

**Art. 1120/E**  
**Art. 1120/F**  
**Art. 1120/G**

INSTRUCTIONS FOR USE,  
MAINTENANCE AND SPARE PARTS

Before use, place on the lift the adhesive labels enclosed with this handbook, as shown in the diagram below.

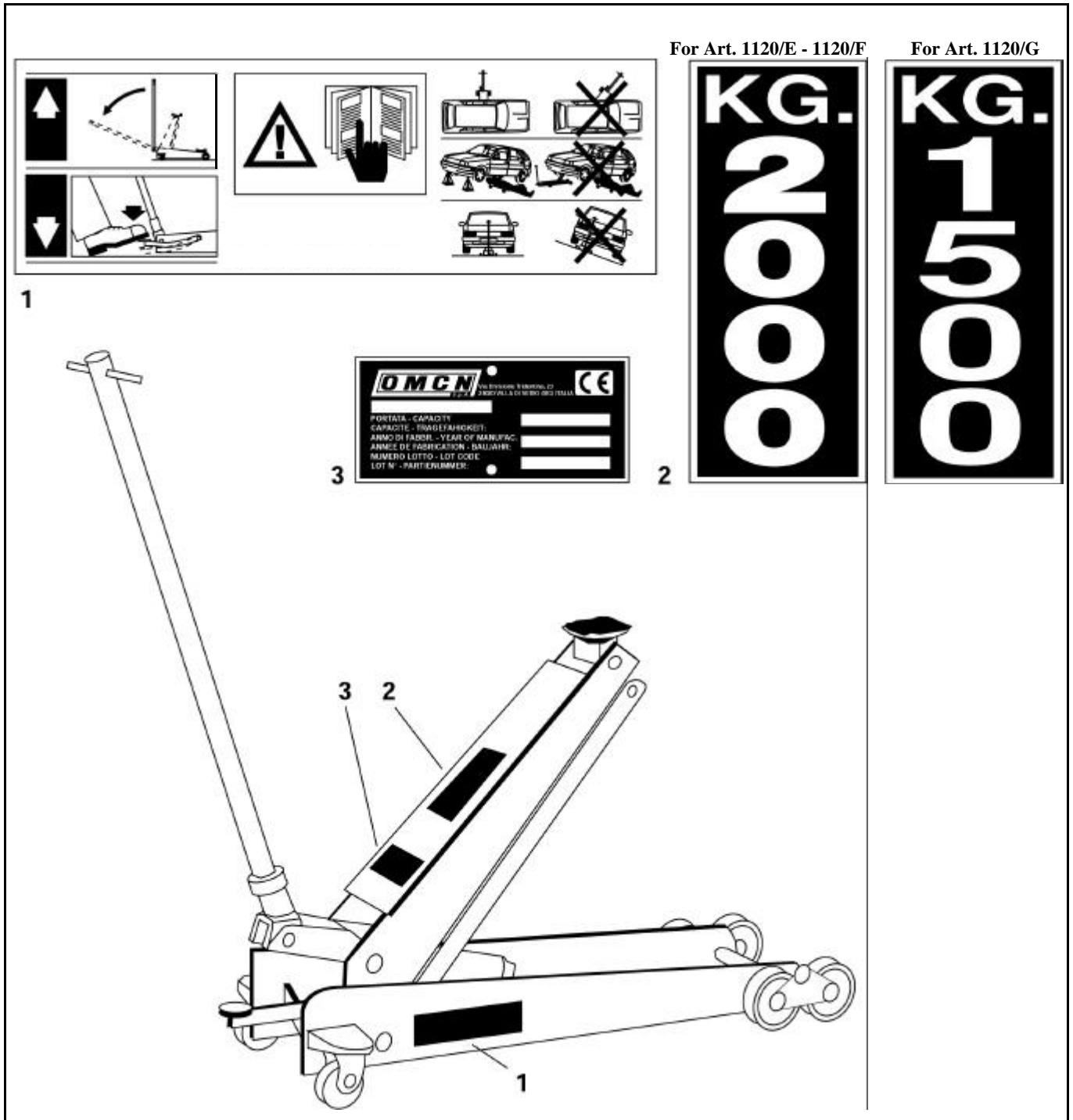


WARNING

**FAILURE IN PLACING THE PLATES VOIDS THE WARRANTY AND RELIEVES THE MANUFACTURER OF RESPONSIBILITY FOR DAMAGE CAUSED BY USE OF THE LIFT.**

If one or more lift labels are damaged, missing or illegible, ask for a replacement by mentioning the relevant position number.

Place the new label in the position shown in the figure below.



Pay attention to the following **hazard** signals when reading the manual:



**DANGER**



**WARNING**



**CAUTION**

This signal indicates the presence of more or less hazardous conditions or situations. The **HAZARD** signs are divided into three levels.



**DANGER**

**Lack of compliance with this signal causes serious health risks: death or permanent injuries over a medium to long-term period.**



**WARNING**

**Lack of compliance with this signal causes serious health risks: death or permanent injuries over a medium to long-term period.**



**CAUTION**

**Lack of compliance with this signal causes personal injuries or damage to the machine.**

#### **TERMINOLOGY AND DEFINITIONS (Annex 1, directive 98/37/EC)**

- **"Operator"**: the person(s) responsible for installing, operating, tuning, servicing, cleaning, repairing or transporting the lift.
- **"Personal risk"**: anyone found entirely or partly in the hazardous area.
- **"Area that is hazardous or at risk"**: any area inside and/or near the machine where the presence of a person at risk endangers his/her safety and health.
- **"Specialized technician"**: person appointed by the manufacturer to carry out special maintenance operations requiring training and specific skills in mechanics, electrical engineering, electronics, oil hydraulics and pneumatics. The specialized technician is acquainted with all the possible hazards on the machine and the necessary procedures in order to avoid injury to himself or others during these maintenance operations.
- **"User"**: anyone who purchases or uses the machine (e.g. for renting, leasing or under loan) in accordance with the manufacturer's instructions.

