



Jema Autolifte A/S
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2 Post “Clear floor lift JA5000CF-E

INSTALLATION, USER AND MAINTENANCE
(TRANSLATION OF ORIGINAL INSTRUCTIONS)

THE MACHINE DESCRIBED IN THIS MANUAL REFERS TO THE FOLLOWING LIFT:

JA5000CF-E

THIS USER'S MANUAL IS WRITTEN IN THE MANUFACTURER'S LANGUAGE, AND IN OTHER COMMUNITY LANGUAGES. IN CASE OF COMPLAINT, FOR LEGAL PURPOSES, THE VERSION IN ITALIAN LANGUAGE ONLY WILL APPLY. THE MANUFACTURER DISCLAIMS ANY LIABILITY FOR DIRECT AND/ OR INDIRECT DAMAGES CAUSED BY POOR TRANSLATION OR WRONG TEXT INTERPRETATION.

WARRANTY

The manufacturer warrants lifts and the relevant accessories for 12 months after purchase date. This warranty consists in the repair or replacement - free of charge - of those parts that, after a careful analysis by the Manufacturer's Technical Service, turn out to be faulty from origin. Warranty is limited to material defects and becomes null and void if the returned parts are tampered with or disassembled by unauthorized staff. Any liability for direct and indirect injuries to people, animals, or property due to machine failure or malfunction are excluded from warranty. The expenses deriving from lubricants replacement, transport charges, and any customs duty, VAT and any other expense not specified in the supply contract are at the purchaser's charge. The replacement and repair of parts under warranty, anyway, do not extend warranty terms. The purchaser will nevertheless be entitled to assert its rights on warranty, specified in the supply contract. Should the parties not be willing to submit any dispute arising from the supply contract to arbitration, or in any other case where the judgement of a body of the ordinary competent court is required, the Court of Vicenza will be the only competent court on the territory.

DISCLAIMER

Upon delivery, please check that the product has not been damaged during transportation, and that the accessories coming with it are intact and complete. Any complaint shall be filed within 8 days after lift delivery date. Besides the cases envisaged by the supply contract, the warranty becomes null and void:

- In case of a maneuver error caused by the operator.
- If the damage is caused by poor maintenance.
- If the envisaged capacity is exceeded.
- If the machine has been somehow modified, and the damage has been caused by such a modification, due to repair operations by the user without the authorization of the manufacturer or after fitting non-original spare parts.
 - If the instructions described in the user's manual are not complied with.

CAREFULLY READ THE INSTRUCTIONS GIVEN IN THIS MANUAL BEFORE USING THE LIFT

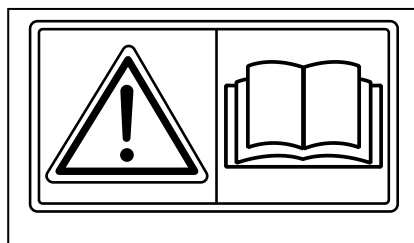


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1.0 TECHNICAL DATA

		JA5000CF-E
Maximum lift capacity	Kg	5000
Lifting time when loaded	Sec	45
Lowering time when loaded	Sec	42
Pad min. useful height	mm	95
Max. useful height	mm	1895
Distance between columns	mm	3100
Arm size	mm	860/1700
Lift max. height	mm	4470
Lift total width	mm	3785
Electric motor 3 Ph	V/Hz/A	230 - 400 / 50 - 12.8 / 7.1
Three-phase motor power	KW/CV	2,6 / 3,5
Max. operating hydraulic pressure	Bar	295
Controls circuit voltage	Volt	24
Recommended hydraulic oil		ISO 32
Hydraulic system oil quantity	L	12
Floor-mounting		N° 16 tasselli and espansione tipo HILTI HSA-A M16x175/60 o equivalent

Fixing-to-floor equipment contrast (extraction force)	Kg	1800
Sound level (EN ISO 3746)		
Average weighed sound level LpAm	dB (A)	67.2
Average sound level at the operator's workstation LpA	dB (A)	67.1
Acoustic power LwA	dB (A)	89.1

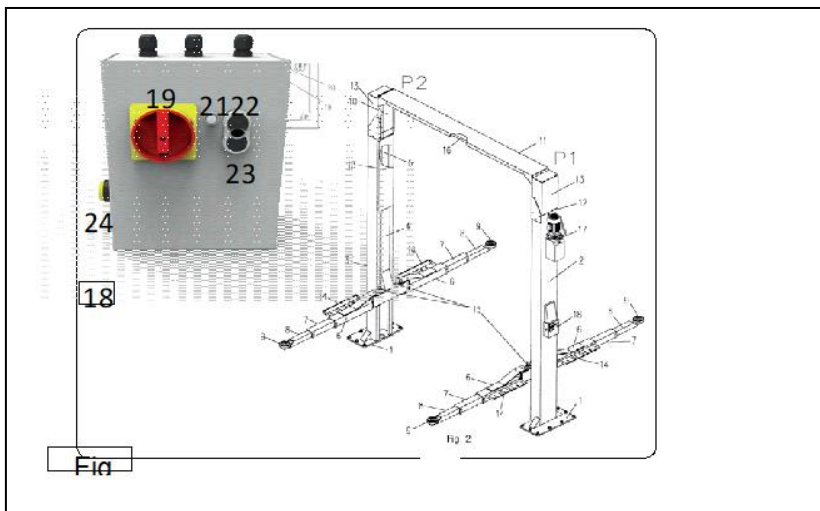
Dimensions shown in Fig. 2 and in the "TECHNICAL SPECIFICATIONS" table are indicative and refer to the lift under no load conditions. Actual dimensions may differ slightly from those reported in this manual.

UPON REQUEST, LIFT CAN BE SUPPLIED WITH 230V-3PH OR 230V-1PH POWER SUPPLY.

1.1 LIFT DESCRIPTION

- | | |
|------------------------------|--------------------------------------|
| 1 - Anchorage plate | 13 - Column extension (optional) |
| 2 - P1 Column | 14 - Foot guard |
| 3 - P2 Column | 15 - Arm anti-rotation safety device |
| 4 - Carriage | 16 - Overhead safety shut-off system |
| 5 - Hydraulic cylinder | 17 - Hydraulic control unit |
| 6 - Arm | 18 - Control panel |
| 7 - Middle extension | 19 - Emergency Switch / Disconnecter |
| 8 - Pad holder extension | 21 - Voltage warning light |
| 9 - Rubber pad | 22 - PS "RAISING" push-button |
| 10 - Column extension casing | 23 - PD "LOWERING" push-button |

1.2 VERSIONS AND OVERALL DIMENSIONS



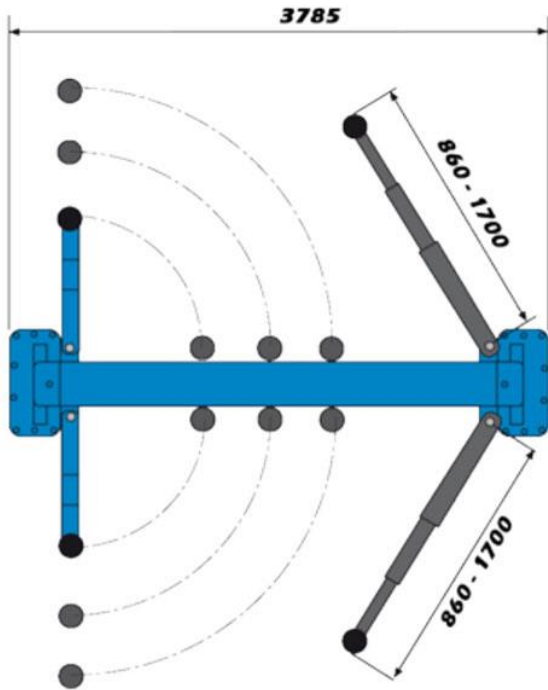
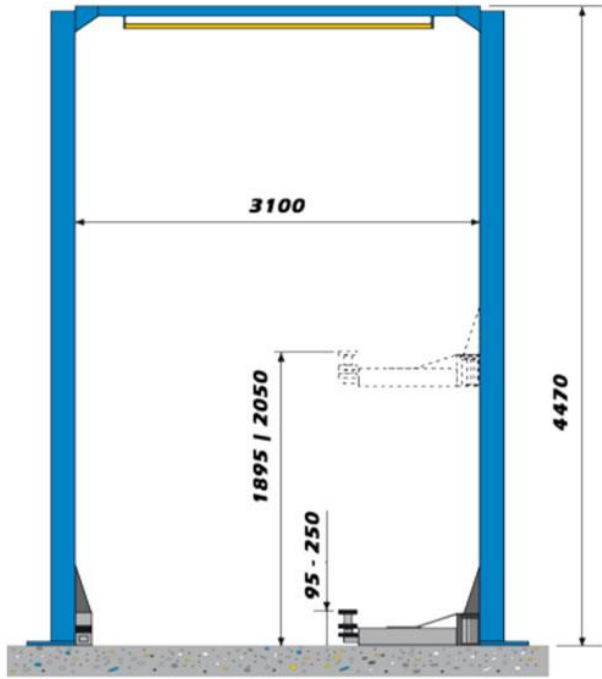
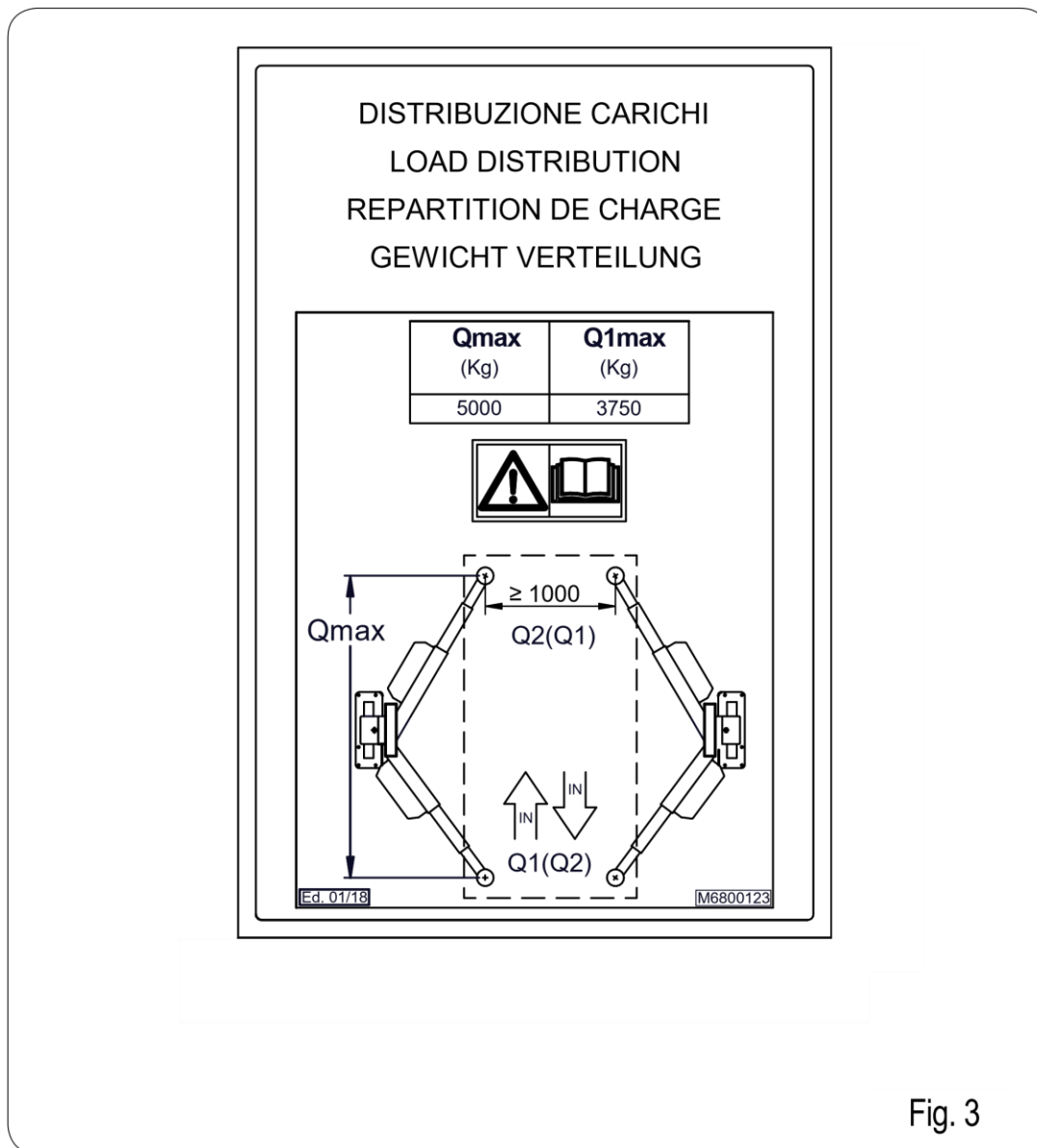



