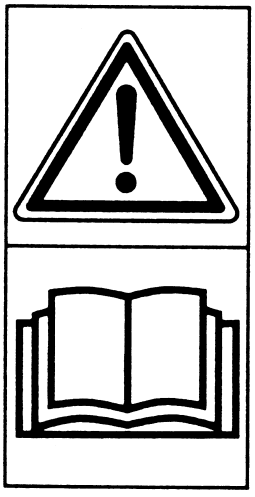
OMCN S.p.A.

ENGLISH

ELECTROHYDRAULIC
SCISSOR LIFT

Item 552
Item 553



USE AND MAINTENANCE
INSTRUCTIONS
SPARE PARTS MANUAL

ATTENTION !!! WHEN READING THE MANUAL THE **HAZARD** SIGNAL IS ENCOUNTERED

DANGER

WARNING

CAUTION

THE SIGNAL SHOWS THE PRESENCE OF MORE OR LESS SIGNIFICANT **HAZARD** CONDITIONS.
THE **HAZARD** SIGNAL ARE AT 3 LEVELS:

DANGER

Lack of compliance with this signal causes very serious health risks; death or permanent medium to long term injuries.

WARNING

Lack of compliance with this signal could cause very serious health risks; death or permanent medium to long term injuries

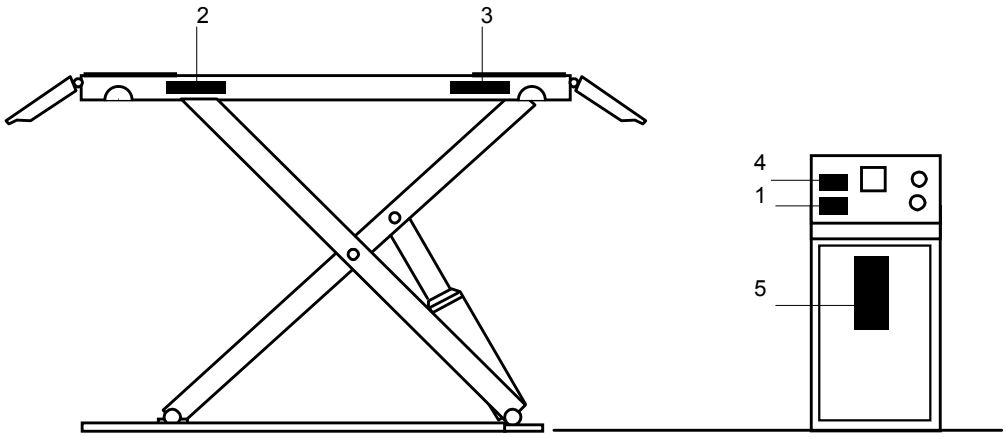
CAUTION

Lack of compliance with this signal could cause personal injuries or damage to the machine

CAUTION

After completing assembly, attach the adhesive labels included in this booklet to the lift, referring to the chart shown below.
If the labels are not attached, all warranty conditions will be invalidated and the manufacturer will not be held responsible for any damage caused by using the lift.

Note: If one or more labels on the lift become damaged, illegible or lost, request the position No. needed to replace it. Then replace the new label at the point indicated.



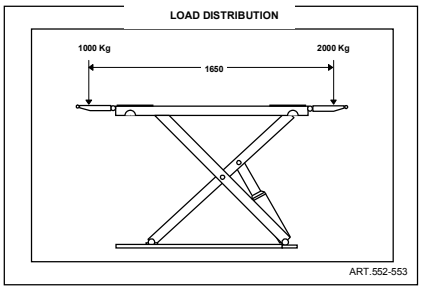
1

DO NOT CLIMB ONTO THE BOARDS WHEN THE LATTER ARE MOVING

2

KG.3000

3



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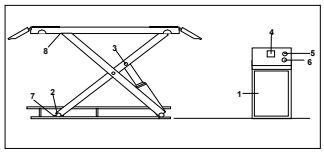
USER AND SAFETY INSTRUCTIONS

The lift may only be used by authorized personnel.
Lifting loads greater than those specified by the manufacturer is prohibited
Getting onto the vehicle or platforms when in movement is prohibited.
Stopping in the lift work area when it is in movement is prohibited.
Before each raise check that the vehicle is positioned correctly on the platforms.Recheck that is still correctly positioned after it has been raised up a little.
The "Use and Maintenance" manual must be referred to specifically for identifying possible faults and for scrupulous compliance with the periodic checks.



CONTROL ELEMENTS

Main switch – position 1: Run N°4
position 2: Stop N°4
Raise control button: N°5
Lower control button: N°6

MAINTENANCE

Keep the lift scrupulously clean.
Change the oil in hydraulic control unit (pos.1) every 1000 operating hours. Use "Agip Acer 46" or equivalent Hydraulic oil.
Manually grease the points in the lift where nipples are provided (pos.2 and 3).
Keep the nylon slide blocks (pos.7 and 8) well greased.

Carefully read the instruction booklet before use and each time the machine is to be maintened.
Always ensure that the main switch is set to "0" before maintenance sessions

Item 552-553

5

Instruction booklet

CONTENTS

1.0 SPECIFIC USE

This booklet is an integral part of the product.

Carefully read the warnings and instructions contained in this booklet since they provide important information concerning SAFE USE AND MAINTENANCE.

KEEP THIS BOOKLET IN A SAFE PLACE FOR FUTURE REFERENCE.

SPECIFIC USE
Lift Item 552-553 to which this manual refers has been built in compliance and with reference to the following standards and directives: EN 292-1 \ EN 292-2 \ EN60204-1 \ EN414 \ CNR 10011 \ EN1493 \ 98\37EU.
THE SCISSOR LIFT has been designed to be used as a lift for 4 wheeled motor vehicles with a weight not exceeding 3000 Kg.
Lifting people or things other than those mentioned above is prohibited.

It is prohibited to overload the lift beyond the allowable limits as prescribed in the special table (FIGURE 1). Comply with the parameters supplied in the LOAD DISTRIBUTION diagram.

This device shall only be used for the purpose for which it was expressly designed.
Any use other must be considered as improper and thus prohibited.

The manufacturer will not be held RESPONSIBLE for damage to persons, property or animals, caused by use that is improper or does not conform to the prescriptions presented in this manual.

FIG.1

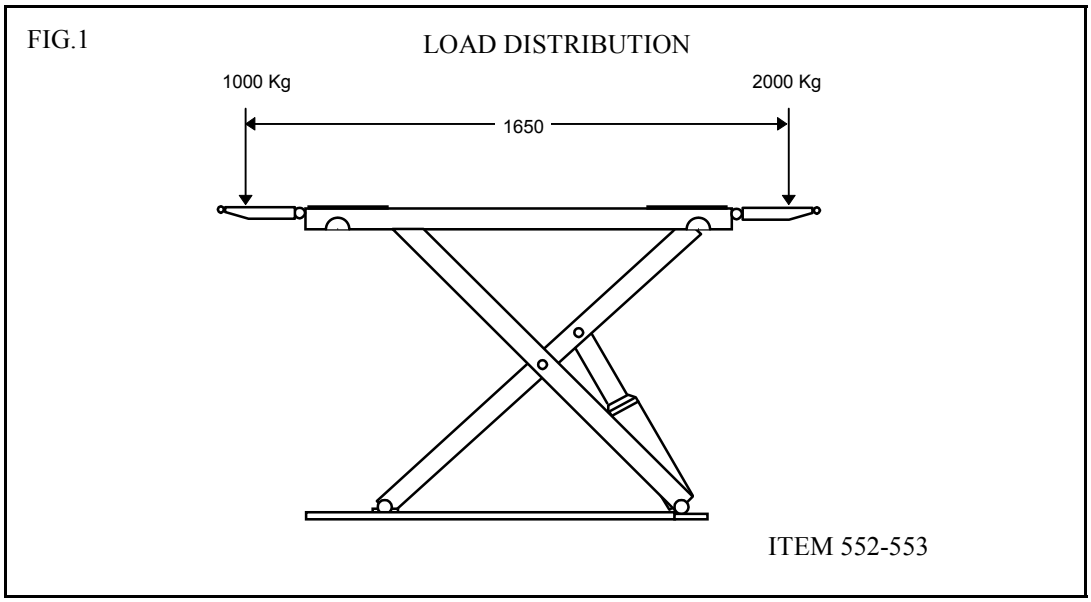
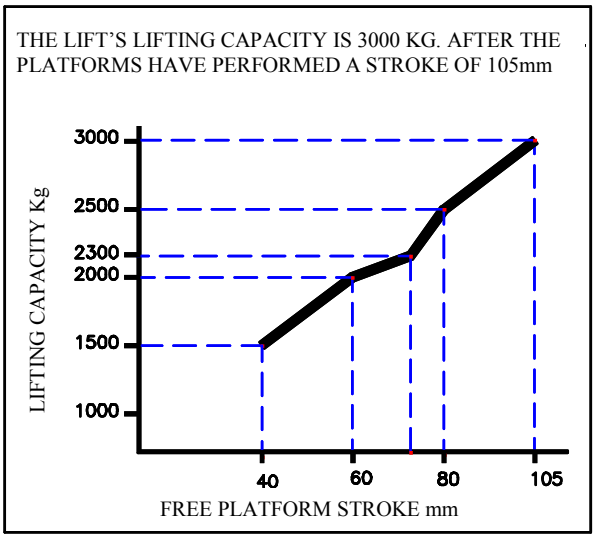


FIG.1A



2.0 GENERAL SAFETY RULES

The lift can only be used by specially trained and authorised personnel in good health.

Any tampering or modification not authorised by the manufacturer, OMCN, is prohibited. Interventions not authorised by the manufacturer absolve same from damage deriving from or referable to the aforementioned actions and lead to automatic lapsing of the guarantee.

Removing or tampering with the safety devices is a violation of the European safety standards.

- The lift may only be used in covered areas protected from weather conditions such as: snow, rain, wind. Installation is only permitted in environments where there is no danger of flammable and explosive vapours or mixtures developing.
- When operating the lift, wear appropriate clothing as prescribed by the laws in the country where the lift will be used.
- The lift should never be used if the ambient temperature is less than 15°C.
- It is recommended to use OMCN original accessories and auxiliary lifts; our lifts are designed to accept original accessories.
- The installation must be carried out by personnel qualified in the electromechanical-mechanical-hydraulic sector in full compliance with the instructions included in this manual.
- It is prohibited to climb or remain on the vehicle support device and on the vehicle when it is lifted.
- During the up and down movements, make sure no dangerous conditions arise, immediately stop the lift if irregular operations occur, and contact the technical service department of your authorised dealer.
- After lifting the vehicle, and before starting to work on it, put the lockable switch in the (0) position and attach the special padlock.
- Make sure the vehicle is stable on the support devices immediately after beginning the lifting movement.
- The sound level of the lift during operation is less than LpA 70 dB(A).
- Ensure that dismantling parts of the vehicle to be repaired does not unbalance the load.

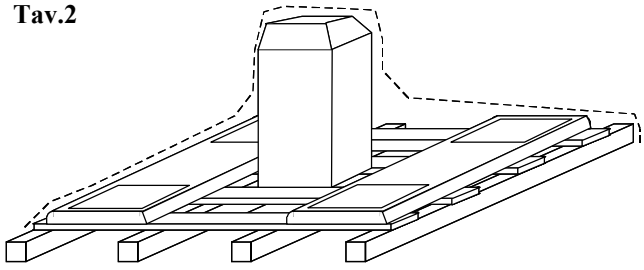
NOTE: The height of the pad must permit the platforms to make an unladen cycle before beginning to lift as shown in the load diagram in FIGURE 1A.

