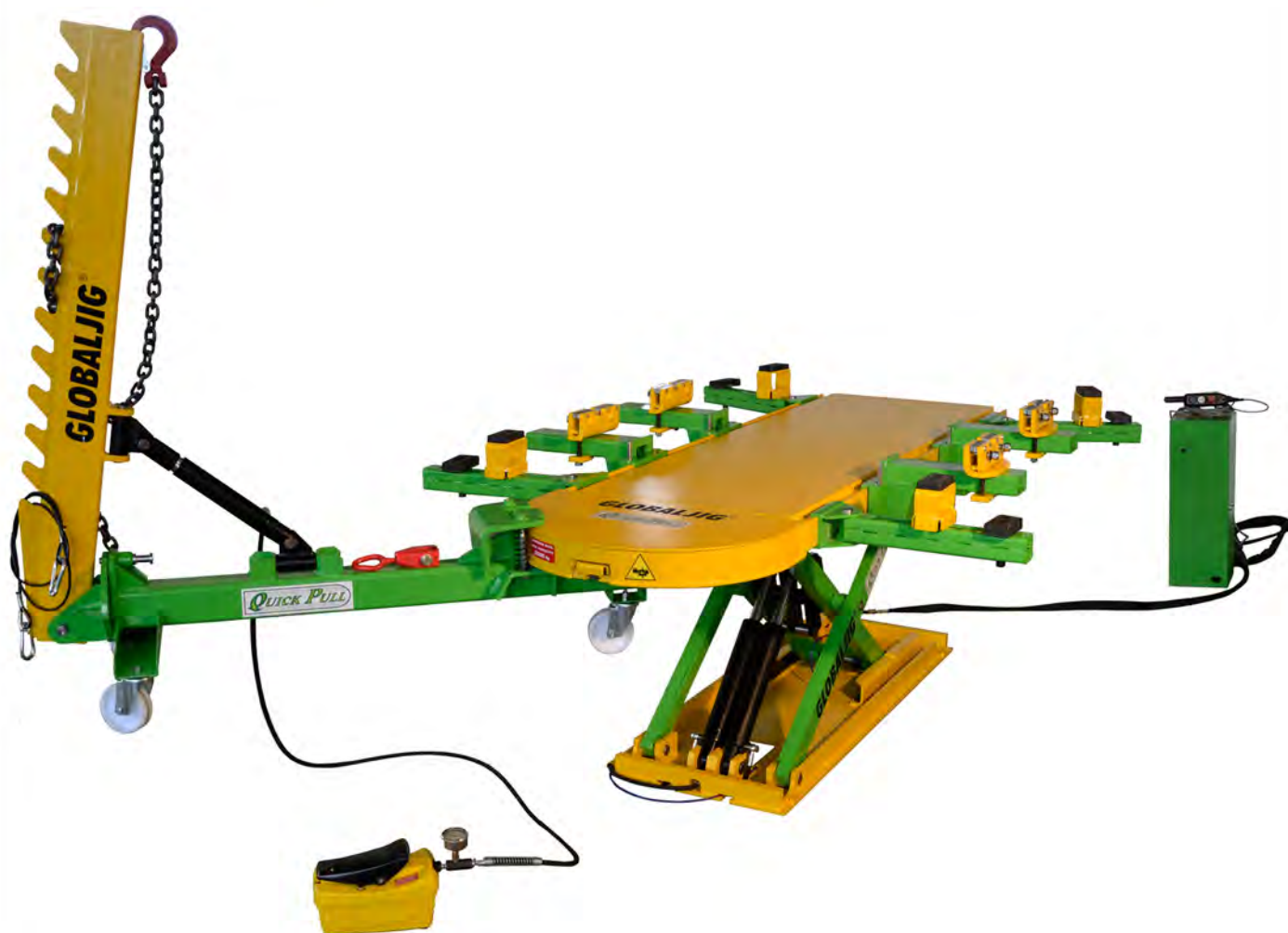


INSTALLATION, USE AND MAINTENANCE MANUAL



GLOBALJIG
International S.r.l.

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Società unipersonale sotto la direzione e controllo della Bellini Srl. - Capitale sociale € 100.000,00 i.v.
Iscritta al Reg. Imprese di Massa Carrara al N° 01064230459

INSTALLATION, USE AND MAINTENANCE MANUAL



Year of manufacture:

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1. GENERAL CHARACTERISTICS

The Quick Pull is a hydraulic power lift with a scissor-like structure which has been designed and built to guarantee load bearing stability during both raising and lowering operations.

The raising and lowering movements are carried out by a pair of single-action hydraulic jacks which are controlled by an electro-hydraulic control system. The hydraulic lift has reduced encumbrance dimensions and allows for the work operations to be performed at a suitable height. This manual is supplied together with the machine, is to be considered an integral part of the machine itself and must always remain with the machine, even in the case of sale to a third party: The manual must be preserved in a safe place in proximity to the hydraulic lift's place of installation and use.

The manufacturer reserves the right to make any changes to the lift described in this manual without prior notice, save for the observance of any eventual prior agreements with the purchaser.

1.1. Identification data

Manufacturer: GLOBALJIG INTERNATIONAL s.r.l.
Via Aurelia Ovest Km 383
54100 Massa – Italy

Model: QUICK PULL

Type: Hydraulic power lift for motor vehicles – max capacity 2500 Kg

Machine data label:



2. INTENDED USE

The Quick Pull is intended for AUTO-REPAIR activities. **It is not designed, nor is it suitable, for lifting people.** The hydraulic power lift must be used inside the workplace and be protected from the weather (rain, humidity, wind, etc.). The temperature of the workplace in which the lift will be installed must never be less than 10 ° C nor above 40 ° C. The weight of the structure and the maximum capacity limit are provided in this manual.

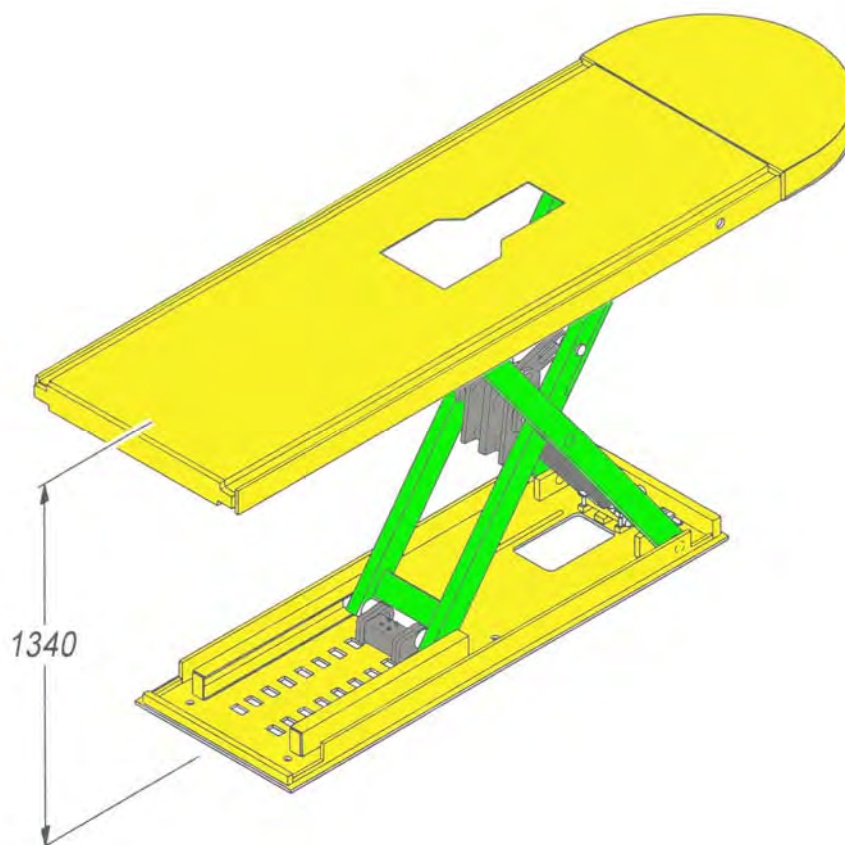
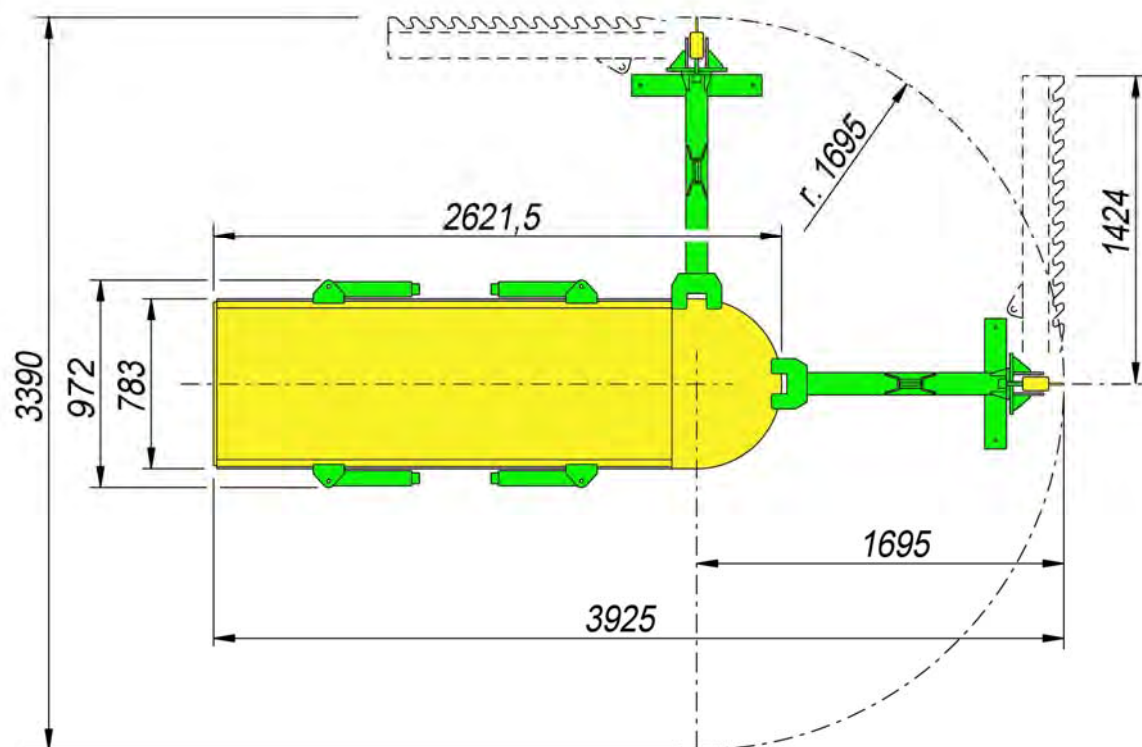
The Quick Pull has not been designed in such a way so that people may perform operations of any kind beneath the lift's structure or beneath its support devices. Failure to take account the intended machine uses described herein could lead to serious operator risks. The responsibility for any such risks shall be borne by the operators themselves. The user is required to use the lift in accordance with its intended use, with all of the manufacturer's specifications, as well as in compliance with the current workplace safety and accident prevention standards.