Fig. 2

1.3 RECOMMENDED LOAD ARRANGEMENT (Arrangement can be reversed)



1.4 PICTOGRAMS

L O G O	INDIRIZZO		
	Sollevatore per veicoli		
N° di serie	A		
Modello	B	Frequenza Hz	G
Carico Max. kg	C	Potenza kW	H
Massa kg	D	Pressione bar	I
Anno costruzione	E	Assorbimento A	L
Tensione V	F		

1.5 PICTOGRAMS APPLICATION DIAGRAM

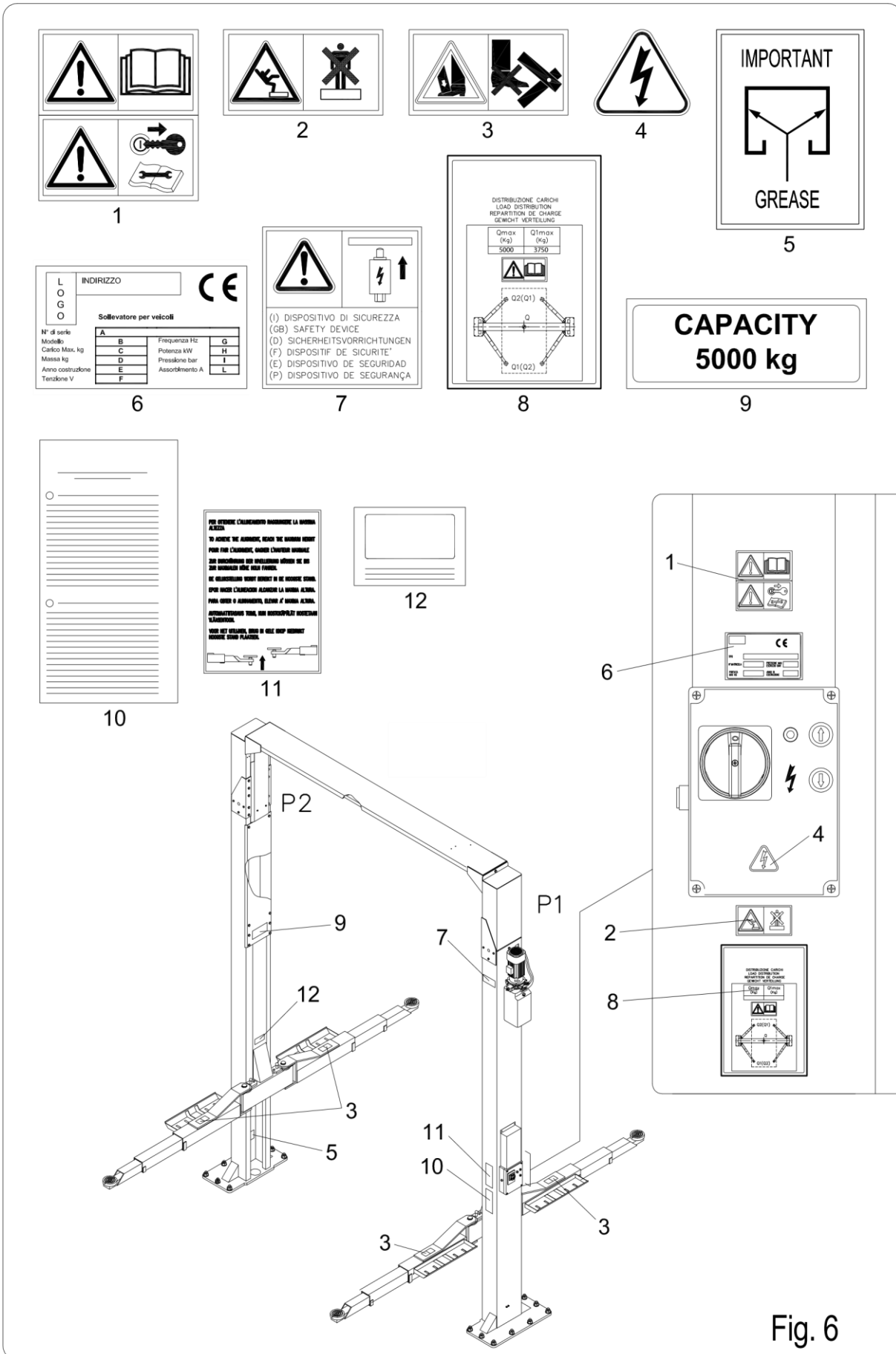


Fig. 6

1.6 HAZARDOUS AREAS

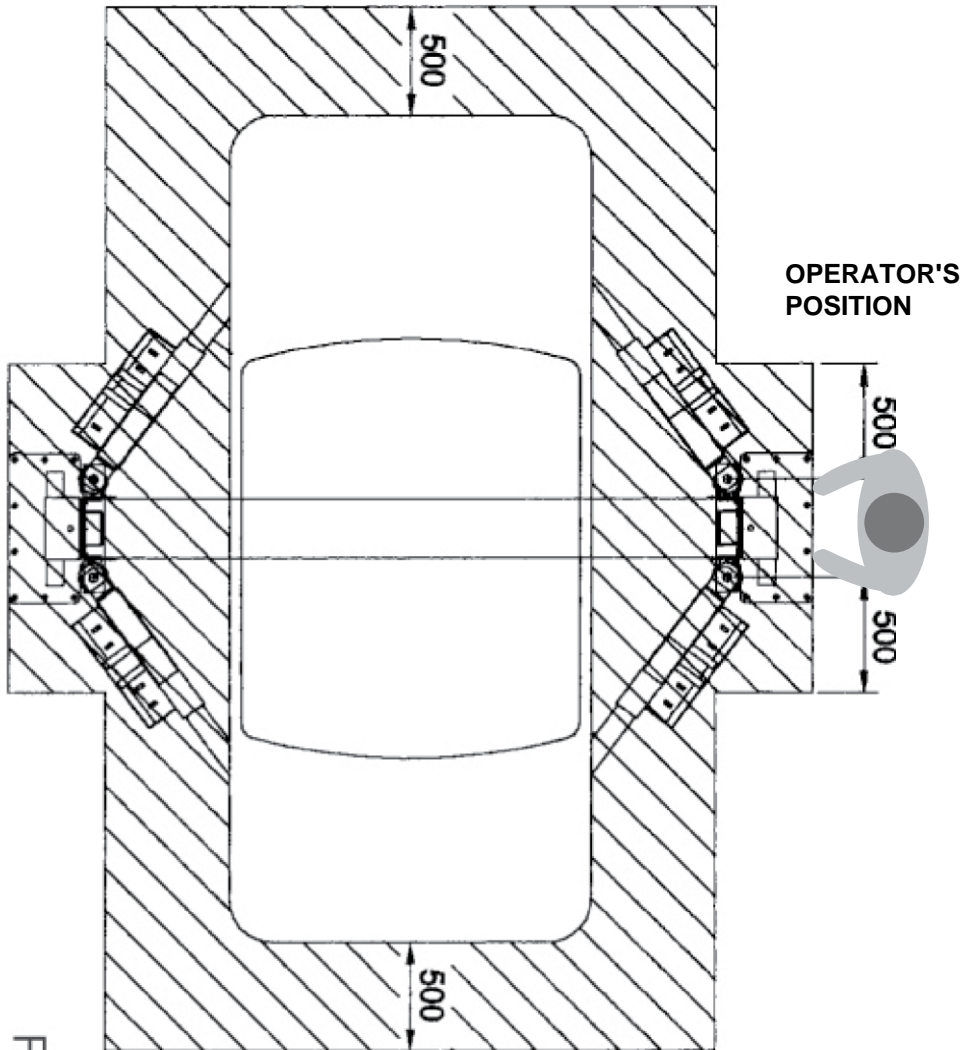


Fig. 5

Fig. 7

1.7INSTALLATION

OVERALL DIMENSIONS

	MODEL		
	BASE	X 4470	XL 5070
L (mm)	3920	4520	5120
Max Kg	1040	1110	1160

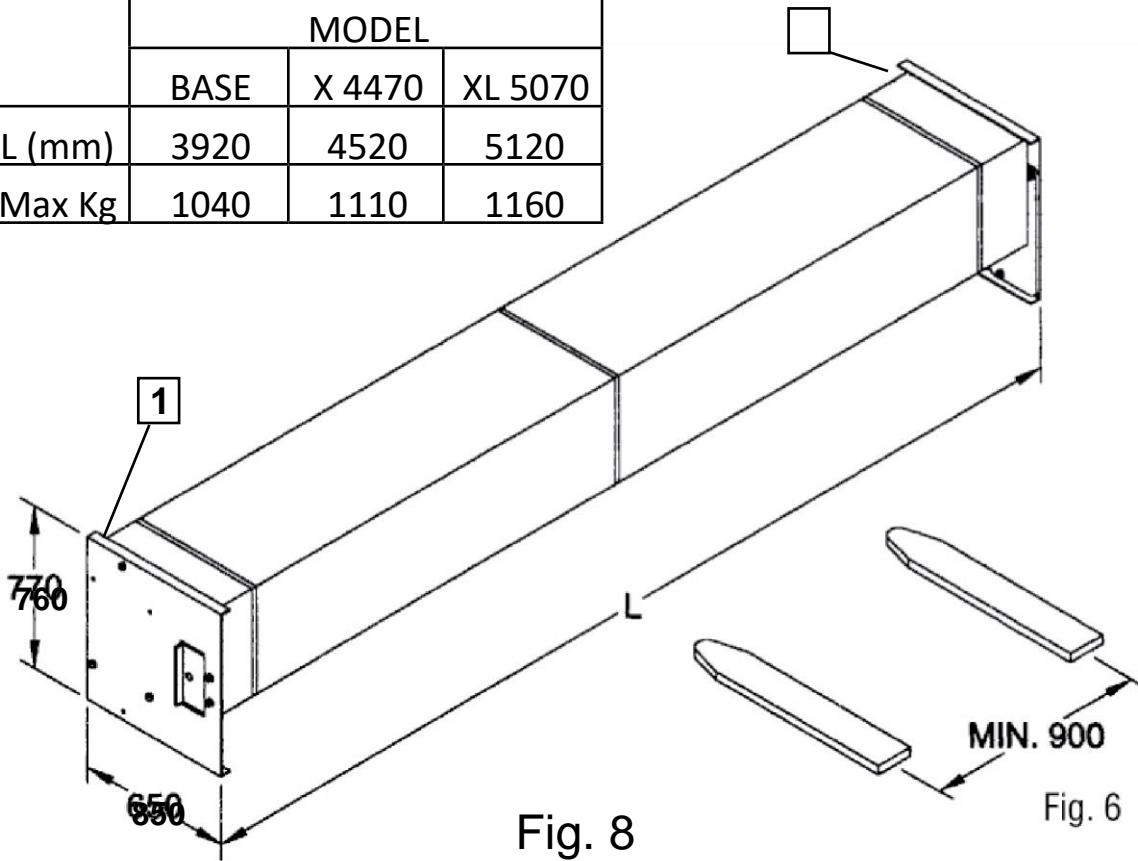


Fig. 8

Fig. 6

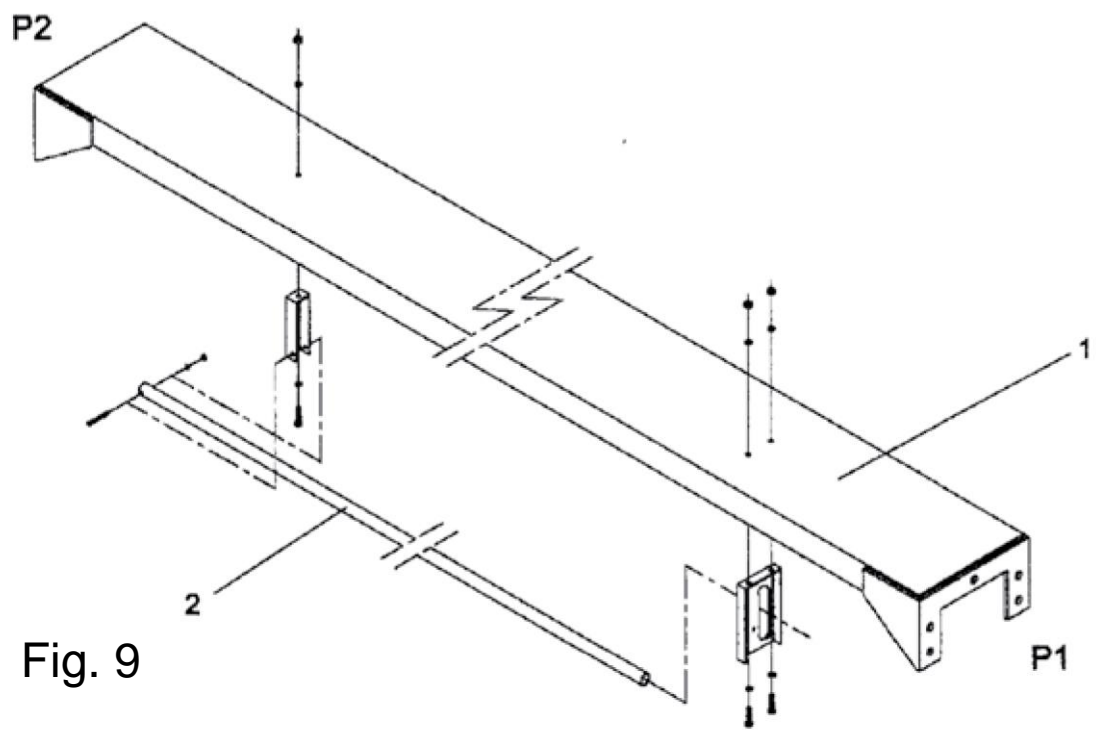