DANGER

Any work performed on the electric system, regardless of the extent of such operations, must be carried out by professionally trained personnel.

3.0 TRANSPORT

Tav.2



Item 552 - Kg.450
Packing 50Kg

Transport of the packed machine, should the packing shown in FIG. 2 not be used, must be done according to the following instructions:

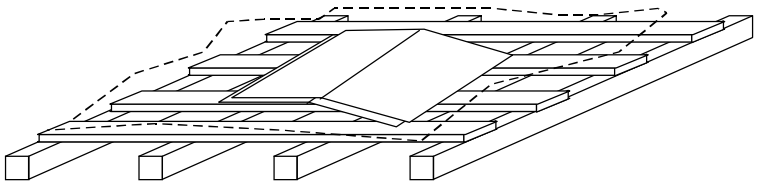
- Protect the control unit against exposure to bad weather and handle it with care.
- Protect the corners and the ends of the piece to be transported using suitable material (Pluriboll-Cardboard).
- Do not use metallic cables for lifting.
- Sling using belts that are at least 200 cm long with a capacity of more than 2000 Kg.

4.0 UNPACKING

After removing the packaging, check that the lift is undamaged making sure that no parts are visibly damaged.
Check the condition of the control unit.
In case of doubt, do not use the lift and contact the technical service department of your authorised dealer.

The box containing the accessories can be found in the packing.

FIG.3



Tare Kg.50

Keep all the packing elements (plastic bags, spacers, cardboard, nails, scews, wood, etc.) away from children since such parts may be dangerous.

Place the above-mentioned material in the special waste collection areas, for they are not biodegradable.

5.0 SAFETY DEVICE TECHNICAL FEATURES

- Double torsion bar used for levelling, connecting and aligning the two platforms.
- Compensated valve for controlling lowering speed.
- Foot-guard safety device.
- Check and safety valve protecting against breakage of pipes ensuring the lift's stability.
- Max. pressure valve for controlling max. throughput.
- Adjustable length platforms guaranteeing support for any type of vehicle.
- Low voltage man-present drive commands.
- Automatic mechanical cut-in stopping device programmed in regular steps.
- Door locking switch on the electric panel.
- Low voltage power circuit and electrical components.
- Magnetothermal motor overload cut-out switch.
- Double sequence descent with sound warning for item 553.

6.0 ITEM 552 FLOOR INSTALLATION AREA

A useful working area of 420x220 cm is required to install the machine.
From the control position, the operator must be able to see the entire machine and the surrounding area to ensure that unauthorised persons and objects, that might represent sources of danger, are prevented from accessing such area.
The lift must be installed on a horizontal surface, preferably cemented or tiled. Avoid yielding or disconnected surfaces. The lift's support surface must support the loads transmitted during lifting. This surface should have a capacity of at least 25 Kg/cm^2 and a resistance class of 250 Rbk. The depth of the layer of concrete must guarantee the hold of the anchor bolts and have good consistency for at least 200 mm (see FIGURE 3B).

NOTE: The lift must be connected to the ground using the anchor bolts supplied with the machine (see FIGURE 3B).

Mark the operating area of the lift using yellow stripes drawn on the floor, 1 metre away from the lift over the entire floor.

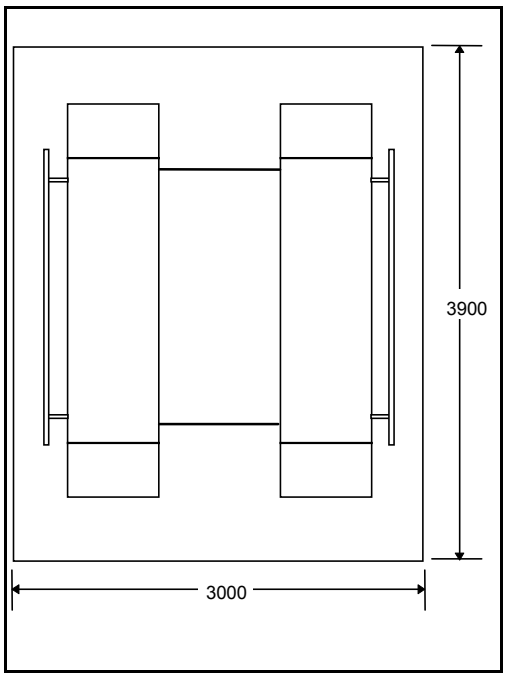
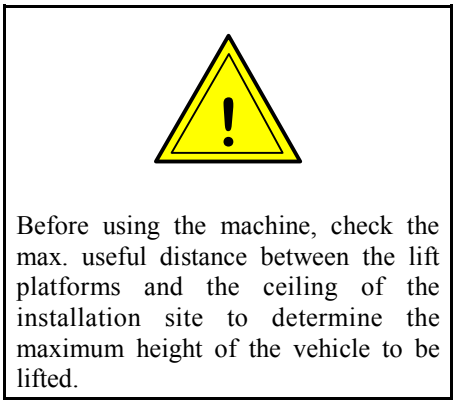


FIG.3A



Before using the machine, check the max. useful distance between the lift platforms and the ceiling of the installation site to determine the maximum height of the vehicle to be lifted.

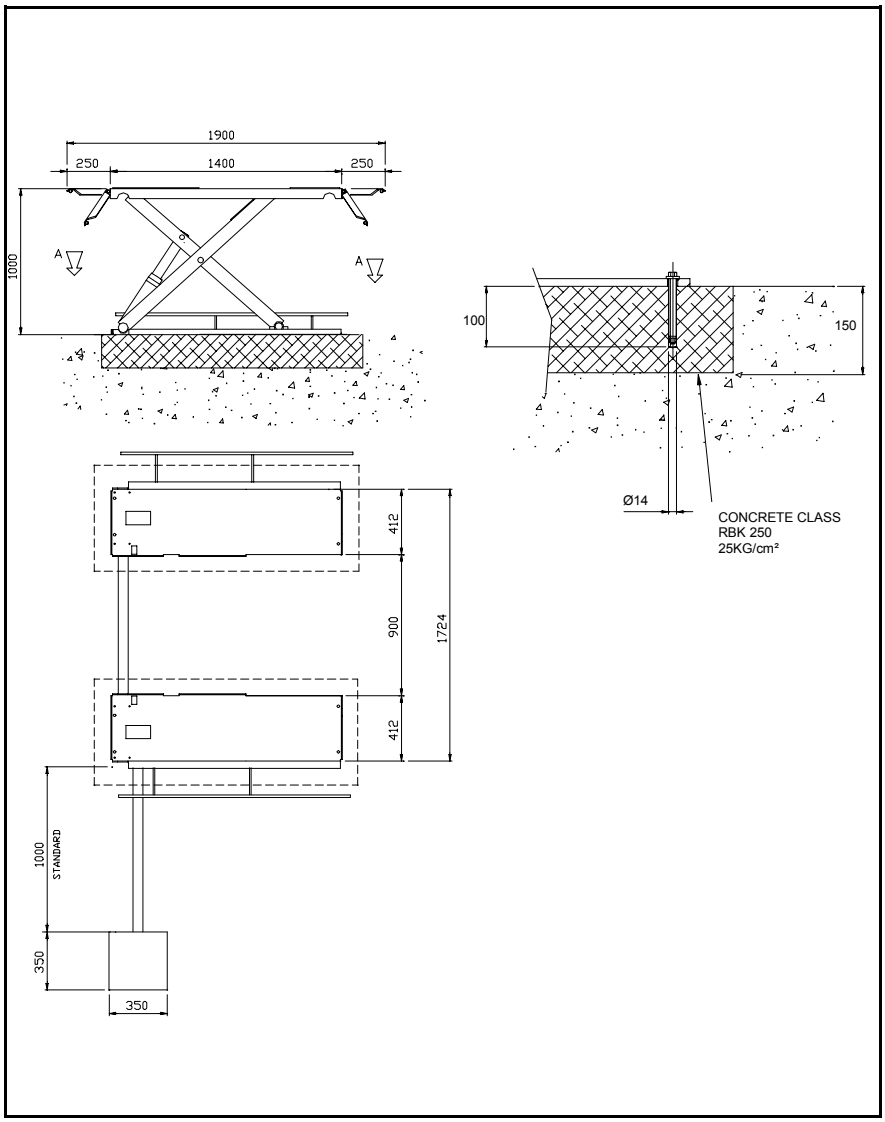


FIG.3B

6.1 ITEM 553 PIT INSTALLATION AREA

A useful working area of 420x220 cm is required to install the machine.
From the control position, the operator must be able to see the entire machine and the surrounding area to ensure that unauthorised persons and objects, that might represent sources of danger, are prevented from accessing such area.
Do not use the lift if the ambient temperature drops below 0°C.
Prepare the recessed area as shown in FIGURE 4C placing an "L"-shaped section (FIGURE 4B) in the corners of the pit around the entire perimeter. The area where the jack will be installed (bottom of pit) must be flat and levelled ± 5 mm over the total length. The concrete used for the floor at the bottom must have a capacity of 25 Kg/ cm². The cement class must be greater than or equal to 250 Rbk, with a depth of at least 200 mm without expansion joints or cuts. Ducts for passing connection pipes between the two platforms, and between the control unit and platform 1 must be channelled by placing a pipe with a minimum internal passage of Ø 50 mm.

NOTE: The lift must be connected to the ground using the anchor bolts supplied with the machine (see FIGURE 4B).

To realize the foundations the specific drawing is required.

Mark the operating area of the lift using yellow stripes drawn on the floor, 1 metre away from the lift over the entire floor. (FIGURE 4A).

FIG.4A

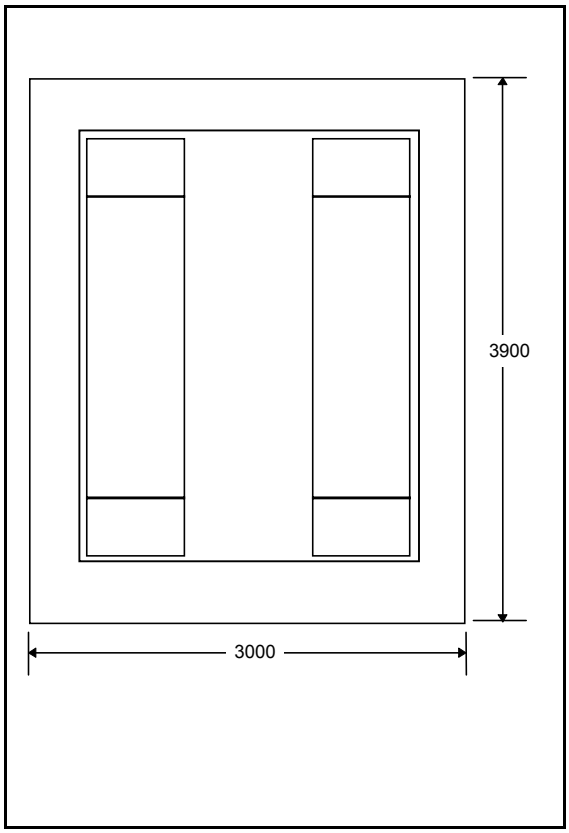
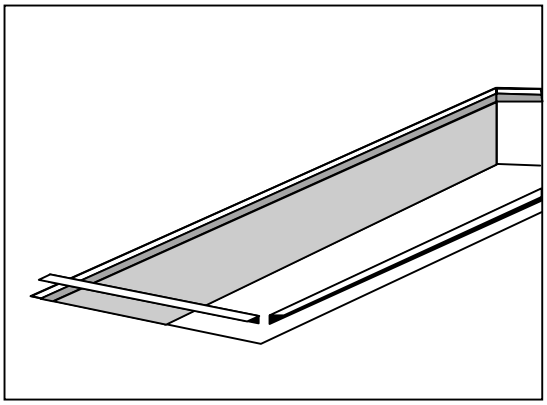
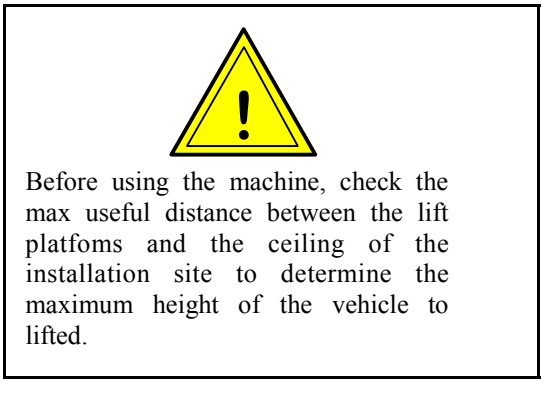


FIG.4B





Before using the machine, check the max useful distance between the lift platfoms and the ceiling of the installation site to determine the maximum height of the vehicle to lifted.

