripción		Tavola Table
EV3	Elettrovalvola salita/discesa	Up/down solenoid valve	Elektroventil für Auf-/Abfahrt	Electrovalve élévation/abaissement	Electroválvula subida/bajada		2
C1	Contattore	Contactor	Schütz	Contacteur	Contactor		3c
FOT1 FOT2	Fotocellule	Photocells	Photozelle	Photocellule	Fotocélula		3b
F1-F2-F3-F4	Interruttore magnetotermico	Magnetothermic switch	Magnetotermisch Schalter	Interupteur thermomagnatique	Interuptor magneto térmico		3c
FDS	Finecorsa discesa	Lowering microswitch	Endschalter	Fin de course	Final de carrera		3b
FDS2	Finecorsa discesa	Lowering microswitch	Endschalter	Fin de course	Final de carrera		
FCAST1-6	Finecorsa per aste di sicurezza	Safety bars microswitch	Mikroschalter für Sicherheitsleiste	Microcontact pour tiges de sécurité	Micro para asta se seguridad		OPT.
RAST	Relè	Relay	Relais	Relais	Relé		OPT.
SE R.C / U.C.	Selettore	Switch	Schalter			PULSANTIERA REMOTA REMOTE CONTROL	OPT.
SEL SPEED 2	Selettore	Switch	Schalter			2^ VELOCITA' 2nd SPEED	OPT.
PRAST1 PRAST2	Pressostato pneumatico	Mechanical pressure switch	Mechanischer druckschalter	Pressostat pneumatique	Presostato neumàtico	ASTE PNEUMATICHE PNEUMATIC BARS	OPT.
PC	Pulsante sicurezze meccaniche	Safety devices switch	Druckknopf mechanische Sicherhaiten	Poussoir mise en sécurité mécanique	Interruptor control seguridad mecànica		
PCR	Pulsante sicurezze meccaniche	Safety devices switch	Druckknopf mechanische Sicherhaiten	Poussoir mise en sécurité mécanique	Interruptor control seguridad mecànica	PULSANTIERA REMOTA REMOTE CONTROL	OPT.
STOPR	Pulsante STOP d'emergenza	Emergency STOP button	STOP Not-Aus-Schalter	Poussoir STOP d'émergence	Botón STOP emergencia	PULSANTIERA REMOTA REMOTE CONTROL	OPT.
P1-P2-P3-P4	Pressostato	Mechanical pressure switch					OPT.

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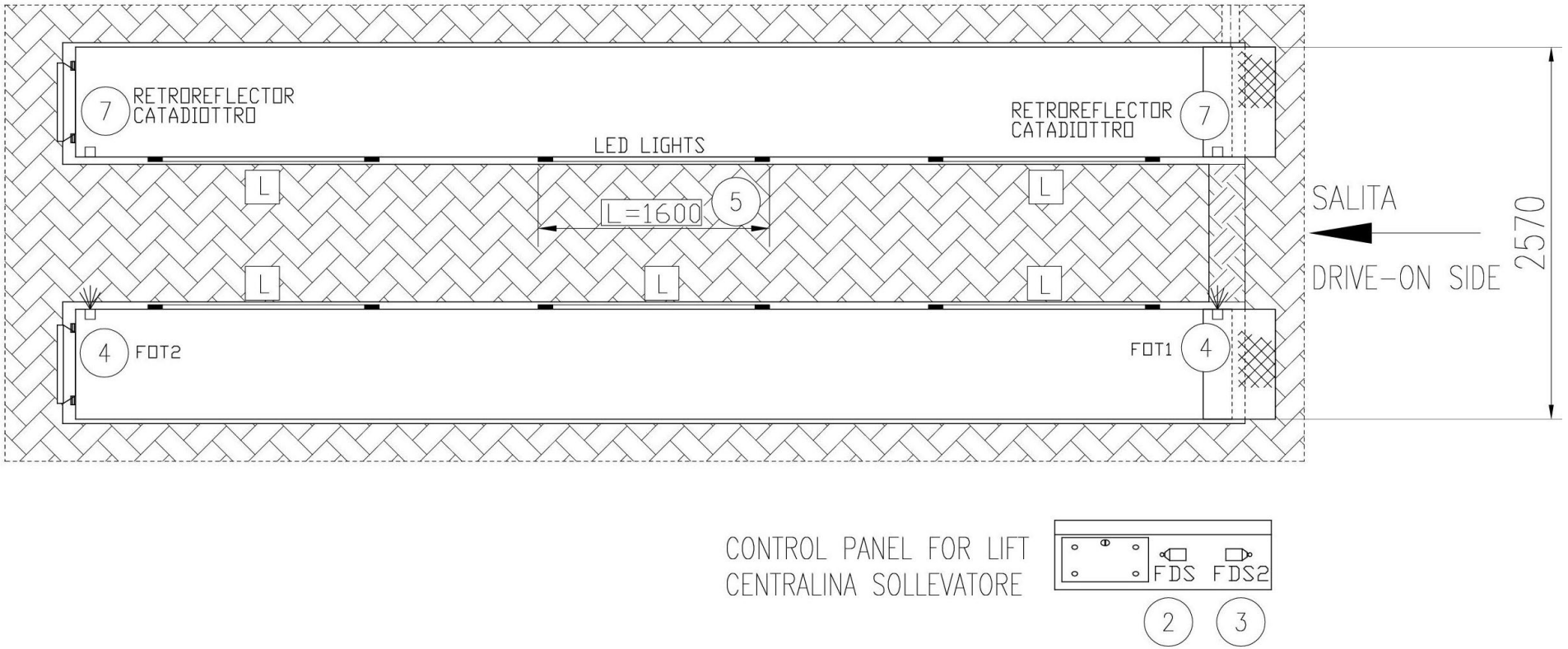
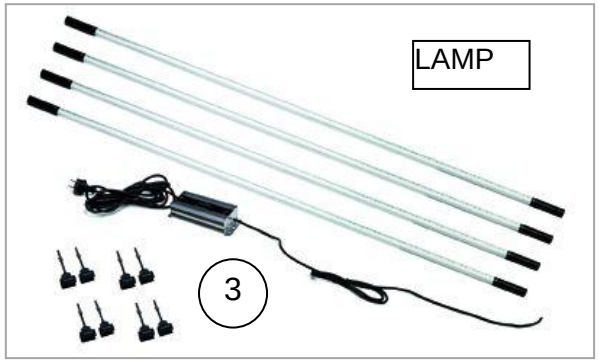
3b

LAYOUT UTENZE ELETTRICHE
ELECTRIC USERS LAYOUT



Pos.	Sigla Abbr.	Descrizione	Description	Beschreibung	Description	Descripción	Q.tà / Q.ty	Codice / Code
1	FOT 1 FOT 2	Fotocellule	Photocell	Photozelle	Cellule photoélectrique	Fotocélula	2	1552160000
2		Catadiottro	Retroreflector	Rückstrahler	Catadioptre		2	1552140000
3	LAMP	Lampada	Lamp	Lampe	Lampe	Luz	KIT LED	**N°6**: 4033043500 (L<10000 mm) **N°8**: 4033043510 (L>=12000 mm) **N°10**:4033043520 (L>=13000)
4	FDS	Finecorsa discesa	Downstroke microswitch	Endschalter	Fin de course	Final de carrera	1	1401560000
5	FDS2	Finecorsa esclusione fotocellule	Photocell microswitch	Endschalter	Fin de course	Final de carrera	1	1401560000

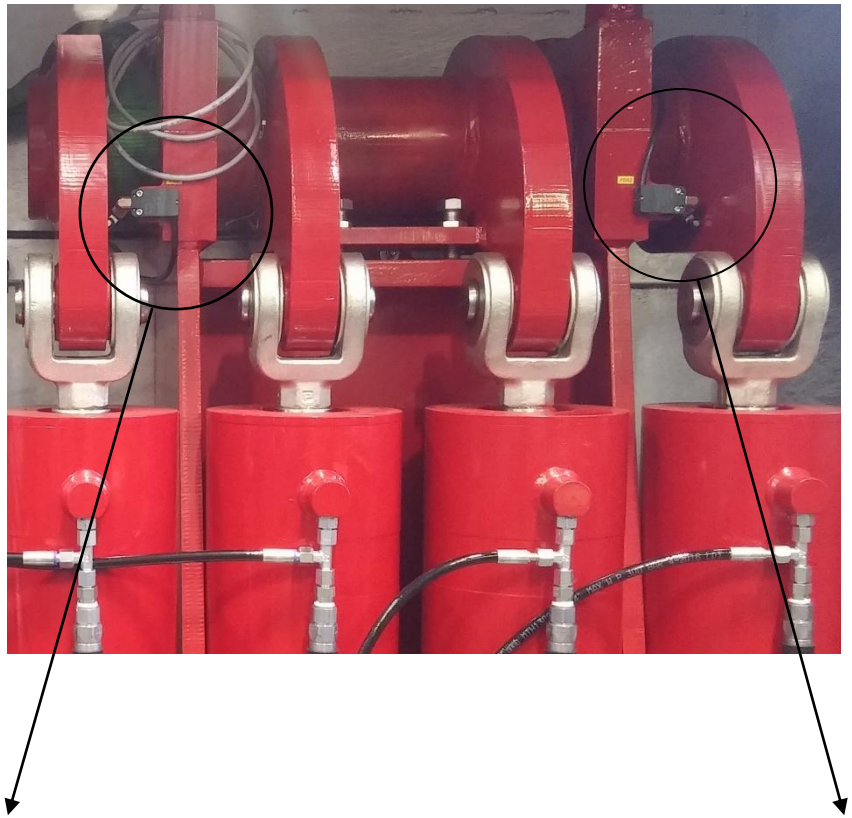


FDS

Finecorsa che rileva l'ingresso delle corsie nella zona pericolosa (al di sotto dei 18") e comanda l'interruzione dell'alimentazione all'impianto luci

