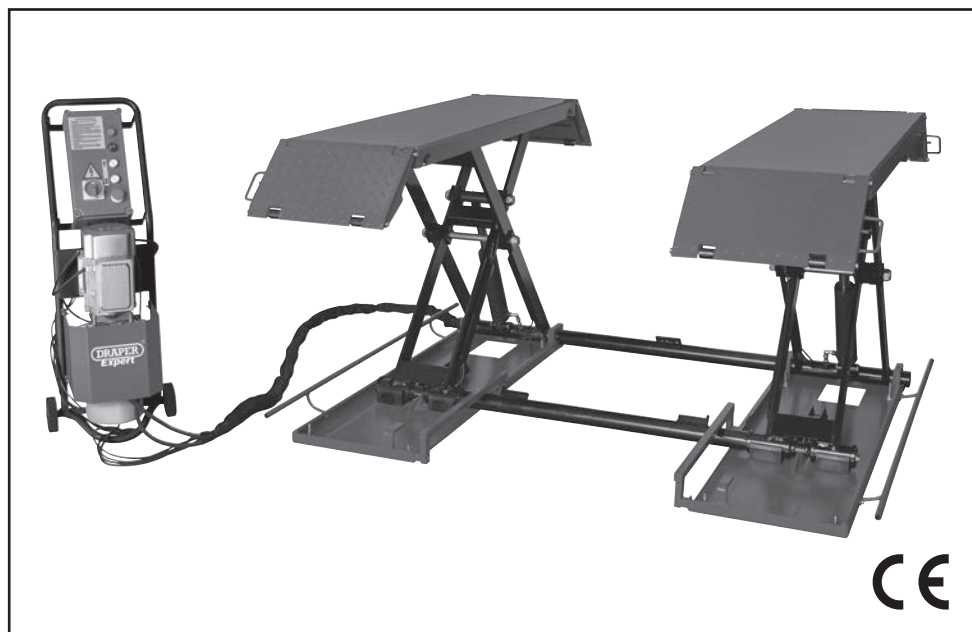




MID RISE

# SCISSOR LIFT

01807



These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

# 1. TITLE PAGE

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## 1.1 INTRODUCTION:

**USER MANUAL FOR: MID RISE SCISSOR LIFT**

**Stock No's: 01807**

**Part No's: SL100**

## 1.2 REVISIONS:

**Date first published April 2018.**

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As our user manuals are continually updated, users should make sure that they use the very latest version.

**Downloads are available from:** <http://drapertools.com/manuals>

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## 1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

**WARNING!** – Information that draws attention to the risk of injury or death.

**CAUTION!** – Information that draws attention to the risk of damage to the product or surroundings.

## 1.4 COPYRIGHT © NOTICE:

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## 3. GUARANTEE

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### 3.1 GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact:

**Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.**

**Telephone Sales Desk: (023) 8049 4333** or:

**Product Helpline (023) 8049 4344.**

A proof of purchase must be provided.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is 90 days from the date of purchase. The guarantee is extended to 24 months for parts only. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

**Draper Tools Limited.**



# 4. INTRODUCTION

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## 4.1 SCOPE

This lift has been designed and constructed for lifting vehicles with the sole purpose of performing service, repairing and inspection. Any other application is considered misuse.

## 4.2 SPECIFICATION

Stock No's. ....	01807
Part No's. ....	SL100
Rated Voltage .....	230V~50Hz
Rated input .....	2.2KW
Air supply .....	6-8kg/CM²
Lifting time .....	30seconds (approx.)
Lift capacity .....	3000kg
Lift height.....	105-1000mm
Weight     Lift.....	415kg
Control unit.....	65kg

## 4.3 HANDLING AND STORAGE

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the lift will not perform at its best.

## 5. HEALTH AND SAFETY INFORMATION

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**Have this tool repaired by a qualified person.** This lift is designed to conform to the relevant international and local standards and as such should be maintained and repaired by someone qualified; using only original parts supplied by the manufacturer: This will ensure the lift remains safe to use.

### 5.1 GENERAL SAFETY INSTRUCTIONS

**Warning:** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.**

**1) Work area safety:** Improper use of this lift could result in serious injury or death! Read these instructions fully before use and retain them as a part of the equipment.