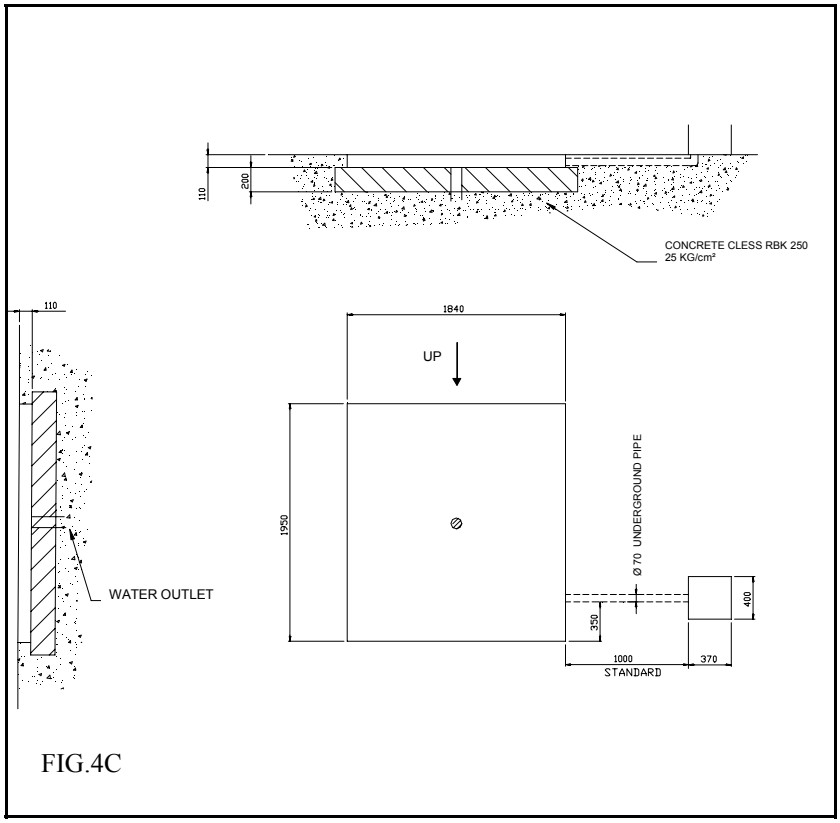
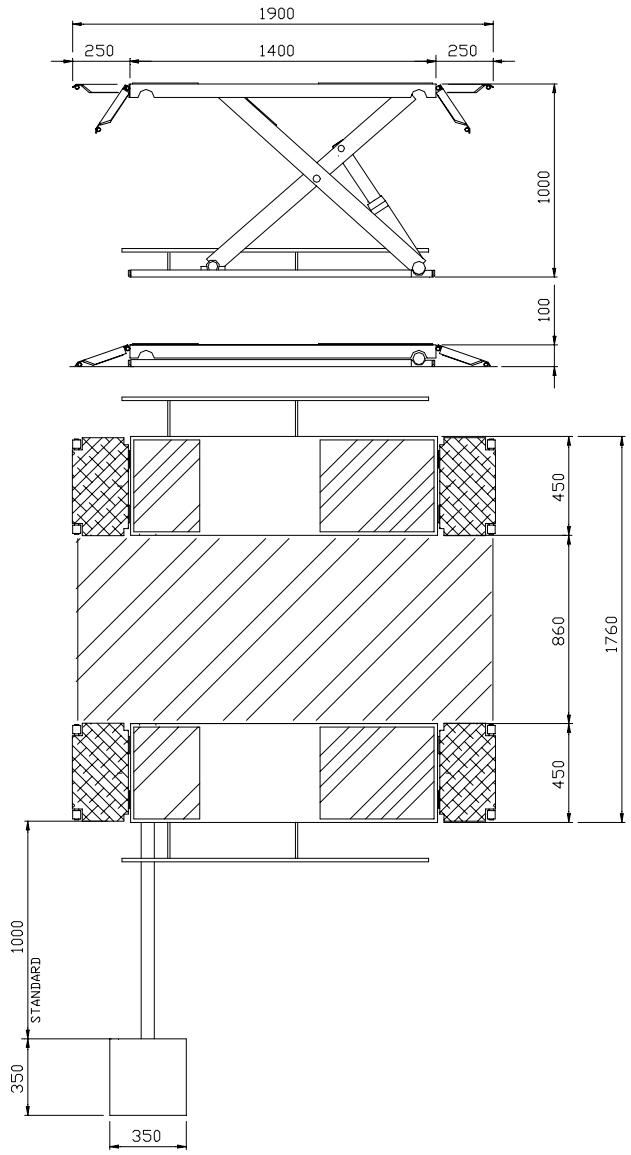


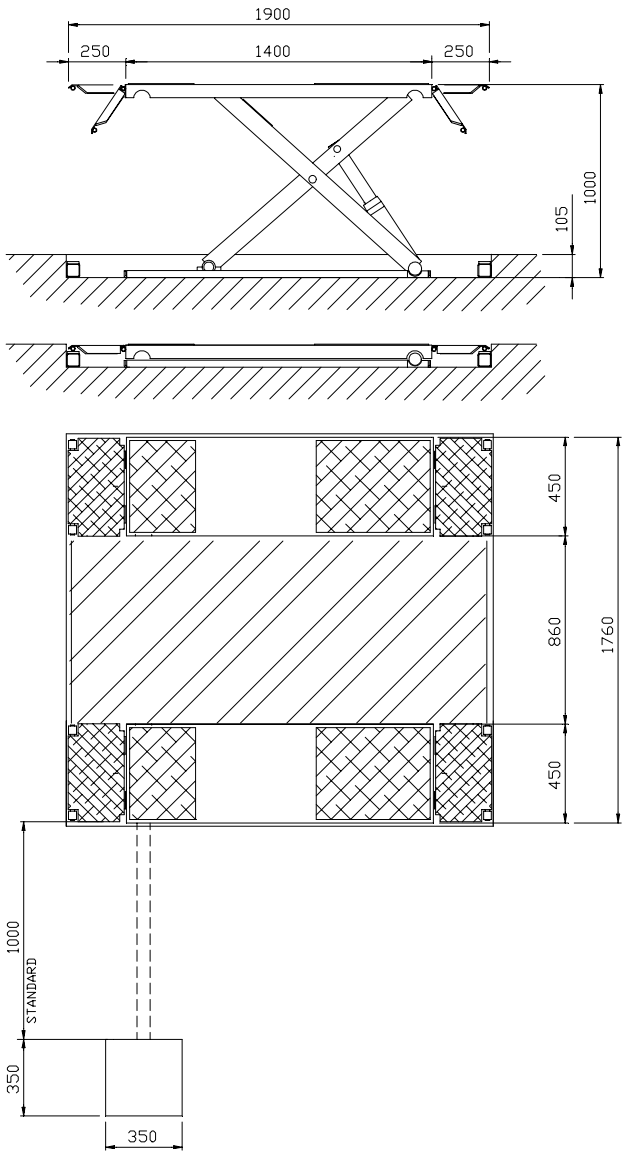
FIG.4C

7.0 TECHNICAL DATA



ITEM 552

Capacity.....3000 Kg
Rise time…….....55 sec
Descent time…….....60 sec
Motor power…….....3,3 Kw
Motor….....400V 50 Hz



ITEM 553

Capacity.....3000 Kg
Rise time…….....55 sec
Descent time…….....60 sec
Motor power…….....3,3 Kw
Motor….....400V 50 Hz

SOUND LEVEL LOWER THAN 70db

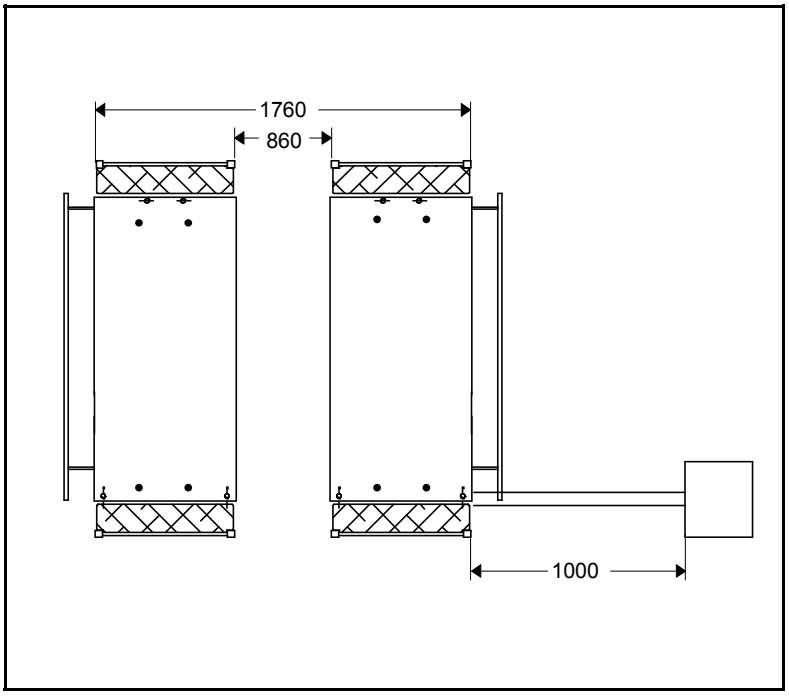
8.0 ASSEMBLY AND START-UP

After removing the various parts from the packing, check that they are undamaged and that no problems have occurred, then follow the instructions listed below to assemble the parts while referring to the attached series of illustartions.

9.0 INSTALLATION

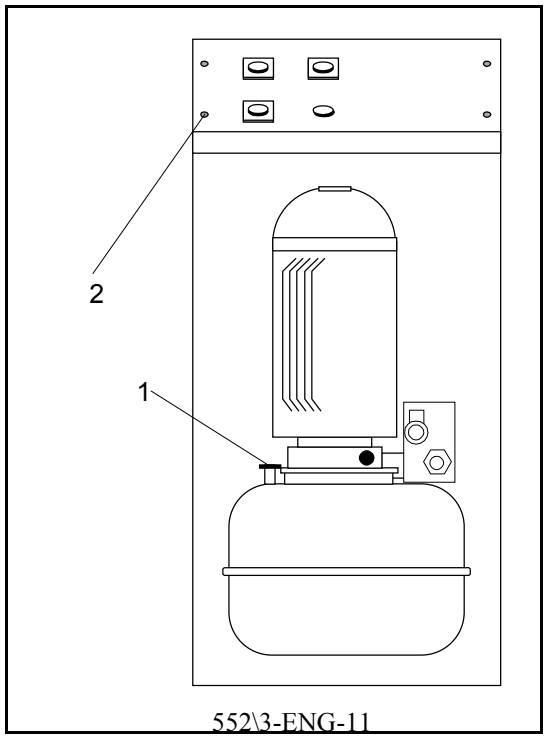
For transport the lift is arranged with the platforms one on top of the other, the control unit above them, together with the ducts (for item 552) and foot-guard rods. Locate the lift's two platforms and the command cabinet (containing the control unit) as shown in FIGURE 5. During installation handle the various components with care to prevent cutting or tearing the duct pipes and power cables.