Microswitch which detects the entering of the two running board in the hazardous area (0-18" in respect to the floor) and actuates the shutdown power supply of the lights

Posizione leva finecorsa
Primo finecorsa attivato con sollevatore in discesa
Microswitch lever position
First microswitch to be activated when the lift is lowering

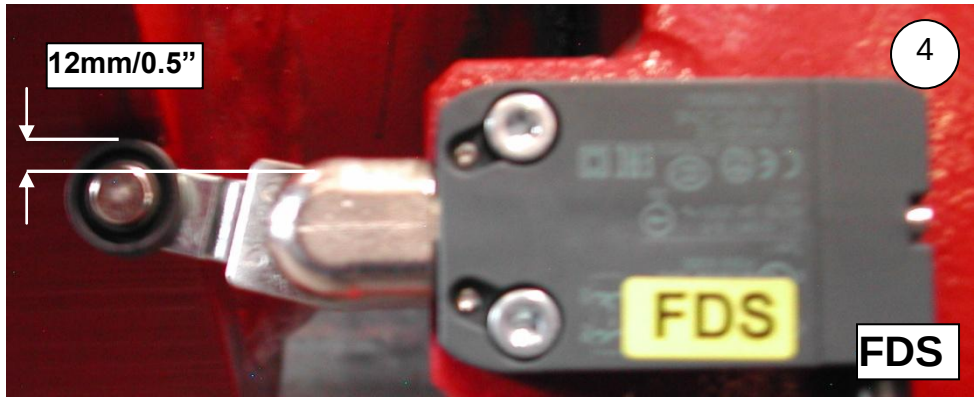


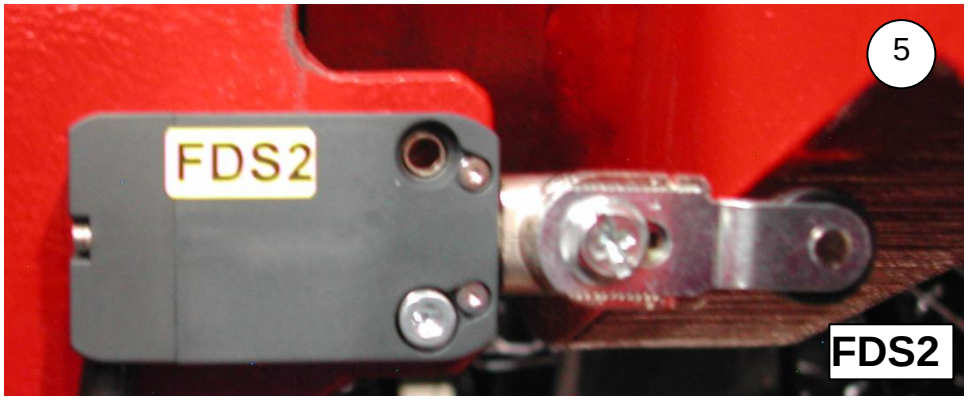
FDS2

Finecorsa che rileva l'ingresso delle corsie nella zona pericolosa (al di sotto dei 18") e comanda l'interruzione dell'alimentazione alle fotocellule

Microswitch which detects the entering of the two running board in the hazardous area (0-18" in respect to the floor)and actuates the shutdown power supply of the photoswitch

Posizione leva finecorsa
Secondo finecorsa attivato con sollevatore in discesa
Microswitch lever position
Second microswitch to be activated when the lift is lowering





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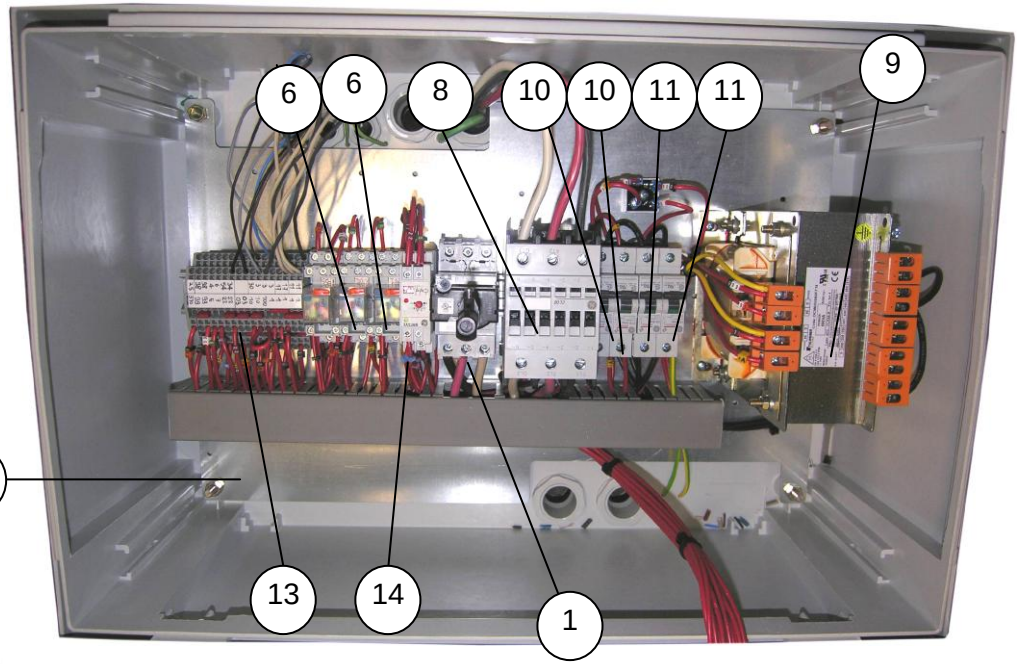
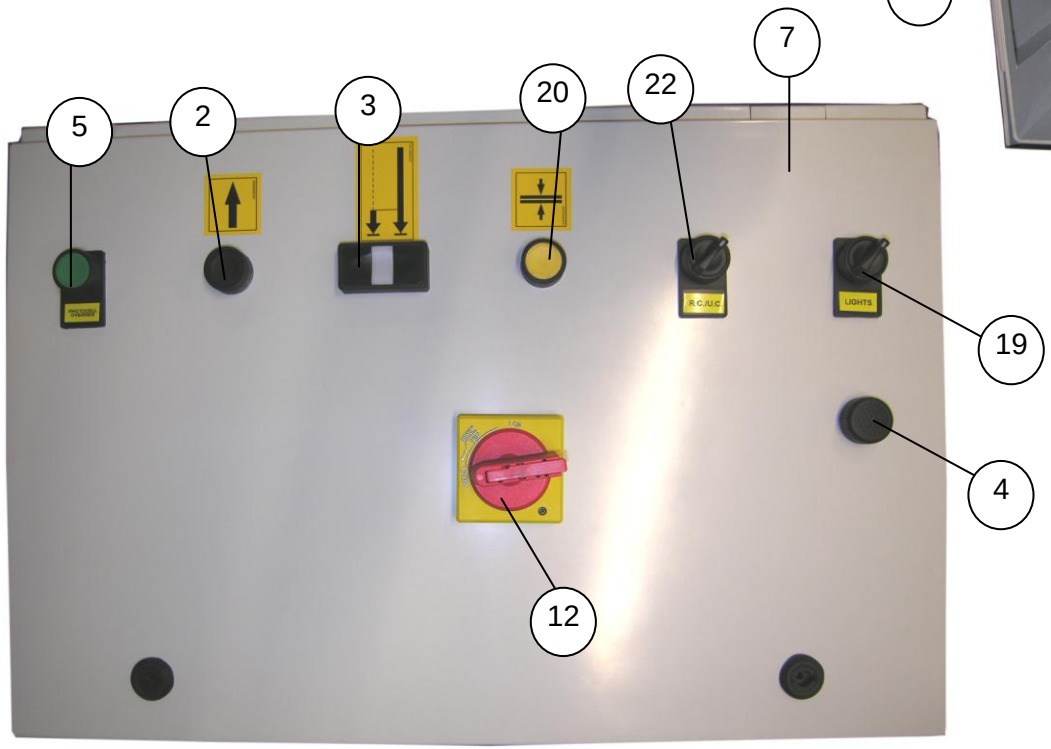
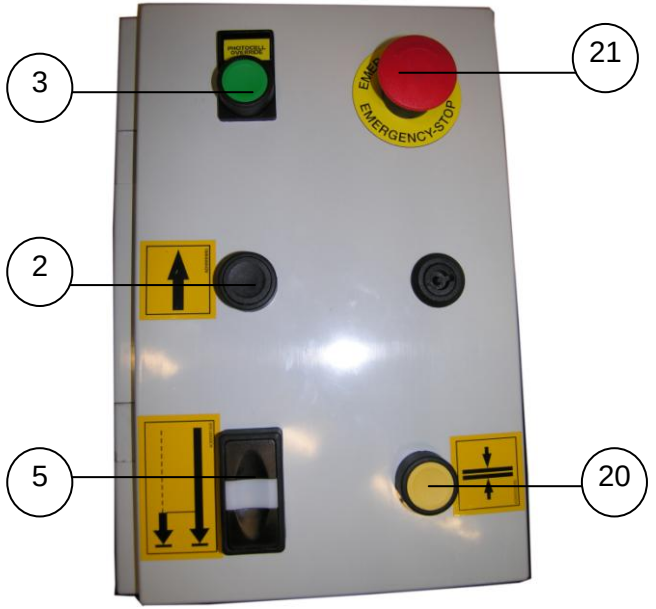
QUADRO ELETTRICO
ELECTRIC BOX
SCHALTTAFEL
TABLEAU ELECTRIQUE
TABLERO ELÉCTRICO