# Instruction manual

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This handbook contains all the necessary information on how to safely use, clean, lubricate and service hydraulic truck-mounted lifts manufactured by:

## 1.0 INTRODUCTION

**OMCN S.p.A. Via Divisione Tridentina 23, 24020 Villa di Serio (BG) Italy.**

Carefully read the warnings and instructions found in this handbook as they provide important information on **SAFE USE and MAINTENANCE**.

This handbook is an integral part of the product, so keep it in a safe place for future reference for the entire product life.

If it gets lost or damaged, ask for a copy from:

**OMCN S.p.A. Via Divisione Tridentina 23, 24020 Villa di Serio (BG) Italy.**



**WARNING**

**OMCN S.p.A. CANNOT BE HELD RESPONSIBLE FOR DIRECT OR INDIRECT INJURY OR DAMAGE TO PERSONS, ANIMALS OR THINGS CAUSED BY THE FAILURE TO OBSERVE THE INSTRUCTIONS CONTAINED IN THIS HANDBOOK.**

The truck-mounted lift is an implement designed to be used for lifting four-wheeled vehicles up to the maximum weight specified on the manufacturer's plate and in the models table (FIG. 2).

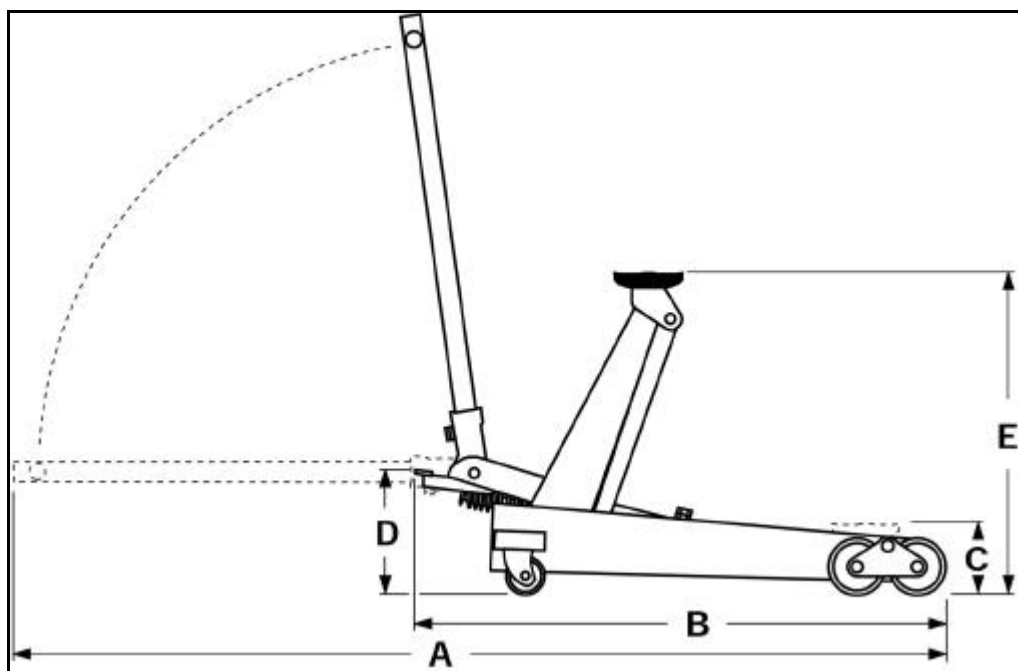
## 2.0 SPECIFIC USE

The lift has to partially lift the vehicle, so that only two of the vehicle's wheels are suspended.



**WARNING**

Uses not explicitly indicated in this handbook are considered improper and therefore strictly forbidden. The manufacturer cannot be held liable for direct or indirect damage or injury to persons, animals or things caused by incorrect use of the lift.



## 2.1 Diagram of the product, model dimensions FIG. 1

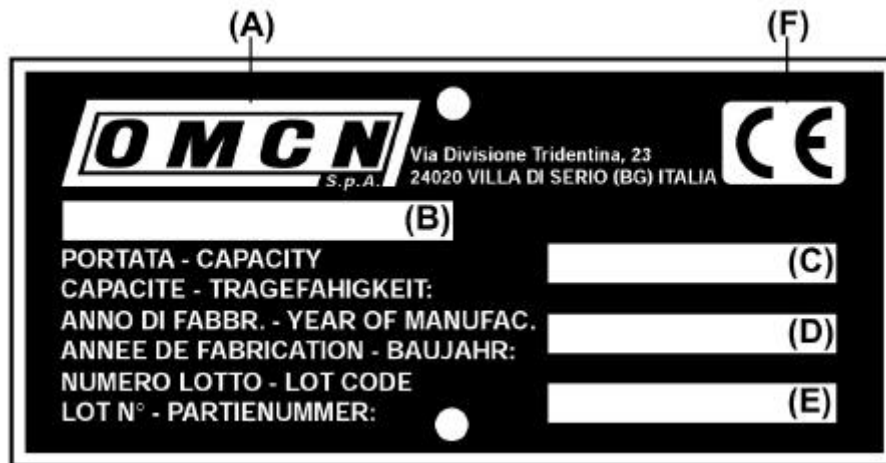
## 2.2 Dimensions table FIG. 2

Art.	Plate capacity [TON]	Max. width [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
1120/E	2	530	1800	1030	130	200	810
1120/F	2	530	1520	740	140	180	520
1120/G	1,5	570	2530	1750	130	200	850

**N.B.:** The features and data found in the table are indicative; the manufacturer reserves the right to make modifications without notice, taking into consideration the safety devices.