Important: The manufacturer shall bear no responsibility for any damages caused to persons or property resulting from improper use, carelessness or uses other than those for which the hydraulic power lift is expressly intended.

2.1. Technical characteristics table

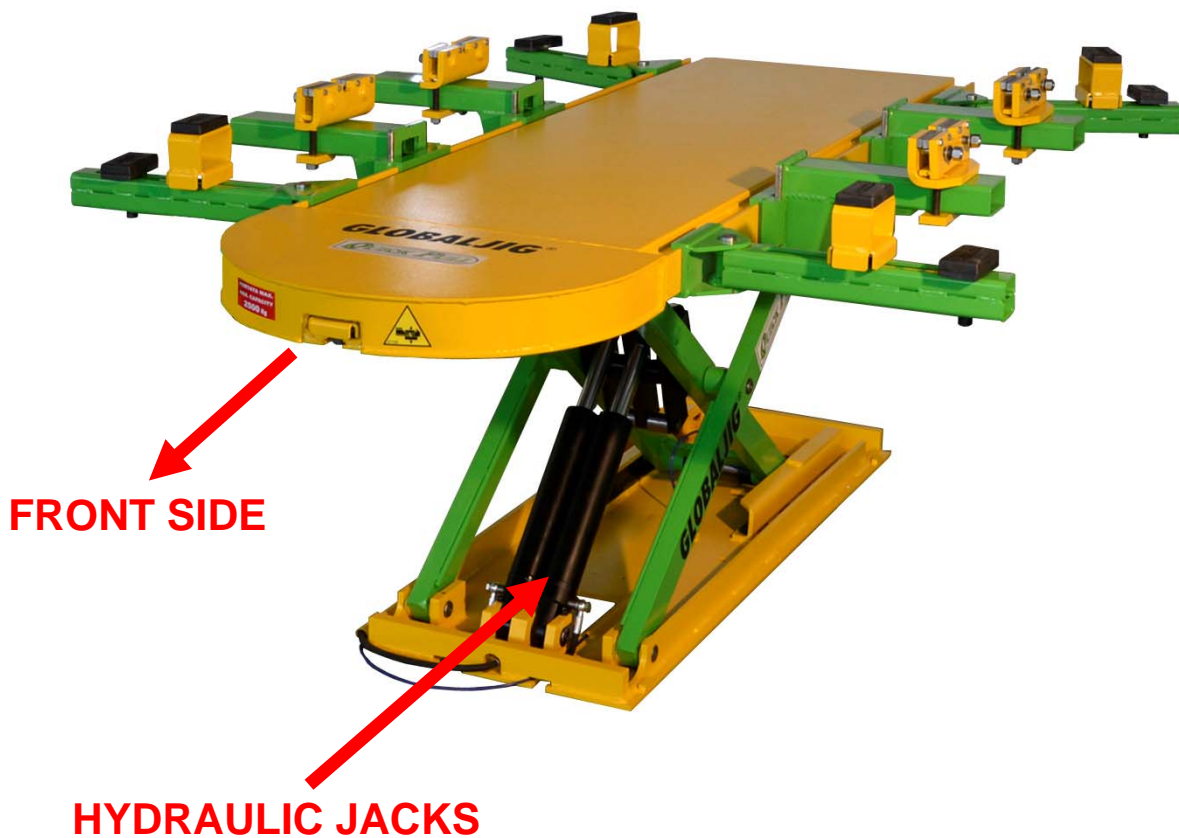
MEASUREMENT	UNIT OF MEASURE	QUICK PULL
Maximum capacity	Kg-lb	2500 - 5513
Minimum platform height from the ground	mm-inch	100-3.94
Maximum platform height from the ground	mm-inch	1340 - 52.76
Platform length	mm-inch	2622 - 103
Platform width	mm-inch	783 – 30,8
Hydraulic power lift base length	mm-inch	1705- 67.13
Hydraulic power lift base width	mm-inch	730 – 28,73
Hydraulic circuit operating pressure	bar-lb/inch ²	300 - 4213
Compressed air supply circuit pressure	bar-lb/inch ²	8-110
Ascent time	sec	40
Descent time	sec	80
Electric motor power	Kw/hp	2.2/1.6
Electrical power supply voltage	Volt	230/380/400
Electrical power supply frequency	Hertz	50/60
Auxiliary command circuit voltage	Volt	24
Hydraulic power lift mass (weight) without accessories	Kg/lb	865/548,4
Acoustic pressure level at the operator's station: LpA	Db(A)	54.5
Average acoustic pressure level considered: LpAm	Db(A)	56.7
Acoustic power level: LwA	Db(A)	73.6
Control unit oil quantity	Litres/Gall	5/1.15

2.2. Quick Pull Hydraulic Power Lift encumbrance dimensions



2.3. "QUICK PULL" Hydraulic Power orientation

The frontal portion of the hydraulic power lift (as indicated in the diagram) is the "side with the hydraulic lifting jacks" and the control unit connections outputs.



In order to obtain maximum stability upon the platform, always orient the **heaviest** portion of the load at the **front** of the hydraulic power lift..

3. PACKAGING

The specific components which make up the Quick Pull hydraulic power lift are packaged as follows:

Component		Packaging type	
a)	Hydraulic power lift	wooden pallet	Kg 650
b)	Control unit	wooden crate	Kg 50
c)	Various accessories	cardboard box	Kg 350

When opening of the packages is recommended to check that the declared parts correspond to the actual contents of the packages and that the merchandise has not suffered damage during transport. Since the purchaser is responsible for the merchandise during transit, save for different agreements stipulated upon purchase, these inspections should be performed in the presence of the courier. The manufacturer shall not answer to any claims for damages suffered during transport, loading, unloading and/or improper unpacking.

4. HANDLING

Handling of the consignment must be performed in compliance with the current safety regulations by personnel who has experience with mechanical load handling. Said personnel must be equipped with suitable protective clothing. The manual handling of the package containing the hydraulic power lift itself is expressly forbidden. The hydraulic power is packaged separately from its electro-hydraulic control unit and its accessories. The relative connections to these components must be performed during installation.

Important: Loading and unloading operations must be performed using a forklift truck or other lifting devices of suitable capacity, with reference being made to the package weights listed in the technical characteristics table. The hydraulic power lift must be handled with a forklift truck or a bridge crane of suitable capacity when moving it from the means of transport to its place of installation.

5. POSITIONING AND INSTALLATION

The Quick Pull is a fixed hydraulic power lift that must be permanently installed in a pre-established well-lit location, which is sheltered from the atmospheric elements and free of flammable gases or vapours. The hydraulic power lift must be installed at floor level and fixed with the supplied anchoring screws.

The cement flooring, upon which the hydraulic power lift will rest, must be level and integral and must possess suitable load-bearing characteristics. The reinforced concrete must have a load bearing capacity of at least 300 kg/cm², a concrete class of no less than 300 rbk and a cast depth of no less than 200mm. All of the tubes and electrical cables for connecting the hydraulic power lift's base to the mobile control unit must be:

- positioned in such a way so as to not be damaged during positioning.
- covered by the metallic Omega protection which can be supplied upon request

Note. The hydraulic power lift must be fastened to the ground with the appropriate supplied "anchoring screws".

ATTENTION

Failure to comply with this mandatory requirement could lead to risks of load tipping with potentially serious consequences for people and objects.

In cases where, during the installation of the hydraulic power lift, the supplied cables result as not being of sufficient length, the electrical connections must be redone without splicing the cables. The hydraulic power lift's intake air pressure must not be less than 8 bar.

The control unit must be positioned at least 3,000 mm from the edge of the hydraulic power lift.

The operator is likewise required to only use the button panel at a safe distance from the hydraulic power lift (at least 3,000 mm), and always from the front of the structure, in order to avoid the risks associated with potential lateral load capsizing.

The raising and lowering of the hydraulic power lift must always be monitored by the operator. The operator must immediately arrest the manoeuvre in the improbable event of load shifting.

Attention: No obstacles must be located behind the operator which could impede the operator from distancing himself/herself from the machine in the event of immediate danger.

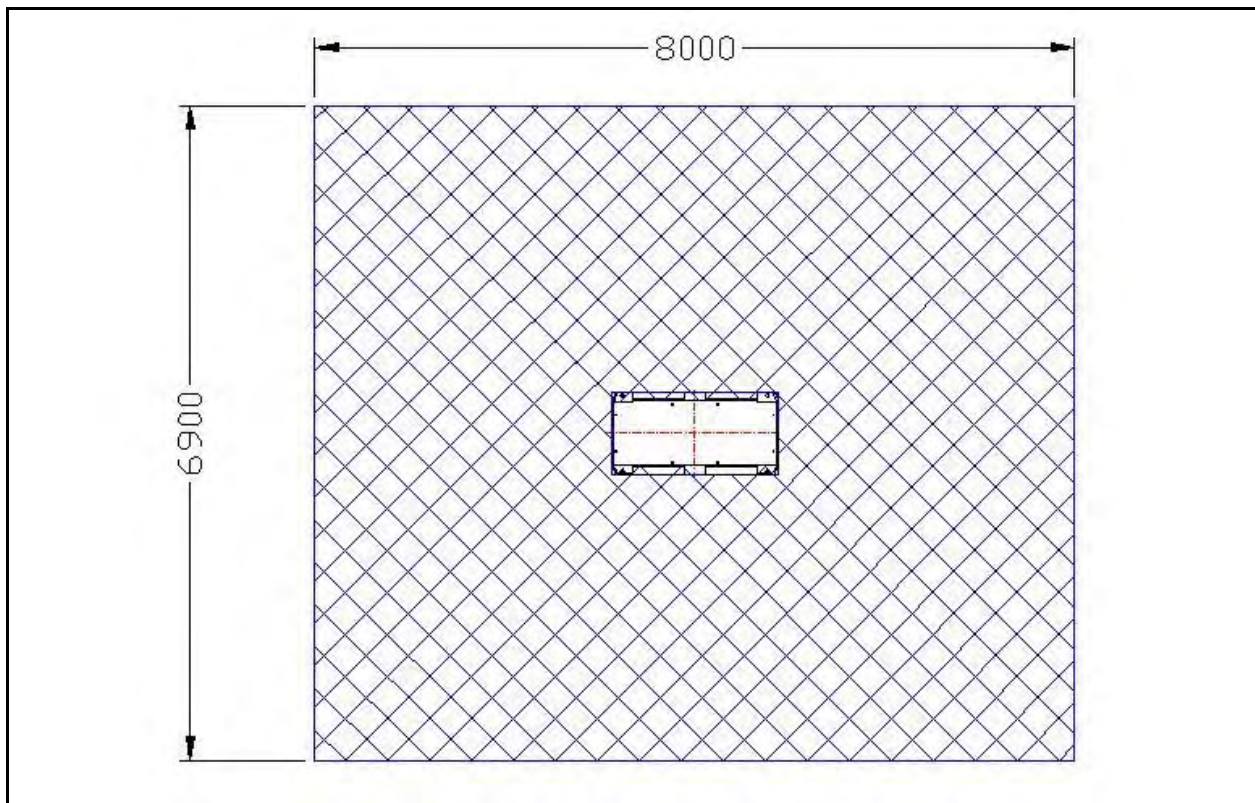
5.1. Identifying the working position

In order to work in complete safety, it is necessary that the operator be positioned at a distance of 3.00 m from the edge of the machine, without interfering with any other equipment, so as to be able to directly monitor the lifting and/or lowering operations without being impeded from quickly distancing himself/herself. For this reason, a rectangular area of at least 8.00 m by 6.90 m must be available within the garage.