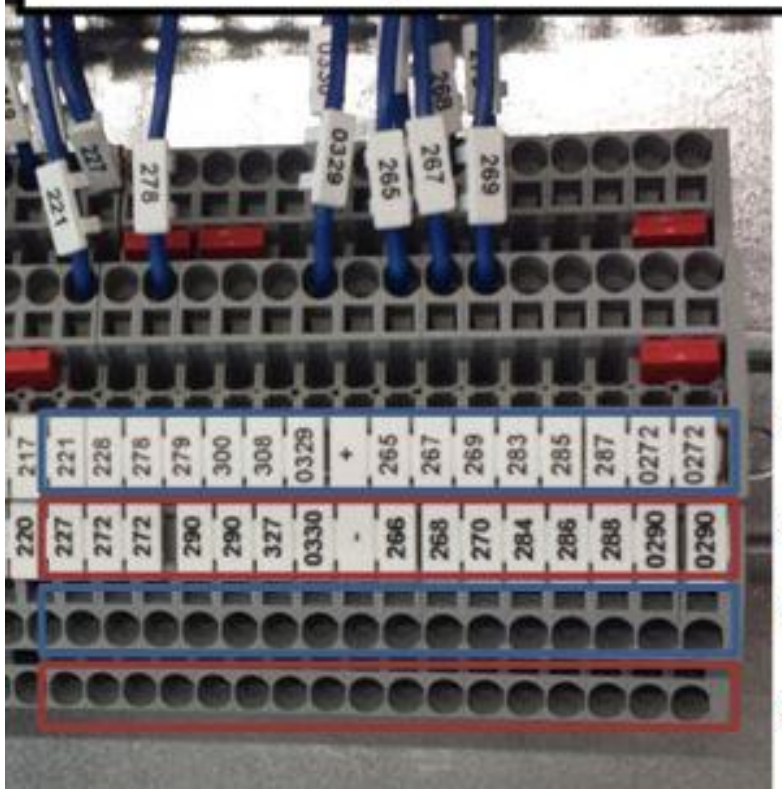
Rif. Ref.	Sigla Abbr.	Descrizione	Description	Beschreibung	Description	Descripción	Q.tà Q.ty	Codice Code	Q.tà ricambi raccomandati Q.ty recommended spare parts
1	GPS	Interruttore generale	Main switch	Hauptschalter	Interrupteur général	Interruptor general	1	Vedi prossima tabella See next table	
2	PS-PSR	Pulsante salita ponte	Table up button	Taste für Auffahrt der Hebebühne	Bouton élévation pont	Botón subida puente	1/2	1481010040	Nr.2 1 NO 1411000010
3	PDA-PDAR PDB-PDBR	Pulsante discesa ponte	Table down button	Taste für Abfahrt der Hebebühne	Bouton abaissement pont	Botón bajada puente	1/2	1551690010	Nr.2 2 NO 1411000020 Nr.2 1 NO 1411000010
4	BZ	Cicalino	Buzzer	Summer	Avertisseur sonore	Zumbador	1	1553040010	
5	PEFT	Pulsante verde	Green button	Grüner Drukknopf	Poussoir vert	Boton verde	1	1481010010	Nr.1 1 NO 1411000010
6	RFOT1-2 RAST-RFDS	Relè ausiliari per fotocellule	Auxiliary relays for photocells	Hilfsrelais für Photozellen	Relais auxiliaires pour photocellules	Relés auxiliarios para fotocélulas	2+2	1501740000+ 1501750000	
7		Cassetta forata	Perforated box	Durchlochter Stoffkasten	Boîtier percé	Caja de agujereada	1	1491300091	
8	C1	Contattore	Contactor	Schütz	Contacteur	Contactor	1	1501780000	
9	TR1	Trasformatore	Transformer	Transformator	Transformateur	Transformador	1	1501700000	
10	F1-F2 (6A)	Interruttore magnetotermico	Magnetothermic switch	Magnetotermisch Schalter	Interupteur thermomagnatique	Interuptor magneto térmico	2	1501710115	
11	F3-F4 (10A)	Interruttore magnetotermico	Magnetothermic switch	Magnetotermisch Schalter	Interupteur thermomagnatique	Interuptor magneto térmico	2	1501720000	
12		Manopola bloccaporta	Lock door handle	Knopl für Türarreterung	Gant		1	1371010120 1371010121	
13		Morsettiera G.V.	YG terminal board	Klemmenbrett G.G.	Bornier J.V.	Terminal de conexiones A.V.	2	1422070133	
		Morsettiera	Terminal board	Klemmenbrett	Bornier	Terminal de conexiones		1422070135	
14	T1	Temporizzatore	Timer	Zeitgeber	Temporisateur	Temporizador	2	1501730000	

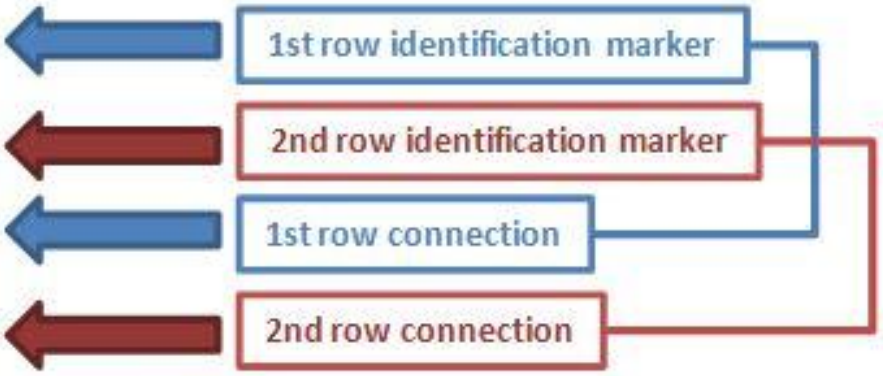
18		Piastra forata	Holed plate	Platte	Plaque	Plancha	1		
19	PL	Interruttore comando luci	Lights control switch	Lichtschalter	Interrupteur commande éclairage	Interruptor de control de las luces	1	1551350071	Nr.1 1 NO 1411000010
20	PC-PCR	Pulsante sicurezze meccaniche	Safety devices switch	Druckknopf mechanische Sicherhaiten	Poussoir mise en sécurité mécanique	Interruptor control seguridad mecànica	1/2	1481010030	Nr.2 1 NO 1411000010
21	STOPR	Pulsante STOP d'emergenza	Emergency STOP button	STOP Not-Aus-Schalter	Poussoir STOP d'émergence	Botón STOP emergencia	1	1481130020	
22	SE R.C / U.C.	Selettore	Switch	Schalter			1	1551350071	

DATI TECNICI MOTORI UL
TECNICAL DATA FOR UL MOTORS

VOLTAGGIO	**VOLTS**	V	**200**	**208**	**230**	**240**	**400**	**460**	**480**	**550**	**575**
MOTORE	**MOTOR**	HP	10 (60Hz)								
CONTATTORE	**CONTACTOR**		/								
INTERRUTTORE TERMICO GENERALE	**MAIN SWITCH**		1501860000 GPS2BHAS 28-40 A	1501860000 GPS2BHAS 28-40 A	1501860000 GPS2BHAS 28-40 A	1501850000 GPS1BHAR 24-32 A	1501830000 GPS1BHAN 14-20 A	1501830000 GPS1BHAN 14-20 A	1501830000 GPS1BHAN 14-20 A	1501820000 GPS1BHAM 11-16 A	1501820000 GPS1BHAM 11-16 A
ASSORBIMENTO MOTORE	**MOTOR CONSUMAPTION**	A	34.96	33.62	30.1	29.13	17.48	15.2	14.1	12.4	12.16