Fig. 9

Model	A	B
	mm	mm
V 50 **	3100	3170

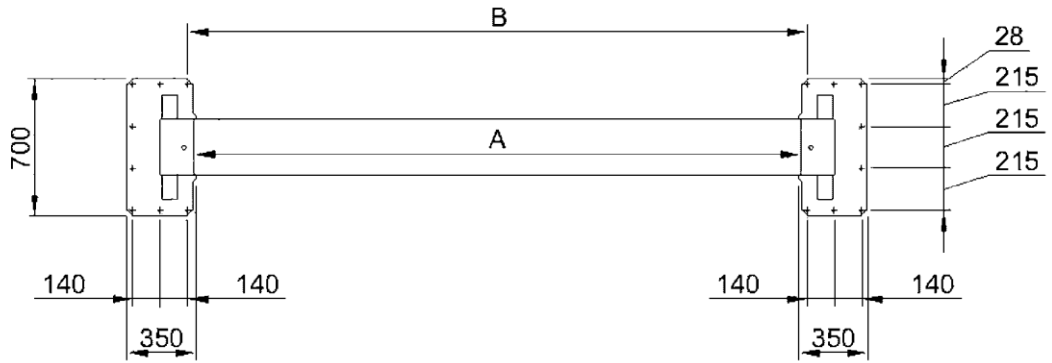
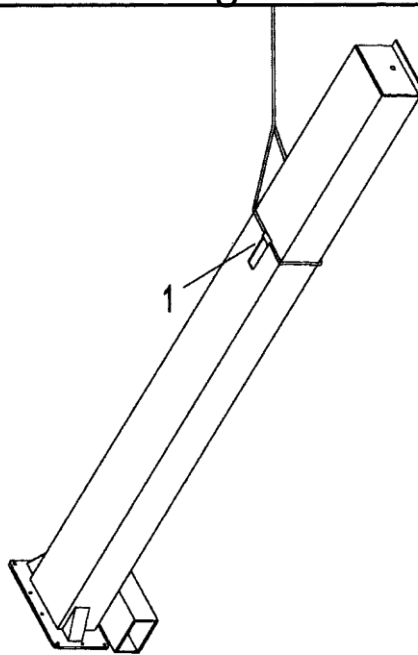


Fig. 10



MODEL	Kg
	Max
BASE	354
X 4470	384
XL 5070	414

Fig.

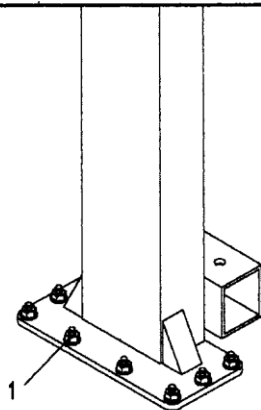


Fig. 12

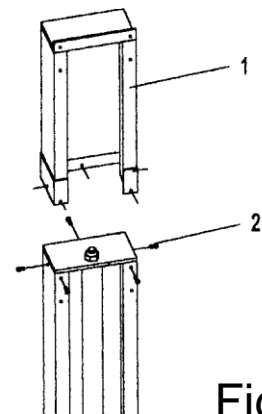


Fig. 13



Fig. 13

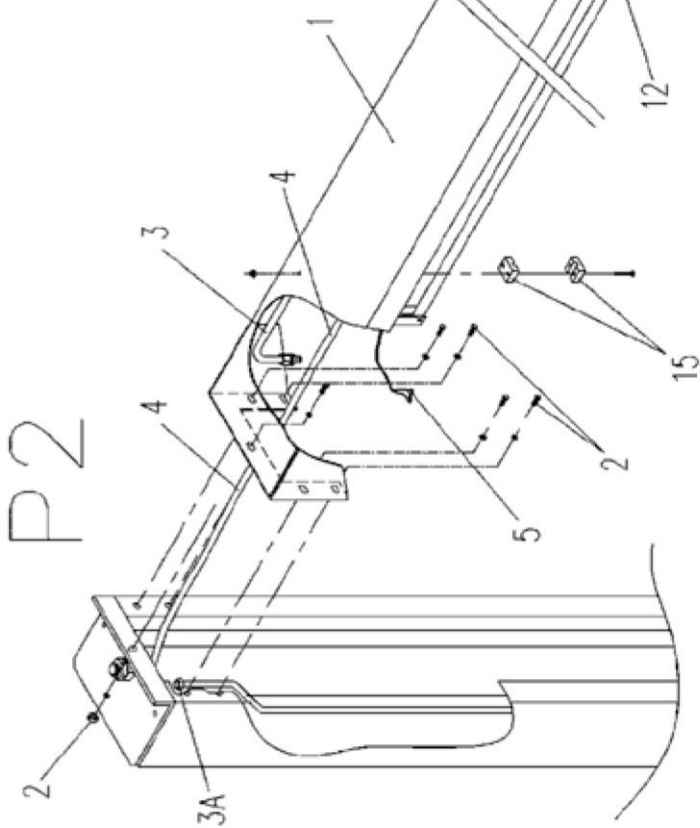
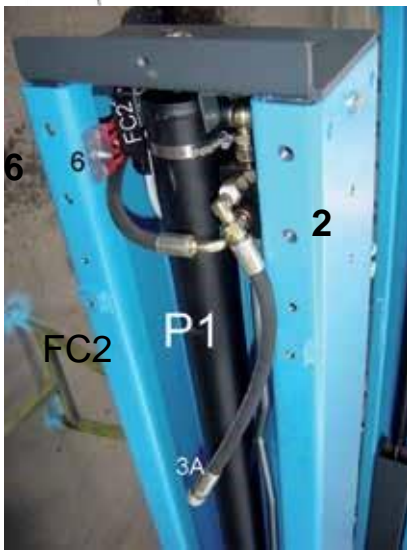


Fig. 16

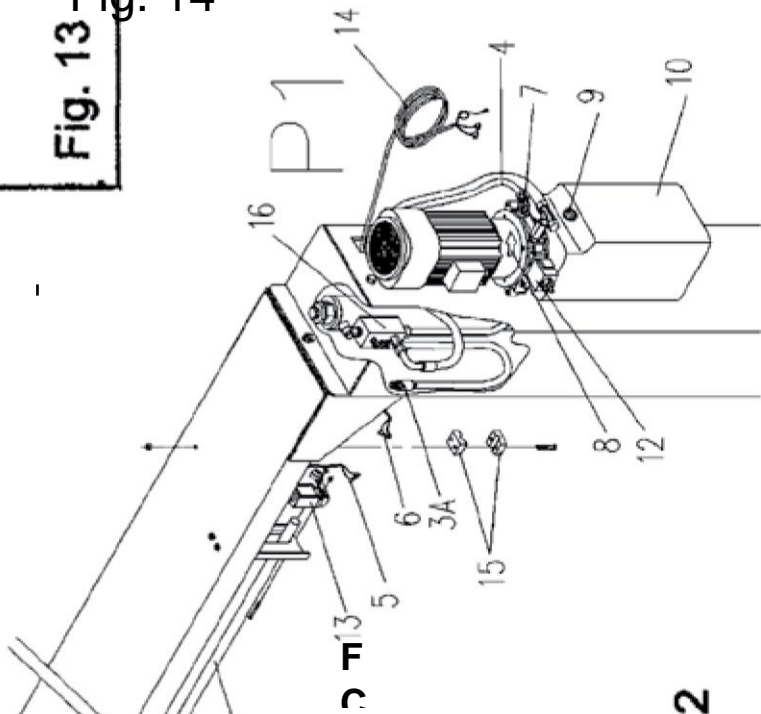


Fig. 12

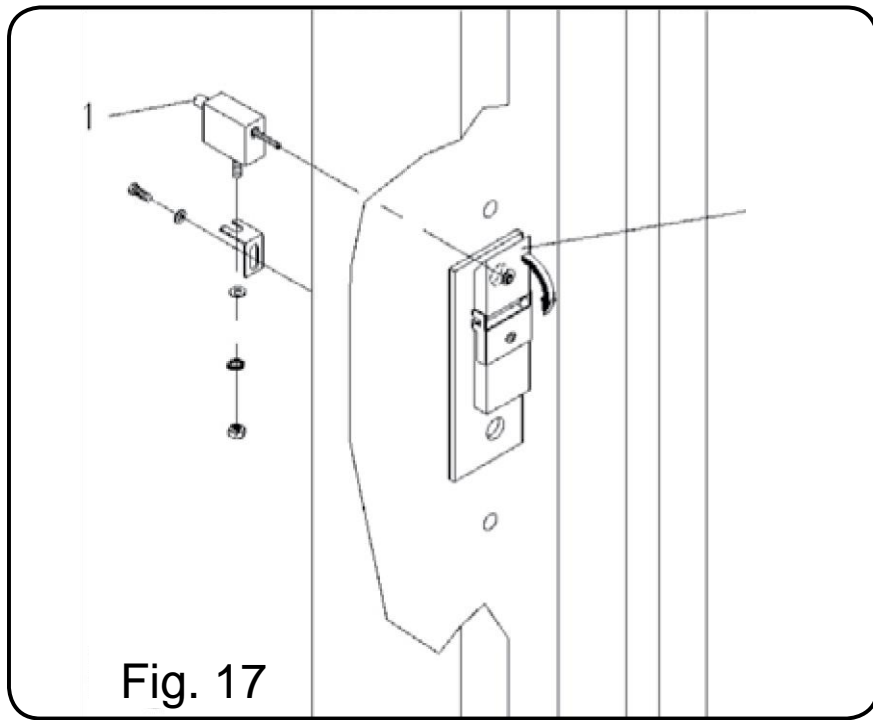


Fig. 17

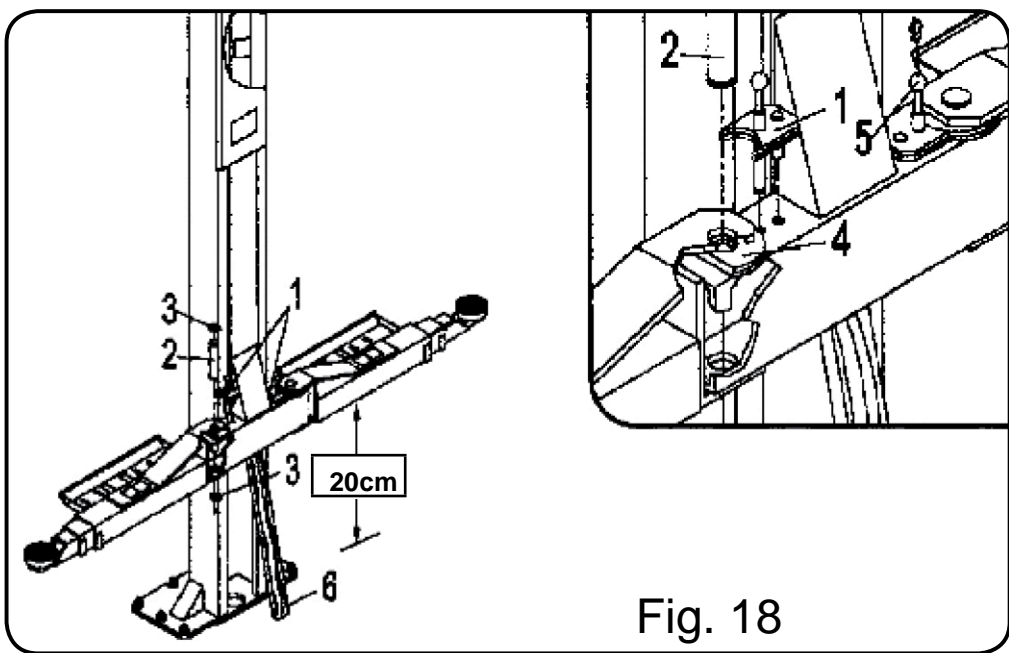


Fig. 18

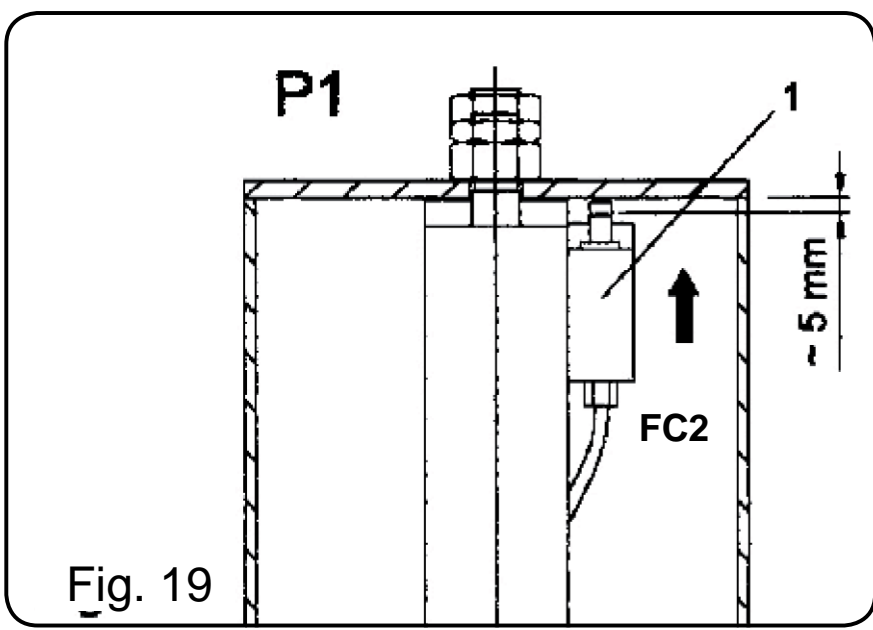


Fig. 19

EMERGENCY LOWERING



Fig.