## 2.3

### Machine identification



Every lift has a manufacturer's nameplate (pos. 3 Figure PAGE 2) showing the following information:

- A) General information, manufacturer's complete address.
- B) Lift model.
- C) Lifting capacity.
- D) Year of manufacture.
- E) Manufacturing lot number.
- F) EC Marking.

## 2.4

### EC certification

The lift has been designed and built according to the provisions in directive 98/37/EC (machinery directive).

Before putting the machine on the market, the manufacturer has compiled the technical documents in annex V, ascertaining the machine's compliance with the fundamental safety and health precautions contained in annex I of directive 98/37/EC.

To ensure that the machine conforms with the fundamental safety precautions, the manufacturer has referred to and observed the following regulations:

STANDARD	YEAR	TITLE
EN 292-1	1992	MACHINE SAFETY: Fundamental concepts, general design principles- Terminology, basic technique
EN 292-2	1992	MACHINE SAFETY: Fundamental concepts, general design principals – Specifications and technical principles
EN 294	1992	MACHINE SAFETY: Safety distances to prevent access of upper limbs to hazardous areas
EN 349	1993	MACHINE SAFETY: Minimum distances to prevent crushing of body parts
EN 414	1993	MACHINE SAFETY: Design regulations and presentation of safety precautions
EN 982	1996	MACHINE SAFETY: Safety requirements for the fluidic energy system and for its hydraulic components - Oleodinamica
EN 1050	1997	MACHINE SAFETY: Risk evaluation principles
EN 10025	1995	Hot-rolled unalloyed steel products for structural uses – Supply conditions.

Having met the specifications provided by the above-mentioned regulations, the manufacturer has launched the lift on the EU market, along with:

- Instruction manual.
- EC marking.
- EC compliance statement.



**STRICTLY OBSERVE THE GENERAL SAFETY AND ACCIDENT-PREVENTION REGULATIONS LISTED BELOW.**

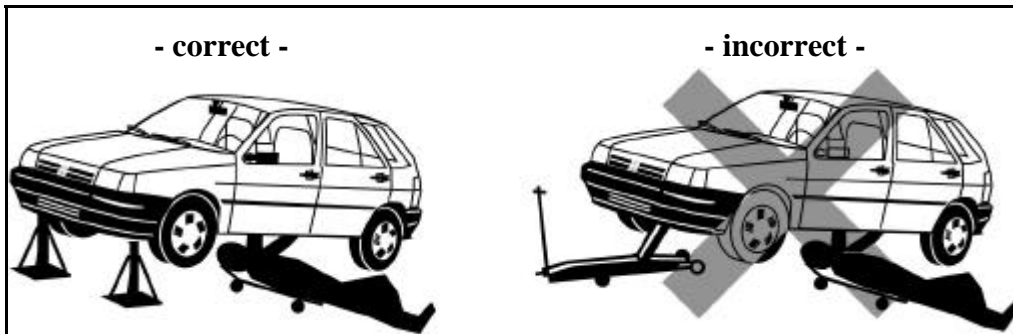
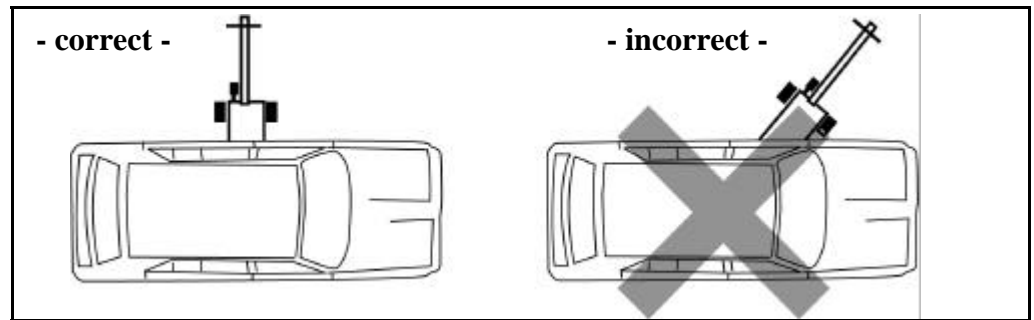