The flooring must be perfectly level and horizontal, and its concrete must possess, as a minimum, the characteristics described in the previous section.

If the floor's surface should be rough, irregular and/or not level, suitable spacers must be placed beneath the base of the lift in order to ensure that its support and anchoring points are level.

Failure to observe this requirement could compromise the opening/closing functionality of the arms and could result in structural loads which were not taken into consideration during the hydraulic power lift's design and testing which could, in turn, lead to the deformation of the equipment.



5.2. Fastening the hydraulic lift's base to the floor

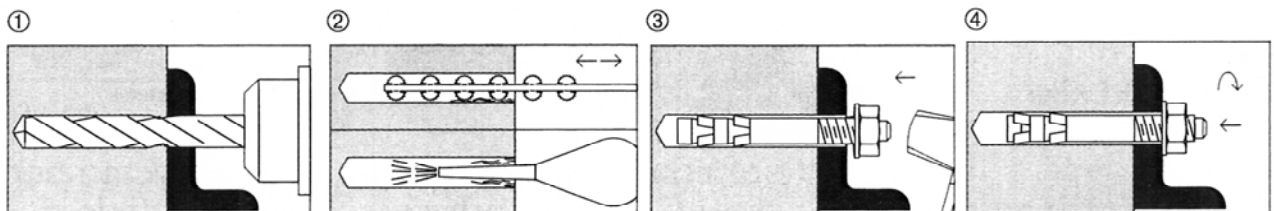
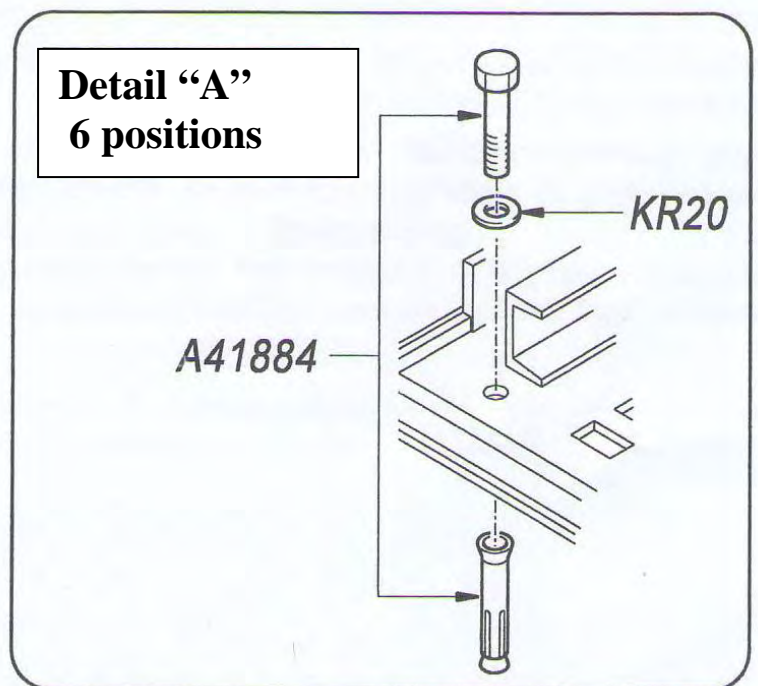
Once the position of the hydraulic power lift within the garage has been determined, perform the following operations before fastening it to the floor:

1. Centre the lift with respect to its established location;
2. Trace a yellow, rectangular perimeter line on the surrounding floor, with a width of no less than 10 cm, parallel to the external edges of the platform. The distance between the external edge of the yellow line and the external edge of the pit must not be less than 20 cm on every side of the pit;
3. Identify a rectilinear path for conducting the hydraulic power lift's tubing to the electro-hydraulic control unit.

After having performed the above operations, follow the procedure below to fasten the hydraulic power lift to the floor:

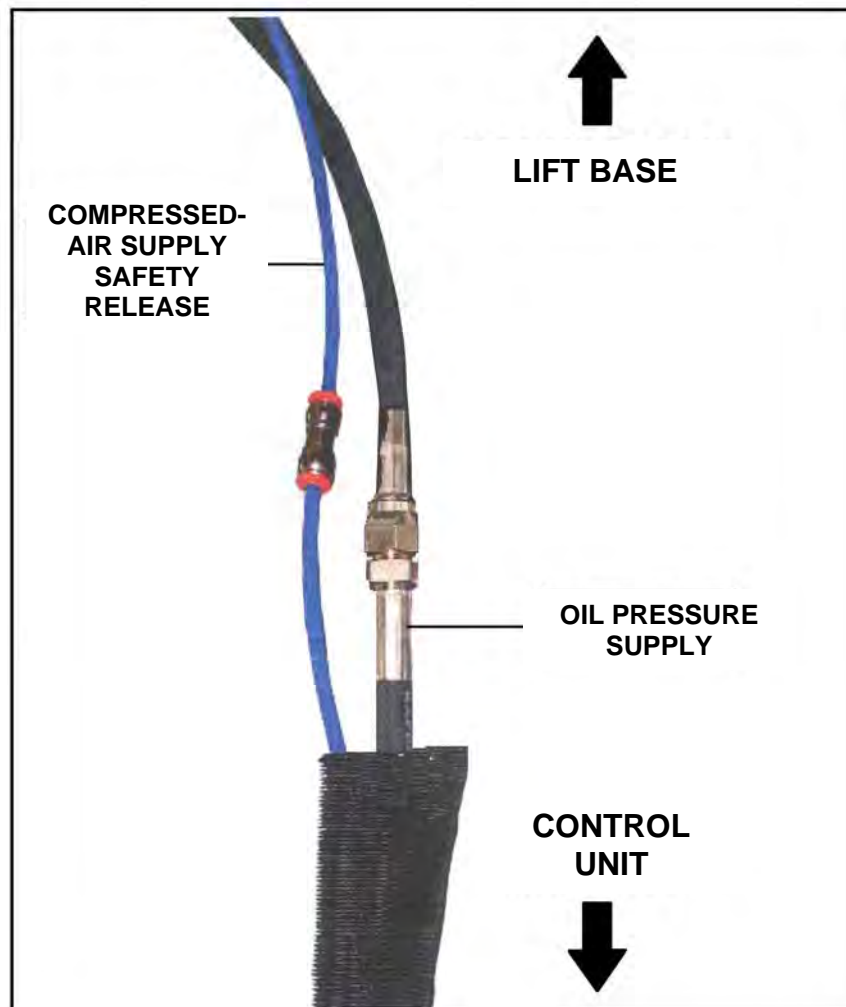
1. Raise the platform to its maximum height.
2. Use a percussion drill to create \varnothing 20 holes (A41884+KR20 anchor lodgings) with a depth of 6 cm, using the holes found on the base as a reference template (see the following image).
3. Clean the drilled holes carefully.
4. Place the anchors in the holes.
5. Use a heavy hammer to drive the anchor into the hole without damaging the threading.
6. Tighten the nuts of the anchors well to fasten the hydraulic power lift to the ground. See the installation sequence diagram.

7.



INSTALLATION SEQUENCE DIAGRAM

6. SYSTEM CONNECTIONS



The connection between the control unit and the base of the hydraulic power lift is made up of a sheathing which contains:

- 1 flexible oil-pressure tube (lift movements).
- 1 compressed air tube for controlling the opening of the arms;

ATTENTION

In order to avoid functional damage, **REPLACE** the air-tight "transport" cap with the "working" cap (aerated) after having positioned the control unit and before using the lift. The working cap is found within a nylon bag inside the mobile control unit

6.1. Airdraulic connection

After having removed the relative cap, connect the flexible oil pressure tube by coupling the double key connectors. Tighten the connectors appropriately (do not tighten excessively) and check that there is no leakage or drawing after a brief period of function.

Connect the compressed air tubes using the quick connectors.

Connect the control unit's air intake tube to the mains system.

IMPORTANT

A dehumidifier with a lubricator must be installed upstream from the control unit on the compressed air distribution system.

The lack of this device could result in damage to the pneumatic solenoid valve and thereby compromise the arm opening/closing functionalities.

Make sure that all of the connections have been performed properly.

Even a single incorrect connection or lack of contact will inhibit the equipment's proper function.

After having checked the control unit's oil level (see the amount recommended by the manufacturer in the Technical Characteristics Table), raise and lower the lift 2 or 3 times in order to allow the air bubbles to be purged from the hydraulic circuit.

It is absolutely forbidden for the user to tamper with the pressure relief valve, which has been calibrated by the Manufacturer.

6.2. Electrical connection

Check the operating voltage and frequency of the hydraulic power lift's electro-hydraulic control unit. This information is provided on the label located on the control unit's protective guard.

The electrical distribution panel which powers the hydraulic power lift's control unit must contain a three fuse valves and a circuit breaker.

The connection between the electrical distribution panel and the control unit must be performed using the supplied cable.

If the control unit's electrical power cable is too short, it must be completely replaced with a longer cable, with technical and safety characteristics identical to those of the original.