Fig.



Fig.



Fig.



Fig.

2.0 FOREWORD

This manual includes the instructions relating to the installation, use and maintenance of the lift system called "Vehicle Lift". The vehicle lifts **described in this manual** are designed and constructed solely to lift vehicles for repair, maintenance, and inspection purposes. Lift operation, economy and duration depend on the compliance with the instructions given in this manual. The parts that can be supplied also as spare parts are listed in the last section of the manual. **To make instructions reading easier, vehicle lift will be hereinafter simply called "lift".**

2.1 EC CERTIFICATION

2006/42/EC Directive, commonly known as the "Machines Directive" specifies the conditions to be respected before a machine can be put into the market. This Directive provides that all machines can be marketed and commissioned only if they do not jeopardize people, pets or property safety and health. To certify lift compliance with Directive provisions, before marketing, the manufacturer subjected a machine specimen to the audit of a notified body.



Lift, manufactured in compliance with 2006/42/EC Directive provisions, and can thus be marketed without jeopardizing user's safety. Lift is thus delivered to the customer with:

- EC Declaration of Conformity
- CE Marking
- Instructions for use
- Inspection records

2.1.1 TESTING

The lift has undergone static and dynamic tests based on the procedures included in the EN 1493:2010. Concerning lift testing, please refer to the relevant section in the Inspection records.

The instructions given in this manual shall be compulsorily respected: The Manufacturer will not be held responsible under any circumstances arising from negligence, from non-compliance with the instructions and from an improper or inconsiderate use of the lift.

Failure to comply with the instructions given in the manual makes the warranty directly become null and void.

The Company also disclaims any liability for damages caused by lift improper use and/or due to changes made without the manufacturer's authorization.

3.0 GENERAL SAFETY AND ACCIDENT-PREVENTION RULES

FOR A SAFE USE OF THE VEHICLE LIFT DESCRIBED IN THIS MANUAL

THE FOLLOWING IS ALLOWED:

- Using lift only to lift vehicles for inspection, maintenance and/or repair operations.
- Using lift only to lift vehicles respecting capacity limits and loads distribution indicated in this manual.
- Only authorized personnel, in good health conditions, responsible and duly trained on the allowed uses and risks originated by lift use may operate the lift.
- The operator is allowed to use the vehicle lift only after he has thoroughly read, understood, and assimilated the contents of this manual.
- Using lift only inside closed premises, protected against atmospheric agents such as: rain, snow, wind, etc...
- Only one operator at a time may use the lift in the safety position in the indicated area, close to the control panel.

IT IS COMPULSORY:

- Lift installation and maintenance operations shall be compulsorily carried out by qualified personnel only, and in full compliance with the instructions given in this manual.
- Before installing lift, you shall compulsorily check that the premises where you wish to position it are well aerated and lit. (avoid blinding light sources).
- You shall compulsorily check that the floor where you wish to install lift is solid, flat, and perfectly levelled in all directions.
- You shall compulsorily check that the floor has been constructed to withstand the max. allowed loads, including the lift, on lift resting areas.
- Lift shall be compulsorily positioned far from heat sources or devices that could generate electromagnetic radiation.
- Lift shall be compulsorily positioned so that, during standard operation, with the vehicle loaded on it, it does not interfere with or squash any nearby fixed or moving part. Take special care to power, water and gas systems.
- The lifting or handling operations of lift or of any lift parts shall be compulsorily carried out under full safety conditions with suitable lifting equipment, as envisaged by the National prevailing regulations.
- Lift shall be compulsorily secured to the floor only using anchors and screws of the type recommended by the manufacturer (for lifts, where envisaged).
- Before using the lift, the wholeness of lifting elements shall be compulsorily checked.
- Before using the lift, you shall compulsorily check that safety devices are perfectly installed and in good operating conditions.
- Vehicle shall be compulsorily positioned as shown in the table of the manual and/or the table stuck to lift.
- Vehicle shall be compulsorily lifted from the resting points specified by the vehicle manufacturer.
- When moving vehicle up, after the first 200 mm and before continuing the raising, load stability shall be compulsorily checked in all directions.
- During the whole raising movement, load stability and lift correct and linear movement shall be compulsorily checked.
- Before accessing the working area, lift shall be compulsorily put in mechanical safety position with the special command (where applicable).
- Before accessing the working area, lift shall be compulsorily disconnected from power sources by turning to 0 (zero) the lockable rotating disconnecter positioned onto control panel.
- You shall compulsorily check that the disassembling of some of the parts of the vehicle positioned onto lift does not originate any load unbalance.
- Before starting lift lowering, you shall compulsorily check that no people, animals, or things that could interfere with the moving parts are under and around the working area.
- During lowering, you shall compulsorily and constantly check lift and lift load movement. In case of failure, immediately turn emergency disconnecter.
- In case of irregular noise or operating failures, you shall compulsorily stop lift operation, and check the cause of such irregularity. In case of doubt, contact the manufacturer's service department.
- Power supply shall be compulsorily sectioned whenever adjustment, repair or maintenance operations must be carried out on the equipment.
- All danger signaling decals present onto the lift shall be compulsorily cleaned or changed.

- Lift shall be compulsorily cleaned and all oil spots on the floor cleaned out, as they are extremely dangerous.
- All ordinary and extraordinary maintenance operations shall be compulsorily and thoroughly carried out, as indicated in this manual; also, periodical checks to be recorded on the special "inspection records" coming with the lift shall be compulsorily carried out.
- You shall always compulsorily use the manufacturer's original spare parts.

IT IS FORBIDDEN:

- It is forbidden to misuse lift as well as to use in any other manner not specified in the "INTENDED USE" section of this manual.
- It is forbidden to lift loads with just some of lift parts (one runway only, or two arms only).
- It is forbidden to install lift in hazardous premises containing inflammable and/or explosive substances, or where inflammable gases or vapors can be created.
- It is forbidden to install lift inside premises exposed to atmospheric agents.
- It is forbidden to install lift in premises where washing or sandblasting operations are carried out, or in very dusty premises.
- It is forbidden to install lift on vehicles or watercrafts.
- It is forbidden to use lift in presence of strong magnetic fields.
- It is forbidden to use lift to lift objects other than the specified ones (cases, containers, or pallets) or to use it as a hoist.
- It is forbidden to use the lift to lift people or animals.
- It is forbidden to lift vehicles with people or animals onboard.
- It is forbidden to use the lift if the room temperature is below 5°C or above 40°C.
- **It is forbidden to voluntarily cause load oscillations during raising or lowering maneuvers, or while load is lifted.**
- **It is forbidden to access work area under the lift without having enabled safety mechanical devices and turned disconnecter to 0. It is forbidden to leave the lift unattended without having positioned it at the min. height or in mechanical safety position. Then section power supply, and lock disconnecter using a padlock.**
- It is forbidden to remove or change lift protections or safety devices.
- It is forbidden to change lift or lift parts, any tampering with or change will immediately invalidate warranty, and will relieve manufacturer of any direct or indirect liability for damages due to such tampering or changing operations.
- It is forbidden to use parts or accessories not supplied by the manufacturer.

3.1 SET-UP AND CLOTHING

Set up a space suitable for the machine, and the working environment, by carefully evaluating the following aspects:

- **The position shall be safe, free from any hinder, and protected against atmospheric agents. From the control position, the operator shall be able to see the whole system and the working area, and to immediately detect the presence of unauthorized persons and objects that could originate any danger.**
- **The hazardous area minimum distance from the walls of the premises where the lift is installed must be of at least 70 cm. Lighting shall be good, but without blinding or intense lights, and there shall be no sources or processes that could develop gases or flammable vapors.**
- **Avoid wearing unsuitable clothing. They could get entangled in lift moving parts. As disposed by the National prevailing rule, besides wearing clothes suitable to the work site, the operator will have to compulsorily wear complementary protective accessories to prevent any injury, such as: helmet, goggles, gloves, suitable shoes, etc.**

3.2 ENVIRONMENT AND POLLUTION

- **Lift shall not be used for vehicle washing, degreasing, sandblasting, and grinding.**
- **Comply with the National prevailing standards relating to the use and disposal of the products used for lift cleaning and maintenance, respecting the manufacturer's recommendations.**

- Traps and drainage ditches shall discharge fluids, where and as indicated by the National prevailing standards.

3.3 LIFT SCRAPPING

As for products disposal upon lift scrapping, DO NOT disperse parts in the environment, but contact a company specialized in waste storage.

To avoid any environmental pollution risks, take the following precautions:

- The oil contained inside hydraulic control unit, relative circuit and cylinders shall be fully collected. (if available).
- Disassemble lift parts by dividing them into groups of the same material in order to proceed to their separate disposal.
- Exhausted hydraulic oil, rubber parts, and iron scraps are special waste. Dispose of or temporarily store them in compliance with the National prevailing anti-pollution standards.

3.4 DANGER LEVELS



Pay special attention to the following danger sign when you find it in this manual and follow the safety recommendations. Danger signals have three levels:



DANGER: this signal warns that, if the described operations are not carried out correctly, they cause severe injury, death, or health long-term risks.



WARNING: this signal warns that, if the described operations are not carried out correctly, they may cause severe injury, death, or health long-term risks.



CAUTION: this signal warns that, if the described operations are not carried out correctly, they may cause machine damage and/or personal injuries.



WARNING: carefully read the following rules: whoever does not put into practice the recommendations described hereinafter may be subject to irreparable damages or cause them to people, animals, or property.

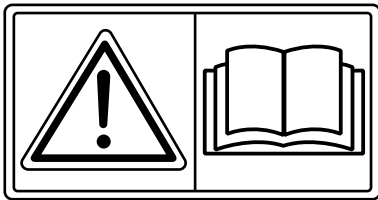
The Company disclaims any and whatever liability arising from the failure to comply with the safety and accident-prevention rules described hereinafter.

The Company also disclaims any liability for damages caused by lift improper use and/or due to changes made without the manufacturer's authorization.



3.5 HAZARDOUS AREAS

- Before using the lift, make sure that no unauthorized persons nor animals are present within the hazardous area delimited by the yellow stripe (Fig. 7).
- Persons or animals shall by no means stop or pass within the hazardous area delimited by the yellow stripe (Fig. 7), when using lift even for small movements, and whenever the Emergency Switch/OFF (19, Fig. 1) is not in the OFF (0) position.
- Figure 7 indicates the lift hazard areas for persons or animals. It is strictly forbidden to approach this area if lift is moving due to the hazard of all machine mobile parts.



**BEFORE USING THE LIFT, CAREFULLY READ THE INSTRUCTIONS
GIVEN IN THIS MANUAL**

3.6 LIFT IDENTIFICATION AND PICTOGRAMS DESCRIPTION

The safety signals described in this manual are applied on the lift (fig. 6) and warn about unsafe and hazardous situations. Decals shall be kept clean and, if detached or damaged, they shall be immediately changed. Carefully read the meaning of the safety signals, and memorize it:

1	CE plate			
	A	Serial No.	H	Power
	B	Model	I	Pressure
	C	Max. Load	L	Absorption
	D	Ground		
	E	Many. Year		
	F	Voltage		
	G	Freq.		

WARNING: Once the assembly has been carried out, the operator should apply the identification plate, according to the installed

The vehicle lifts described in this manual are designed and manufactured for lifting vehicles for inspection, maintenance and/

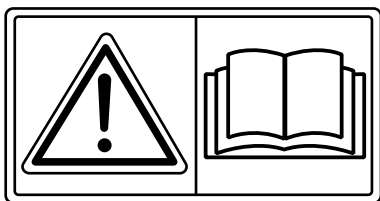
Each lift is supplied with the identification plates (Fig.5) relative to the different regions. Data (A) and (B) have always to be mentioned for any service and spare parts need.



lift version, in its proper position (6, Fig. 6).

3.7 INTENDED USE

or repair purposes only.