FIG. 3

- After lifting the vehicle with the jack, support it on the fixed stands before getting underneath the vehicle (FIG. 3).
- Check that there are no foreign bodies in the area where the vehicle is lifted during operating movement
- For the lifting operations, do not put shims between the vehicle and the lift's plate.
- Place the lift under the load so that the plate begins to take the load once the arm carrying plate has risen by at least 100 mm.
- **The machine may only be used** by responsible staff in good health who have been specially trained to use the lift and are acquainted with all the risks involved.
- **The lift may only be used** by operators who have completely read, understood and taken in all the information given in this handbook.
- **It is compulsory** to check that there are no persons at risk near the hazardous areas before starting the machine.
- **It is forbidden** to remove or tamper with any of the safety devices fitted on the machine.
- **It is compulsory** to check that the installed safety devices are in perfect working order before operating the lift: **it is forbidden** to use the lift if they are faulty.
- **It is compulsory** to check that there are no hazardous conditions for persons at risk during operation. If there are, stop the lift immediately and keep people away.
- In the event of irregular or anomalous sounds, it is compulsory to stop all operations immediately and find the cause of the anomaly. If in doubt, avoid any improper operations and contact the manufacturer's technical service centre (OMCN).
- Any tampering or modification to the lift results in the immediate loss of warranty and relieves the manufacturer of responsibility for direct or indirect resulting damage.
- During loading, unloading and installation, **it is compulsory** to use lifting and handling equipment with adequate capacity for the weight of the lift, using lifting accessories and devices (nylon belts, etc.) that are suitable and in perfect condition for the purpose.
- **We recommend** using only original OMCN spare parts for maintenance operations. The manufacturer cannot be held liable for damage caused by the use of non-original accessories. The use of unoriginal parts automatically voids the guarantee.

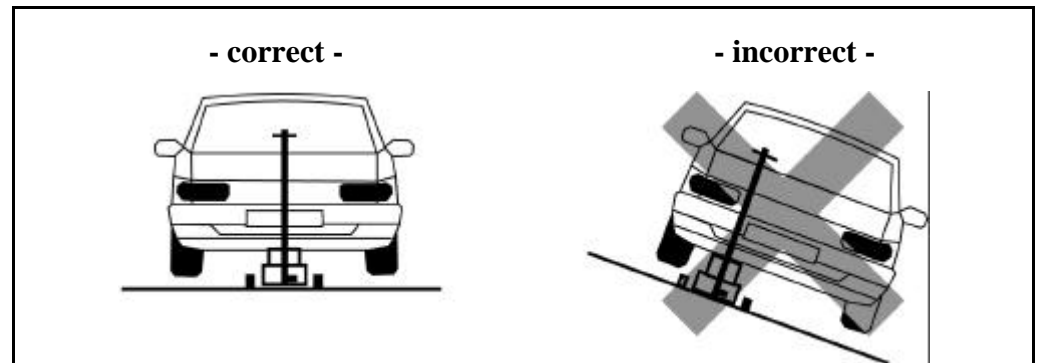
- Position the lift's plate at the lifting points specially provided on the vehicle. Position the jack perpendicular to the vehicle to be lifted (FIG. 4).

**FIG. 4**



- Check that the ground supporting the lift is flat enough not to impair safety during use, therefore avoid using it on slopes (FIG. 5).

**FIG. 5**



- Before proceeding to lift the vehicle, make sure that the wheels not to be lifted are locked and cannot turn or move.

### **3.1 Clothing**

To operate the lift in safe conditions, wear appropriate clothing for the machine and working environment:

- Do not wear long or flapping clothes, ties, scarves or similar garments that could get caught up in the lift's moving parts.
- Keep long hair out of the way and sleeve ends tight; avoid wearing watches, rings, necklaces or other objects that may cause injury.
- Use suitable gloves and protective footwear. If the noise level in the working environment reaches 85 dB (A), wear earmuffs or other hearing protection devices.
- In every case, refer to the safety precautions regarding working environments of the country where the machine is operated.

The truck-mounted lift is packed with the disassembled maneuvering rod in horizontal position of the truck and packed with the same protective Pluri-boll (bubble wrap) – Cardboard (FIG. 6).

The packed crane must be transported taking the usual precautions required for moving heavy and projecting parts. For heavy trucks, a fork-lift truck or hoisting device should be used for suspending or moving the package.

Should a truck be used on top of another, never exceed a load greater than 5 trucks.



CAUTION

**FIX THE LIFT SECURELY FOR TRANSPORT IN ORDER TO PREVENT IT FROM SHIFTING ON THE LOADING PLATFORM OF THE VEHICLE OR MEANS OF TRANSPORT .**

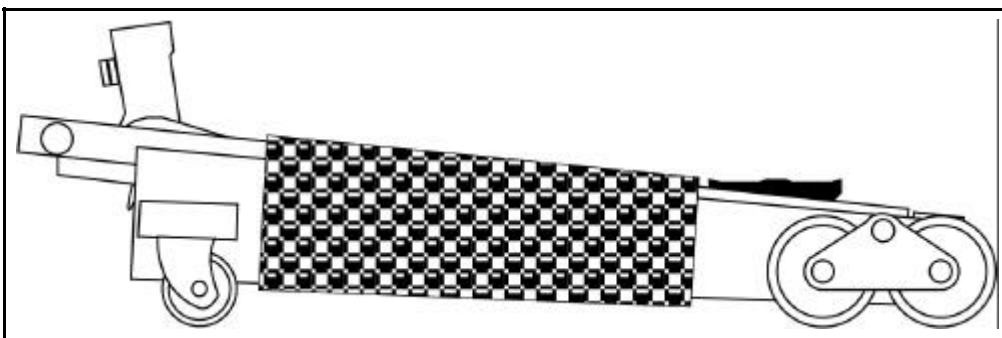


FIG. 6

Art.	Weight [kg]
1120/E	65
1120/F	45
1120/G	85

- After unpacking, check that the machine and control equipment are perfectly intact and have not been damaged during transport. Notify the manufacturer of any missing parts within 8 days of delivery. If in doubt, do not use the machine and contact the manufacturer.
- Check that the labels are present on the lift as shown on page 2 in this handbook. Should the adhesive labels be provided in a bag along with the lift, position them on the press as shown on page 2 in this handbook.
- **Failure in placing the use and warning labels implies a violation of the European Safety Regulations.**
- The packing elements are potential sources of hazards and must be kept out of reach of children. Dispose of them in special waste collection areas.