- In caso di morsettiera a doppio livello
- In case of double row terminal block
- Bei zweireihiger Klemmleiste
- Dans le cas d'un borne à deux rangées
- En caso de placa de bornes en dos niveles





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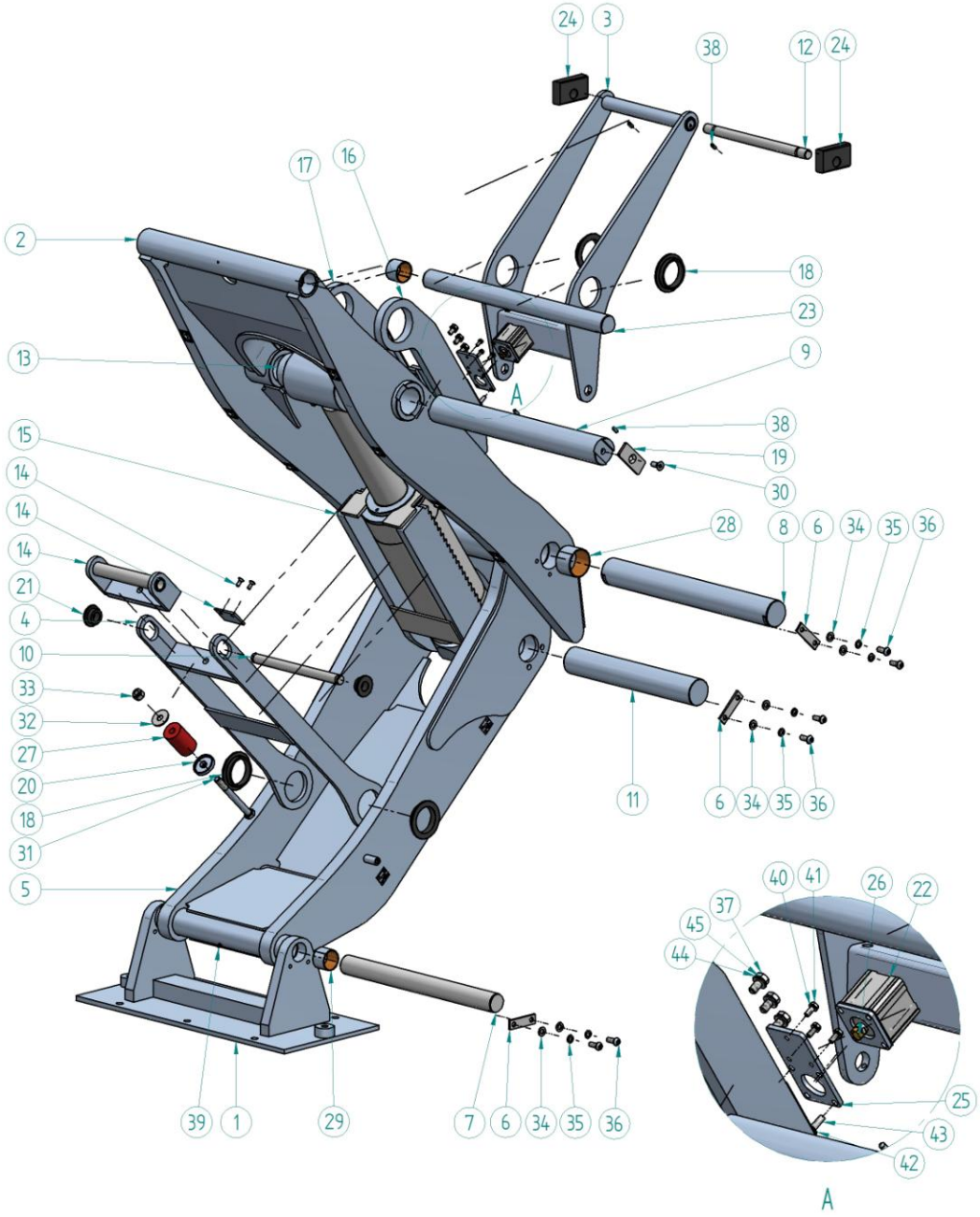
GAMBE
LEGS
JAMBE



Pos.	Descrizione	Description	Beschreibung	Description	Descripción	Tipo Type	Q.tà Q.ty	Codice Code
1	Base	Base	Basis	Base	Base		1	3036801017
2	Braccio	Arm	Arm	Bras	Brazo	Superiore - Upper	1	3036801126
3	Leva	Lever	Hebel	Levier	Palanca	Superiore - Upper	1	3036801325
4	Leva	Lever	Hebel	Levier	Palanca	Inferiore - Lower	1	3036801265
5	Braccio	Arm	Arm	Bras	Brazo	Inferiore - Lower	1	3036801066
6	Fermo	Locking device	0	Arrêt	Bloqueo		6	3036801510
7	Perno	Pin	Bolzen	Ecrou	Perno	Base	1	3036801541
8	Perno	Pin	Bolzen	Ecrou	Perno	Braccia - Arms	1	3036801586
9	Perno	Pin	Bolzen	Ecrou	Perno	Stelo - Rod	1	3036801536
10	Perno	Pin	Bolzen	Ecrou	Perno	Leve - Lever	1	3036801565
11	Perno	Pin	Bolzen	Ecrou	Perno	Fondello - End plate	1	3036801555
12	Perno	Pin	Bolzen	Ecrou	Perno		1	3036801575
13	Cilindro di sollevamento	Lifting cylinder	Hubzylinder	Vérin de soulévement	Cilindro de elevación		1	3036801693
14	Leva	Lever	Hebel	Levier	Palanca	Inferiore - Lower	1	3036801311
15	Cricco	Safety lock	0	Cric	Trinquete	Inferiore - Lower	1	3036802190
16	Cricco	Safety lock	0	Cric	Trinquete	Superiore DX - Right Upper	1	3036802195
17	Cricco	Safety lock	0	Cric	Trinquete	Superiore SX - Left Upper	1	3036802196
18	Distanziale	Spacer	Zwischenstück	Entretoise	riostra		4	3036801050
19	Piatto	Plate	Platte	Plateau	Placa		2	3036801605
20	Rondella	Rivet steel	0	0	0		1	3036801615
21	Distanziale	Spacer	Zwischenstück	Entretoise	riostra		2	3036801620
22	Cilindro	Cylinder	Zylinder	Verin	Cilindro	ISO ø50 CORSA 20-W_100_050_0020	1	3036801761
23	Perno	Pin	Bolzen	Ecrou	Perno		1	3036801598
24	Pattino	Guide pad	0	0	0		2	3036801591
25	Piatto	Plate	Platte	Plateau	Placa		1	3036809230
26	Testa	Sensor	Erdung	Terre	0		1	3036801763
27	Molla	Spring	0	Ressort	Muelle	ø50x80 95 SHORE (ROSSA-RED)	1	3036801315

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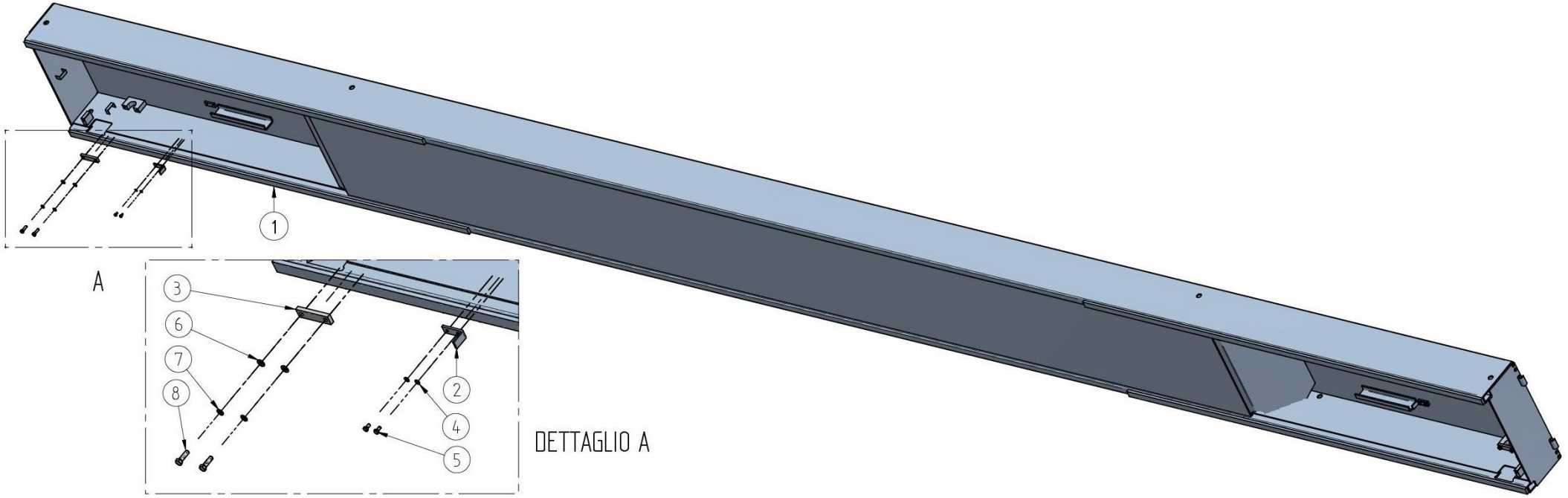
CORSIA
PLATFORM
FAHRBAHN
PLATEFORME
CAMINO DE RODADURA