- **The vehicle lift must be used only for lifting vehicles within the load capacity limits given in the IDENTIFICATION PLATE (Fig. 5) and in the paragraph 1.3 "LOAD DISTRIBUTION" (Fig. 3) BEFORE USING THE LIFT, CAREFULLY READ THE INSTRUCTIONS**

GIVEN IN THIS MANUAL

4.0 HANDLING AND INSTALLATION

4.1 TRANSPORT AND UNLOADING



WARNING: If not carried out with the utmost care, lift unloading, transport and lifting operations can be dangerous: so keep all the unauthorised persons away from lift; clean, clear and delimit the installation area; check that the lifting equipment are suitable for use, in good operating conditions and perfectly efficient; do not touch any suspended loads, and stay at safety distance; during transport, suspended loads shall not be more than 20 cm from floor; thoroughly respect the following instructions; do not proceed in case of doubts or uncertainty. After unpacking the different lift components, check for any visible damages. In case of doubt, do not proceed with the assembly operation and contact the manufacturer or the dealer.

For transport and volume requirements, the lift is shipped partly disassembled in its basic components. The different components of the packed lift are kept together by means of suitable bolted brackets to ensure easy and safe transport and handling. Packed lift shall be transported with a forklift having a suitable capacity. During handling, make sure that the packed lift or the single columns are not subject to impacts or dashes. Packed lift overall dimensions and mass are shown in Figure 8.



The packing items, plastic, polystyrene, nails, screws, pieces of wood, etc. are potentially dangerous and should not be left within reach of children. These materials are not biodegradable and should be disposed of in the suitable collection points.

4.2 INSTALLATION



WARNING: All the following installation, adjustment and testing operations should be carried out only by qualified and responsible staff operating according to the applicable electric, hydraulic, mechanic and building safety standards.



DANGER: The installation, the adjustment and the testing of the lift imply potentially dangerous operations.

Therefore, all the instructions given below should be carefully read. In case of doubt, please contact the Manufacturer. The MANUFACTURER disclaims any responsibility in case of non-compliance with the safety standards and with the accident prevention rules given in this manual.

4.3 FOUNDATIONS

Lift shall be laid onto a reinforced concrete layer class "RcK 30" (3000 N/cm²) with a min. thickness of 20 centimeters and spanning at least 1.5 m away from anchoring points. The concrete platform shall be smooth and perfectly levelled in all directions, and cast on a compact ground. The overall dimensions of the full system are given in Fig. 10.

4.4 POSITIONING AND INSTALLATION OF THE STRUCTURE



WARNING: At this stage of the installation, **DO NOT** perform any electrical connections.

4.4.1 POSITIONING AND FIXING OF THE COLUMNS AND THE CROSSBEAM

1/ Remove the brackets (1, Fig. 8) from the columns by keeping them lifted with wood pads or cranes to work comfortably.

N.B: WITH EXTENSIONS ON THE COLUMNS, (1, Fig. 13). The extensions must be placed on the column top and secured with the supplied brackets and screws (2, Fig. 13). THIS OPERATION SHALL BE CARRIED OUT BEFORE LIFTING THE COLUMNS VERTICALLY.

2/ Using suitable hoisting and slinging systems, hook one of the columns to the bracket (1, Fig. 11) already pre-assembled on column outer side, as shown in Figure 11, and place it in the desired position.

3/ Drill eight 150-mm deep anchoring holes in the floor (1, Fig. 10) using a 16 mm drill. Then carefully clean the holes and the floor.

4/ Fit the 8 M16 anchor bolts (type HILTI HSA-A M16x175/60 1 Fig. 12 and 1 Fig. 10) hitting gently with a hammer. Manually tighten nuts.

5/ Position the other column and ensure that the columns are at the correct distance and properly aligned. It is possible to check this by fitting the overhead crossbeam on the lifting carriages; the crossbeam ends shall coincide with the column open sides. (see also Fig. 10 and Fig. 2) 6) Drill the floor and fit the 8 anchor bolts for this column too. Manually tighten nuts.

6/ Now mount the overhead safety shut-off bar (1, Fig. 16) on the overhead crossbeam (12, Fig. 16) as shown in

Fig. 16 using the supplied brackets and screws.

7/ Lift the crossbeam using suitable hoisting and slinging systems (1, Fig. 16), place it between the two upper ends of the columns and fix it with the supplied screws (2, Fig. 16).

8/ Mount the overhead safety shut-off limit switch (13, Fig. 16) on the crossbeam bracket as shown in Fig. 16 using the supplied screws, so that the safety pipe (12, Fig. 16) is under the limit switch FC1 lever. Whenever the safety pipe is pushed upwards, the FC2 limit switch (13, Fig. 16) must trip.

9/ Tighten the anchor bolts (1, Fig. 12 and 1, Fig. 10) to 100 Nm. If the anchors spin freely, they should be replaced with larger anchors.

4.4.2 HYDRAULIC CONNECTIONS



CAUTION: At this stage of the installation, **DO NOT** perform any electrical connections.

CAUTION: It is crucial that hydraulic system and connections are duly laid out.

- Connect the metal transverse pipe (3, Fig. 16), which is inside the crossbeam (1, Fig. 13), to the relevant fittings inside the two columns (3A, Fig. 13). In the versions equipped with column extensions, the two pipe sections are supplied with relevant fittings to connect the column pipes to the crossbeam ones.
- Extract the rubber discharge pipe from the column P2 (4, Fig. 16), bring the pipe to the hydraulic unit and connect the two with the relevant fitting (7, Fig. 16).
- Finally check that all fittings are correctly tightened.

- Fit the transverse pipe (3, Fig. 16) at the centre of the crossbeam with the supplied terminals (15, Fig. 16).

4.4.3 ELECTRICAL CONNECTIONS

- Lift electrical panel hook-up voltage shall correspond to the voltage value indicated on the electrical board.
 - The electrical board shall already be connected to a main switch manufactured and installed in compliance with the National prevailing standards.
 - The system delivering power to the lift electrical board shall be in compliance with the National prevailing standards.
 - Min. needed power is 3 kW.
 - Power circuit wires min. section shall be 4 mm².
 - During this phase, electric motor can be operated just for a few seconds, in order to avoid any damage to the hydraulic pump.
-
- Connect the micro-switch cable (FC1) fitted in the crossbeam (5, Fig. 16) to the numbered connection (6, Fig. 16) in the P1 column.
 - Connect the electromagnet cable of the P2 column to its numbered connection in the P1 column.
 - Connect the power supply cable (14, Fig. 16), coming out from the P1 column, to the power mains. The connection must be carried out in compliance with the prevailing national regulations.
- Upon completing installation, connect workshop ground circuit to lift structure so as to avoid any electrostatic discharge ac-

WARNING: Before proceeding with the following operations, carefully read the recommendations set forth in section 4.0 relating to instrument panel functions, and acquire the right familiarity by carrying out the operations with the unladen lift.

- Power the line, and check that Emergency Switch/Disconnecter (19, Fig.1) is set to ON (turn it, if necessary).
- Press and release the "UP" push-button (22, Fig. 2) and check that the motor rotates in the direction shown by the arrow (8, Fig. 16) printed on the fitting flange of the motor base. Should this not be the case, cut off power from mains, and reverse two phases onto junction box terminal board.

4.4.4 HYDRAULIC SYSTEM FILLING



WARNING: Always check for any oil leak. In case of leaks, cut power off, and tighten any loose union.

To raise the carriages, proceed as follows:

- Unscrew the oil filling plug (9, Fig. 16) and fill the tank (10, Fig. 16) with 7 l hydraulic oil, type ISO32).
- Press and hold the "UP" push-button (22, Fig. 2) until carriage P1 reaches a height of about 50 cm.
- Place arms (6, Fig. 1) nearby the carriages (4, Fig. 1) so that the arms (6, Fig. 1) are assembled with the foot guards (14, Fig. 1) pointing towards the outside of the lift.
- Mount the two arms to the lifted carriage through the plug (2, Fig. 18) by fixing it in the ends with the two snap rings (3, Fig. 18); during the assembly, take care to place them correctly, with the arm anti-

rotation safety devices (5, Fig. 18): they must feature their toothed part facing the rack (4, Fig. 18) of every arm. The arm anti-rotation safety devices can be temporarily cut-off by pulling the knob (5, Fig. 18) upwards.

- Press the "UP" push-button (22, Fig. 1) and keep it pressed until the carriage P1 reaches its maximum height. Now pour 3 more liters of oil into the tank.
- Press the "UP" push-button (22, Fig. 1) again until carriage P2 reaches a height of about 50 cm.
- Assemble the arms to the carriage of column P2, proceeding as described at point 4.
- Press again the "UP" push-button (22, Fig. 1) until carriage P2 reaches its maximum height. After reaching the maximum height, keep the push-buttons pressed for another 10 - 15 seconds to allow the air bleeding.

4.4.6 CARRIAGE ALIGNMENT

4.4.6.1 CARRIAGE ALIGNMENT AT THE FIRST START-UP

1. Press the DOWN push-button (23, Fig. 1) until the minimum height is reached.
2. Press the "UP" push-button (22, Fig. 1) until the two carriages reach their maximum height.
3. After 5 - 10 minutes break, needed to allow the air, if any, to separate from the oil, carry out an UP-DOWN run as described at points 1) and 2), checking that the safety devices described in this manual work correctly.
4. With the carriages fully down, check and, if necessary, restore the oil level until it reaches 2 - 3 cm under the oil intake hole. (Fig. 14)



The alignment of the carriages should always be carried out with the utmost care by qualified and responsible staff, as it is essential for the correct operation of the lift and for the safety of the operator.

4.4.6.2 ALIGNMENT DURING THE OPERATION

During operation, the alignment of the carriages is automatically maintained by a hydraulic system of serial connected jacks with a transfer circuit. It is however compulsory to always carry out the alignment each time a slight difference in the height of the two carriages is noted.

In this case, press the "UP" push-button (22, Fig. 1) until both carriages reach their maximum height. Keep pressed for a few seconds. (This manoeuvre can be carried out also during the ordinary operation with a load on the lift, provided that the misalignment between the carriages does not exceed 3-4 cm.). Then, proceed with the lowering manoeuvre.



WARNING: During this operation check that the misalignment of the carriages remains constant.



DANGER: It is forbidden to use the lift in case the load-bearing arms are rapidly misaligned after carrying out the alignment of the carriages.

4.4.7 DECALS AND PICTOGRAMS APPLICATION

Attach the decals (if they are not yet applied by the manufacturer) supplied with this manual to the lift in the positions shown in the diagram in Figure 6.



WARNING: failure to attach the decals will make the warranty null and void and the manufacturer shall not be liable for any damage resulting from lift operation.

In the event one or more decals of the lift are damaged, or so deteriorated as to become illegible or are lost, contact the seller or the manufacturer with the position number shown in Fig. 6. Attach the new decals at the correct positions on the lift as soon as possible.



5.0 INSTRUCTIONS FOR USE

WARNING: Carefully read the indications set forth in sect. "General Safety and Accident-Prevention Rules".

WARNING: Before carrying out any operation using the control panel, make sure that nobody is close to the lift.

5.1 PUSH-BUTTON PANEL

The operations to be carried out using the push-button panel are:

5.1.1 LIFT LIFTING



- Check that the Emergency Switch/Disconnecter (19, Fig. 1) is set to "ON" (turn it, if necessary).
- Press the UP push-button (21, Fig. 1) until the desired height is reached.



WARNING:

On releasing the UP push-button (21, Fig. 1), the lift carries out the AUTOMATIC BRAKING phase; in this phase the carriages automatically move down until the mechanical safety devices are engaged.

WARNING: The AUTOMATIC BRAKING function is automatically cut off when the lower edge of the carriage (Fig. 18) is less than approximately 20 cm above the floor (FCE limit switch operation, Fig. 25). From this height to the floor, the carriages can be moved up and down by the operator, with no automatic operation.



WARNING: Make sure to have carefully read and understood the provisions set forth in §4.2 LIFTING OPERATION before starting a lifting manoeuvre.



5.1.2 LIFT LOWERING

Press the "DOWN" push-button (23, Fig. 1) until the desired height is reached.

On pressing the DOWN push-button (22, Fig. 1), the carriages are lifted for a short stroke, enabling the release of the mechanical safety lock, then they go down as long as the push-button is pressed.

WARNING: On releasing the DOWN push-button (22, Fig. 1), the lift carries out the AUTOMATIC BRAKING phase; in this phase the carriages automatically move down until the mechanical safety devices are engaged.

WARNING: The AUTOMATIC BRAKING function is automatically cut off when the lower edge of the carriage (Fig. 18) is less than approximately 20 cm above the floor (FCE limitswitch operation, Fig. 25). From this height to the floor, the carriages can be moved up and down by the operator, with no automatic operation.

5.1.3 EMERGENCY SWITCH / DISCONNECTOR/OFF

- Turning Emergency Switch/Disconnecter (19, Fig. 1) to 0 (OFF), lift will stop working completely.
- This operation shall always be carried out before accessing the working area under the lift.
- Lift functions are enabled by turning Emergency Switch/Disconnecter back to 1 (ON).