FIG.5



The control unit tank already contains the oil needed for operating. Replace the iron plug with the plastic plug fitted with a dipstick (1 FIGURE 6) contained in the bag attached to the motor cable inside the command cabinet. Also check that the oil in the tank reaches the level of the dipstick on the filler plug.
For topping up, use the hydraulic oil "AGIP ACER 46" or an equivalent product. With the lift lowered the oil level must be halfway between the two reference marks.
The plastic plugs in the bag attached to the motor are used to close the holes that provide access to the screws on the panel with the control buttons (2 FIGURE 6). After connecting the line cable, use the handwheels to close the cabinet door.

FIG.6



9.1 ELECTRIC CONNECTIONS

DANGER

Work performed on the electric part, including any light repairs, must be carried out by professionally qualified personnel.

For the power supply, if the cable is less than 3 metres long, use a 3-pole + earth cable with a minimum cross-section of 4 mm^2 to be connected to terminals L1 – L2 – L3 of the electric panel (See FIG. 7). For greater distances the line cable cross-section must be proportional to the distance between the wall panel and the lift control unit (consult the manufacturer).
Joints in the line cable are strictly prohibited.

The lift normally operates at 400 volts and the connections are designed for such a voltage rating.

If a power supply with a voltage equal to 230 volts must be used, do the following:

- In the transformer, disconnect the wire in the terminal marked as 400 and connect it to the terminal marked as 230 (FIGURE 8).
- Lift off the cover on the motor terminal board.
- Remove the nuts from the block of the contract bars located in a horizontal position (FIGURE 9).
- Re-tighten the nuts.

Replace the thermal device on the contactor with a similar product with an adequate rating. On request, it can be supplied by the OMCN technical service department.

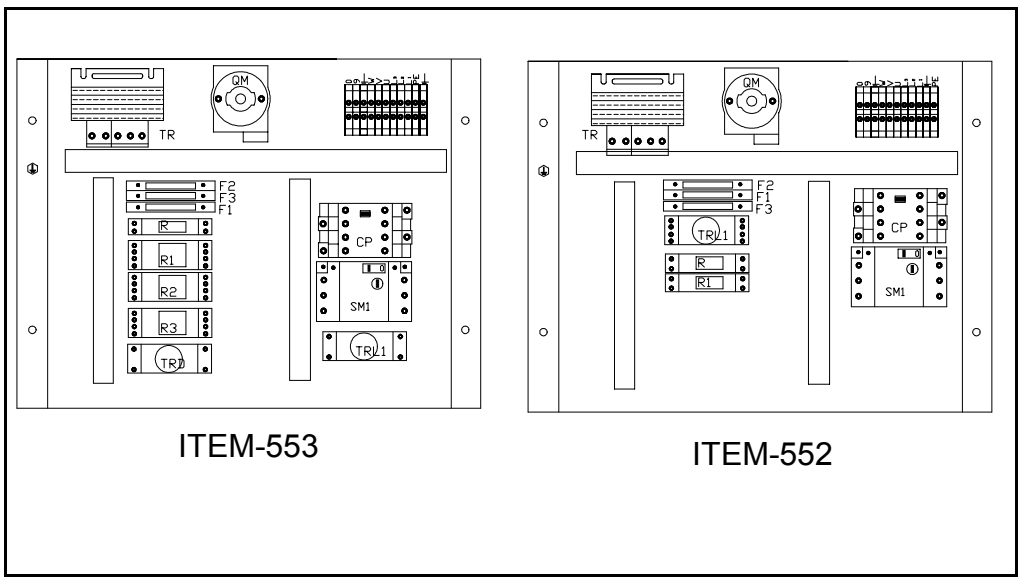
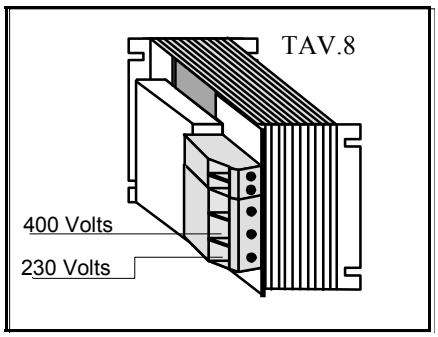


FIG.7



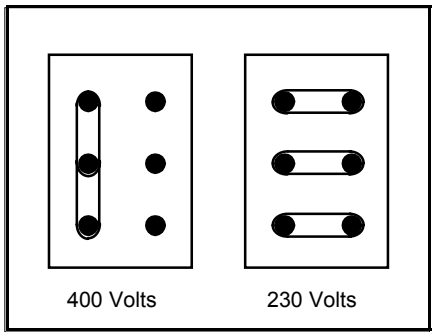


FIG.9

DANGER

THE POWER SUPPLY MUST BE PROTECTED BY A CUT-OFF SWITCH. DIRECT CONNECTIONS TO A MAINS NETWORK ARE PROHIBITED.

Perform an electrical continuity test after the power connections have been made correctly.

Check that the voltage corresponds to 400 Volts. Check that an overcurrent protection device, equipped with a 30 mm/A cut-out switch, is installed upstream from this point.

WARNING

The manufacturer will not be held responsible for any damage due to non-compliance with the instructions described above and warranty may be cancelled.

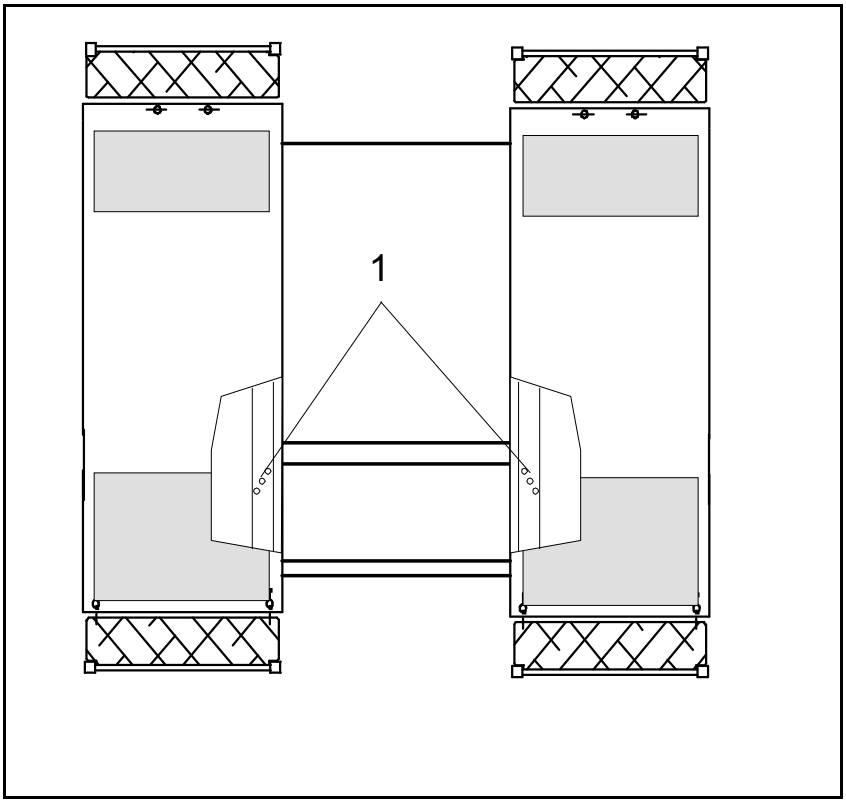
10.0 START UP

N.B.:The following operations should only be performed by professionally qualified personnel aware of the lift's functional procedures.

WARNING WARNING

Locate the lift and control unit in the end use position (FIGURE 4) and connect the two hydraulic pipes running from the lift platform to the control unit. Thread the pipes through the gearcase base and bring them up to the hydraulic unit pipe fittings as in FIGURE 10A. Remove any plugs present on the pipe fittings and tighten the pipes on their fittings (threading them through the prepared ducting in the case of item 553), following the identification colour coding.(Red for primary hose).
Fully close the union joints to prevent oil leaks, put the two hoses in their protection. (Item 552).
Power up the electric panel. Check that there is oil in the tank inside the command cabinet using the special dipstick on the filler plug, the oil should reach the dipstick's max. notch.
Press the raise button on the electric panel, check that the motor rotates in the direction of the arrow on the hydraulic control unit and raise the lift's two platforms to approx. 50 cm above ground level.
Slacken off the two cylinder plugs (1 FIGURE 10) using an "ES5" Allen key to bleed the air from them, then give brief pushes to the lower button until only oil emerges from the previously slackened-off plugs (1 FIGURE 10) and finally retighten the plugs.
Make 2 or 3 complete unladen strokes of the lift, each time arriving at the mechanical maximum stroke beat without continuing to press the "RAISE" button when the mechanical beat has been reached.
Raise the sheet covering between the two footboards **(NB: for item 553 press the descent button twice to lower the lift.)**

FIG.10



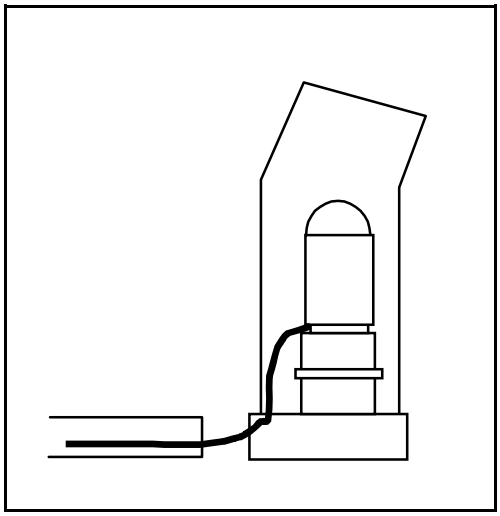


FIG.10A

11.0 LIFT CONNECTION AND LEVELLING

Place the platforms about 70 off the ground, shim the two base platforms so that they are perfectly horizontal and level them with precision. Lower the platforms to the ground, check the levelling again using a spirit level and complete the shimming of the base platform where required. Lift the platforms again to about 70 off the ground.
Drill a hole using a bit corresponding to the diameter of the anchor bolt (bit with Ø 14 for at least 100 mm). Attach the base of the lift by inserting the anchor bolts, supplied with the screws, into the holes prepared (1 FIGURE 11).
Then fully tighten using a torque wrench gauged to 7 Kg/m. About every 3 months check that the anchor bolts have not loosened.