Pos.	Descrizione	Description	Beschreibung	Description	Descripción	Tipo / Type	Q.tà / Q.ty	Codice / Code
1	Corsia	Platform	Fahrbahn	Plateforme	Camino de rodadura		1	/
2	Locking device	0	Arrêt	Bloqueo	Locking device		4	3036802961
3	Piatto chiusura	Plate	Platte	Plateau	Placa		4	3036802350
4	Rosetta	Washer	Beilagsscheibe	Entretoise	Rondana	M8 UNI 6592 A	8	1061080000
5	Vite	Screw	Schraube	Vis	Tornillo	TE UNI EN ISO 4017 M8x16	8	1003080160
6	Rosetta	Washer	Beilagsscheibe	Entretoise	Rondana	M12 UNI 6592 A	8	1061120000
7	Rosetta	Washer	Beilagsscheibe	Entretoise	Rondana	Grower M12 UNI 1751 B	8	1062120003
8	Vite	Screw	Schraube	Vis	Tornillo	TE UNI EN ISO 4017 M12x40	8	1003120400

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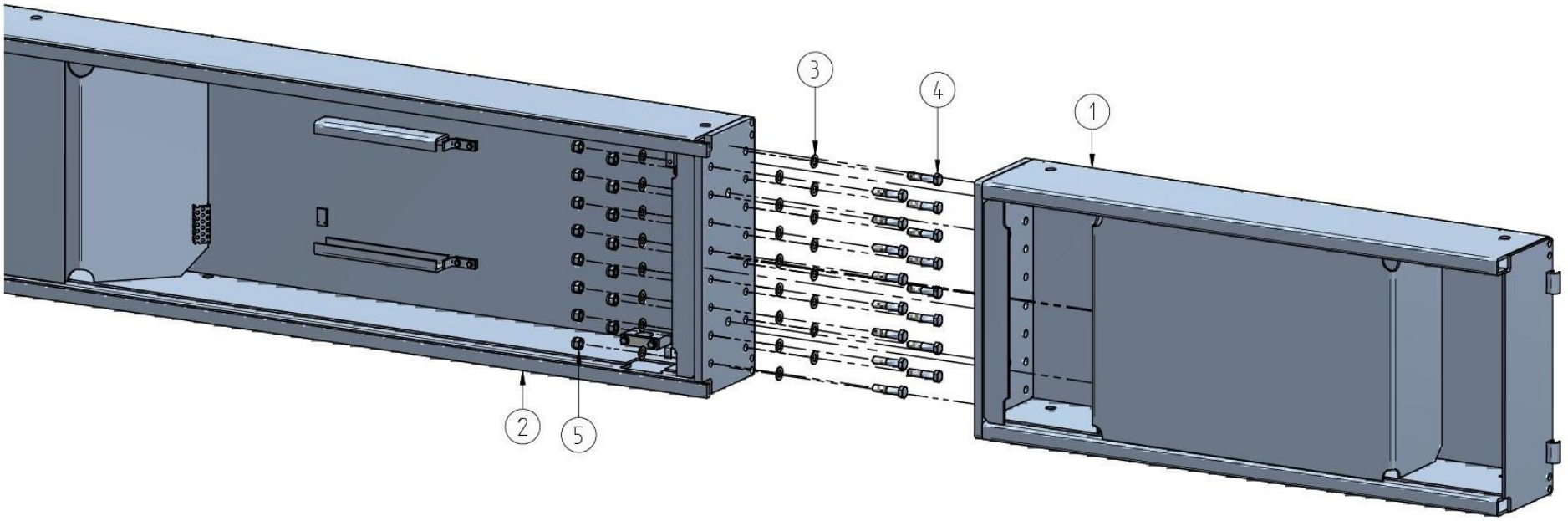
PROLUNGA
EXTENSION
VERLAENGERUNG
EXTENSION
PROLUNGACIÒN



Pos.	Descrizione	Description	Beschreibung	Description	Descripción	Tipo / Type	Q.tà / Q.ty	Codice / Code
1	Prolunga	Extension	Verlaengerung	Extension	Prolungaciòn			
2	Corsia	Platform	Fahrbahn	Plateforme	Camino de rodadura			
3	Rosetta	Washer	Beilagsscheibe	Rondelle	Rondana	M20	64	1061210000
4	Vite	Screw	Schraube	Vis	Tornillo	M20X090	32	1003200901
5	Dado	Nut	Mutter	Écrou	Tuerca	M20	32	1056200000

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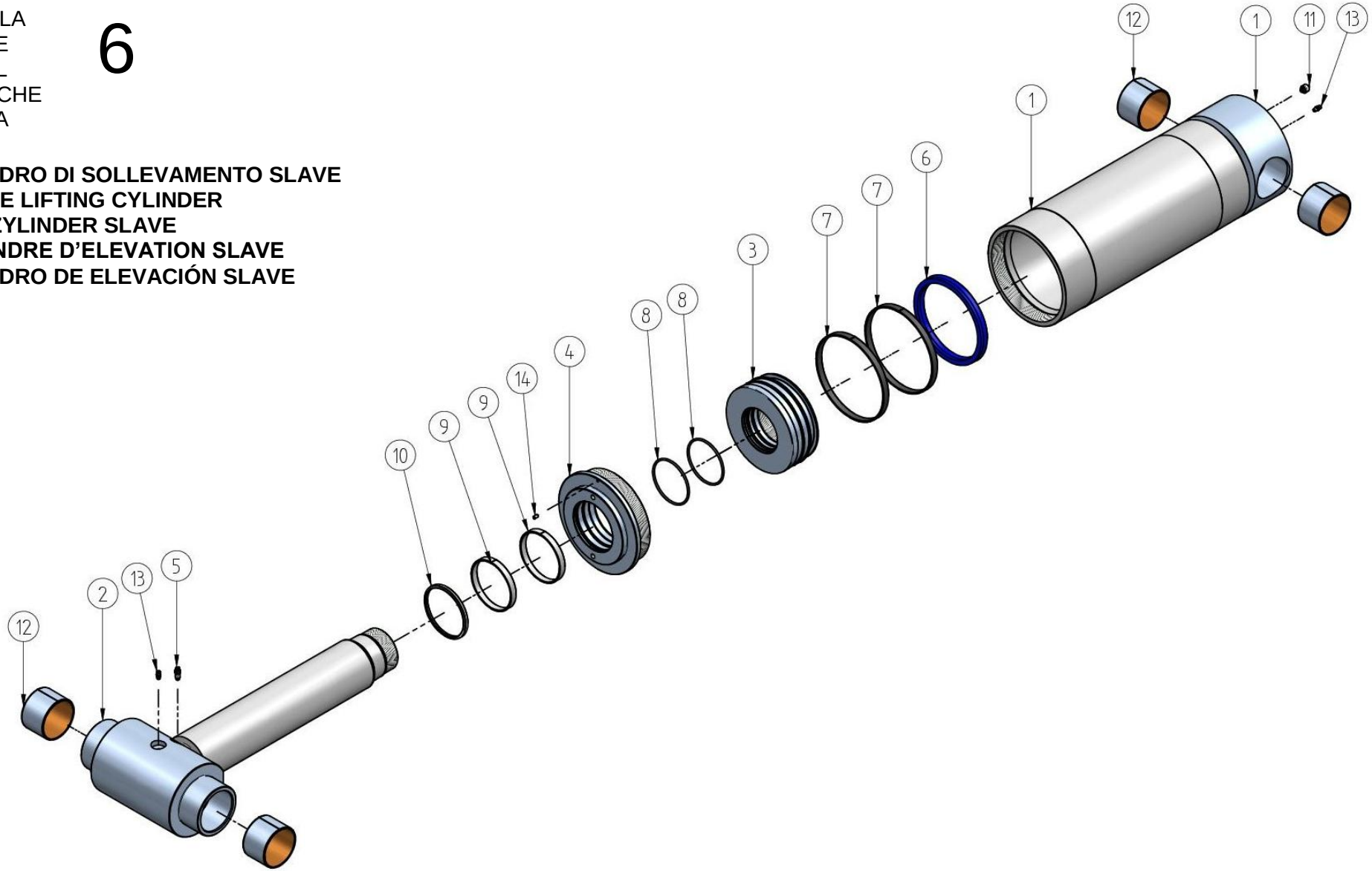
CILINDRO DI SOLLEVAMENTO SLAVE
SLAVE LIFTING CYLINDER
HUBZYLINDER SLAVE
CYLINDRE D'ELEVATION SLAVE
CILINDRO DE ELEVACIÓN SLAVE