Any failure or defect in one of more lift parts, or any power supply circuit failure or malfunction will not result in hazardous situations, as the LIFT features a power disconnecter for machine insulation. Up and down commands, in addition, are of the "deadman" type (hand-held). So, in case of power supply circuit failure, neither the accidental operation nor the stop prevention, and neither the load fall nor the safety devices inefficiency will be possible if the command has already been sent through the disconnecter.

During raising or lowering, lift moving parts are thus always stopped in case of power supply circuit failure. No hazardous situations will occur upon power supply circuit restore, as the operator will have to manually enable each single Lift movement using the hand-held control switch.



WARNING: Before leaving lift unattended, besides turning the Emergency Switch/Disconnecter (18, fig. 2) to 0 (OFF), the operator **MUST** also mechanically lock its rotating movement inserting a padlock (NOT supplied with the lift) inside the special hole.



5.1.5 VOLTAGE WARNING LIGHT

- The voltage warning light (21, Fig. 1) lights on when the reset/ON push-button enables all the commands and consequently the lift operation.



WARNING: Do not get close to the lift when the voltage warning light is on.

5.1.6 AUTOMATIC BRAKING CUT-OFF

Automatic braking and automatic lifting before the lowering are prevented by simultaneously pressing the AUTOMATIC BRAKING CUT-OFF push-button (24, Fig. 1) and the UP (22, Fig. 1) or DOWN (23, Fig. 1) push-buttons.



This function is active for about 7 seconds, after that the automatic braking is enabled again.



WARNING: Do not get close to the lift when the voltage warning light is on.

5.2 LIFTING PROCEDURE

To lift vehicle, proceed as follows:

- The load of the vehicles on the lift should be well distributed and centred; doors should be closed; no object should stick out of the vehicle outline. The vehicle load centre should be within the 4 resting points; assembling parts from the vehicle may result in the load centre displacement.
- It is forbidden to overload the lift. The lift may be used only for lifting loads within the load capacity given in the "LOAD DISTRIBUTION" table (Fig. 3), while compulsorily placing the vehicles on the lift in compliance with the following rules set forth in the UNI EN 1493:2010: European Standard.
 1. The weight of the vehicle to be lifted, represented by the sum of the two loads Q1 and Q2 (see symbols in Fig. 3), shall not exceed maximum lift capacity (Qmax); i.e.: $(Q1+Q2) \leq Q_{max}$ (Kg).
 2. the maximum Q1 load (Q1max) placed on the pair of long or short arms shall not exceed 3330 Kg as shown in Fig. 3, i.e. $(Q1_{max} \leq 3330$ Kg).



The Manufacturer disclaims any and whatever liability for damages to persons, animals or property arising from non-compliance with the instructions given herewith and/or from an improper use of the lift or any use other than specified in this manual.

- Push Emergency Switch/Disconnecter (19, fig. 1).
- Check that the arms are turned in a way that will not hamper the vehicle access between the lift columns.
- Place the vehicle so that it is placed in a centered position with respect to the lift columns.
- Turn the arms and pull out the extensions bringing the pads to the points designed for lifting the vehicle as indicated by the vehicle manufacturer.



WARNING: Before lifting a vehicle, always check the load distribution with respect to the vehicle mass, strictly complying with to the LOAD DISTRIBUTION table (Fig. 3). Do not lift the vehicle in case the values found are not within the limits given in the LOAD DISTRIBUTION table.

- Turn Emergency Switch/Disconnecter (19, Fig. 1) to "ON".
- Lift the vehicle of about 10 centimeters.
- Check the correct insertion of the rubber pads.
- Check vehicle stability.
- Proceed to vehicle lifting.
- Press the LIFTING push-button (22, Fig. 1 - see 5.1.1).
- Turn Emergency Switch/Disconnecter (19, Fig. 1) to "OFF".

5.3 LOWERING PROCEDURE

To lower vehicle, proceed as follows:

- Turn Emergency Switch/Disconnecter (19, Fig. 1) to "ON".
- Press the DOWN push-button (23, Fig. 1) until the minimum height of the carriages is reached.
- Turn Emergency Switch/Disconnecter (19, Fig. 1) to "OFF".
- Turn the arms in a way that will not hinder the vehicle exit and close the extensions.
- Move the vehicle out of the lifting area.

5.4 SAFETY DEVICES

WARNING: The following safety devices shall by no means be tampered with or disabled; they shall also be always kept in top working conditions:

- The foot guards applied to the arms (14, Fig. 1) prevent the crushing of operator's feet during the arm lowering final stage.
- Voltage warning light (21, Fig. 1): its lighting means that access to the lift is not allowed.
- Arm anti-rotation mechanical safety locks with automatic engagement (15, Fig. 1): prevent the rotation of the lifting arms when the carriage is lifted.
- Carriage fall-preventing safety mechanical devices (1, Fig. 17): they prevent the carriages from lowering in the event of hydraulic circuit blow-by or failure of mechanical lifting parts.
- Safety valves (8 hydraulic diagram): they prevent the lowering of the carriages in case of sudden pressure drop in the hydraulic system.
- Misalignment safety valve (7, hydraulic diagram): it prevents the lowering of the P1 carriage in case the P2 carriage is stuck.
- FC2 limit switch (Fig. 25): it prevents the lowering of the P2 carriage in case the P1 carriage is stuck.
- Emergency Switch/Disconnecter (19, fig. 1): if it is in "OFF" position, it locks the lift functioning.
- Low-voltage additional electric circuit: this circuit cannot originate any "electric shock".
- Overhead safety shut-off system (16, Fig. 1): stops the lift upward movement when the vehicle is about to hit the overhead crossbeam.
- "Dead-man" control panel: all the lift functions require the presence of an operator.

5.5 EMERGENCY LOWERING

WARNING: When an "emergency lowering" of the carriages is carried out, the mechanical fall-prevention safety locks of the car-

The following operations shall thus be carried out only:

- When lift does not go down due to a power failure or in case of power cut-off;
- In case of absolute need;
- By a single qualified operator;
- If the lift area is delimited and made accessible to a single operator.

Emergency carriage lowering procedure:

- Turn Emergency Switch/Disconnecter (23, Fig. 1) to "OFF".
- If the lift is in the braking position, the safety locks will not open. The following operations will be possible only if the lift.

features an emergency manual pump, supplied upon request with the relevant instructions for use, to be used to raise the lift. to release the mechanical safety locks.

- Open the casings (1, Fig. 20) and manually work the electromagnets (3, Fig. 22 and 23) to open the safety devices (2, Fig. 17). If necessary, insert a

- Proceed with a manual lowering manoeuvre as follows:

- 1) Remove completely the cover of the EV1 solenoid valve (1, Fig. 21).
- 2) Press needle (2, Fig. 24) to lower the lift.
- 3) Once the lowering operation is complete, screw the cover tight (1, Fig. 21) and take the mechanical

safety devices wedges in their original position **DANGER: Carefully carry out the operation**

described at point 3



CAUTION: After recovering the lift ordinary operation, carry out 2-3 UP/DOWN runs with the lift unladen and check that the safety devices work normally as described at the following point 5.0

6.0 MAINTENANCE

Maintenance operations are listed hereinafter. A lower running cost and a longer machine life depend, among other things, on the constant execution of these operations.



CAUTION: The listed time schedule is given for information, and relates to standard operating conditions. It is susceptible of changes based on the type of service, level of environmental dusts, frequency of usage, etc... In case of heavier conditions, maintenance operations shall be carried out more frequently. When topping-up or changing oil, always use the same type of oil used before.



WARNING: The following operations should be carried out with unladen lift.

6.1 VOLTAGE WARNING LIGHT

- 1) Turn Emergency Switch/Disconnecter (19, Fig. 1) to "ON".
- 2) Check that the voltage warning light (21, Fig. 1) is on.

6.1.1 CARRIAGE BRAKING MECHANICAL SAFETY LOCKS

- 1) Press the UP push-button (22, Fig. 1) to lift the carriages completely.
- 2) Release the UP push-button (22, Fig. 1) and wait for the carriages AUTOMATIC BRAKING phase end.
- 3) Remove central casings (1, Fig. 20) placed in every column outer side, to have access to the electromagnets (3, Fig. 22-23).
- 4) Pull the two screws controlling the electromagnet wedges outward (1, Fig. 22 - 23). If the screws are > blocked, the safety devices (2, Fig. 17) are engaged.

6.1.2 SAFETY DEVICES CONTROLLING THE CARRIAGE MISALIGNMENT

Raise the carriages up to approx. 1 metre off the floor and proceed as follows:

P1 carriage check:

- 1) Place a wooden block (6, Fig.18) under P1 carriage to interrupt its down travel.
- 2) Press the "DOWN" push-button (23, Fig. 1). When P1 carriage stops on the block, P2 carriage should stop immediately as well.



DANGER: If P2 carriage does not stop, check the safety limit switch FC2 (Fig. 15) fixed to the end of the cylinder of P1 column. Proper operation of limit switch FC2 is critical to ensuring safe operation of the lift. Make sure it is correctly positioned and is operating properly before operating the lift.

P2 carriage check:

- 1) Place a wooden block (6, Fig.18) under P2 carriage to interrupt its down travel.
- 2) Press the "DOWN" push-button (23, Fig. 1). When P2 carriage stops on the block, P1 carriage
- 3) Should stop immediately as well.



If the P1 carriage does not stop, check the single-acting valve (7 Hydraulic diagram and 2 Fig. 15). If necessary, clean it with compressed air and if it does not work, replace it.

6.1.3 RUBBER-COATED PADS

Check their conditions. If worn-out or broken, change them.

6.1.4 EMERGENCY DISCONNECTOR/OFF PUSH-BUTTON

- 1) • Turn Emergency Switch/Disconnecter (19, Fig. 1) to "ON".
- 2) Carry out any operation required for LOWERING or RAISING.
- 3) • Turn Emergency Switch/Disconnecter (19, Fig. 1) to "OFF": the lift must stop immediately.

6.2 PERIODICAL MAINTENANCE

6.2.1 EVERY WEEK

- Check safety devices every week, as specified in this manual.
- Check hydraulic oil level as follows:
- Bring the carriages fully down and check that level is at the mark, 2 ÷ 3 cm under the hole (8, Fig. 14).
- If necessary, top up with hydraulic oil as indicated in the technical specifications through the plug (9, Fig. 16).

6.2.2 EVERY MONTH

- Check lift screws correct tightening;
- Check hydraulic system correct sealing; tighten loose unions, if necessary;
- Check the condition of hydraulic hoses; if worn out, change them with new equivalent ones.

6.2.3 EVERY 200 OPERATING HOURS OR EVERY 5 YEARS, AT THE LATEST

- Replace hydraulic system oil, discharging the exhausted oil from tank. Clean oil filter. For this operation, please refer to the relevant table showing the supplied spare parts.

If these operations are carried out with the utmost care, the user will find the equipment in perfect working conditions upon lift restart.

6.3 EMERGENCY HYDRAULIC PUMP

An emergency hydraulic pump can be installed upon request. This pump will be used in case of power cut-off and, on some occasions - as described in par. "5.5 Emergency Lowering" - in case of any lock at the lowering system.

Please note that the Manufacturer is always at your disposal for any service and spare part needs.

7.0 TROUBLESHOOTING

PROBLEMS	POSSIBLE CAUSES	ACTIONS
The lift does not work. No reaction.	- Switch/Disconnecter in OFF position. - No power supply. - Cable connections. - Burnt-out fuses.	- Turn the Emergency Switch/Disconnecter to the ON position. - Check cause. - Check connections. - Replace.
Raising push-button pressed, motor rotating, but lift does not move.	- Motor direction of rotation. - Not enough oil inside tank. - Discharge solenoid valve (EV1) faulty.	- Reverse cable connections. - Restore oil level. - Check the solenoid valve and replace, if required.
No reaction on pressing the UP push-button.	- Cable connections. - Micro-switch FC1 tripped or faulty.	- Check connections. - Check.
Carriage P1 is in a higher or lower position with respect to carriage P2.	- Presence of air in the system.	- Bleed air and re-align (§ 3.4.5)
On pressing the DOWN push-button the carriages stop at different heights.	- Misalignment.	- Align the carriages. (§ 4.4.6.1)
On pressing the DOWN push-button, the carriages do not go down.	- Safety valve operation.- P2 carriage is stuck. - FC2 tripped or faulty	- Check. - Raise the carriage and release it. - Check.