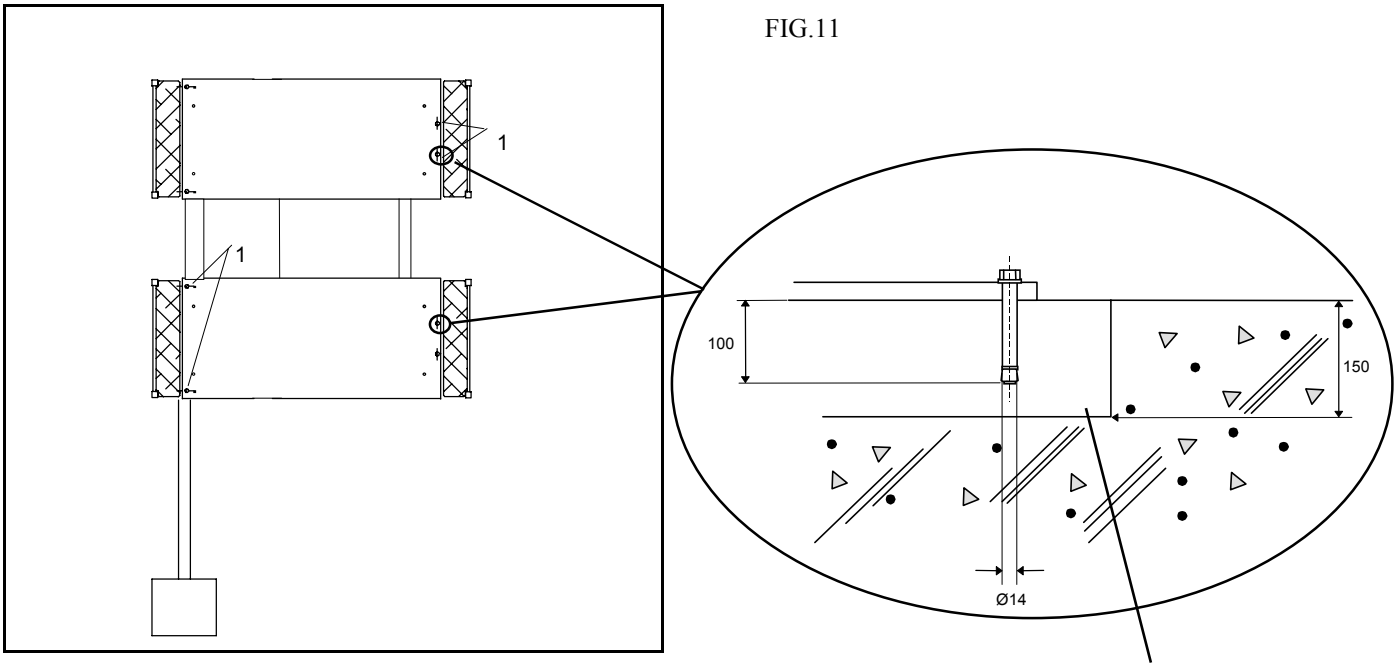


FIG.11

CONCRETE CLASS RBK 250
25 Kg\cm³

12.0 ITEM 552 CONNECTING PIPE LOCATION

Locate the connecting sheath between the bridge platforms and the control unit in a straight line and away from sources of heat. The piping sheath must not to be crossed by means of transport or tools that could damage the piping inside the sheath.

13.0 ITEM 553 CHUTE LOCATION

Locate the two extension positioning keying ramps (1 FIGURE 12) at the two ends of pit FIGURE 12. Use the anchor bolts supplied through the holes provided. Make a lowering stroke to check that the upper platform extensions come into correct contact with the ramps (1 FIGURE 12).

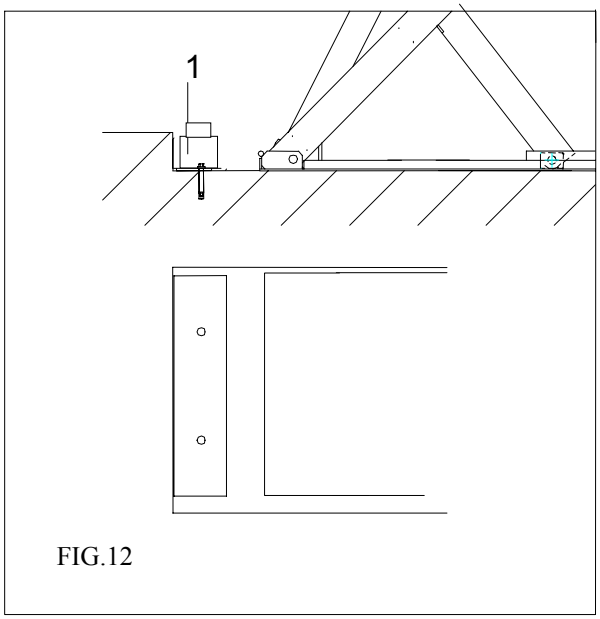


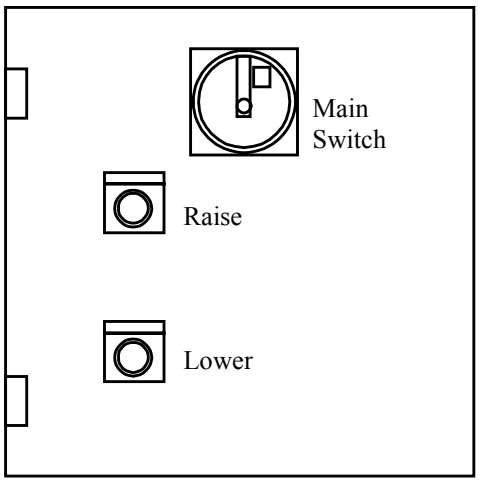
FIG.12

14.0 DRIVERS

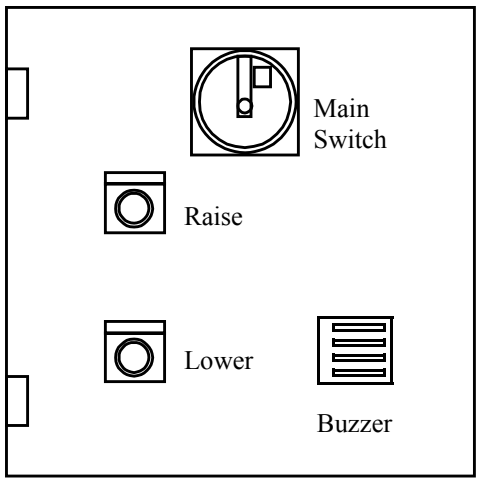
RAISING:
Turn the main switch to position 1.
Press the *Raise* button. Release the button when the lift reaches the max. limit switch (mechanical beat) without continuing to press it.
N.B.: Before starting to lift the vehicle the platforms must perform an unladen stroke as shown in load distribution diagram FIGURE 1A, therefore pads of adequate height should be used for lifting.

LOWERING Item 552:
On keeping the *Lower* button pressed, the lift performs a short upward stroke and then starts to descend. To bring the lift to the home position keep the button pressed until both platforms are fully resting on the ground.

LOWERING Item.553:
On keeping the *Lower* button pressed, the lift performs a short upward stroke and then stops. Then release the button and press it again to start the descent, which is accompanied by the sound warning (Buzzer) (Figure 13).



DRIVES ITEM 552



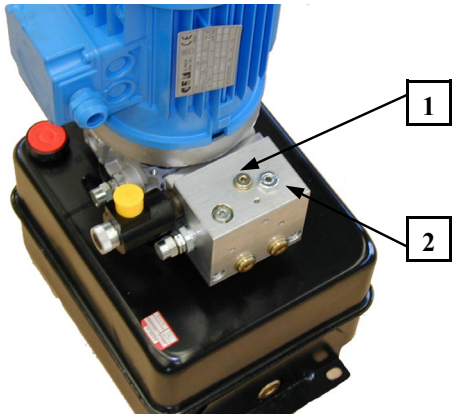
DRIVES ITEM 553

FIG.13

EMERGENCY DESENT:

In case of lack of energy following operations for the manual descent of the lift have to be done:
-Place a thickness under the mechanical stationning flask in order to keep it up and to avoid the hooking
-Unblock the nut (1 TABLE 13A) on the valve block of the oleodynamic control box
-Unscrew lightly the grain (2 TABLE 13A) untill the closing of the lift
-Re-close grain n° 2 and the nut (1 TABLE 13A).

NB: it is very important to keep checked the descent speed of cylinder.



SHEARING HAZARD AREA

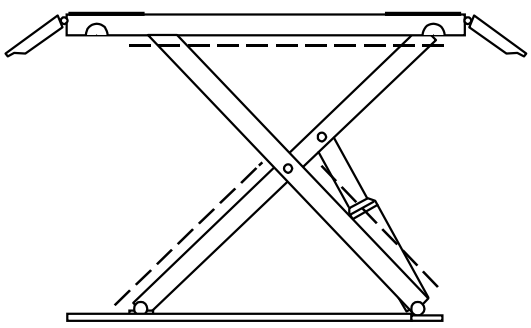
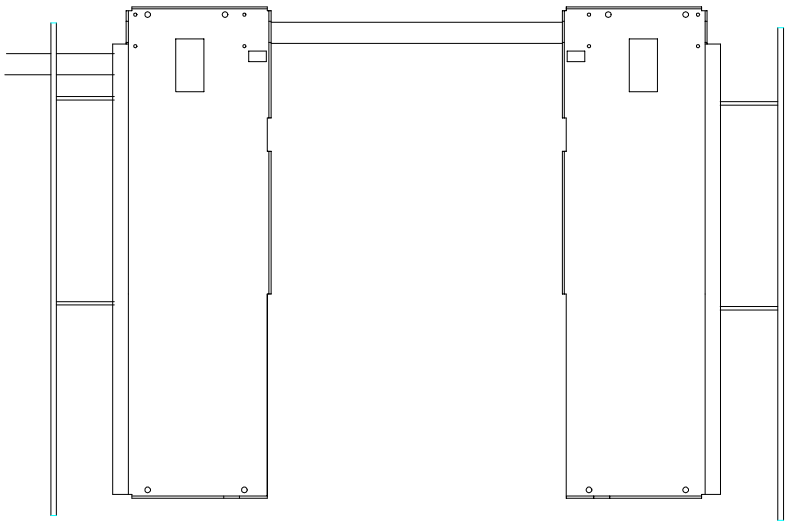


FIG.14

FOR ITEM 552

Assemble the lateral foot protectors on the outer part of the footboards (1 FIGURE 15). Fasten it on to the lift base with the special screws supplied.

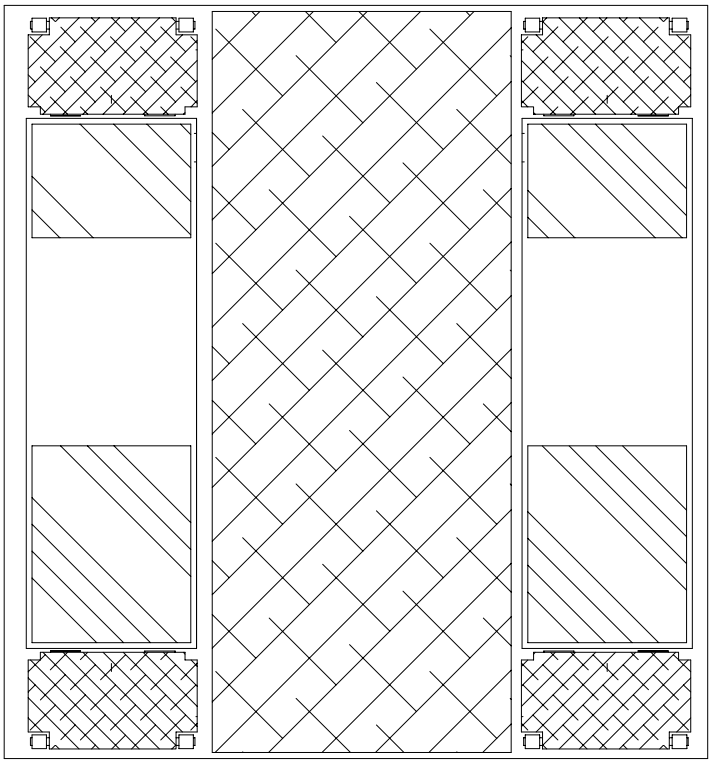
FIG.15



FOR ITEM 553

Place the sheet covering of the bottom pit between the two footboards of the lift (1 FIGURE 16), positioning it in such a way that it mates correctly with the internal lift structure.