Pos.	Descrizione	Description	Beschreibung	Description	Descripción	Tipo / Type	Q.tà / Q.ty	Codice / Code
1	Camicia	Jacket	Laufbuchse	Chemise	Camisa		1	3036801686
2	Stelo	Cylinder rod	Kolbenstangen	Tige	Vàstago		1	3036801696
3	Pistone	Air cylinders	Luftzylinder	Vérins pneumatiques	Pistón heumáticas		1	3036801666
4	Ghiera	Ring nut	Ring	Rasque	Casquillo		1	3036801672
5	Valvola di sfiato	Air out valve	Ventil	Vanne	Válvula	M8x1.25	1	1131100005
6	Guarnizione	Seal	Dichtung	Joint	Junta	TTU 1869/1 - 160x140x16	1	3036801693KR
7	Fascia guida	Guide band	Führungsband	Bande de guidage		12x2.5 L=493	2	
8	Guarnizione OR	Seal OR	Dichtungsträger OR	Joint torique	Junta tórica	235-10185 - 3.53x78.97 shore 90	2	
9	Fascia guida	Guide band	Führungsband	Bande de guidage		12x2.5 L=289	2	
10	Raschiatore	Screaper ring	Ölabstreifring	Anneau racleur	Anillo rascador	GHM341.1-354385 98.6x93x90x5.3	1	
11	Valvola di blocco automatico	Stop valve	Winkelstück	Vanne de blocage	Válvula de bloque	VBA14 1/4"	1	1281220011
12	Boccola	Bushing	Büchse	Bague	Casquillo	Glycodur GLY.PG 707550A	4	1141540000
13	Ingrassatore	Greasing nipple	Schmierer	Graisseur	Engrasador	UNI 7663 A - M 6	2	1141030000
14	Vite	Screw	Schraube	Vis	Tornillo	STEI UNI 5927 M5x10	1	1003120400

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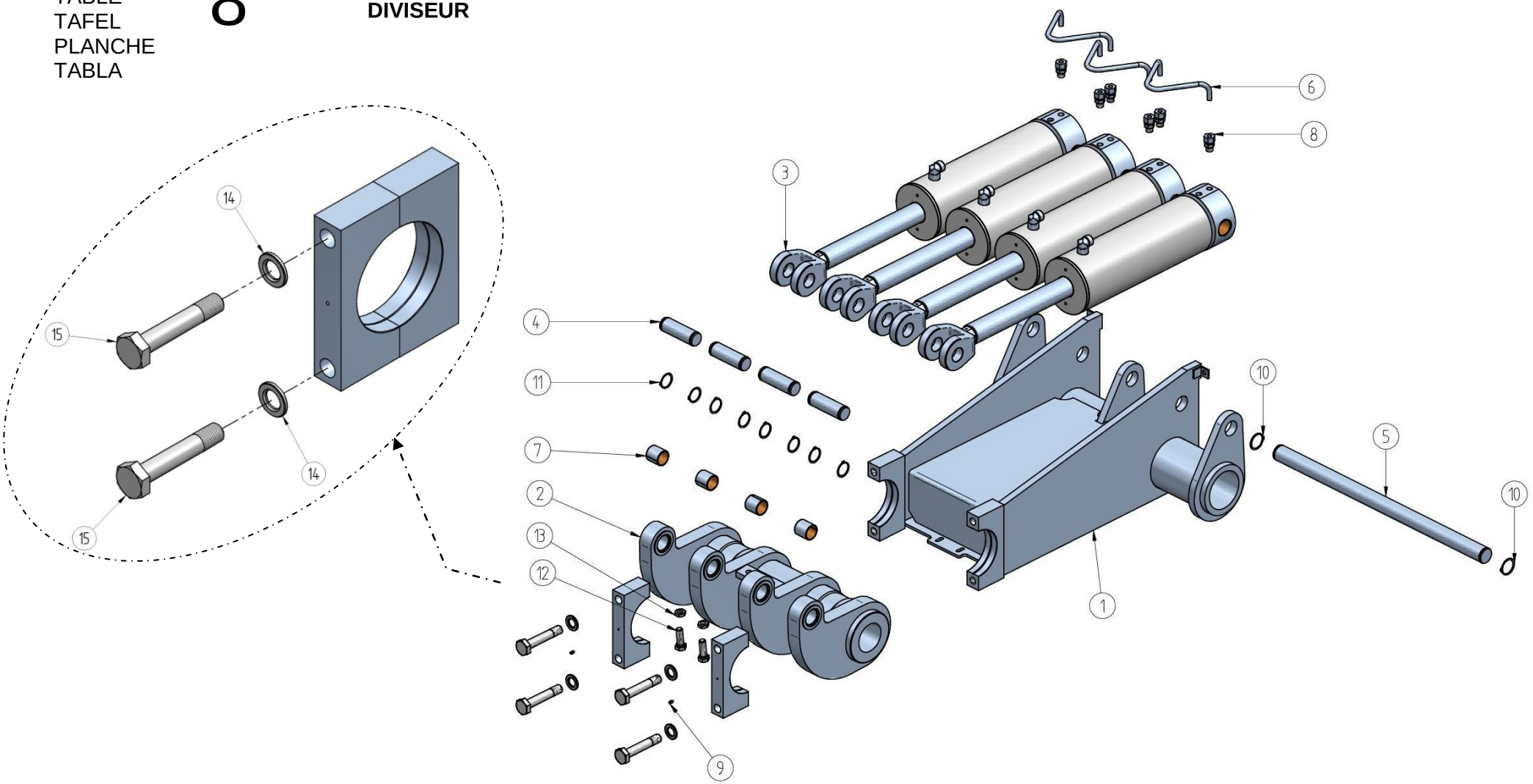
DIVISORE DI FLUSSO
FLOW DIVIDER
DIVISEUR



Pos.	Descrizione	Description	Beschreibung	Description	Descripción	Tipo / Type	Q.tà / Q.ty	Codice / Code
1	Telaio	Kit frame	Rahmen	Cadre	Marco		1	3036802405
2	Barra di torsione	Torsion bar	Torsionsstab	Barre de torsion	Barra de torsion		1	3036802450
3	Cilindro	Cylinder	Zylinder	Verin	Cilindro		4	3036802501
4	Perno attacco stelo	Pin	Bolzen	Ecrou	Perno		1	3036803795
5	Perno attacco fondello	Pin	Bolzen	Ecrou	Perno		1	3036802224
6	Tubo olio	Oil pipe	-	-	-		3	3036802207
7	Boccola	Bushing	Büchse	Bague	Casquillo	Himon FRITEX P455050	4	1141590101
8	Raccordo diritto	Linear nipple	Nipples	Raccord droit	Unión recta	1-2 M x tubo 16	6	1161230007
9	Ingrassatore	Greasing nipple	Schmierer	Graisseur	Engrasador	UNI 7663 A - M 6	2	1141030000
10	Anello elastico	Clamping ring	Elastischer ring	Anneau élastique	Anillo elástico	Ø50 UNI7435-E	2	1071500003
11	Anello elastico	Clamping ring	Elastischer ring	Anneau élastique	Anillo elástico	ø45 UNI 7435-E	2	1071450003
12	Vite	Screw	Schraube	Vis	Tornillo	TE UNI EN ISO 4017 M20x60	2	1003200600
13	Dado esagonale	Nut	Mutter	Écrou	Tuerca	UNI EN ISO 4032 A M20	2	1053200000
14	Rosetta	Washer	Beilagsscheibe	Entretoise	Rondana	M27 UNI 5714 zincata	2	1061270010
15	Vite	Screw	Schraube	Vis	Tornillo	TE alta resistenza UNI5712-6914 M27x150 zincata	2	1003271504