## 6.0 MAIN TECHNICAL FEATURES

- Operation by manually starting the pump. The starting strain of the lever is always lower than 400 N.
- Hydraulic limit switch at end of the lifting arm's movement, with mechanical stop at the end of travel.
- Maximum pressure valve works on the pump and checks that the lifting of the load does not exceed the limits authorized by the manufacturer.
- Safety valve holds the lowering speed constant within the limits established by the regulations in force, whatever the lifted weight.
- Check valve keeps the uplifted piece in a stable position and prevents any undesired movement of the load.
- The lift is equipped with a double set of wheels (one each side) in the back. These wheels are balanced by a special fulcrum in order to facilitate the use of the jack on floors made of metal grating.

## 7.0 SETTING THE LIFT AT WORK

After unpacking the machine components, check that they are intact and without any defects. Observe the following instructions in order to set the lift at work.

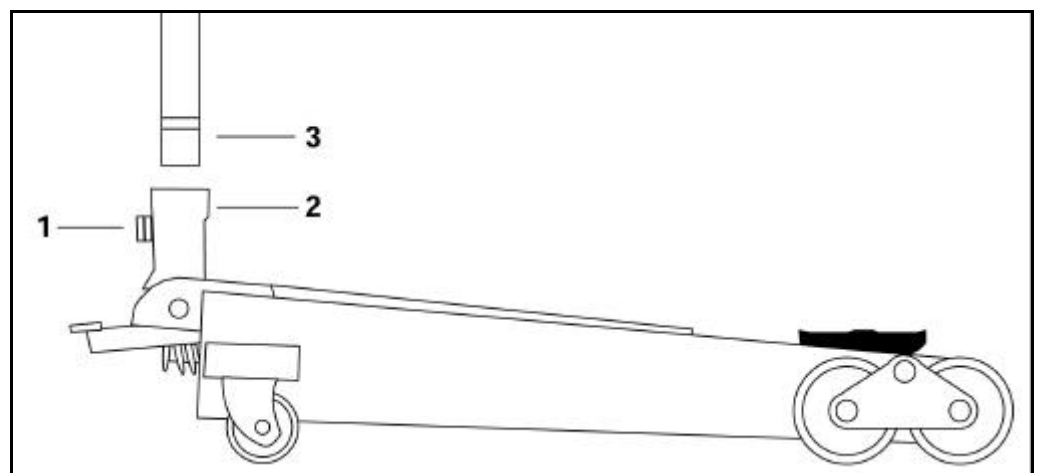
- A) Unscrew the fastening screw (1 FIG. 7) found on the lift's rod support bushing (2 FIG. 7).
- B) Attach the moving rod in the bushing found on the back of the lift.
- C) Push the rod (3 FIG. 7) until it reaches the mechanical end of stroke.
- D) Tighten the screw that was previously unscrewed (1 FIG. 7).



WARNING

**The manufacturer cannot be held liable for any damage caused by the failure to follow the above instructions. Lack of compliance voids the guarantee.**

FIG. 7



It is forbidden to work beneath a lifted vehicle unless security is ensured by placing the support stands under the vehicle should the lift collapse.

The support stands must be of reliable quality able to adequately bear the weight of the lifted vehicle.



**THE MANUFACTURER CANNOT BE HELD LIABLE FOR ANY DIRECT OR INDIRECT INJURY OR DAMAGE CAUSED BY THE FAILURE TO OBSERVE THE INSTRUCTIONS CONTAINED IN THIS HANDBOOK.**

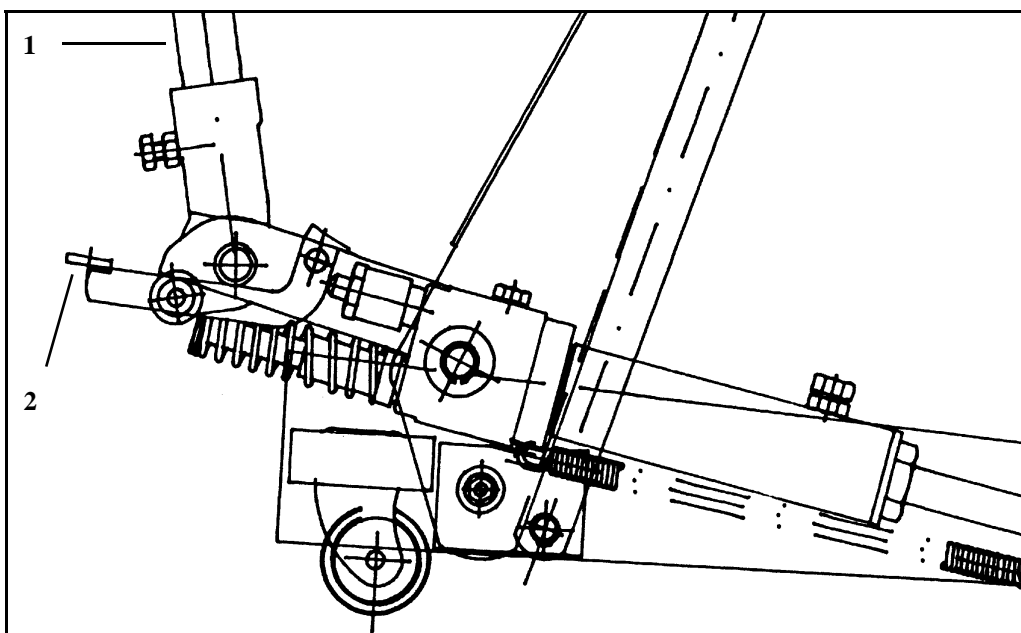
### **8.1 - LIFTING:**

- Place the jack beneath the load so that the plate may rise at least 100 mm before beginning to lift the load.
- Move the operating rod (1 FIG. 8) with alternating forward and backward movements so as to make the oil flow to the piston.
- During lifting, the pumping stops, blocking the lifting arm in the position reached; the check valve stabilizes this position.
- The lifting stops when it reaches its maximum height automatically.
- Do not keep pressing the operating rod once lifting is completed.
- After having lifted the load, it is crucial to rest it on the support stands.