- When raised, ensure the safety device is engaged to prevent collapse in the event of a hydraulic failure.
- Use this lift on flat, level ground only, suitable for the fully laden weight.
- Travelling on the load carrying device is forbidden.
- Make sure there is sufficient clearance above the lift to allow for the vehicle at its highest position.
- Inspect the lift before each use for signs of damage or wear and tear.
- Never use the lift if any part is damaged, missing or defective. Have the part replaced immediately, using only genuine parts supplied by the manufacturer.
- Ensure the vehicle to be loaded is suitable for the lift e.g. wheel base and kerb weight.
- Never exceed the rated capacity of the lift.
- Ensure the vehicle is loaded centrally to prevent the lift tipping sideways.
- Bleed the hydraulics before first use.
- Ensure the working area around the lift is free from clutter and fluid (e.g. oil) to prevent trip or slip hazards.
- Ensure the working area is properly lit.
- Never place any part of your body under the lift or around the working mechanism to prevent any crushing, shearing or unpleasant severe injuries.
- This lift must be correctly maintained and repaired by a trained and qualified person.
- As with all workshop equipment and environments, children must never be allowed near for their own safety.
- Do not operate the lift if you are tired or under the influence of drugs (prescribed or otherwise).
- Do not use the lift for any other application than that described in the scope section of this manual.
- No unauthorised persons, unfamiliar with these instructions are permitted to operate this equipment.
- Clean and lubricate the lift regularly to ensure it remains in optimum working condition.
- Take care when handling the lift - 3 to 4 persons are recommended.
- When not in use lower the lift platform fully.

## 5. HEALTH AND SAFETY INFORMATION

---

- **ATTENTION! KEEP FOR FUTURE REFERENCE.** This document is part of the product: keep them for the life of the product passing onto any subsequent holder of the product.
- **WARNING!** Never exceed the specified maximum working pressure. See specification for details.
- **FAILING TO COMPLY WITH THESE INSTRUCTIONS WILL RESULT IN THE PNEUMATIC PUMP FAILING EARLY; THIS WILL NOT BE COVERED BY THE GUARANTEE.**
- To make sure enough air reaches the pump, it should be supplied using a 3/8" diameter line or greater. If you are using an air hose over 25ft. long it is advisable to increase the bore of the hose to the next larger size available.
- The operating pressure of 90psi and must be controlled via a combined pressure regulator/lubricator water separator unit† which with proper maintenance will ensure a constant supply of dry air at all times (see illustration below). Water from condensation can build up inside the compressor tank and air lines: this will cause your equipment to rust if not properly dealt with.  
†See the Draper air tool accessory range for a suitable unit.
- Always check the air line output operating pressure before connecting to the lift.

### 5.2 CONNECTION TO THE POWER SUPPLY

**Caution:** Risk of electric shock. Do not open.

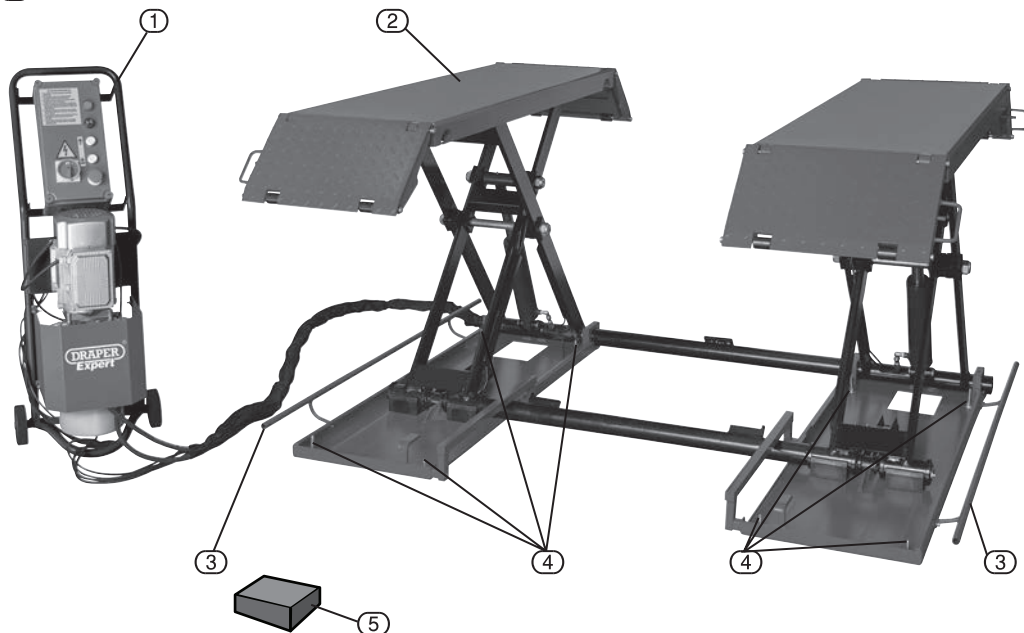
This is a Class I earthed machine and requires a 16A supply. It must be installed by a qualified electrician.