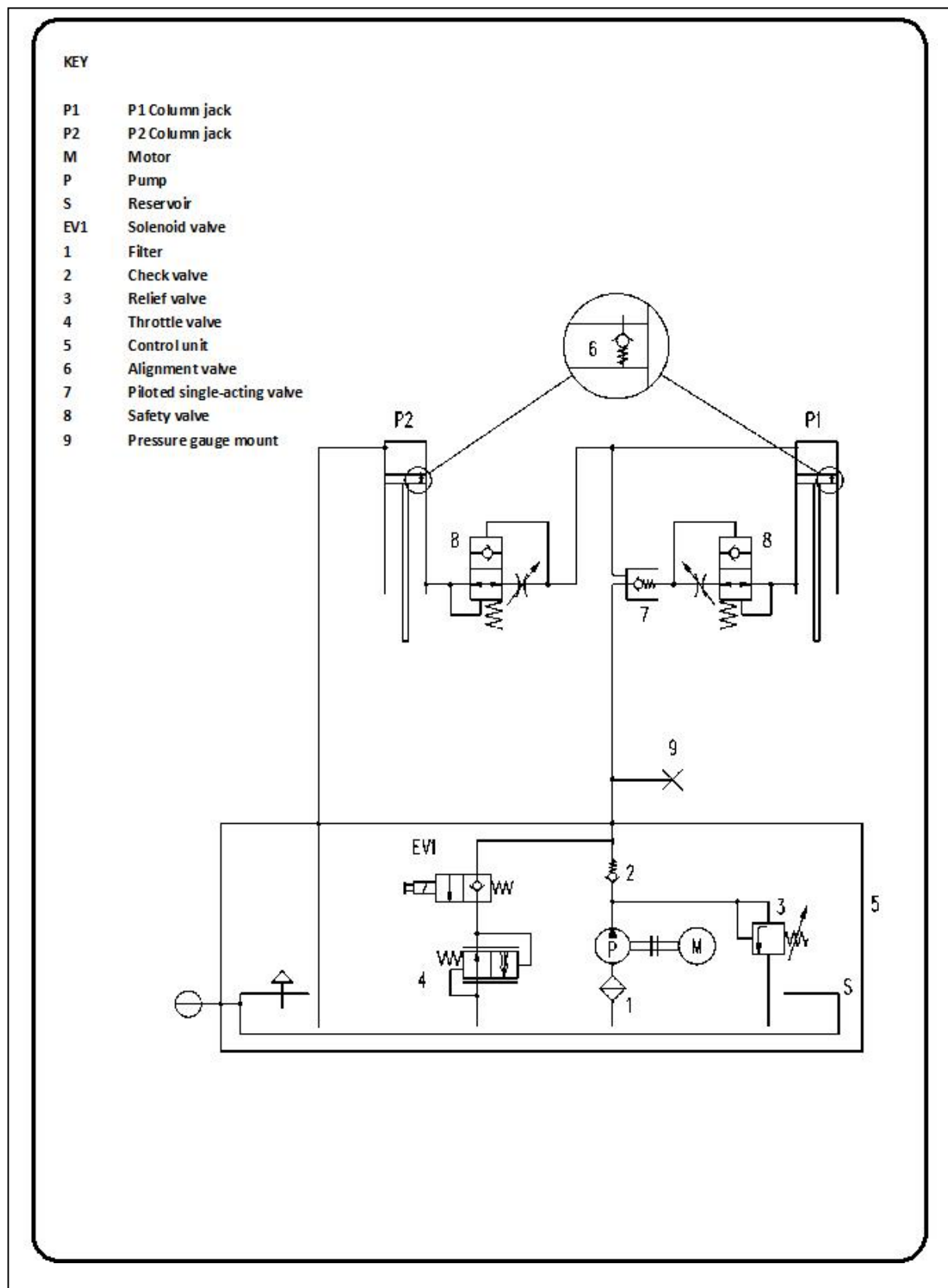
7.0 SPARE PARTS

Spare parts purchase orders shall be submitted to the manufacturer, and shall include the following information:

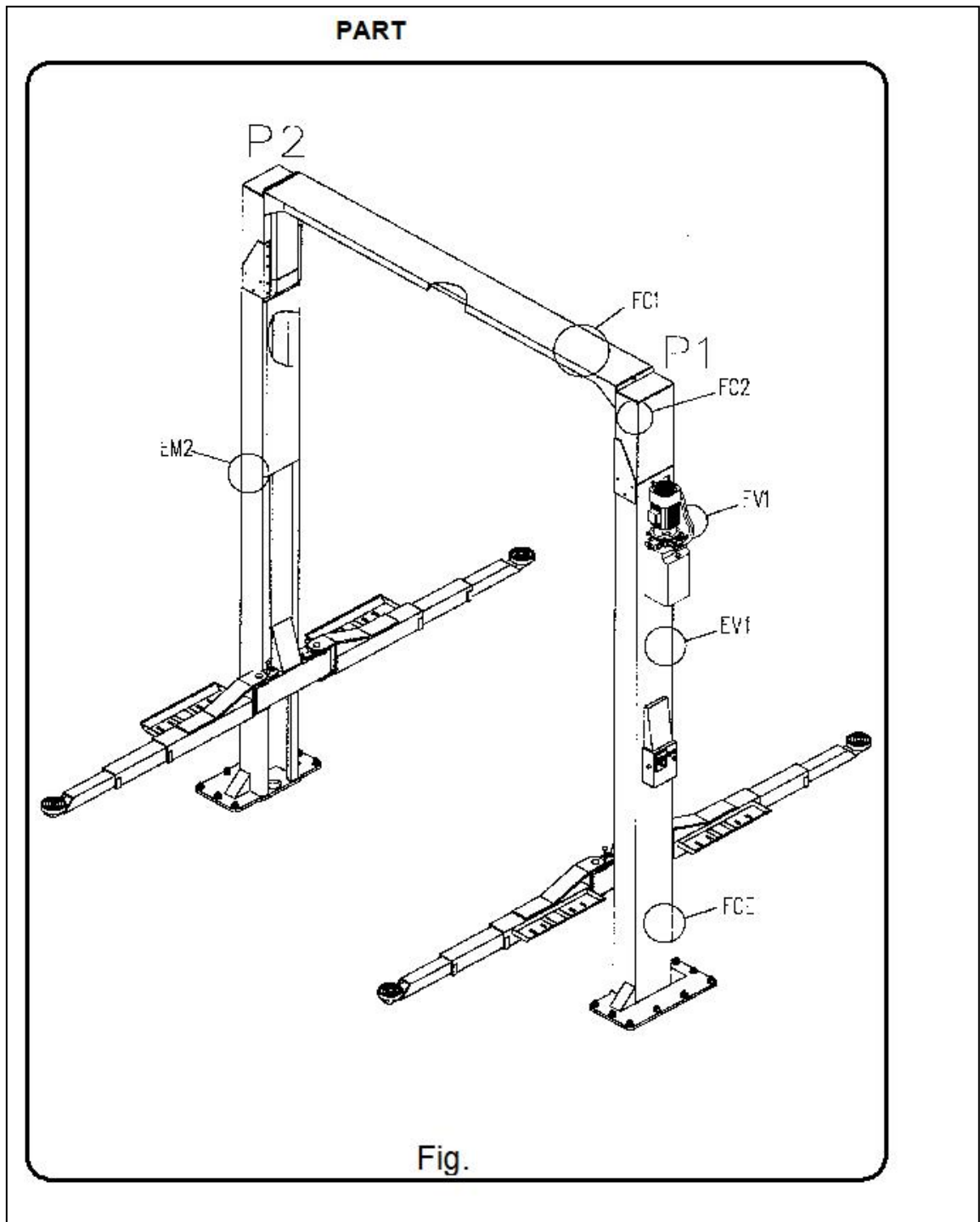
- Type, version, and serial number of the lift. These data are stamped on the plate fixed to all equipment (§ 1.5).
- Spare parts table number, and part number.
- Part description and required quantity.
- Shipping means. If this item is not specified, the manufacturer, even devoting special care to this service, is not liable for any shipping delay due to force majeure.

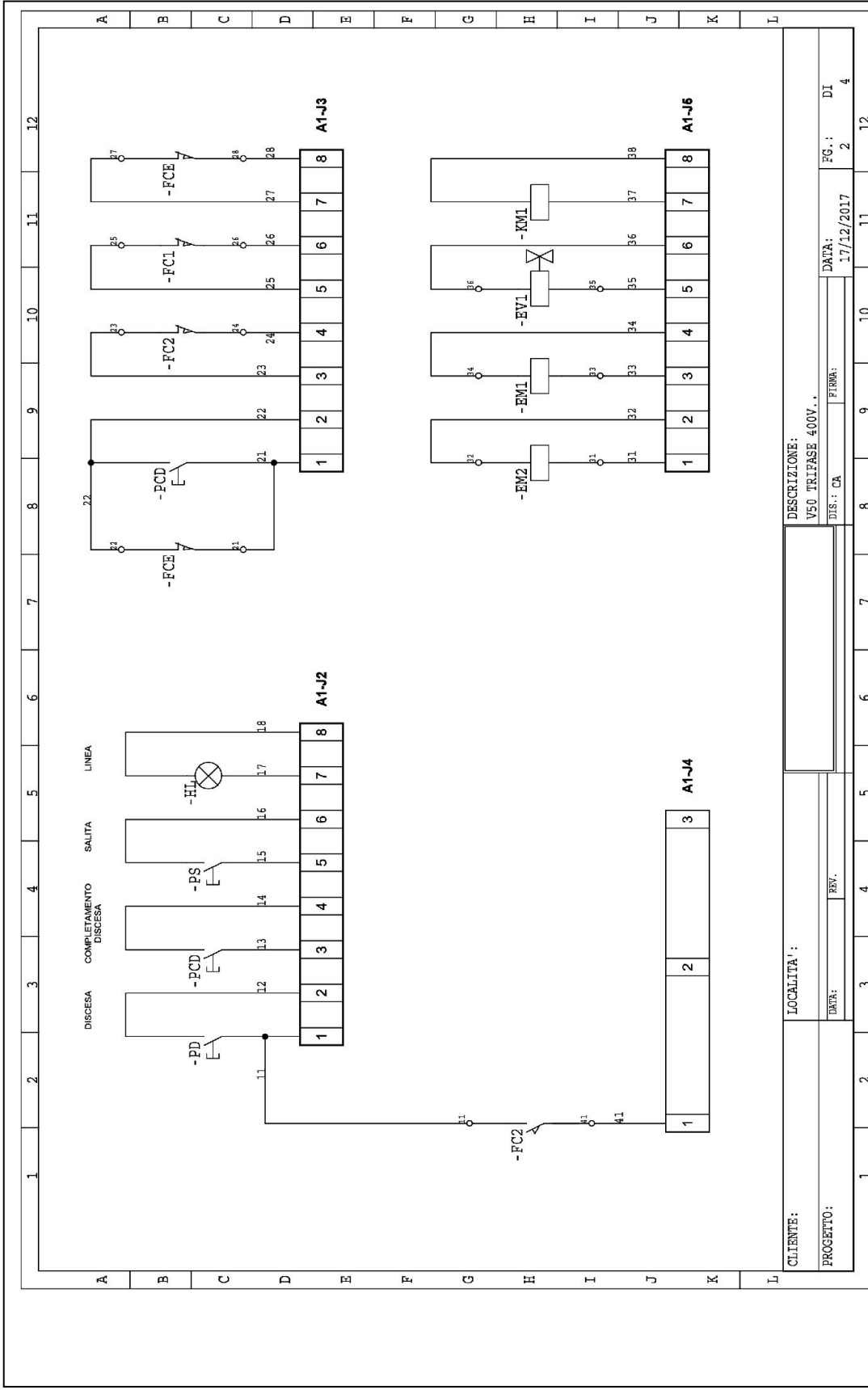
Shipping charges always have to be borne by the consignee. Goods travel at consignee's risk, even if sold free at destination. In case of request, please refer only to the position number of each single item of the spare parts table.