### **8.2 - LOWERING:**

- Press the pedal (2 FIG. 8) to start lowering. Releasing the pedal causes the movement to stop instantly and the pedal to return its original position.
- The lowering speed is automatically regulated so that it remains within the limits imposed by the regulations in force.

FIG. 8



## 9.0 ROUTINE MAINTENANCE

Routine maintenance includes cleaning, lubricating, greasing and tuning operations that need to be carried out at regular fixed intervals in order to ensure that the machine operates correctly and that the safety devices are in perfect working order. Any operations not mentioned in this chapter are considered extraordinary, and may only be carried out by the manufacturer.



WARNING

**THE OPERATIONS DESCRIBED BELOW MUST BE CARRIED OUT BY TECHNICAL STAFF SPECIALIZED IN MECHANICS AND OIL HYDRAULICS.**

To ensure that the truck-mounted lift operates correctly and efficiently, please observe the following instructions and regularly perform routine maintenance.



WARNING

**All cleaning and maintenance must be carried out in total safety. For this reason, carry out these operations with the lift in the rest position.**

To add oil if the lifting arm fail to reach the specified height, proceed as follows:

- First raise the lifting arm halfway, then unscrew the cylinder plug (1 FIG. 9).
- Pour in oil until the cylinder chamber is full.
- Use “AGIP ACER 22” hydraulic oil.
- Screw the plug back onto the cylinder chamber.

The closing plug is provided with a drain hole. After pouring in the oil, lower the lift arm and the surplus oil will be ejected through this hole.

Repeat the operation if the arm still fails to reach the specified height.

Periodically grease the pins and junctions of the lifting arm along with the base frame.

Keep the lift wheels clean.

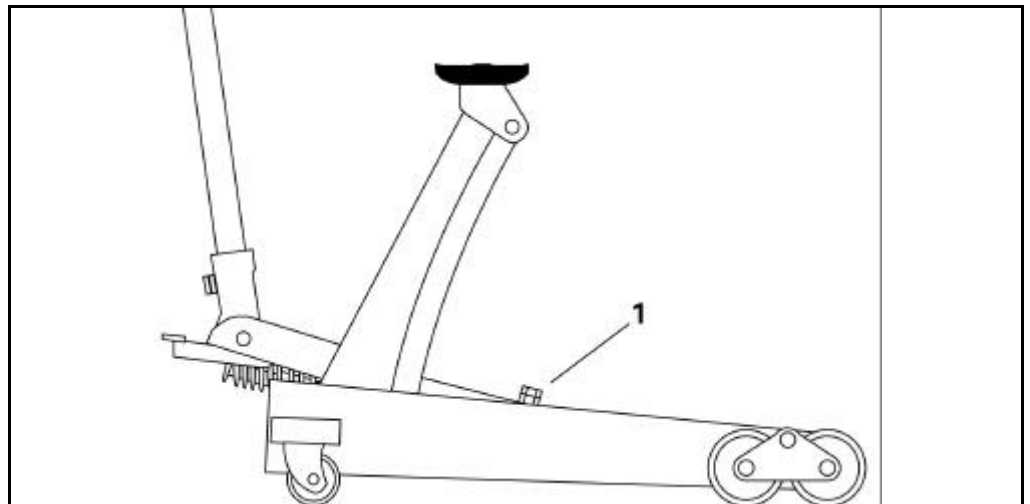
Grease the pivoting wheel bearings and check that they are in good service.

Grease the pivoting wheel bearings and check that they are in good service.

Clean the machine regularly, especially the plate-supporting joints in order to allow for a correct and constant balancing.

**ALWAYS KEEP THE LIFT’S PARTS AND COMPONENTS PERFECTLY CLEAN.**

FIG. 9



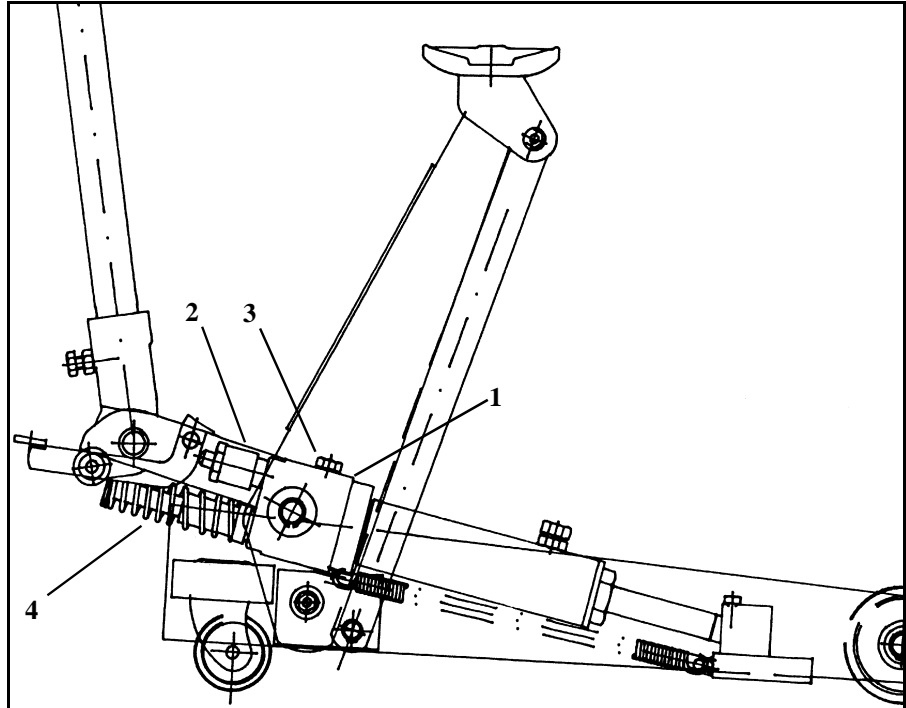
**10.0**  
**TROUBLESHOOTING**  
**TABLE**