IT IS FORBIDDEN TO SPLICE THE POWER CABLE
--

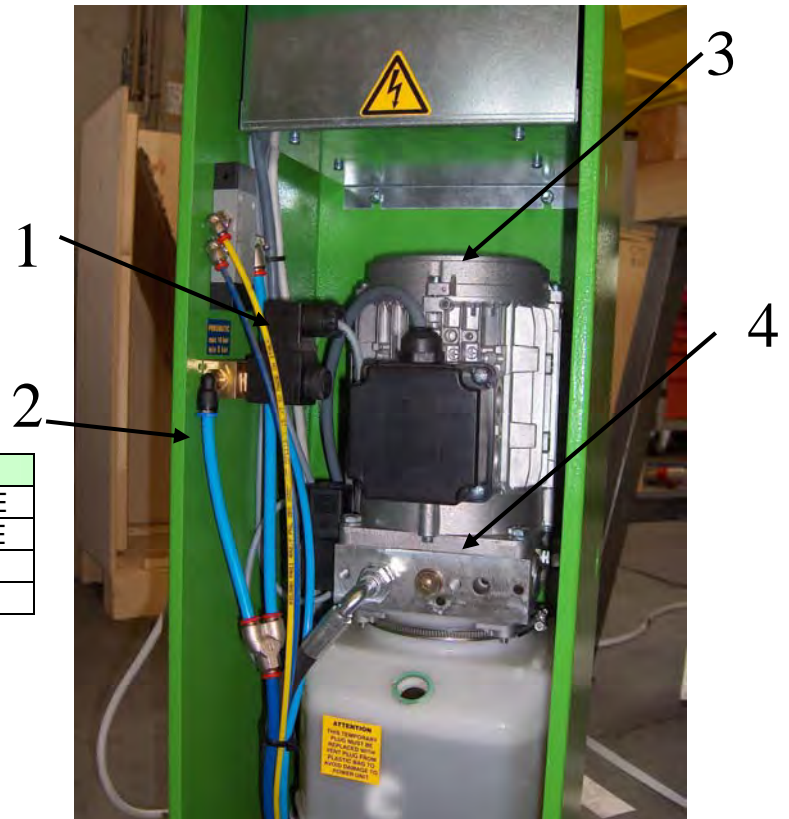
<p>DANGER !!!</p>

<p>It is forbidden to connect the hydraulic power lift's electrical system directly to the garage's system outlets: Distribution system malfunctions could result in irreparable damage to the control unit and serious operator injury.</p>

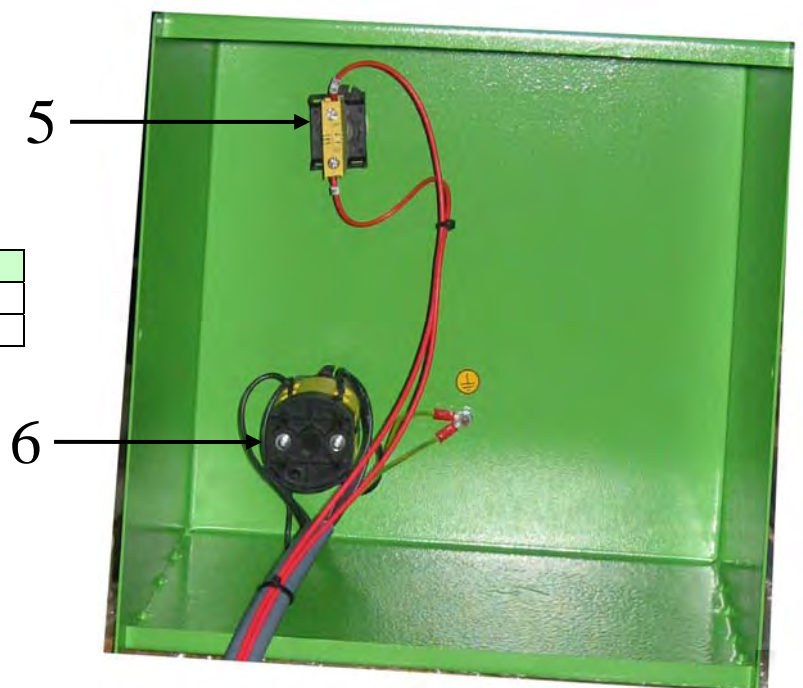
Before connecting the control unit's power cable to the electrical distribution panel, make sure that the switch is in its "O" (off) position

7. QUICK PULL ELECTRO-HYDRAULIC CONTROL UNIT (400v)

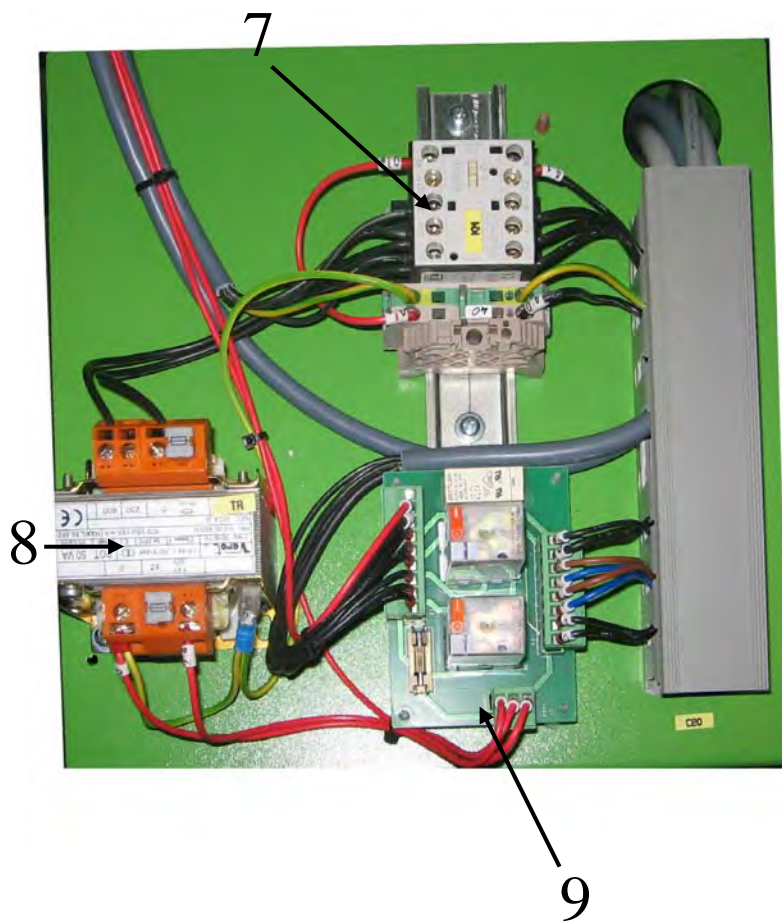
RIF.	CODE	DESCRIPTION
1	GK6	AIR SOLENOID VALVE
2	GK7	OIL SOLENOID VALVE
3	GK8	1.85KW MOTOR
4	GK9	CONTROL UNIT



RIF.	CODE	DESCRIPTION
5	GK1	LIGHT BULB SOCKET
6	GK2	16° SWITCH



RIF.	CODE	DESCRIPTION
7	GK3	CONTACTOR
8	GK4	TRANSFORMER
9	GK5	CIRCUIT



8. SAFETY ZONE

Before using the equipment, make sure that the perimeter of the work area has been delineated according to that which is described in section **5.1**, in such a way so that a safe distance from other equipment and/or surrounding walls has been maintained.

Never stand within the working area while the hydraulic power lift is manoeuvring. Only manoeuvre the lift under visual supervision and with utmost care.

Always make sure that the work area is free of any type of work equipment or other obstacles.

The operator must always have an escape route available behind him/her.

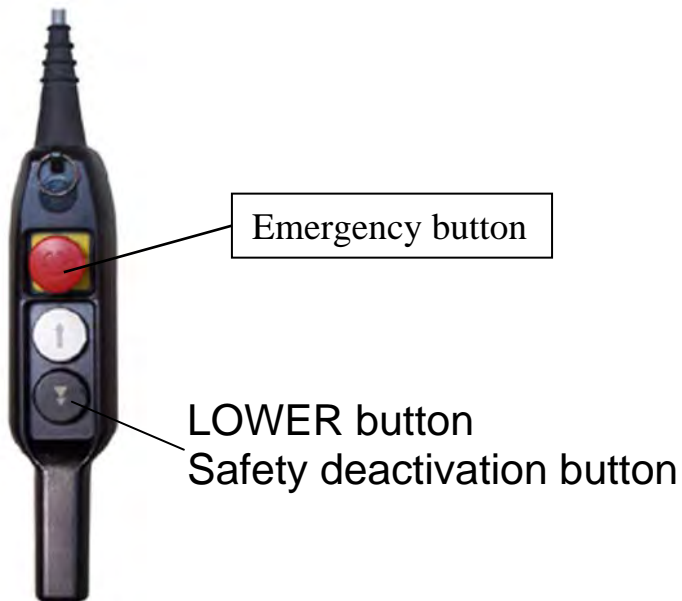
As already highlighted under point **5.1**, the hydraulic power lift's operating area (Safety Zone) must conform to the following characteristics:

1. It must be at least 6.90 m long and 8.00 m wide;
2. the hydraulic power lift must be located at the centre of this zone;
3. The control unit (and consequently the operator when manoeuvring the hydraulic power lift by means of the button panel), must be located at least 3.00 m from the lift's structure (or rather, from outside of the Safety Zone).

During raising and lowering operations, the Safety Zone must absolutely be free of personnel, animals and any eventual objects.

Work must always be performed at a suitable height (MAX 1.300 mm) and must never be performed beneath the vehicle or beneath the lift's structure.

9. RAISING AND LOWERING THE HYDRAULIC POWER LIFT



After connecting the unit to its electrical power and compressed air supplies, turn the switch on the mobile control unit and engage the emergency button on the button panel.

After opening the load support by means of their relative command, the lifting pads are to be positioned and their thickness chosen according to the requirements (vehicle bottom). Press the raise button again to raise the load to the desired height.

The hydraulic power lift has a mechanical safety spear device which is always on, while a total closure valve positioned directly upon the lifting jacks will impede the lift from lowering at all times due to any eventual (and improbable) air-pressure supply tube ruptures.

In order to lower the load, if the hydraulic power lift is in safe conditions, raise the platform a few inches to release the safety catch then press the lower button until the platform has descended completely.

The lower button is equipped double action: The first opens the discharge valve, while the second sends air to the safety catch device in order to disengage it.

This functionality allows for the hydraulic power lift to be placed in safe conditions once the desired height has been reached; in fact, by lightly pressing the lower button, the discharge valve opens and the lift descends until the safety catch device engages within the its lodgings on the base, thereby impeding further descent.

ATTENTION: When working upon the vehicle, the hydraulic power lift must be placed in safe conditions by following the procedure described above.

Before and during all manoeuvres, always act in an attentive manner, while checking the stability of the load.

After the descent has been completed, or rather, when the vehicle is resting upon the floor on its wheels and the lift pads are no longer in contact with the vehicle, release the lower button, remove the lifting pads and close the arms.

ATTENTION

At the end of the working day, or during breaks, always place the lift's platform in its resting position (completely on the floor). Loads must never be left in a raised position in the absence of the operator.