## 6. TECHNICAL DESCRIPTION

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### 6.1 IDENTIFICATION

- ① Control unit.
- ② Scissor lift.
- ③ Side bar.
- ④ Anchor bolts.
- ⑤ Rubber blocks x4



## 7. UNPACKING AND CHECKING

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### 7.1 PACKAGING

Carefully remove the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing; please contact the Draper Helpline (the telephone number appears on the Title page) and do not attempt to use the machine.

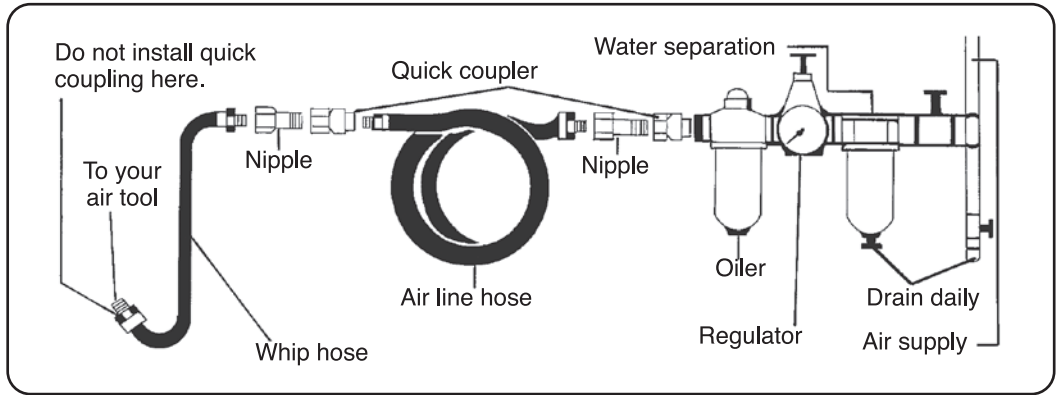
The packaging material should be retained at least during the guarantee period: in case the machine needs to be returned for repair.

**Warning!** Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.

If any of the packaging is to be thrown away, make sure they are disposed of correctly; according to local regulations.

## 8. AIR SUPPLY

### 8.1 RECOMMENDED AIR SUPPLY SET UP



## 9. ASSEMBLING THE SCISSOR LIFT

---

### 9.1 CONNECTING CONTROL UNIT - FIGS. 1 - 9

Position the Scissor lift into the final working position whilst on the pallet using a pallet truck. Installation should be on a smooth and level concrete floor (having a minimum thickness of 20cm). Remove all straps and cardboard packaging.

Unpack the control unit.



FIG.1

Connect the cables and tubes from the scissor lift to the control unit.  
Remove the protective cover to the control unit.

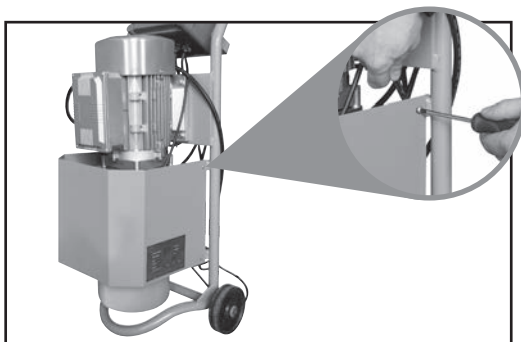


FIG.2

Remove protective caps from the control unit and connect the oil hoses.

NOTE: Ensure all connections are tight.

NOTE: The oil hoses are not sided.