7.1 OIL DIAGRAM

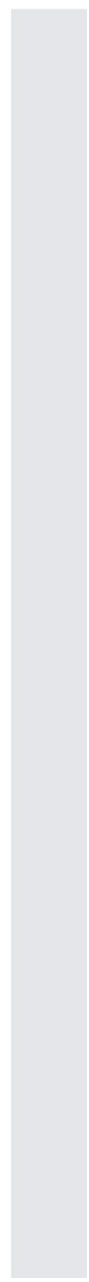


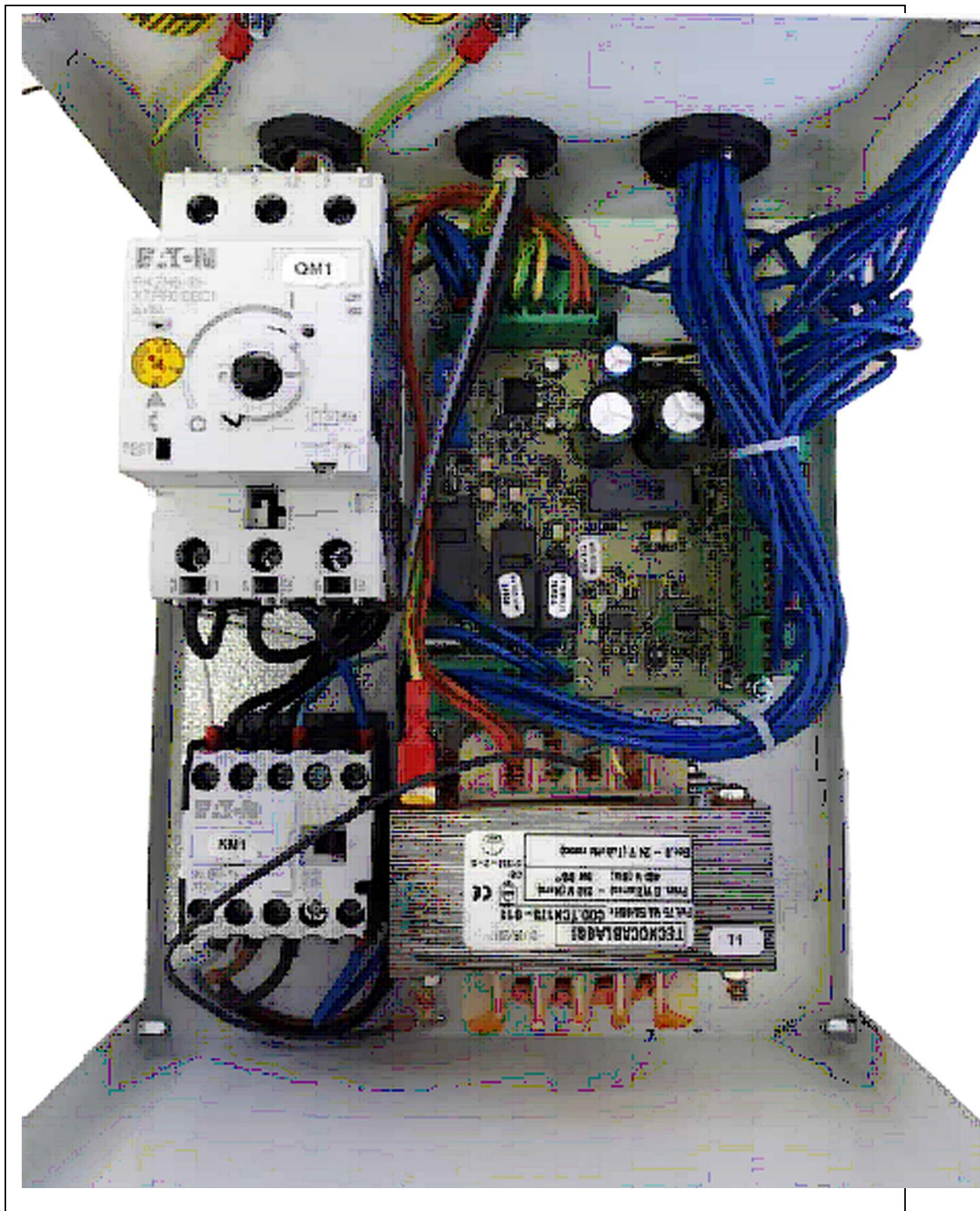
7.6 COMPONENT POSITION DIAGRAM



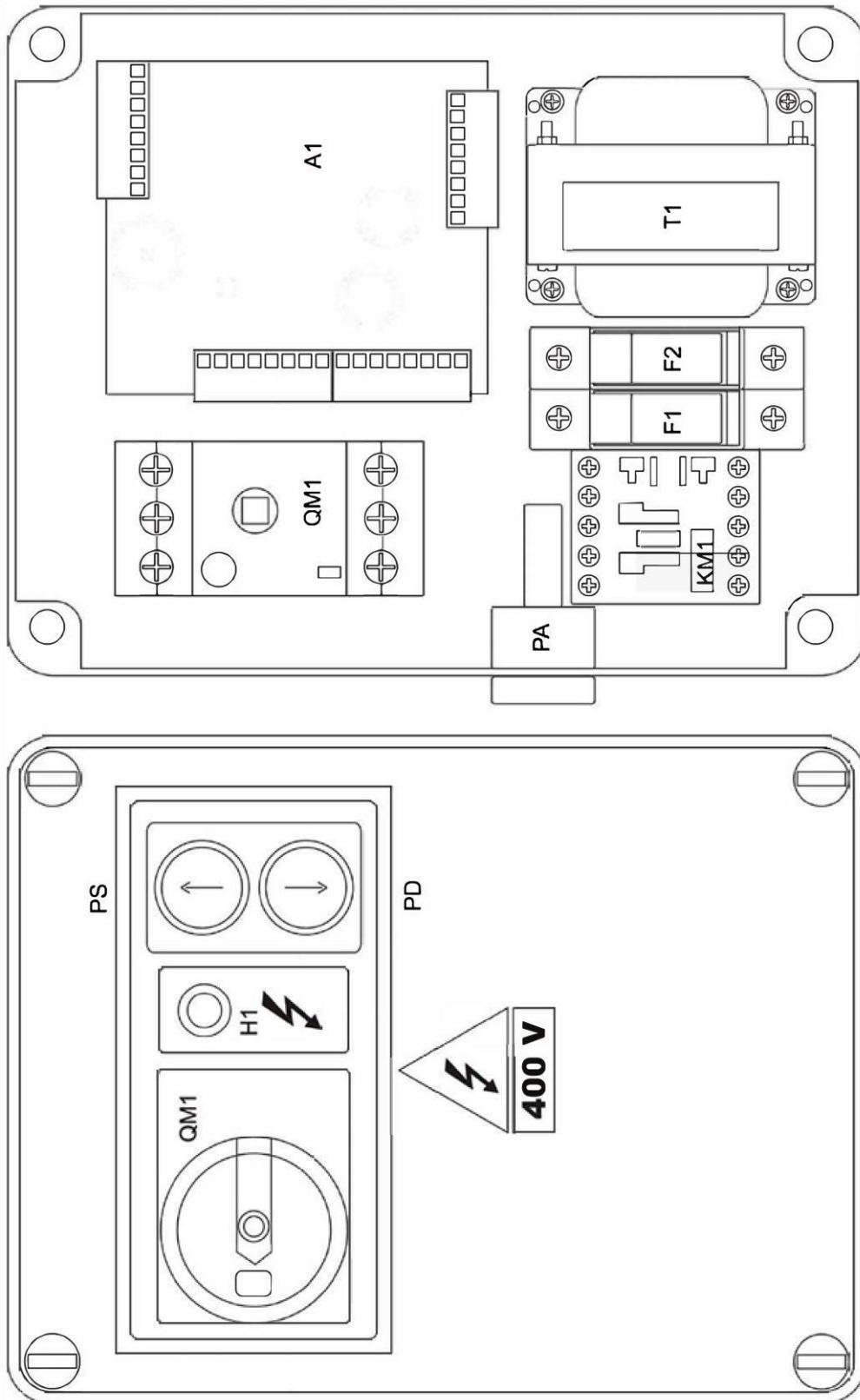


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8.5 INSTRUMENT PANEL DIAGRAM



8.6 CONTROL CARD



CARD FUNCTION ADJUSTMENT

ADJUSTMENT OF THE LOWERING TIME IN THE AUTOMATIC MODE (AUTOMATIC BRAKING):
ABOUT 5 SECONDS

TIMER T2: ADJUSTMENT OF THE LIFTING TIME BEFORE LOWERING:
ABOUT 2 SECONDS

RESERVED TO THE INSTALLER

LIFT ADJUSTMENT AND TESTING PROCEDURE (should be carried out in each detail by the installer)

WARNING: BEFORE PROCEEDING WITH THE TESTING OF THE LIFT, CAREFULLY CLEAN AND DRY ALL THE CONNECTIONS, THE PISTONS AND THE OTHER PARTS OF THE LIFT HYDRAULIC SYSTEM.

- **ADJUSTMENT OF THE CARRIAGE MECHANIC ALIGNMENT AND CORRECT ENGAGEMENT OF THE MECHANICAL SAFETY LOCKS**

1. Bring the carriages to the maximum height and align them hydraulically keeping the UP push-button and the braking cut-off button pressed for a few seconds.
2. Check the position of the carriages: the space between the first tooth of the carriage safety lock and the movable wedge should be about 10 mm.
3. Press UP for a few seconds, let the mechanic locks engaged and check that the wedges are locked on the first tooth of the relevant carriages.
4. Press DOWN push-button for a few seconds, then release it and check that the stop of the two carriages on the safety devices is simultaneous; if it is not the case, adjust the P2 carriage by blocking the checknut on the cylinder top and screw or unscrew the main nut to delay or anticipate the carriage stop (every turn corresponds to 1.5 mm).

- **TEST OF SAFETY DEVICE OPERATION (SEE INSTRUCTION MANUAL § 5.1.3)**

5. Check of the correct operation of the safety devices controlling carriage misalignment
6. Overhead safety shut-off system correct functioning check: stop of the lift raising by working on the shut-off bar.

- **TESTING OF LIFT OPERATIONS**

- 1) Load a vehicle on the lift and check:
- 2) correct hydraulic alignment at the maximum height.
- 3) Correct lowering manoeuvre with safety lock release in the automatic mode (lift should go up about 30-40mm before lowering)
- 4) Correct engagement of the safety locks in the automatic mode.
- 5) Correct operation of FCE: CUT-OFF OF THE SAFETY LOCK AUTOMATIC ENGAGEMENT WITH MICROSWITCH ON.

- **HYDRAULIC SYSTEM TESTING**

- 1) Lift the vehicle of about 50 cm using the UP push-button and the AUTOMATIC BRAKING CUT-OFF PUSH-BUTTON (yellow) to prevent lift positioning on the mechanical safety locks.
- 2) Measure the carriages height at a specific point and write down the measured values.
- 3) After about 15 minutes, check for the tightness of the connections and of the other hydraulic parts.
- 4) Measure the carriages height at the same point measured before and check with the starting measured values: maximum shifting (lower) 1-2 mm.



WARNING!! IN CASE OF DOUBT WAIT WITHOUT MOVING THE LIFT AND CHECK AGAIN.

IN CASE OF DOUBT CONTACT THE A.G.M. SERVICE DEPARTMENT

RESERVED TO THE INSTALLER

CHECK TO BE CARRIED OUT WHEN THE INSTALLATION IS COMPLETE

LIFT MODEL..... **SERIAL**

NO.....

YES	NO	NOTES
1. CHECKING CORRECT INSTALLATION AND SEALING CAPACITY OF SCREW SECURING LIFT TO FLOOR		
2. CHECKING CORRECT ELECTRIC HOOK-UP (ACCORDING TO STANDARDS)		
3. CHECK OF CORRECT OPERATION (ACCORDING TO MANUAL)		
4. CHECK OF THE ELECTRIC SAFETY DEVICE CORRECT OPERATION		
5. CHECK FOR CORRECT EMERGENCY PUSH-BUTTON OPERATION		
6. CHECK OF MECHANICAL SAFETY DEVICES CORRECT ENGAGEMENT		
7. CHECK OF ARM-LOCK CORRECT ENGAGEMENT		
8. CHECK OF FOOT GUARDS CORRECT ASSEMBLY		
9. CHECK OF HYDRAULIC SYSTEM PERFECT SEALING		
10. CHECK OF THE HYDRAULIC SAFETY DEVICES CORRECT OPERATION		
11. CHECK OF OIL LEVEL		
12. CHECK FOR EMERGENCY LOWERING OPERATION		
13. CHECK OF LABEL APPLICATION ACCORDING TO DIAGRAM		
14. CHECK CORRECT LUBRICATION OF THE SLIDING AREAS		
15. FULL-LOAD LIFT TESTING		
16. TRAINING OF THE PERSONNEL AUTHORISED TO USE THE LIFT		
17. CHECK OF DOCUMENTS (instruction manual & Declaration of Conformity)		
18. INSPECTION RECORDS FILLING OUT		

NOTE

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Date:

Signature of Installer

Customer's signature



No. 6038

EC Type-Examination Certificate

(Fm 210-017, Rev.11)



For the requirements of the Machinery Directive 2006/42/EC

For Annex IV machinery

Certificate No.: CE-C-0925-17-136-13-5A
Date of first issue: 2018.01.29
Next review due before: 2023.01.25

NAME AND ADDRESS OF THE MANUFACTURER:

-Italy

PRODUCT DESCRIPTION/ TYPE AND MODEL:

Hydraulic Automobile Lift
GT-V50XL, capacity 5000kg, two post vehicle lift with cross bar and electromagnetic safety release

APPLICABLE STANDARDS:

EN 1493:2010 Vehicle Lifts
EN 60204-1:2006/AC:2010 Safety of machinery - Electrical equipment of machines - Part1: General requirements
EN ISO 12100:2010 Safety of machinery - General principles for design - Risk assessment and risk reduction

TECHNICAL FILE REF. NO.:

TF-C-0925-17-136-13-5A

A COPY IS AVAILABLE FROM:

CCQS UK Ltd., 5 Harbour Exchange Square, London, E14 9GE, UK

The technical file, accompanying documentation and the equipment which they describe have been found to be in compliance with the requirements of the Machinery Directive 2006/42/EC.

The responsible person defined above has responsibility for ensuring that all future serial manufacture of the machinery conforms to the sample submitted for EC type-examination referenced above.

Any changes to the design of the machinery certified here must be advised to CCQS UK Ltd. for re-assessment.

A CE marking should not be fixed to the equipment until the requirements of all relevant directives have been met.

Approved by: JY. Liu - Managing Director

Date: 2018-01-29

Appointed by UK Government
as a Notified Body
for CE Marking No. 1105

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please verify it on our website at
<http://www.ccqs.co.uk>