10. TROUBLESHOOTING

MALFUNCTION	POSSIBLE CAUSE	PROBABLE RESOLUTION
<i>The lift does not function.</i>	<i>Loss of electrical power.</i>	<p><i>Check the electrical distribution panel and adjust the main switch if necessary.</i></p> <p><i>Check the position of the mushroom-head emergency button on the console. If necessary, disengage it and press the reset button.</i></p> <p><i>Turn off the main switch on the electrical panel and open the control unit's panel to check the status of the fuses.</i></p> <p><i>Replace them if necessary.</i></p>
	<i>Motor breakdown.</i>	<i>Replace the electric motor.</i>
	<i>Pump breakdown.</i>	<i>Replace the pump.</i>
	<i>Electrical connections.</i>	<i>Check the efficiency of the connections.</i>
<i>When using the raise command, the lift does not rise or else struggles to rise both empty and loaded.</i>	<i>Insufficient oil in the control unit's tank.</i>	<i>Check the tank's oil level and add oil if necessary.</i>
	<i>Pump highly worn.</i>	<i>Replace the pump.</i>
<i>Insufficient hydraulic power lift capacity.</i>	<i>Oil pressure circuit operating pressure insufficient.</i>	<i>Use a pressure gauge to check the operating pressure and replace the pump if necessary.</i>

11. WARNINGS AND PRECAUTIONS TO BE TAKEN

The Quick Pull must be used by personnel over the age of 18 years who has been duly trained and authorized with respect to that which is provided this manual.

The instruction, use and maintenance manual must be read carefully before the installation and use of the lift and must be properly applied in all of its parts.

It is forbidden to use the machine for lifting people.

Before performing raising and lowering manoeuvres, **always make sure that the joints and the structure are free of tools**, rags and objects of any kind. In the event of accidental blockage during descent, immediately stop the manoeuvre by releasing the button, raise the lift, remove the obstacle and resume the descent manoeuvre.

In the case of power cables (for lighting, hand tools, etc.) present within the lift's manoeuvring area, **always make sure that these do not pass over or rest upon the structure** in order to prevent them from being cut and thereby conducting electrical current throughout the machine's metallic structure. This check must always be performed before the lift is activated.

Always check the load visually, especially during lifting, making sure that it does incline or shift in an improper or abnormal fashion. In such cases, lower the lift to ground level and position the vehicle properly.

Clean the vehicle support surfaces well regularly, as dirt build-up could result in the load sliding.

Make sure that the air pressure input to the pneumatic circuit is calibrated between 8 and 10 bar.

Ensure that **the electrical system is equipped with an automatic circuit breaker** before connecting the cable to the electrical panel.

Bring the load to ground level at the end of the working day. Do not leave the lift fully loaded.

The hydraulic power lift's **maximum capacity is 2,500 kg.**

The operator is required **to wear Personal Protection Devices** and to take all the necessary measures and precautions to ensure his/her own safety.

WARNING

The safety devices must not be tampered with. These must always be in optimal condition.

12. SAFETY DEVICES

The Quick Pull is equipped with the following safety devices for the protection of the operator:

- Safety burst valve.
- Safety catch device.
- Emergency arrest button

13. INSPECTION AND MAINTENANCE

ATTENTION

Before performing any kind of operation upon the lift, remove the load and disconnect the electrical power supply.

It is recommended to clean and check the machine every 10 days. Remove any dirt with self-cleaning rags (never use water or flammable/corrosive liquids), check the cleanliness of the wheel guides (especially the lower ones) and make sure they are properly lubricated with grease.

Check that the 4 lifting arms move freely.

Periodically check the electrical connections (limit switches and arm sensors) and the hydraulic system's joints.

Notify the manufacturer's assistance centre if any anomalies are encountered.

Every 30 days, remove the front panel to check the control unit's tank oil level.

Oil type: Hydraulic – viscosity 32

14. WARRANTY

The Quick Pull is covered by warranty, in its entirety, for 24 months on the express condition that no tampering or improper interventions have taken place and that the machine's identification data, shown both on the machine's labels as well as in this manual, have not been damaged or removed. With regards to cases covered under warranty or of specific parts subject to normal wear, the manufacturer reserves the right to satisfy the customer's request based on the entity of the damage and on the feasibility of restoring the Quick Pull in terms of the mechanical safety and functionality. Interventions claimed under warranty are governed by the relative legal provisions.

15. DECOMMISSIONING AND DISPOSAL

When decommissioning and disposing of the lift or its parts, the current local waste disposal regulations must be respected and the machine's iron parts must be recycled wherever possible. Each part of the machine must be disposed of based on its typology.

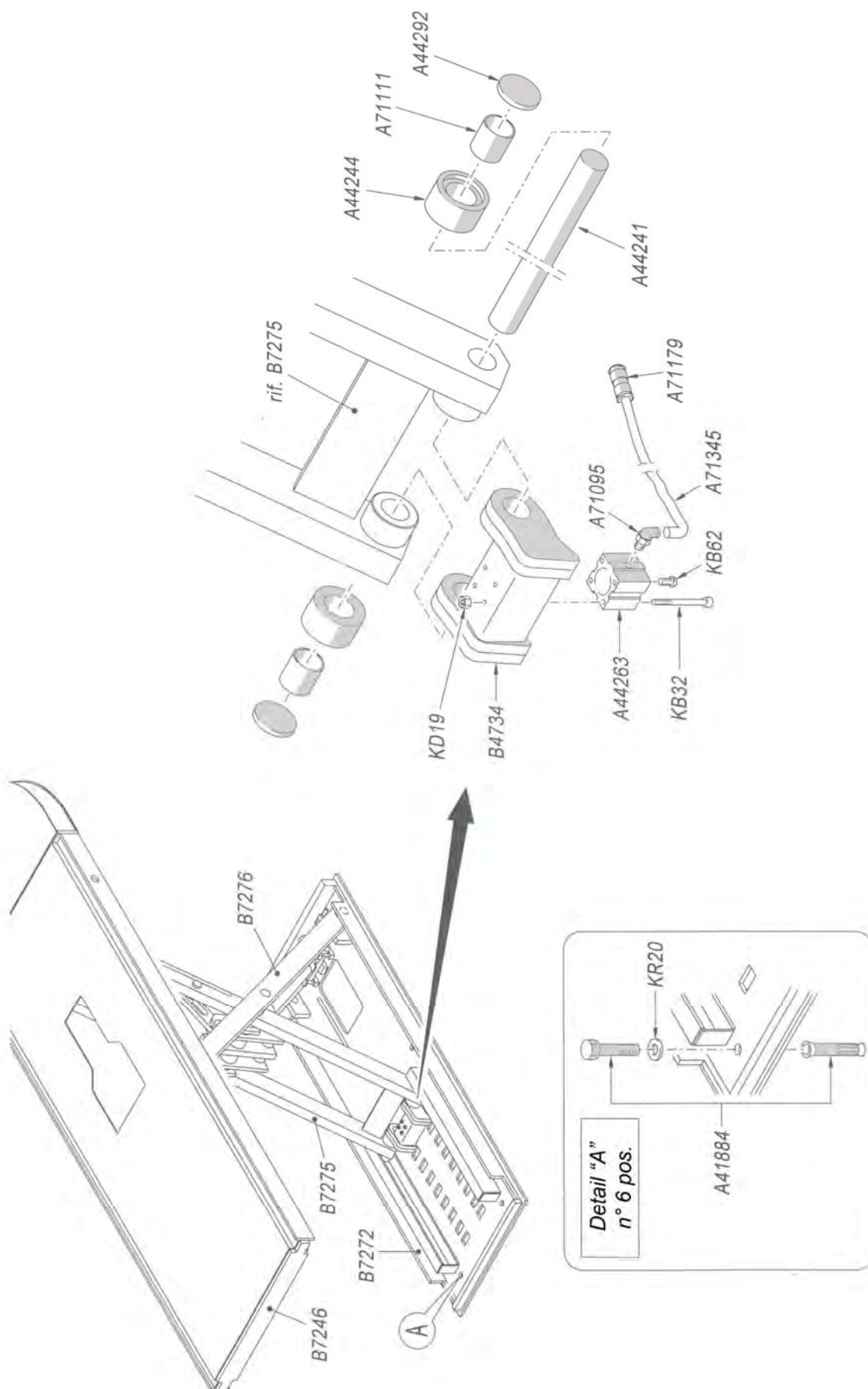
16. MACHINE LOG

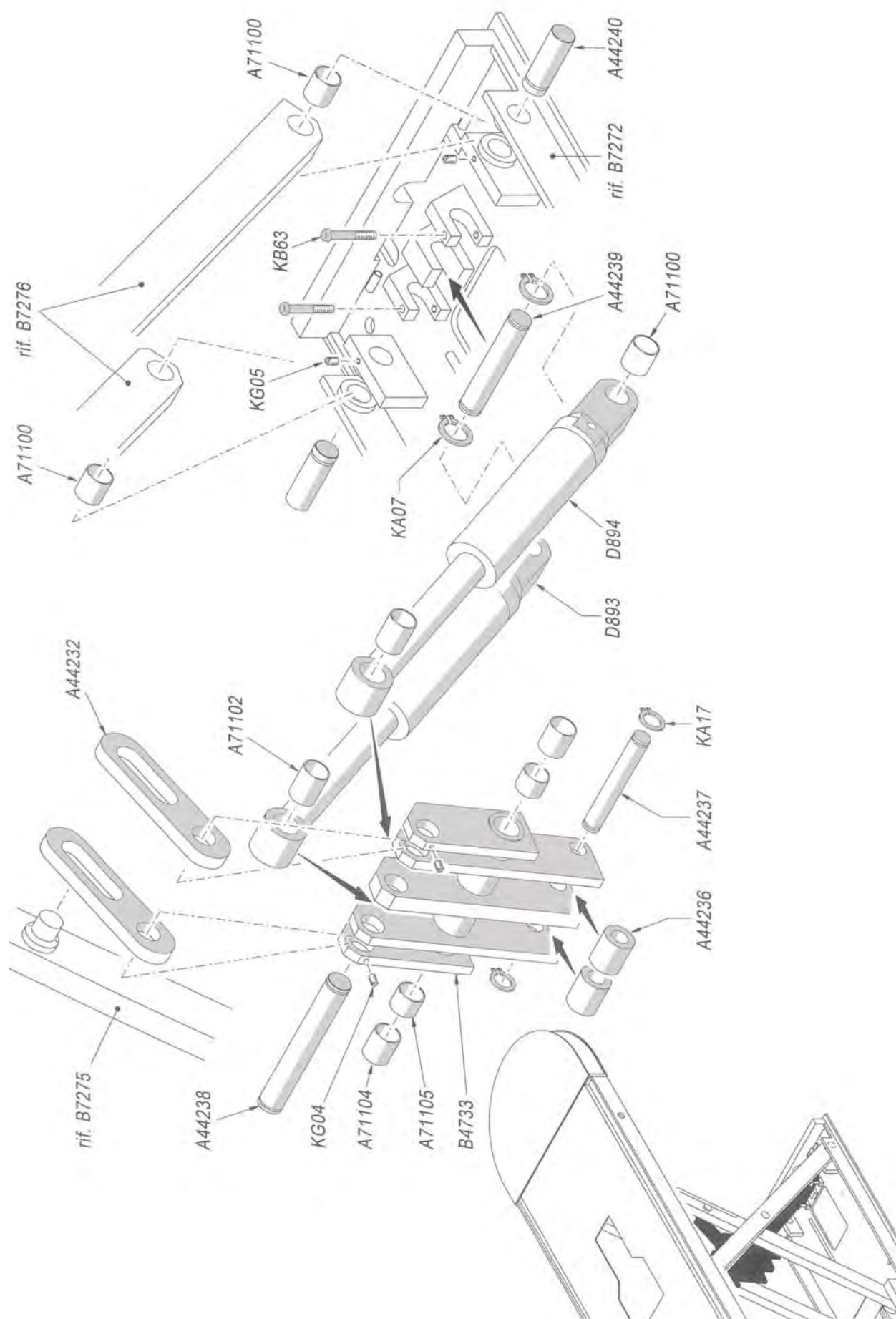
Use the table below to record equipment maintenance operations and any eventual interventions which are performed. This will render adequate information regarding the machine's life cycle available at all times.