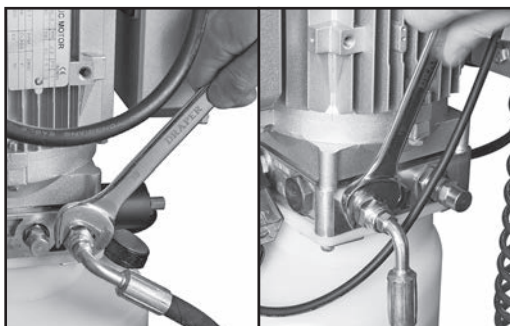


FIG.3

## 9. ASSEMBLING THE SCISSOR LIFT

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Connect the corresponding plugs from the lift to the control box.

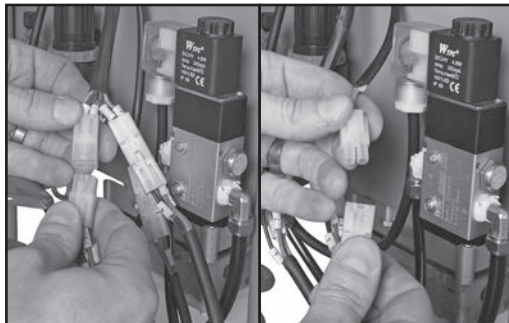


FIG.4

Before filling the tank with hydraulic oil, remove the magnetic coil.

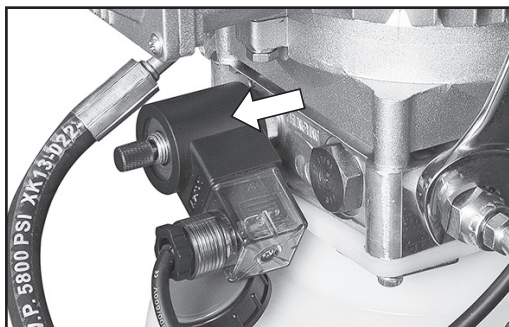


FIG.5

Unscrew the tank cap and fill with 6 Litres of hydraulic oil.



FIG.6

## 9. ASSEMBLING THE SCISSOR LIFT

Refit the magnetic coil and ensure the pressure release valve is closed by pressing and turning clockwise.



FIG.7

Connect the airline from the lift (6) to the safety solenoid.

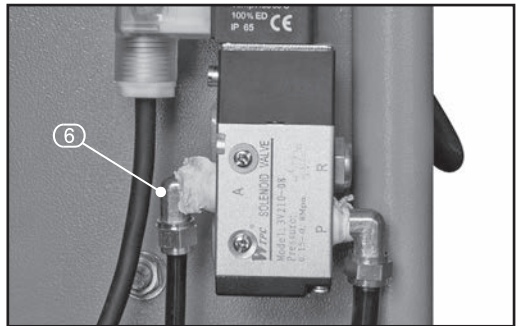


FIG.8

Connect the airline from a compressor to filter regulator (7).

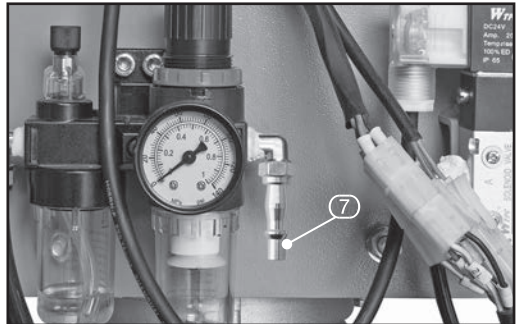


FIG.9

Refit protective cover to the control unit as fig 2.



# 9. ASSEMBLING THE SCISSOR LIFT

## 9.1 REMOVE LIFT FROM PALLET - FIGS. 10 - 13

Connect the power source.  
Raise the scissor lift to maximum height, to gain access to the inside.  
Detach the wooden packing blocks (4.1) from each corner by removing the bolts (4.2).

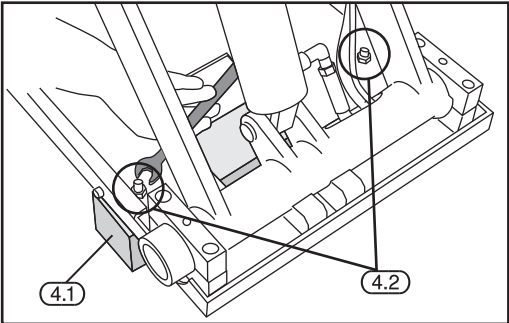


FIG.10

Lift corner of scissor lift with a engine crane, slide the wooden blocks (4.1) plus rubber blocks (5) supplied under the corner. Repeat for each corner (This raises the lift from the pallet).