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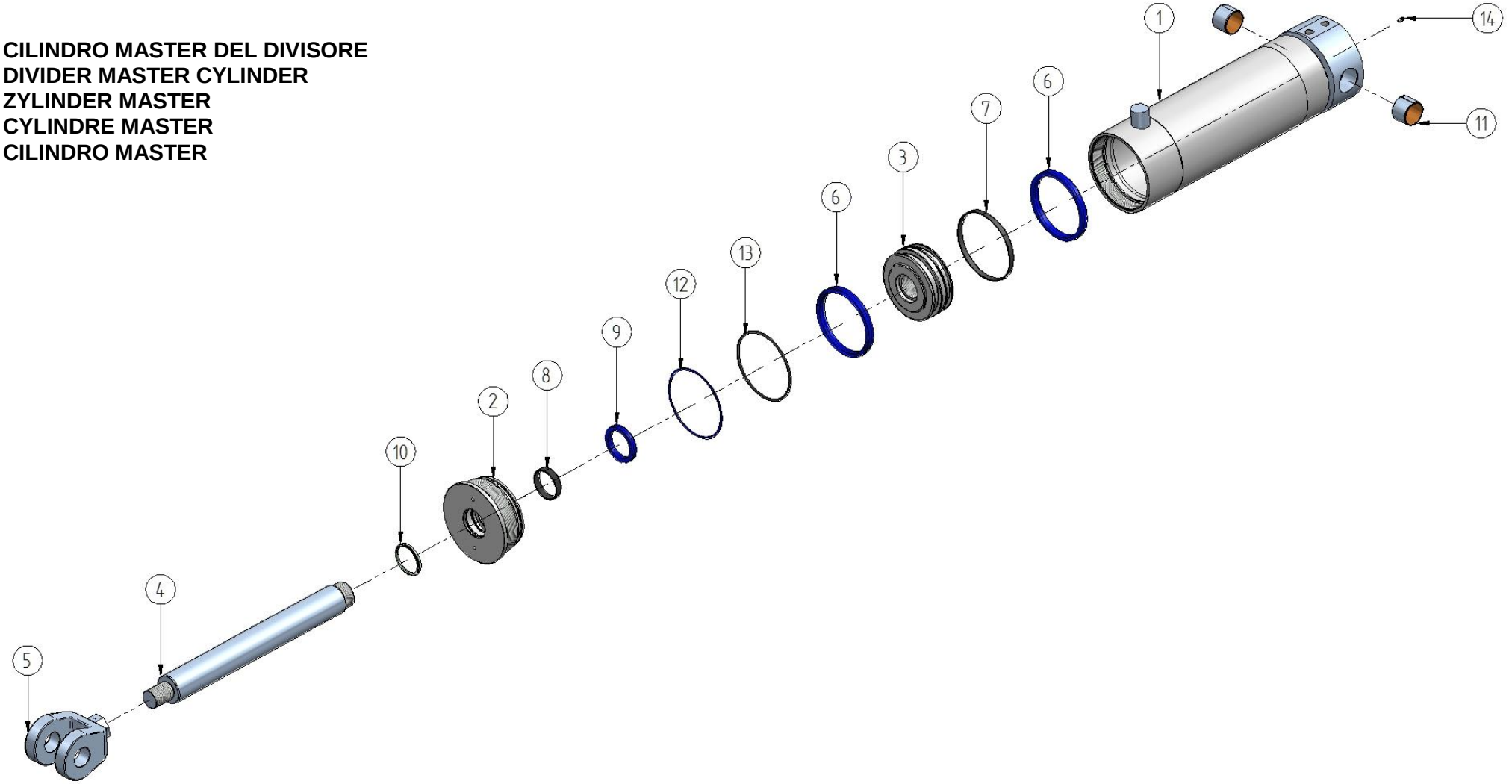
CILINDRO MASTER DEL DIVISORE
DIVIDER MASTER CYLINDER
ZYLINDER MASTER
CYLINDRE MASTER
CILINDRO MASTER



Pos.	Descrizione	Description	Beschreibung	Description	Descripción	Tipo / Type	Q.tà / Q.ty	Codice / Code
1	Camicia	Jacket	Laufbuchse	Chemise	Camisa		1	3036802506
2	Ghiera	Ring nut	Ring	Rasque	Casquillo		1	3036802527
3	Pistone	Air cylinders	Luftzylinder	Vérins pneumatiques	Pistón heumáticas		1	3036802531
4	Stelo	Cylinder rod	Kolbenstangen	Tige	Vàstago		1	3036803826
5	Terminale a forcella	Rod clevis		Terminal			1	1538090010
6	Guarnizione	Seal	Dichtung	Joint	Junta	TTU 1869/1 - 160x140x16	2	3036802501KR
7	Fascia guida	Guide band	Führungsband	Bande de guidage		12x2.5 L=493	1	
8	Fascia guida	Guide band	Führungsband	Bande de guidage		15x2.5 L=210	1	
9	Guarnizione	Seal	Dichtung	Joint	Junta	TTU1795 - 85x65x13	1	
10	Raschiatore	Screaper ring	Ölabstreifring	Anneau racleur	Anillo rascador	GHM332-255287 73.6x68x65x5.3	1	
12	Guarnizione	Seal	Dichtung	Joint	Junta	GKS 361	1	
13	Guarnizione OR	Seal OR	Dichtungsträger OR	Joint torique	Junta tórica	361-10289-3.53x57,15 shore 90	2	
11	Boccola	Bushing	Büchse	Bague	Casquillo	GLY.PG 505540F	2	1141490000
14	Ingrassatore	Greasing nipple	Schmierer	Graisseur	Engrasador	UNI 7663 A - M 6	1	1141030000

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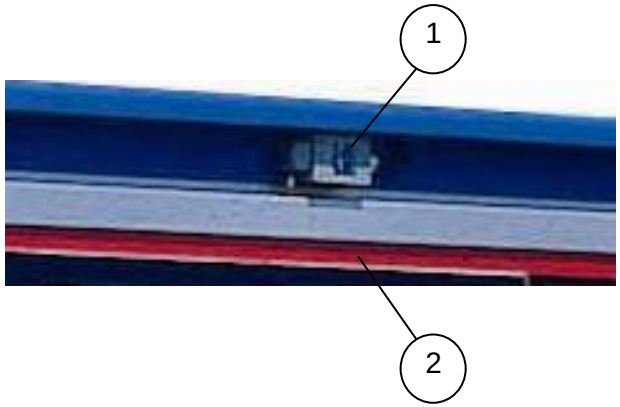
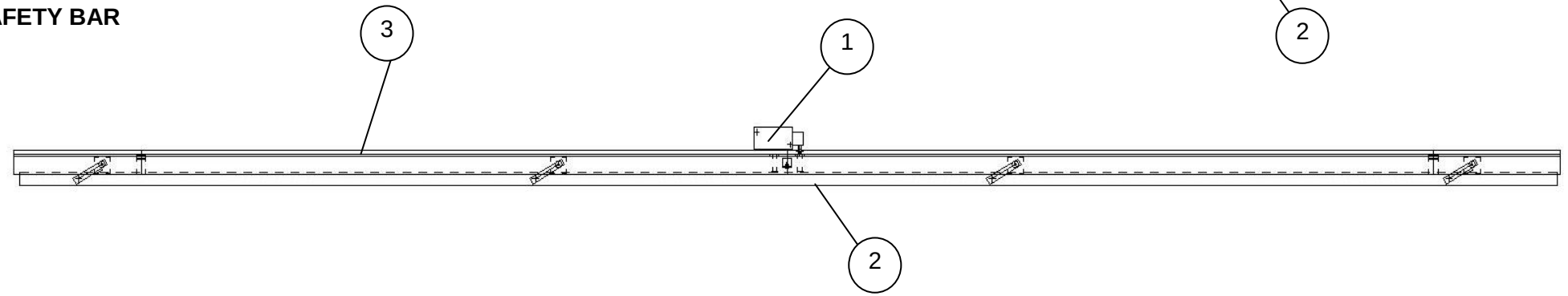


OPTIONAL

ASTE DI SICUREZZA
SAFETY BAR



Pos.	Sigla/ Abbreviation	Descrizione	Description	Beschreibung	Description	Descripción	Q.tà / Q.ty	Codice / Code
1	VAST	Valvola pneumatica	Pneumatic valve	Pneumatischer ventil	Vanne pneumatique	Válvula neumàtica		1271120000
2*		Asta di sicurezza	Safety bar / Toe trapping bars	Sicherheitsstab	Barre de protection	Asta de seguridad		
3*		Copriasta per sicurezze meccaniche	Cover of safety bar	Schutz für Sicher theistleiste	Protection pour sécurité anticisalillement	Cobertura		
4*		KIT pneumatico Aste di sicurezza	Pneumatic KIT for Safety bars	Kit	Kit	kit		

* POINTS 2-3-4 DEPENDS ON THE LENGHTS OF THE LIFT PLATFORMS.

Allegato A / Attached document A

RICHIESTA DATI ANAGRAFICI E FISCALI / REQUEST FORM AND FISCAL DATE	
RAGIONE SOCIALE / NAME	
INDIRIZZO DELLA SEDE LEGALE / HEADQUARTERS ADRESS	
VIA / STREET	
CITTA' / CITY	CAP / ZIP CODE
PROVINCIA	NAZIONE / NATION
N° TELEFONO / TELEPHONE NR.	N°FAX / FAX NR
INDIRIZZO DELLA SEDE AMMINISTRATIVA (se diversa dalla sede legale) / **ADRESS OF THE ADMINISTRATIVE OFFICE (if different from the headquarters**)	
VIA / STREET	
CITTA' / CITY	CAP / ZIP CODE
PROVINCIA	NAZIONE / NATION
N° TELEFONO / TELEPHONE NR.	N°FAX / FAX NR
DATI FISCALI / FISCAL DATE	
COD. FISCALE / FISCAL CODE	
PARTITA IVA / VAT NR.	
PAGAMENTO / PAYMENT	
DOMICILIAZIONE BANCARIA / BANK DETAILS	
BANCA / BANK	
AGENZIA / AGENCY	
ABI	CAB
C/C	CIN
IBAN	
INFORMAZIONE / INFORMATION	
e-mail informazioni / INFO e-mail	
e-mail amministrazione / ADMINISTRATION e-mail	
e-mail commerciale / SALES e-mail	
e-mail acquisti / PURCHASE e-mail	
Sito internet / WEB SITE	

CONSENSO AI SENSI DEL D.L.196 DEL 30/06/03 La sottoscritta ditta/società, in riferimento ai rapporti commerciali in essere e futuri con la Vs. società, dichiara di aver preso visione completa dell'informativa ai sensi dell'art.13 del D.L. 196/2003 unitamente all'art.7 del decreto medesimo ed esprime il consenso al trattamento ed alla comunicazione dei propri dati qualificati come personale dal citato decreto nel limite e nelle finalità precisate dall'informativa, necessarie per la gestione del rapporto commerciale in essere. In fede.	I authorise the use of my personal data in compliance with legislative Decree 196/03 dtd 30/06/03.