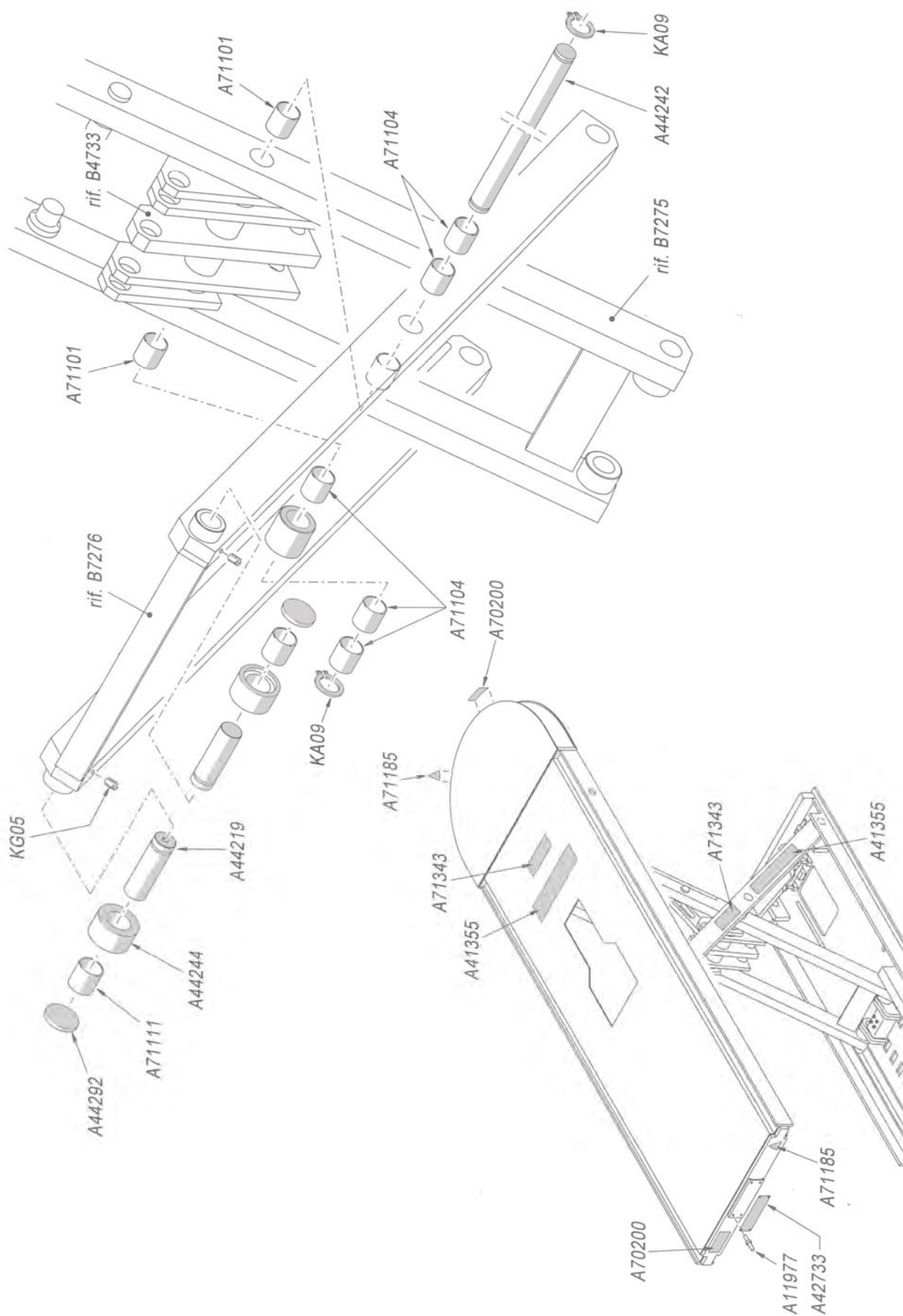
Serial number		Date of first activation		Page 1/2
DATE	Repair operation or scheduled Maintenance intervention	Spare parts	Operator signature and/or stamp	

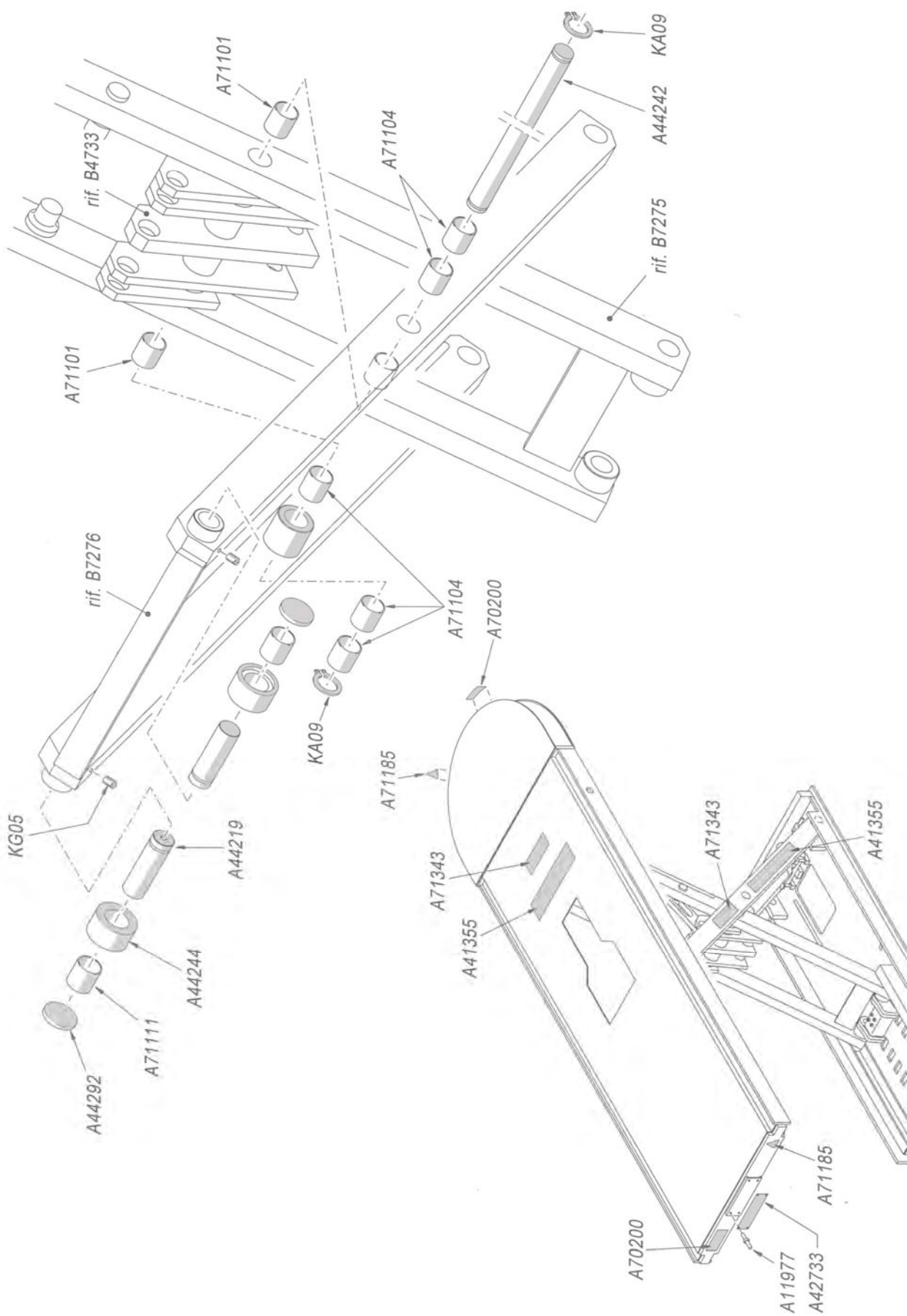
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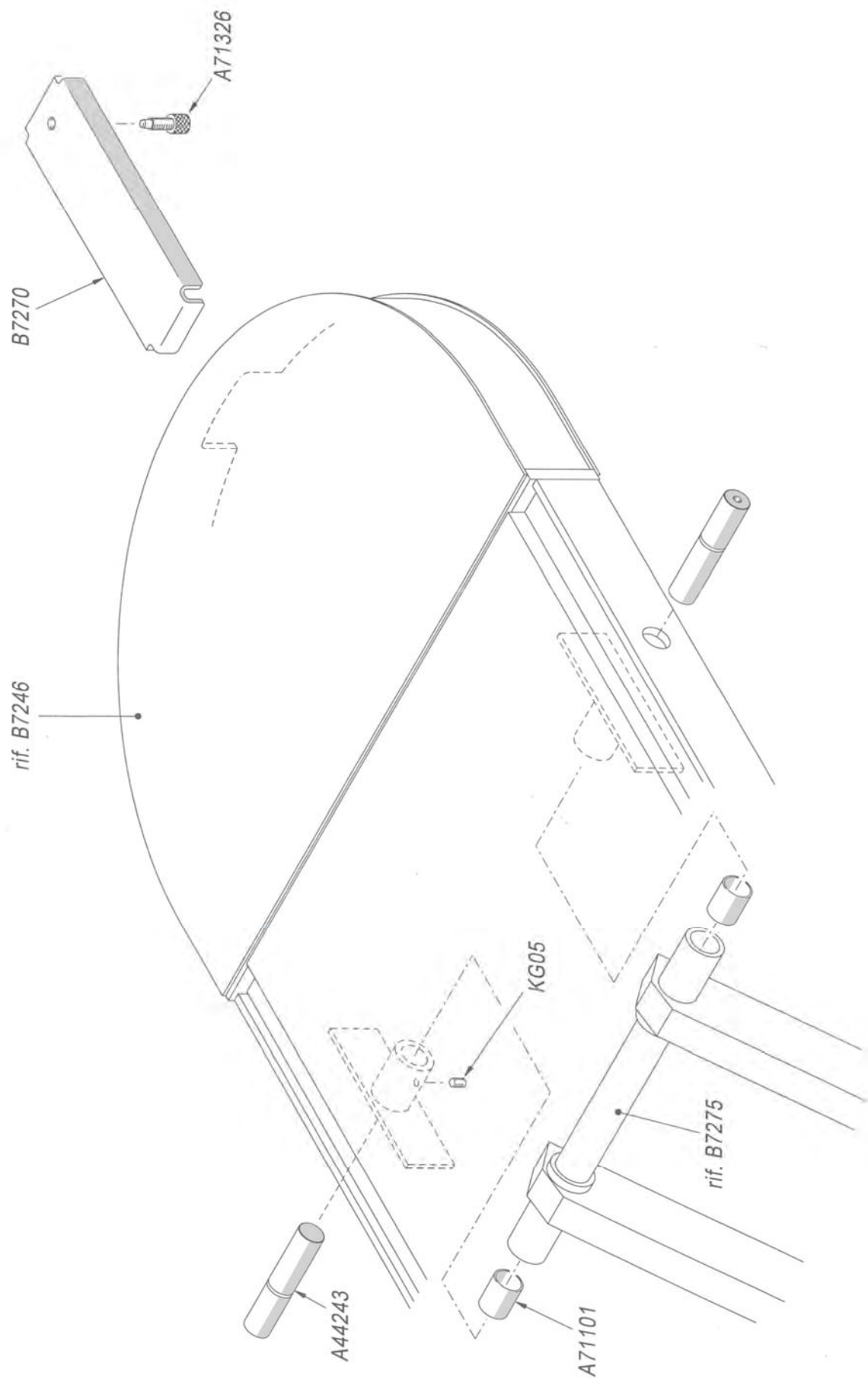
17. ANNEXES