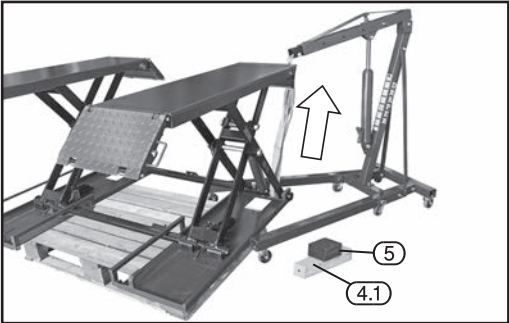


FIG.11

Slide the pallet out from under the scissor lift.

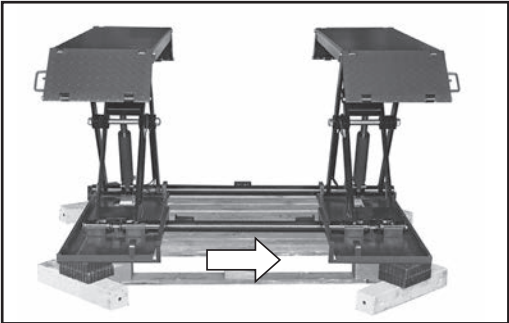


FIG.12

# 9. ASSEMBLING THE SCISSOR LIFT

Attach the engine crane to the scissor lift in each corner and lift. Remove the blocks and slowly lower to the floor. Repeat on all corners.

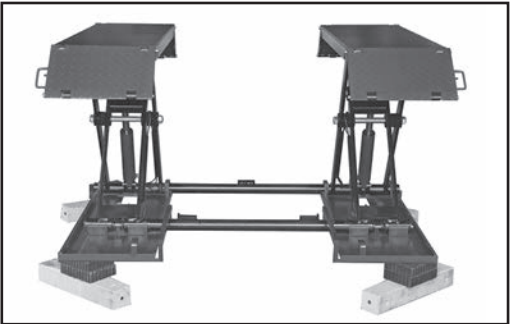


FIG.13

## 9.2 SECURE TO FLOOR - FIG. 14

Once the correct position has been determined, drill the anchor bolt holes through the holes in the scissor lift. (Ensure there are no buried cables or pipework BEFORE drilling).



FIG.14

## 9.3 ASSEMBLY - FIG. 15

Attach side bars (3) to both sides. Bolt to the floor using suitable correctly specified floor fixings (4). These side bars help prevent the users feet getting too close to the scissor lift. It is imperative these bars are fitted and kept on at all times.

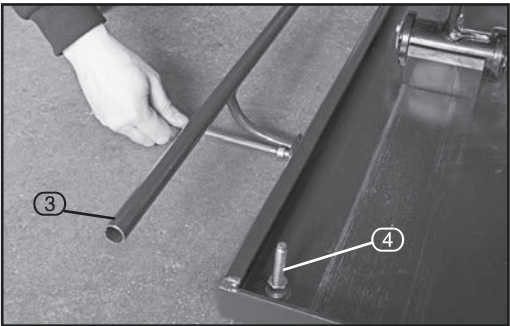


FIG.15

## 10. SCISSOR LIFT INSTRUCTIONS

**WARNING: DO NOT PLACE ANY VEHICLE ON THE LIFT BEFORE TRIAL OPERATION. RAISE THE LIFT UP AND DOWN SEVERAL TIMES TO INSURE LATCHES CLICK TOGETHER AND AIR EXHAUSTED FROM THE CYLINDERS.**

### 10.1 BEFORE OPERATION

- a. Check all the pipelines and joints before use.
- e. When the lift reaches a desired height, the main switch must be turned off before any repair work is carried out.

### 10.2 LOADING TEST

Never try to use the lift with a vehicle on without testing unloaded first.

This step is very important to check if there is any leakage of hydraulic line connectors or air hose. If there's no abnormal noise or leakage after running two or three times, run with load never exceeding 2500kg at a low height.

Then raise higher gradually.