FIG.16



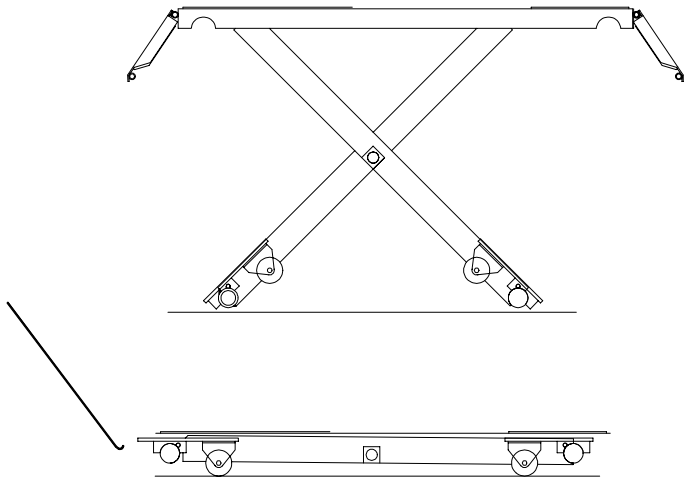
14.1 USING WHEELS (ITEM L552)

For item 552 the lift can be moved when it is unloaded using the special wheels.

1) Raise the lift about 50 cm from the ground.
2) Place the wheels on the special attachments of the two footboard connecting pipes as shown (in pos. 1 FIGURE 17)
3) Assemble the two fixed wheels on the same side and the rotating wheel on the other side.
4) Lower the lift completely so as to raise it from the ground and to keep the wheels supported.
5) Place the control unit on one of the two lift footboards on the wheel side.
6) Insert the special rod in the hole of the rotating wheel support (2 FIGURE 17).

LIFT SHOULD ALWAYS BE MOVED CAREFULLY AND ONLY IF THE FLOOR IS SMOOTH, EVEN AND WITHOUT HOLES.
THE LIFT MUST BE POSITIONED IN A PLACE WITH THE CHARACTERISTICS DESCRIBED IN CHAP. 6 OF THIS MANUAL (INSTALLATION AREA).

FIG.17



15.0 ROUTINE MAINTENANCE

WARNING

The operations described in this paragraph are only ones that can be carried out by the operator or by authorised persons. The operations not included in this paragraph are to be considered as unscheduled and must be performed by the manufacturer or skilled personnel.

To ensure that the machine operates efficiantly and correctly, the operator must follow the instructions listed below, cleaning the machine and carrying out routine maintenance every 1000 hours of operation.

WARNING

The cleaning and routine maintenance operations must be carried out by authorised personnel in accordance with the instructions described below.
All the cleaning and maintenance operations must be carried out under maximum safety conditions. Therefore, before starting, turn the main switch to position "0" and attach a padlock. Position two spacers at the base of the lift between the runners of shoulder 1 (FIGURE 18A) and the end of the base (FIGURE 18A) so the list is mechanically stable.

- Change the oil in the control unit reservoir every approximately 1000 hours of service. Use "AGIP ACER 46" hydraulic oil or an equivalent product. This operation must be carried out with the platforms completely lowered. To change the oil, use a suction pump to remove oil from the filler plug (FIGURE 18) and add about 8 litres of clean oil through the same plug.
- After completing 2 or 3 up and down unladen cycles, check the oil level in the reservoir (S FIGURE 18).
- The sliding rollers on the platforms and the guides on the rollers of the lift mobile shoulders must always be greased.
- Clean solenoid valve (L FIGURE 18). After having removed it from its socket, clean it using petrol and compressed air, handling it with care and paying great attention that it is not damaged during fitting and removal.
- After 2 or 3 oil changes it may be necessary to replace the suction filter. To do this, disassemble the hydraulic unit (GI FIGURE 18) from the reservoir (D FIGURE 18) of the hydraulic oil control unit. The filter mounted on the pump suction pipe can then be replaced.
- The descent speed adjustment valve is located underneath the solenoid valve L2 (V FIGURE 18). The descent speed adjustment valve must also be cleaned on a periodic basis using compressed air and gasoline, being careful to avoid any damage while it is being removed.

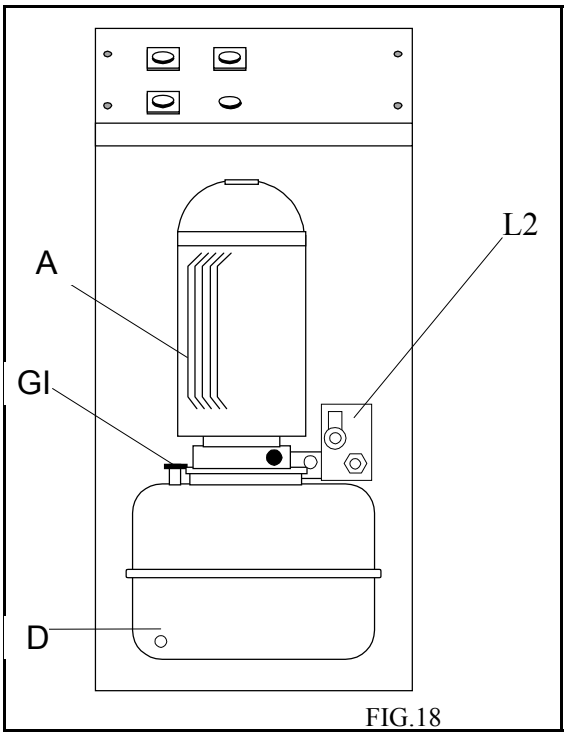


FIG.18

16.0 TROUBLESHOOTING TABLE

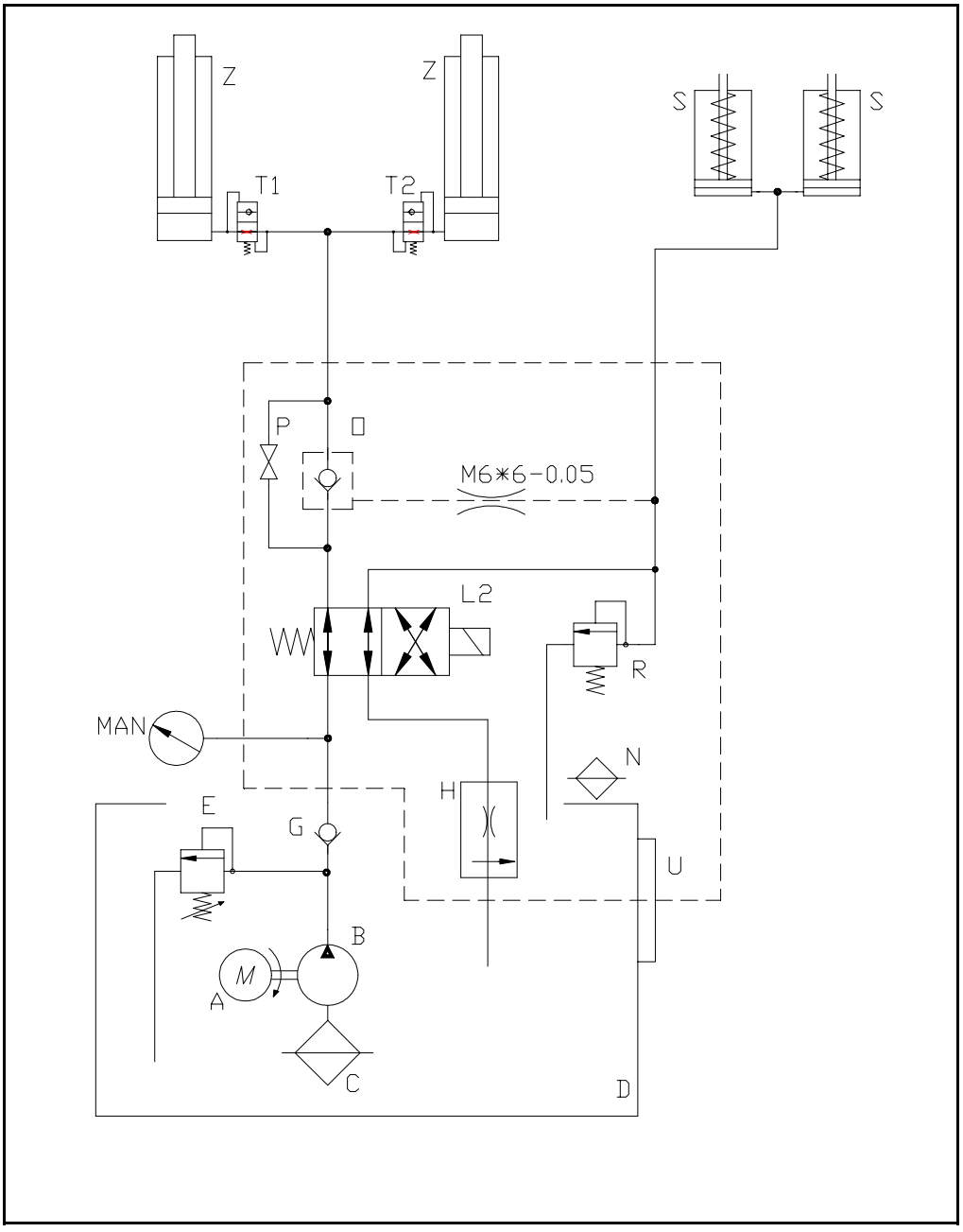
PROBLEMS	POSSIBLE CAUSES	SOLUTIONS
No operation though the line LED is on.	1 Burned transformer protection fuses or line fuses. 2 Electric system malfunction.	3 Replace the damaged fuses. If the replacement burns again, contact the technical service department of your authorised dealer. 4 Have a professionally qualified technician check the operations of the various parts.
The lift only goes up and not down.	1 Malfunction in the descent solenoid valve	2 Check coil excitation by pressing the button, tighten the brass knob for manual activation, and replace the solenoid valve.
The lift cannot left the rated capacity	1 Malfunction in the max. pressure valve. 2 Partially open descent solenoid valve. 3 Worn or inefficient pump.	1 Remove the maximum pressure valve, clean it with compressed air and gasoline, check the spring condition. 2 Completely unscrew the brass by-pass screw on the descent solenoid valve. 3 Replace the pump inside the control unit
The lift descends very slowly.	1 Dirty or damaged descent speed control valve.	2 Clean the valve with compressed air or gasoline
The lift does not descend	1 Descent solenoid valves on the cylinders are not operating. 2 Mechanical stops cut in 3 Valve L1 inside the control unit not operating.	1 Check the voltage and operation of the solenoid valves on the bottom of the cylinders. 2 Briefly press the raise button and then the lower one. Check that the mechanical stop brackets disengage. 3 Open the door of the cabinet, and check the valve voltage and operation.
The lift stops during descent.	1 Mechanical safety brackets tripped	2 Check that when the lower button is pressed the mechanical brackets disengage and stay properly raised for the stroke of the lift.

17.0 USE

- The lift must only be used by authorised personnel. Remember that any use by persons who are not familiar with the procedures outlined in this manual might lead to dangerous situations.
- The lift utilises a “Man Present” operating system. The commands for the various movements are immediately cut off when the control device is released (buttons).
- Work under the raised vehicle only after turning the main switch to position “0” and padlocking the switch.
- For any assistance, contact the authorised service centres and request original spare parts.
- The spare parts list is attached to this instruction booklet.
- Before starting to lift the vehicle, the platforms must complete an unladen cycle as indicated in the load diagram (FIGURE 1A). Therefore, use pads with an adequate height for lifting.
- Following assembly perform an electrical continuity test on the unipotential protection circuit by opening the panel and connecting to terminal “PE”.