<b>Problems</b>	<b>Possible causes</b>	<b>Remedies</b>
The lift will not lift the declared capacity.	1 Max. valve dirty or faulty. 2 Lowering valve open or dirty. 3 Cylinder gaskets damaged	1 Send the truck to the dealer's authorized maintenance center. 2 Dismantle the valve body, replacing it should it be damaged (2 FIG. 10). 3 Dismantle the pump cylinder unit and send it to the dealer's authorized maintenance center.
With the pumping action, the arm lifts but descends to its previous position.	1 No oil in the tank. 2 Check valve dirty or worn out.	1 Add oil to the tank through the plug as indicated in the routine maintenance chapter. 2 Dismantle the valve, clean it with compressed air and petrol, handle with care (3 FIG. 10).
The lift's arm lifts slightly with each pumping action.	1 Blow-by in the pumping gaskets. 2 No oil in the tank.	1 Remove the pumping unit containing the gaskets and replace them (4 FIG. 10). 2 Add oil to the tank through the plug as indicated in the routine maintenance chapter.
The lift's arms do not stay in position.	1 Blow-by in the cylinder gaskets. 2 Lowering valve dirty or faulty.	1 Dismantle the piston pump unit, replace the cylinder gasket or otherwise, send it to an authorized dealer. 2 Remove the valve unit, clean it with compressed air and petrol. Fit the valve back on (2 FIG. 10), handling with care.
Excessive speed during lowering.	1 Check valve lowering faulty or broken.	1 Remove the lowering valve from the pump unit, clean it and check its efficiency. Replace if damaged (2 FIG. 10).

If the problems persist, contact the manufacturer and avoid non-specific operations.  
 Contact the authorized centers for assistance and ask for original parts.  
 The list of spare parts is included in this instruction handbook.

**N.B.:** The max. pressure valve is sealed by the manufacturer. For any malfunctions attributable to the manufacturer, send the equipment or the cylinder - pump unit to the dealer's authorized maintenance center.

**FIG. 10**



### **11.0 SETTING THE LIFT ASIDE**

If the machine is set aside for long periods, disconnect all supply sources, drain the tank of hydraulic oil and protect any parts that risk damage due to dust or atmospheric agents.

### **12.0 SCRAPPING THE LIFT**

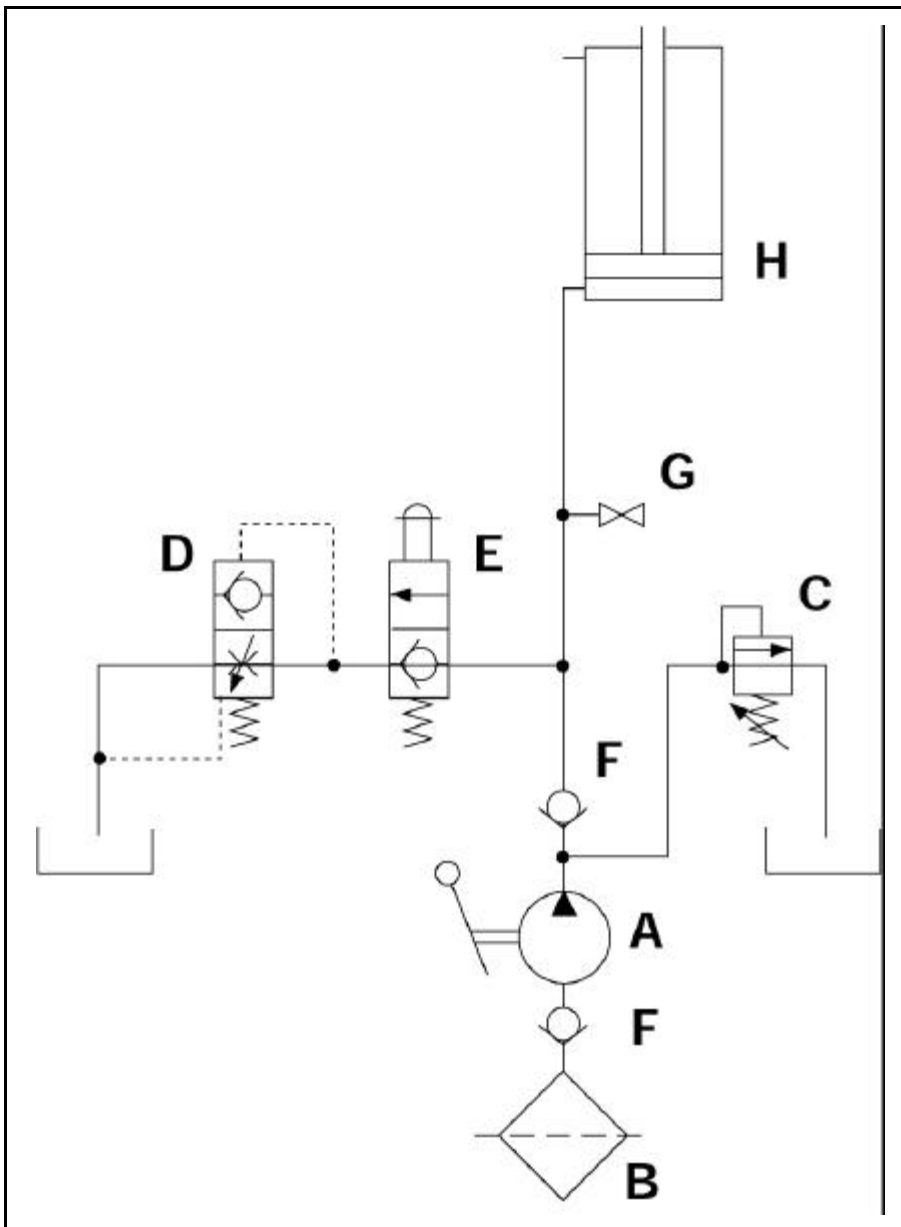
- At the end of the machine's life cycle or when you decide not to use it any more, make it inoperative by removing all the hydraulic oil left in the tank and in the drive cylinder.
- The lift must be disposed of as special waste, so dismantle it into homogeneous parts and dispose of them in compliance with the regulations in force.