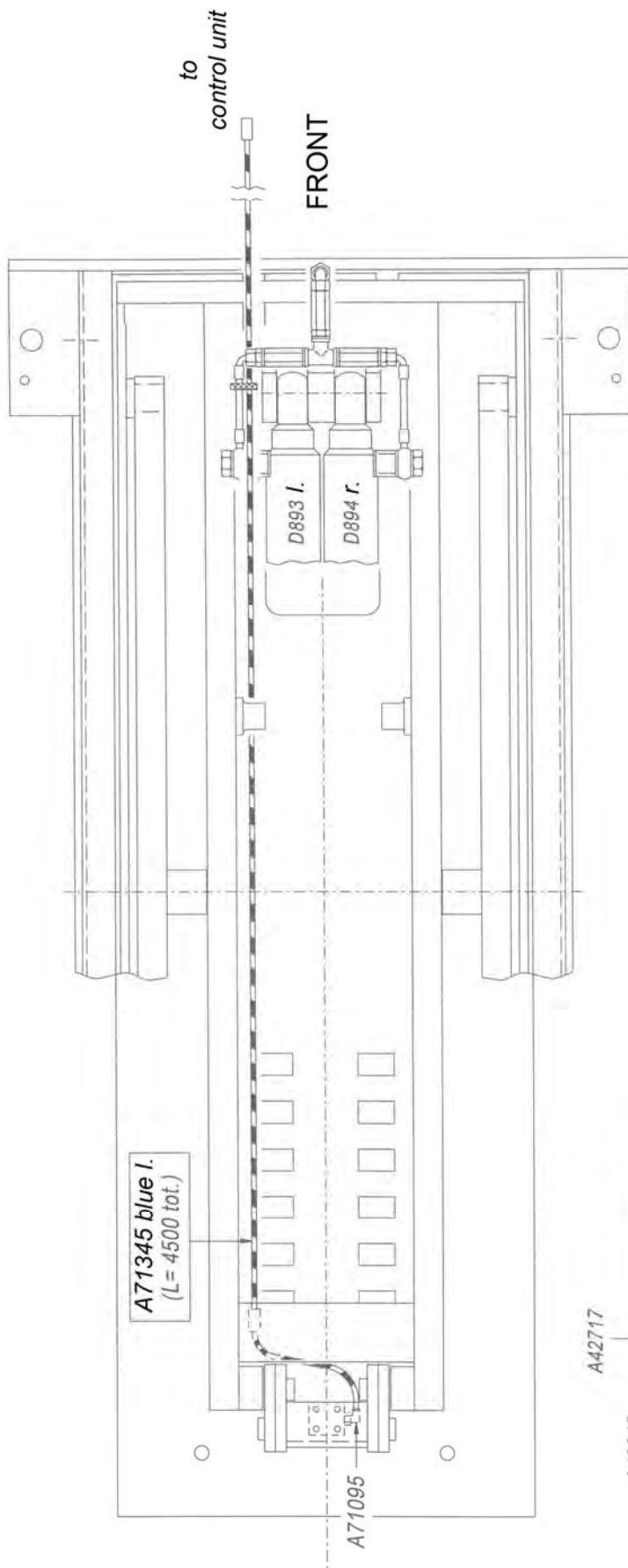






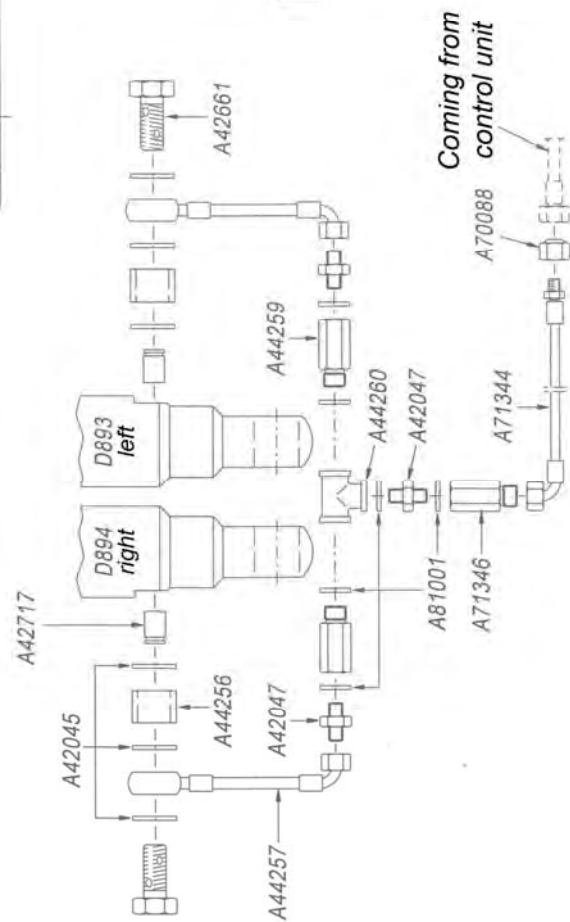




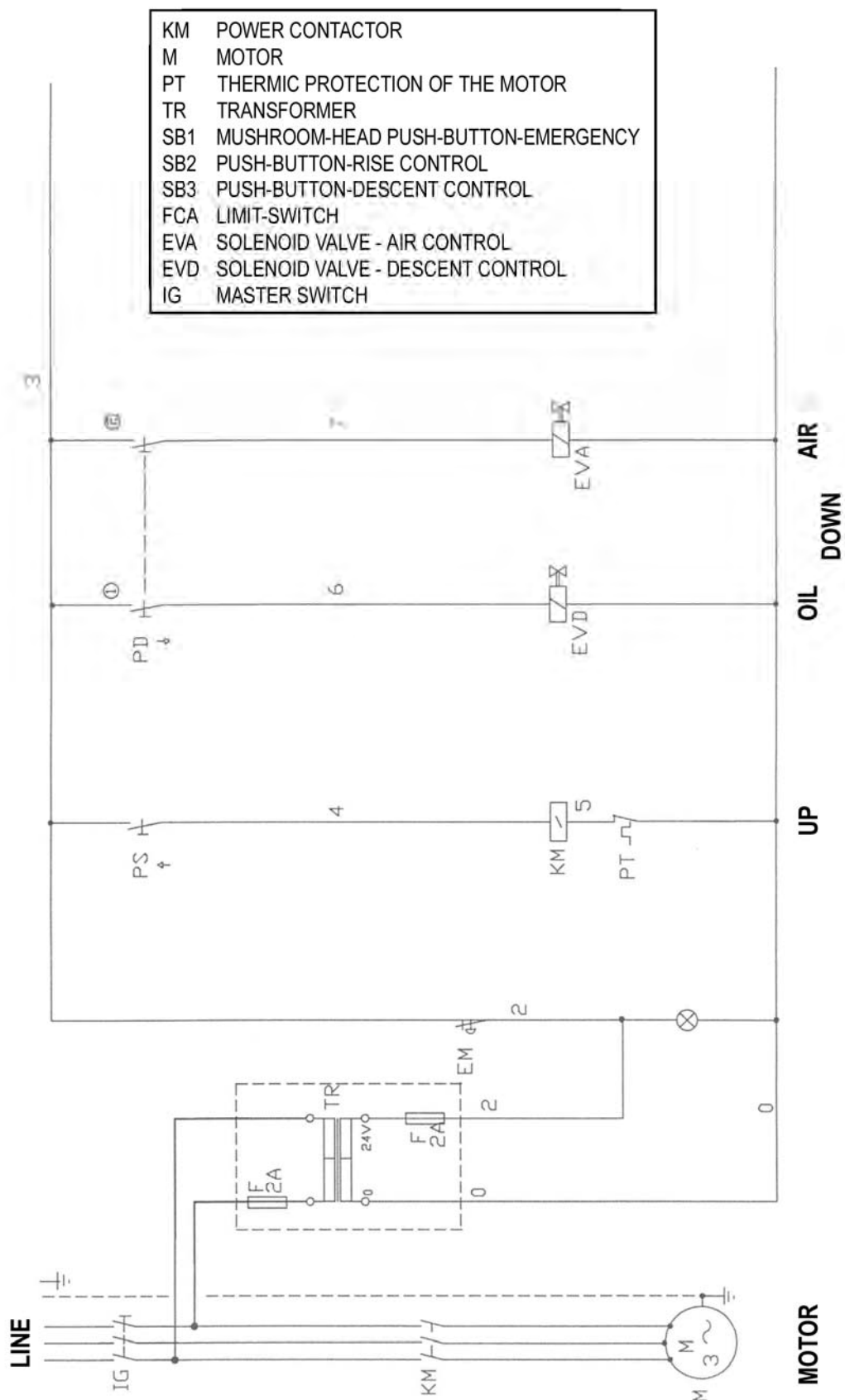


⊠ = Plastic cable tie

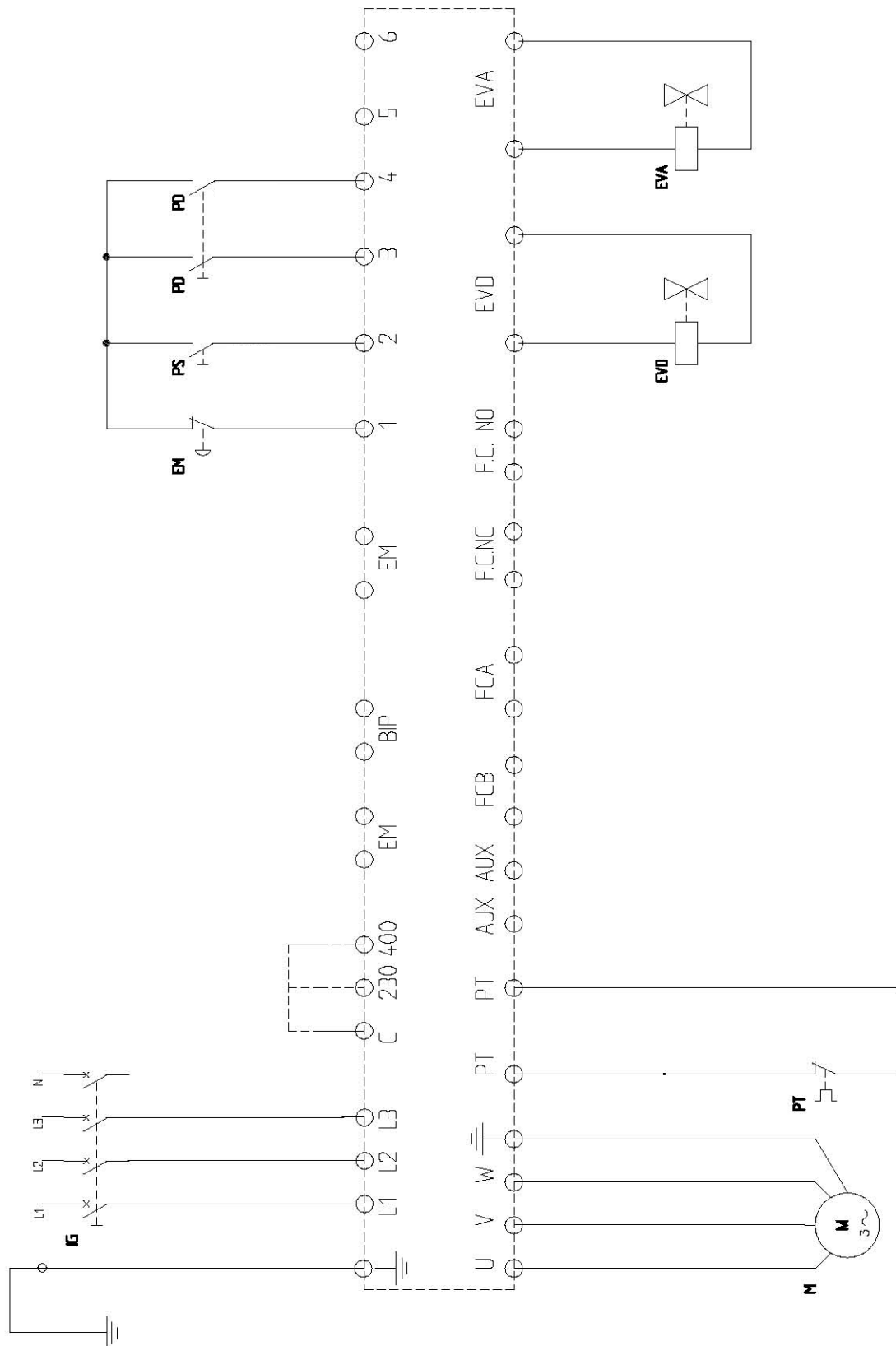
HYDRAULIC AND PNEUMATIC PLAN



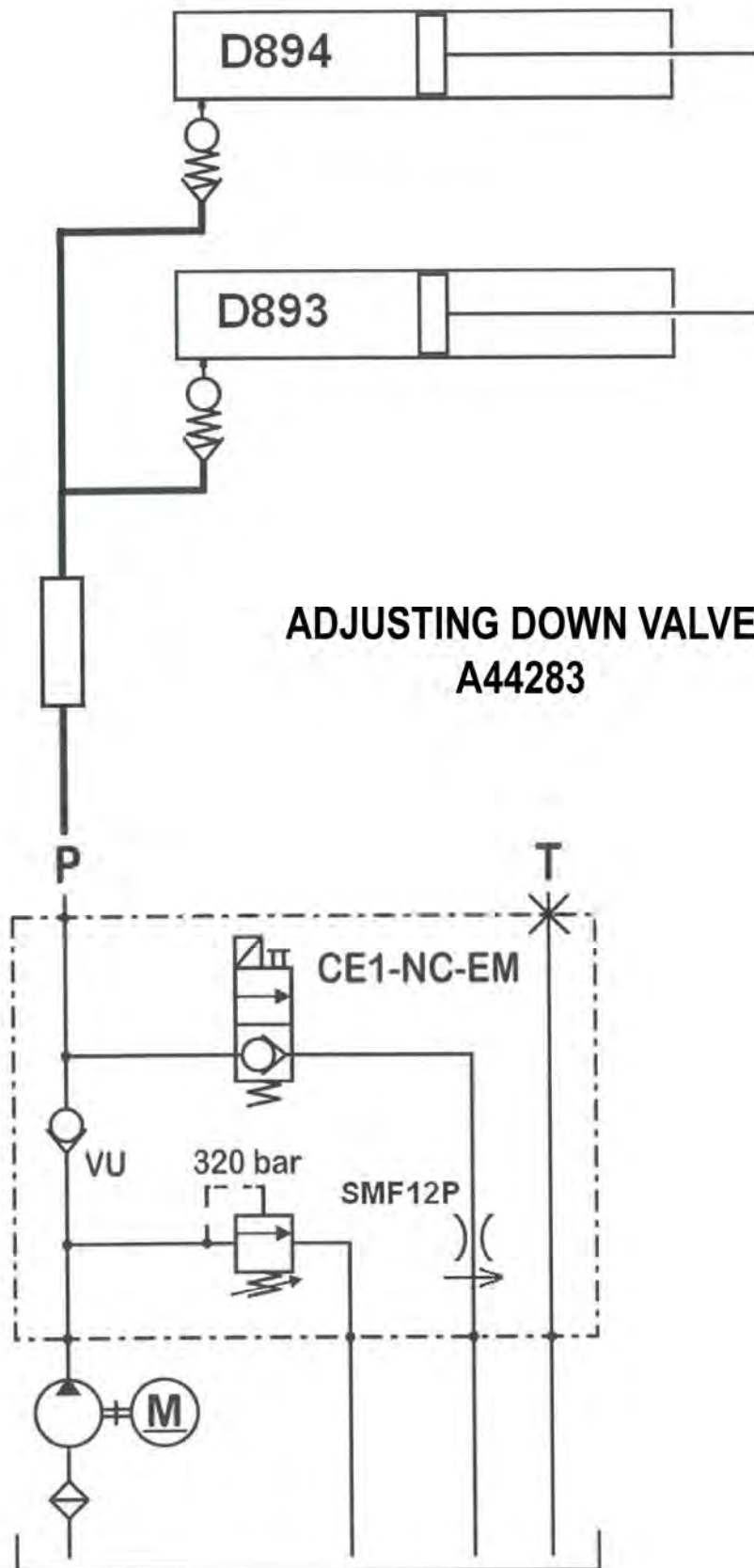
ELECTRICAL SYSTEM SCHEME



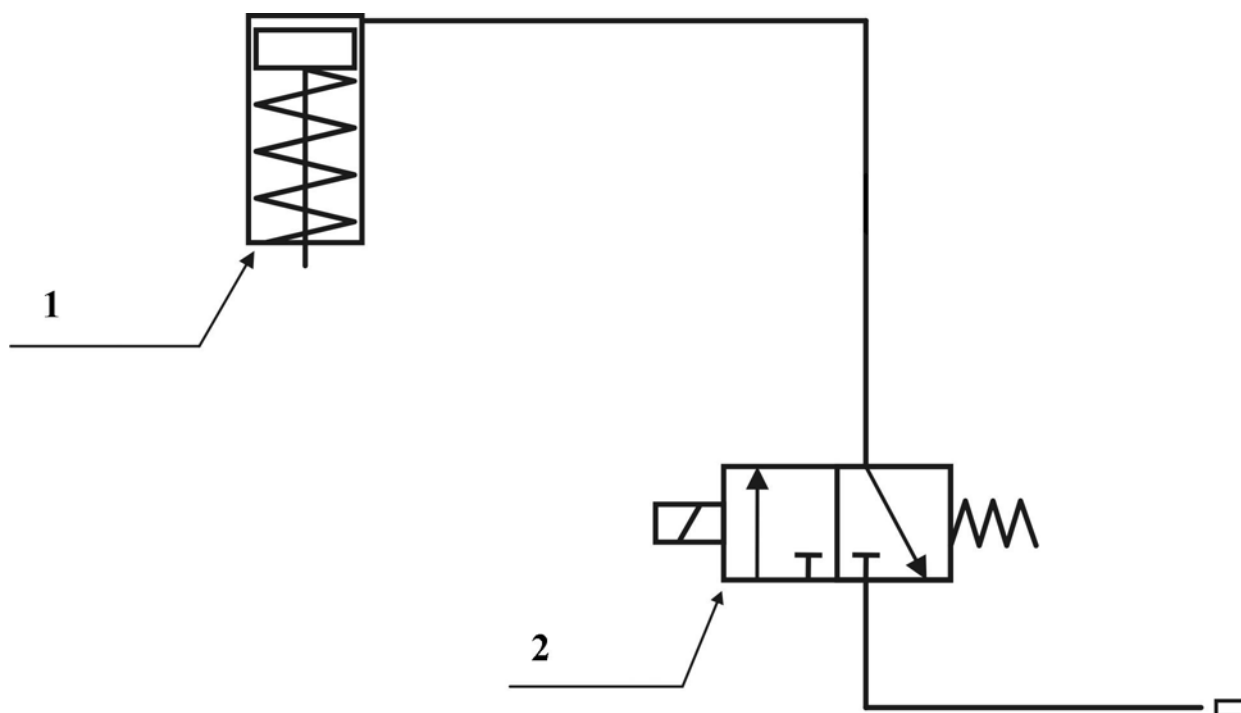
ELECTRONIC BOARD



HYDRAULICS SYSTEM SCHEME



PNEUMATIC SAFETY RELEASE SYSTEM SCHEME



2	3-WAY PNEUMATIC SOLENOID VALVE – NORMALLY CLOSED
1	SHORT STROKE PISTON

GLOBALJIG *International S.r.l.*

**Società unipersonale sotto la direzione e controllo della Bellini Srl.
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