Data / Date _____ Timbro e firma / Stempel and sign _____

Allegato B / Attached document B

MODULO D'ORDINE RICAMBI / "SPARE PARTS" ORDER FORM			
CLIENTE / CUSTOMER			
DATA / DATE	ORDINE / P.O. ☐		PREVENTIVO / OFFER ☐
	1	2	3
MODELLO SOLLEVATORE / LIFT MODEL			
ANNO E MATRICOLA / YEAR & SERIAL NR.			
CODICE ELENCO RICAMBI / SPARE PARTS LIST CODE	NV-B00000900	NV-B00000900	NV-B00000900
TAVOLA / TABLE			
POSIZIONE / POSITION			
DESCRIZIONE ARTICOLO / DESCRIPTION			
CODICE ARTICOLO / ITEM'S CODE			
QUANTITA' / QUANTITY			
COLORE / COLOUR			
NOTE			
DATA CONSEGNA DESIDERATA / REQUESTED DELIVERY DATE:_____			

MOHAWK	VEHICLE LIFTING DPT.	Mohawk Lifts, LLC. P.O. Box 11065 Vrooman Ave Amsterdam, NY 12010	(800) 833-2006(518) 842-1431 FAX: (518) 842-1289 www.mohawklifts.com service@mohawklifts.com

LOGBOOK: REGISTER OF PERIODIC CHECKS

LIFTS

1 Characteristic features of the vehicle lift

The platform owner must ensure that the register is kept in a safe place and available throughout the system's working life

- Model …….....
- System serial no. …….....
- Capacity kg ……..
- Capacity of LT kg ……..
- Capacity of cross braces kg ……..
- Length of lane mm ……..
- Speed m/s < 0.15
- Operating pressure bar …….....
- Type of operation hydraulic
- Electricity supply …….V/…….pH/…….Hz

- The lift was first set in service on …….....

(to be filled out by owner)

2 Maintenance contractor

Name of the maintenance contractor	Contact person	telephone	Maintenance contract starting date

3 Main repairs and major modifications

Description of repairs or modifications	Company that made repairs or modifications	Date and Signature of repairs or modifications

(to be filled out by maintenance contractor)

4 Additional information

Date	Description

(to be filled out by maintenance contractor)

5 Checks

Description	Outcome	Maintenance contractor	Signature of inspecting technician	Inspection date
General cleaning of the lift and of its area of installation				
Greasing of sliding guides and pins according to the manual				
Check condition of structural metal (warping, corrosion…)				
Check uniform contact with the floor, tightness of screw anchors, levelling				
Check condition and synchronous operation of LIFT mechanical safety devices				
Check condition and synchronous operation of LT mechanical safety devices				
Check arm locking *(for 2 columns)*				
Check operation of safety bars				
Operation of controls and acoustic warning				
Emergency stop or voltage cut-off switch				
Main lift stop 500 mm above the ground				
Auxiliary lift stop 120 mm from the lanes				
Stop in the event of lane misalignment (photo cells, sensor on torsion bar,…)				
Check condition of the electrical system and power supply cables				
Check condition of the pneumatic system and supply pipes (leaks, seal…)				
Check condition of the hydraulic system and cylinders (leaks, seal…)				
Check the oil level in the hydraulic system				
Pressure relief valve calibration				
Presence of identification data plate				
Presence of labels for capacity, load distribution and safety devices				
Presence of documentation: use and maintenance manual, spare parts list, wiring, hydraulic and pneumatic diagrams, …				
Presence of the EC Certificate of Conformity				
Load test with vehicle				
NOTES:				

The items are general and should be checked, where present.

Description	Outcome	Maintenance contractor	Signature of inspecting technician	Inspection date
General cleaning of the lift and of its area of installation				
Greasing of sliding guides and pins according to the manual				
Check condition of structural metal (warping, corrosion…)				
Check uniform contact with the floor, tightness of screw anchors, levelling				
Check condition and synchronous operation of LIFT mechanical safety devices				
Check condition and synchronous operation of LT mechanical safety devices				
Check arm locking *(for 2 columns)*				
Check operation of safety bars				
Operation of controls and acoustic warning				
Emergency stop or voltage cut-off switch				
Main lift stop 500 mm above the ground				
Auxiliary lift stop 120 mm from the lanes				
Stop in the event of lane misalignment (photo cells, sensor on torsion bar,…)				
Check condition of the electrical system and power supply cables				
Check condition of the pneumatic system and supply pipes (leaks, seal…)				
Check condition of the hydraulic system and cylinders (leaks, seal…)				
Check the oil level in the hydraulic system				
Pressure relief valve calibration				
Presence of identification data plate				
Presence of labels for capacity, load distribution and safety devices				
Presence of documentation: use and maintenance manual, spare parts list, wiring, hydraulic and pneumatic diagrams, …				
Presence of the EC Certificate of Conformity				
Load test with vehicle				
NOTES:				

The items are general and should be checked, where present.

Description	Outcome	Maintenance contractor	Signature of inspecting technician	Inspection date
General cleaning of the lift and of its area of installation				
Greasing of sliding guides and pins according to the manual				
Check condition of structural metal (warping, corrosion…)				
Check uniform contact with the floor, tightness of screw anchors, levelling				
Check condition and synchronous operation of LIFT mechanical safety devices				
Check condition and synchronous operation of LT mechanical safety devices				
Check arm locking *(for 2 columns)*				
Check operation of safety bars				
Operation of controls and acoustic warning				
Emergency stop or voltage cut-off switch				
Main lift stop 500 mm above the ground				
Auxiliary lift stop 120 mm from the lanes				
Stop in the event of lane misalignment (photo cells, sensor on torsion bar,…)				
Check condition of the electrical system and power supply cables				
Check condition of the pneumatic system and supply pipes (leaks, seal…)				
Check condition of the hydraulic system and cylinders (leaks, seal…)				
Check the oil level in the hydraulic system				
Pressure relief valve calibration				
Presence of identification data plate				
Presence of labels for capacity, load distribution and safety devices				
Presence of documentation: use and maintenance manual, spare parts list, wiring, hydraulic and pneumatic diagrams, …				
Presence of the EC Certificate of Conformity				
Load test with vehicle				
NOTES:				

The items are general and should be checked, where present.

Description	Outcome	Maintenance	Signature of inspecting	Inspection date

		contractor	**technician**	
General cleaning of the lift and of its area of installation				
Greasing of sliding guides and pins according to the manual				
Check condition of structural metal (warping, corrosion…)				
Check uniform contact with the floor, tightness of screw anchors, levelling				
Check condition and synchronous operation of LIFT mechanical safety devices				
Check condition and synchronous operation of LT mechanical safety devices				
Check arm locking *(for 2 columns)*				
Check operation of safety bars				
Operation of controls and acoustic warning				
Emergency stop or voltage cut-off switch				
Main lift stop 500 mm above the ground				
Auxiliary lift stop 120 mm from the lanes				
Stop in the event of lane misalignment (photo cells, sensor on torsion bar,…)				
Check condition of the electrical system and power supply cables				
Check condition of the pneumatic system and supply pipes (leaks, seal…)				
Check condition of the hydraulic system and cylinders (leaks, seal…)				
Check the oil level in the hydraulic system				
Pressure relief valve calibration				
Presence of identification data plate				
Presence of labels for capacity, load distribution and safety devices				
Presence of documentation: use and maintenance manual, spare parts list, wiring, hydraulic and pneumatic diagrams, …				
Presence of the EC Certificate of Conformity				
Load test with vehicle				
NOTES:				

The items are general and should be checked, where present.

MOHAWK LIFT PRODUCTS

The Lifts You Can't Wear Out

TWO POST

Model System IA-10

Model TP-20

FOUR POST

Model TR-75

MOBILE COLUMN

Model MP-18-007

PARALLELOGRAM

Model 75-32-F

VERTICAL RISE

Model V-77-30S

MOHAWK LIFTS

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Amsterdam, NY 12010
Phone: (800) 833-2006 • (518) 842-1431
www.mohawklifts.com