### **13.0 FACTORY TESTS**

Before packing, the lift was subjected to operating tests regarding the parts listed below:

- Operational control of the lifting arm and general parts.
- Check that there is no seeping or leaking oil.
- Functional check of the lowering control valves.
- Max. pressure valve check and calibration.

14.0  
OIL HYDRAULIC  
DIAGRAM  
FIG. 11



- A MANUAL PUMP
- B OIL FILTER
- C MAX PRESSURE VALVE
- D LOWERING CONTROL VALVE
- E LOWERING VALVE
- F CHECK VALVE
- G GAUGE COUPLING
- H CYLINDER



<b>1</b>	Handle	<b>43</b>	Check valve ball
<b>3</b>	Handle hub	<b>44</b>	Suction valve ball
<b>4</b>	Handle setscrew	<b>45</b>	Pump cylinder
<b>6</b>	Piston pin	<b>46</b>	Bleed valve and oil injection
<b>8</b>	Piston pin bush	<b>47</b>	Gasket for bleed valve
<b>9</b>	Wheel fastening screws and nut	<b>48</b>	Pumping piston
<b>10</b>	Articulated wheel	<b>49</b>	Piston gasket
<b>12</b>	Pump	<b>50</b>	OR rings for cylinder
<b>13</b>	Stop ring	<b>52</b>	Piston return spring
<b>14</b>	Arm return spring	<b>53</b>	Cylinder
<b>15</b>	Arm	<b>54</b>	OR ring
<b>16</b>	Connecting-rod for arm	<b>55</b>	Piston gasket
<b>17</b>	Plate holder	<b>56</b>	Gasket holder and runner
<b>18</b>	Plate	<b>57</b>	Piston
<b>19</b>	Plate setscrew	<b>58</b>	OR ring
<b>20</b>	Articulated joint washer	<b>59</b>	Spring plug
<b>21</b>	Connecting-rod stop nuts	<b>60</b>	OR rings
<b>22</b>	Pedal	<b>61</b>	Copper gasket
<b>23</b>	Arm support pin	<b>62</b>	Ball pressing spring
<b>24</b>	Washer for screws	<b>63</b>	OR ring
<b>25</b>	Screws for fastening pin	<b>64</b>	Snap ring
<b>26</b>	Stop rings	<b>65</b>	OR ring
<b>27</b>	Truck	<b>66</b>	Pedal pin
<b>28</b>	Fastening screws for front wheels	<b>67</b>	Snap ring
<b>29</b>	Washer	<b>68</b>	Drain valve press
<b>30</b>	Front wheels	<b>69</b>	Dowel for valve press
<b>31</b>	Stop ring	<b>70</b>	OR ring
<b>32</b>	Pin for controlling drain valve	<b>71</b>	Pin for drawbar
<b>33</b>	OR rings	<b>72</b>	Snap ring
<b>34</b>	Drain valve plug	<b>73</b>	Oil filter
<b>35</b>	Spring	<b>74</b>	Pump support pin
<b>36</b>	Drain valve unit	<b>75</b>	Pump
<b>37</b>	OR ring	<b>76</b>	Cap
<b>38</b>	Ball	<b>77</b>	Slider
<b>39</b>	Spring	<b>78</b>	OR ring
<b>40</b>	Plug for fastening spring	<b>79</b>	Spring
<b>41</b>	Plug gasket	<b>80</b>	Ball press
<b>42</b>	Plug for ball unit	<b>81</b>	Max. pressure ball

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**16.0**  
**ACCESSORIES**  
**UPON REQUEST**

In order to improve machine performance, and at the same time make its use safer and practical, *OMCN* offers a series of accessories which are adaptable to the machine models found in the booklet.

*OMCN's* catalogue lists all the accessories that can be used on each lift model. Specific instructions for using the accessory safely are supplied with the accessory, and not mentioned in the handbook for the sake of brevity.