WARNING	**Only professionally qualified personnel should carry out rotine maintenance operations and make repairs.**	WARNING

18.0 HYDRAULIC DIAGRAM
FIG.19



A MOTOR
B PUMP 5,9 CC\g
C FILTER
D TANK 10 Lt
E VALVE WITH MAX. 280 BARS
G CHECK VALVE
H DESCENT ADJUSTMENT STF14
L2 SOLENOID VALVE V4D-CEI-2P
N INLET PLUG
P EMERGENCY SCREW
O PILOTED CHECK
R VALVE WITH MAX. 120 BARS
S SAFETY CYLINDERS
U OIL LEVEL
Z CYLINDERS
MAN= MAMOMETER (OPTIONAL)
T1 = PARACHUTE VALVE

19.0 WIRING DIAGRAM ITEM 552

QM1 = MAIN SWITCH
SM1 = THERMAL REMOTE CONTROL SWITCH
CP = MOTOR RELAY
TR = TRANSFORMER
F1-F3 = PRIMARY FUSE
F2 = SECONDARY FUSE
R = RELAY
SAL = RAISE BUTTON
DES = DESCENT BUTTON
TRL1 = TIMER
RI= RELAY
L2 = LOWER SOLENOID VALVE
BU = WARNING SOUND
TRD = DESCENT TIMER

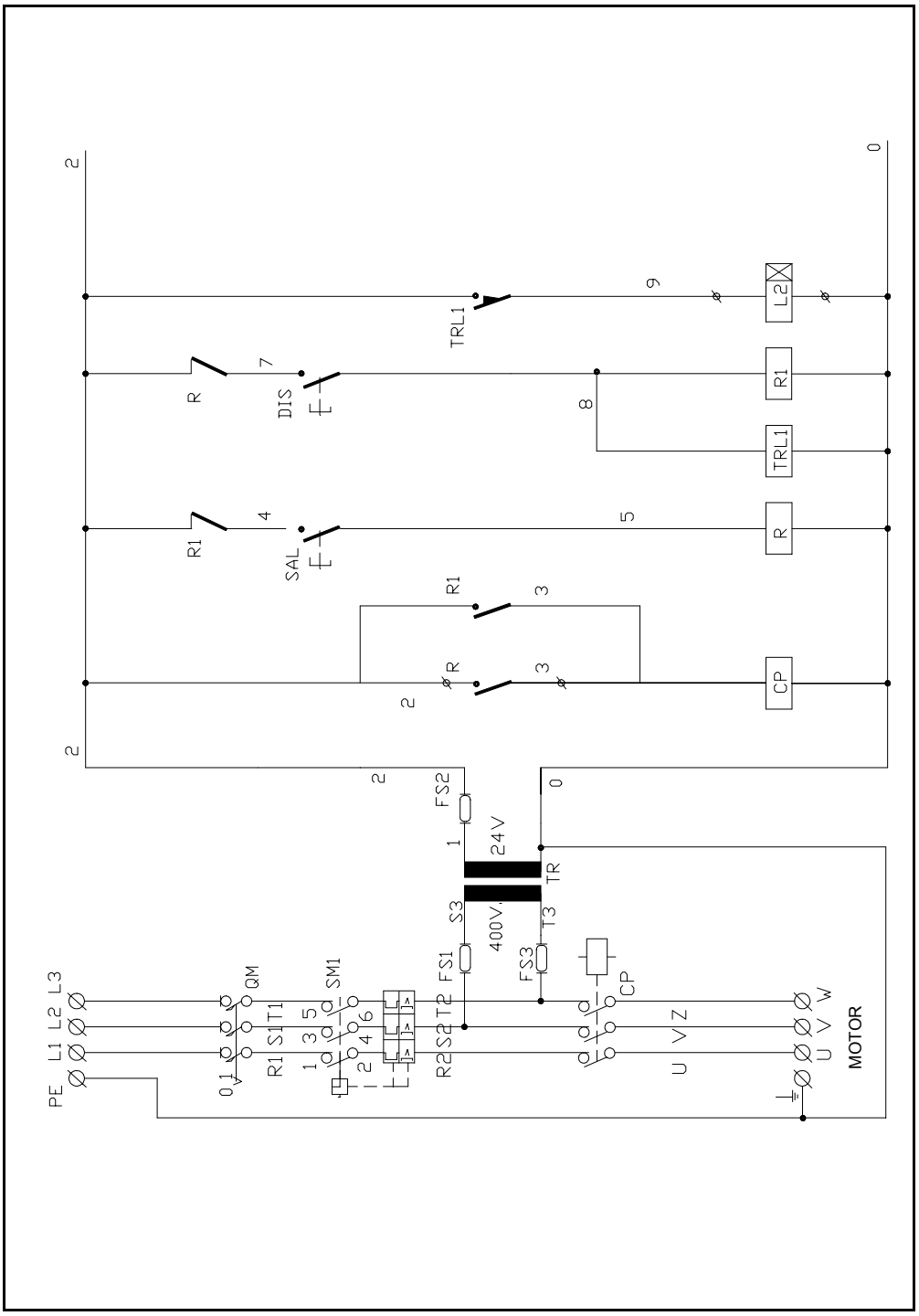


FIG.20

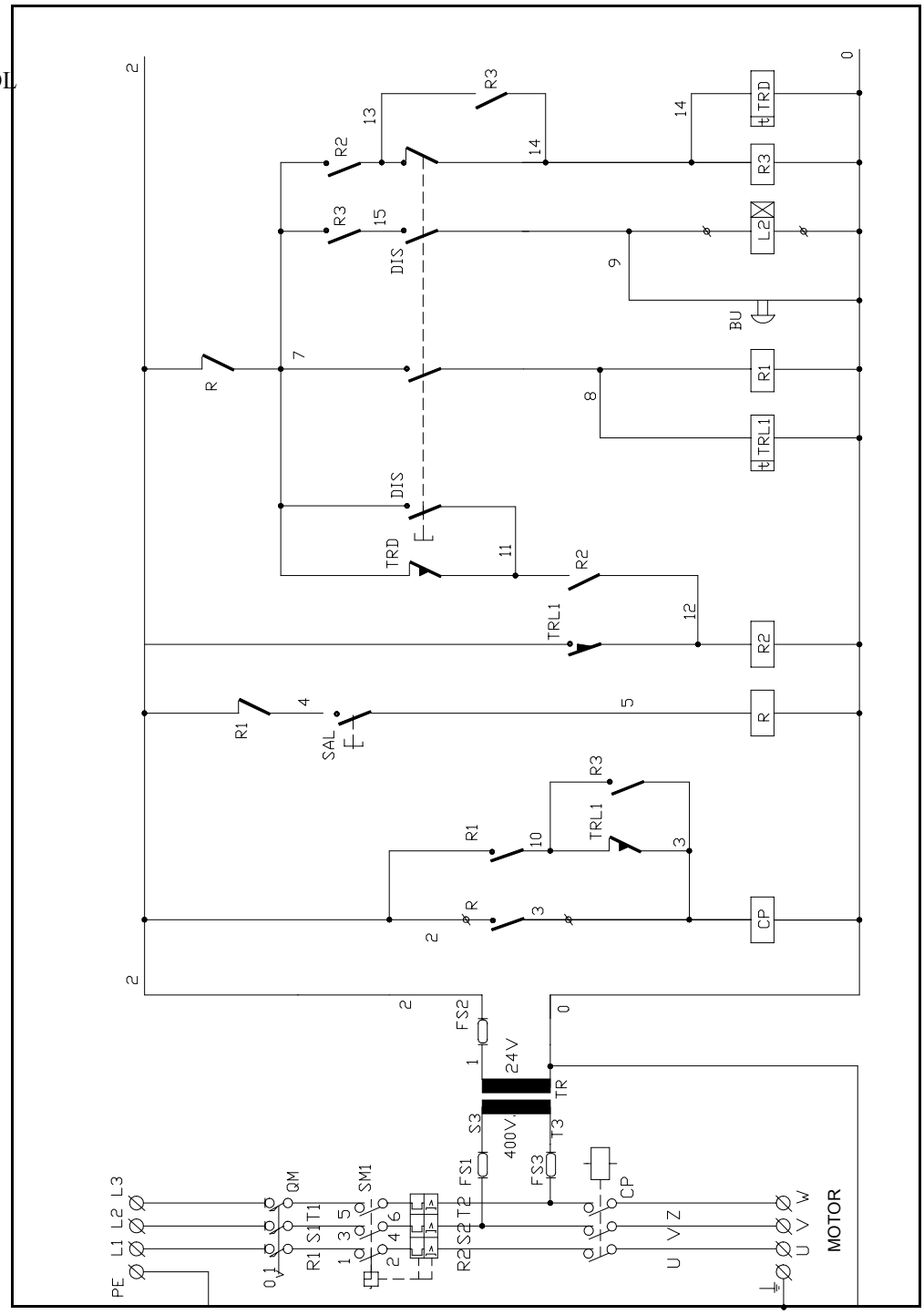
WARNING

Work performed on the electric system, including any light repairs, must be carried out by professionally qualified personnel

19.1 WIRING DIAGRAM ART.553

QM1 = MAIN SWITCH
SM1 = THERMAL REMOTE CONTROL SWITCH
CP = MOTOR RELAY
TR = TRANSFORMER
F1-F3 = PRIMARY FUSE
F2 = SECONDARY FUSE
R = RELAY
SAL = RAISE BUTTON
DES = DESCENT BUTTON
TRL1 = TIMER
RI-R2-R3 = RELAY
L2 = LOWER SOLENOID VALVE
BU = SOUND WARNING
TRD = DESCENT TIMER

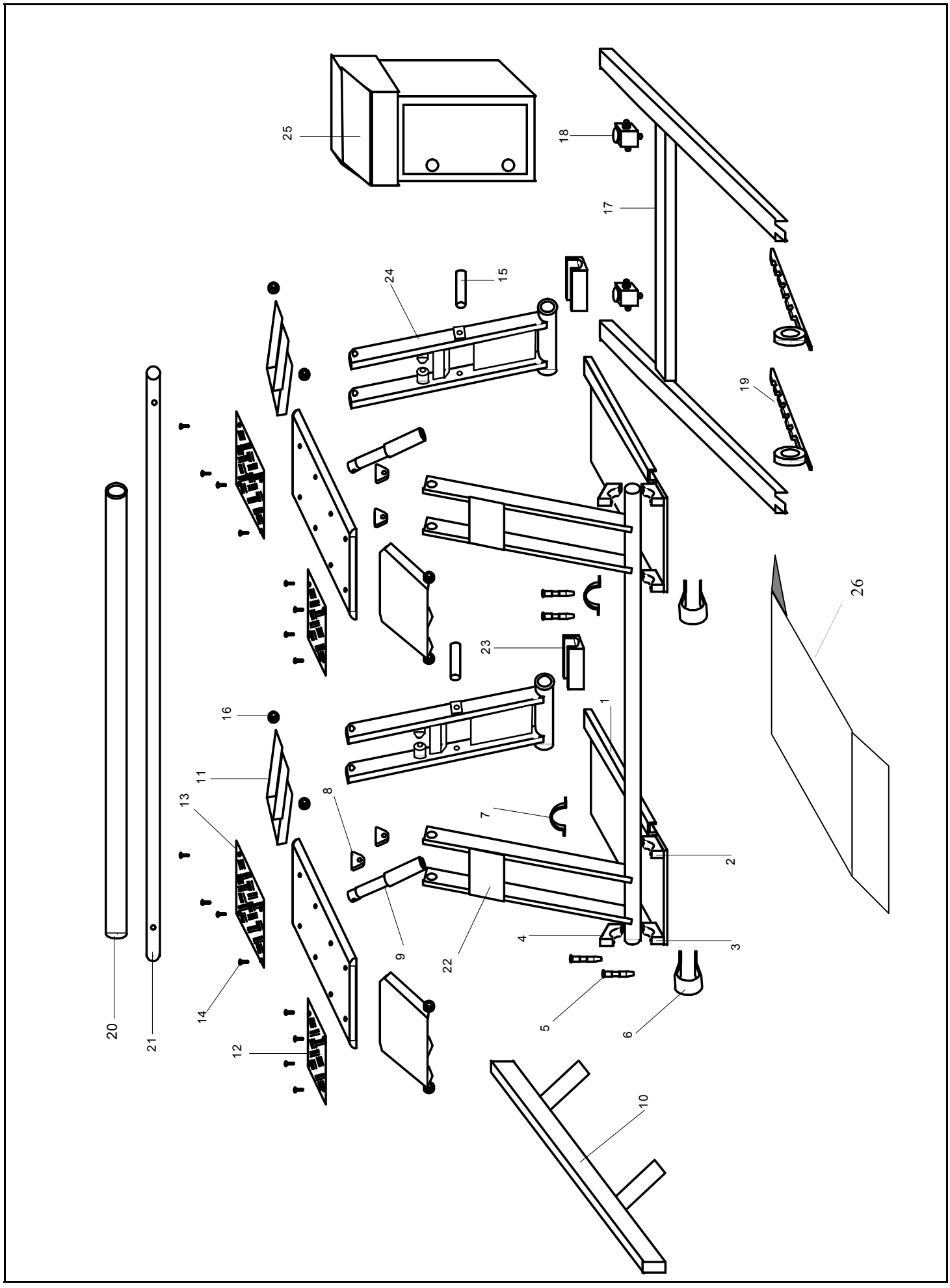
FIG.21



WARNING

Work performed on the electric system, including any light repairs, must be carried out by professionally qualified personnel

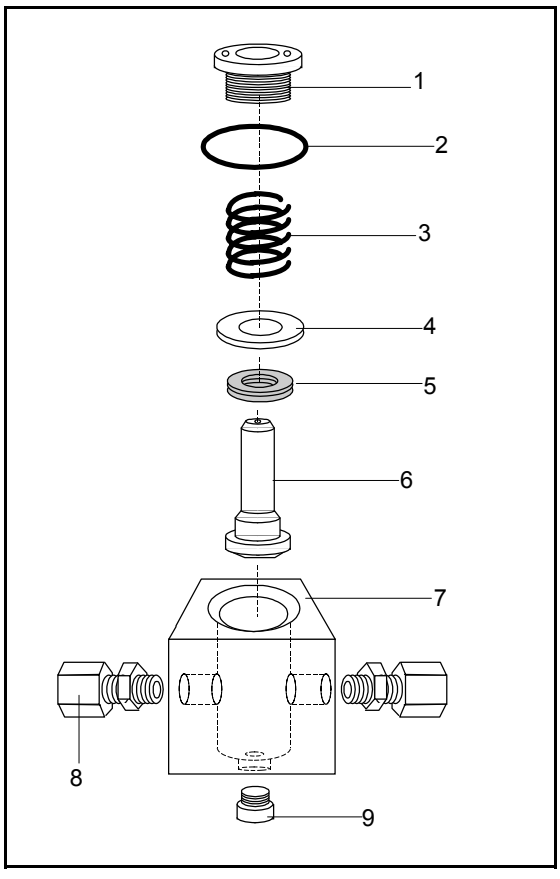
20.0 EXPLODED DIAGRAM



20.1 PARTS LIST EXPLODED DIAGRAM

01 Base
02 Central Nylon support
03 Lower outer Nylon support
04 Upper outer Nylon support
05 Pin
06 Bar anchorage
07 Omega bar closing
08 Nylon blocks
09 Piston
10 Foot-guard
11 Chute
12 Small aluminium plate
13 Large aluminium plate
14 Screw
15 Central shoulder pin
16 Nylon roller
17 Cross-member
18 Cross-member piston
19 Stop ratchet teeth
20 Central pipe
21 Central pin
22 Outer shoulder
23 Nylon block
24 Outer shoulder
25 Control unit
26 Sheet covering

20.2 PISTON EXPLODED DIAGRAM



20.3 PISTON PARTS EXPLODED DIAGRAM

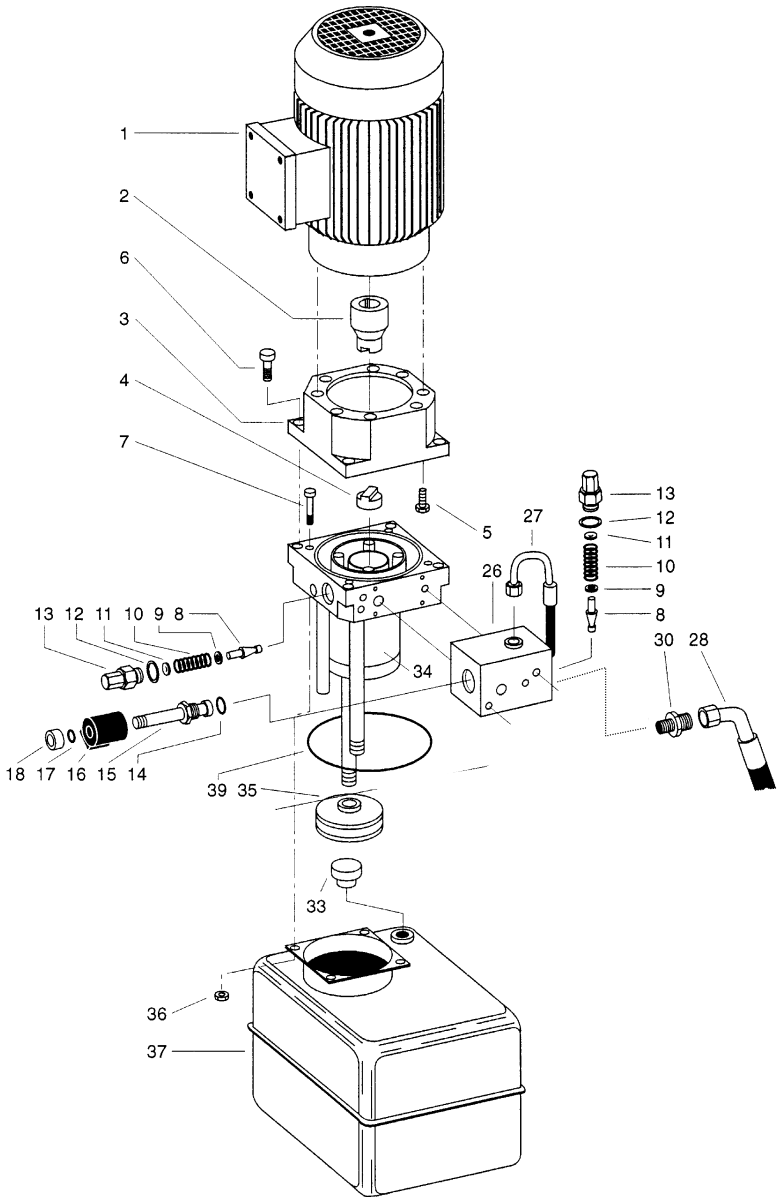
01 Plug
02 O-ring
03 Spring
04 Washer
05 Double lip gasket
06 Piston rod
07 Piston body
08 Union
09 Plug

Only professionally qualified personnel should carry out anscheduled maintenance operations and make repairs.

WARNING

WARNING

21.0 HYDRAULIC PUMP EXPLODED DIAGRAM



1 MOTOR
2 MOTOR COUPLING
3 HOUSING
4 PUMP COUPLING
5 MOTOR SCREW
6 HOUSING SCREW
7 SCREW
8 CURSOR
9 WASHER
10 SPRING
11 SPRING GUIDE
12 WASHER
13 NUT
14 O-RING
15 VALVE
16 COIL
17 O-RING
18 LOCK RING
26 VALVE 1 BODY
27 FLEXIBLE PIPE
28 SAFETY PIPE
30 NIPPLE
33 FILLER PLUG
34 PUMP
35 SUCTION FILTER
36 NUT
37 TANK
38 SCREW
39 O-RING
40 DESCENT VALVE

22.0 EXTENDED STORAGE

If the machine will not used for an extensive period, disconnect all supply sources, empty the reservoir(s) containing the operating fluids and protect all those parts which might be damaged by dust deposits (Roller, roller guides).

Grease the parts that might be damaged if they should dry, such as hoses.

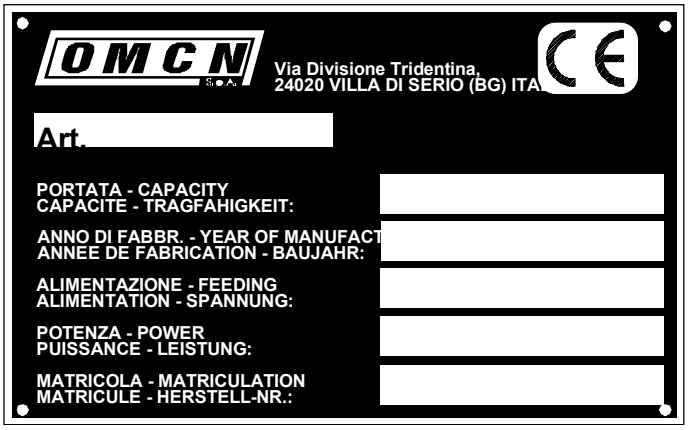
When the machine is re-started, check for any cracks or cuts in hydraulic oil hoses.

Check the operation of all operating and safety limit switches.

23.0 SCRAPPING

If this device will no longer be used, it should be made inoperative, removing the hydraulic oil contained in the reservoir and in the drive cylinder.
If the lift is abandoned and eliminated, it must be treated as a special waste and must be dismantled into its homogeneous parts. Such parts must then be disposed according to the local current laws.

24.0 STANDARD IDENTIFICATION PLATE



ITEM 552
EC CERTIFICATION N°
M 243\99

ITEM 552
EC CERTIFICATION N°
M 244\99

25.0 TESTS

This lift was assembled and started by the manufacturer in the factory. The components listed below concerning safety devices and moving parts were tested.

The following tests were performed on the lift:

DYNAMIC TEST: with 115% of the nominal load.
STATIC TEST: with 150% of the nominal load.

1 Sliding check on moving parts (complete up and down cycle).
2 Descent speed check.
3 Operating safety test.
4 Extension sliding check.
5 Check and calibration of the hydraulic control unit max. pressure valves.
6 Check of correct operation of mechanical stopping.

INSTALLATION REPORT

(To be completed by the installer)

CONTROL OPERATION

ITEM.....

CHECK ON ELECTRIC CONTROLS: A MAIN SWITCH B VOLTAGE LED C UP BUTTON D DOWN BUTTON	
POSITIONING CHECK FOOT-GUARD ROD (552 ONLY)	
TIGHTNESS CHECK OF LIFT BASE ANCHOR BOLTS	
HYDRAULIC OIL CONTROL UNIT RESERVOIR OIL LEVEL CHECK	
CHECK OF EXACT LOCATION OF IDENTIFICATION PLATES, LABELS AND FOOT GUARD PROTECTION DEVICES (IN CONFORMITY WITH THE INSTRUCTION MANUAL)	
OPERATING CHECK MECHANICAL SAFETY DEVICES	

NOTES:

Installer signature

Installation date

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