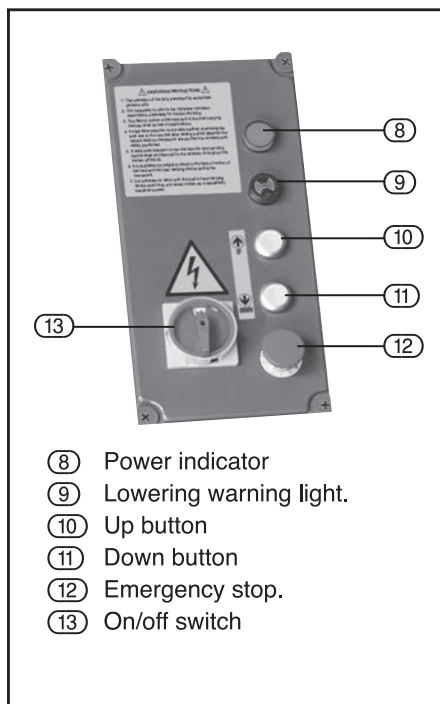
### 10.3 INSTRUCTIONS FOR USE

#### RAISING THE LIFT

1. Always ensure the vehicle is positioned correctly in the centre of the 2 platforms. Ensure engine is switched off, handbrake on and vehicle is out of gear.
2. Place each of the 4 rubber blocks directly under the vehicle at the manufacturers recommended jacking points.
3. Turn on/off switch on the control panel to 'ON'. The power indicator light (8) will show.
4. Raise the scissor lift by pressing the UP button (10) until the rubber blocks touch firmly on the correct vehicle jacking points. Continue to raise until the required height is reached.
5. Having raised the vehicle to the required height, release the UP button and turn the on/off switch to 'OFF'. The power indicator light will go out.
6. The scissor lift is now safe to work on.

#### LOWERING THE LIFT

1. Switch the on/off switch to 'ON'. The power indicator light will show.
2. Press the down button (11) to lower the lift. The lift will raise a little to release the lock then begin to lower. The lowering warning light (9) will show whilst the scissor lift is being lowered.



# 11. MAINTENANCE

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## 11.1 MAINTENANCE SCHEDULE

The listed intervention times are given for information and they refer to normal operating conditions. They can change according to the kind of service, environment, frequency of use, etc.

### 1. Daily pre-operation check

The user should perform daily check. Daily check of safety latch system is very important – the discovery of device failure before needed could save you from expensive property damage, lost production time, serious personal injury, even death.

- Check safety lock audibly and visually while in operation
- Check hydraulic connections, and hoses for leakage.
- Check chain connections, cable connections, wiring and switch for damage.
- Check bolts, nut and screws and tighten.
- Check swing arm restraints.

### 2. Weekly maintenance

- Check the cleanness of the mobile parts.
- Check the safety device as previously described.
- Check hydraulic fluid level as follow: let the trolleys go up completely and in case they do not reach maximum height, add oil.
- Check and tighten bolts, nuts and screws.

### 3. Monthly maintenance

- Check the tightening of screws
- Check the hydraulic system seal and tighten the loose unions, if necessary.
- Check the greasing and wear condition of pins, rollers, bushes, of trolley structure as well as arms and relevant extensions, if necessary, replace the damaged parts by original spare parts.

### 4. Yearly maintenance

Empty the tank and check the conditions of the hydraulic fluid. Clear the oil filter.

If the above maintenance operations are carried out, there will be an advantage for the user,

## 12. EXPLANATION OF SYMBOLS

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### 12.1 EXPLANATION OF SYMBOLS



**Do not dispose of WEEE\***  
unsorted municipal waste.



Class II construction  
(Double insulated).



**Warning!**  
Wear suitable foot protection.



**Warning!**  
Read the instruction manual.



**Warning!**  
Keep bystanders away.



**Warning!**  
Remove plug from power  
supply before maintenance.

## 13. DISPOSAL

---

### 13.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not abandon in the environment.
- Do not dispose of WEEE\* as unsorted municipal waste.



\* Waste Electrical & Electronic Equipment.



## CONTACTS

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General Enquiries: (023) 8026 6355

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For aftersales servicing or warranty repairs, please contact the  
Draper Tools Helpline for details of an agent in your local area.

## YOUR DRAPER STOCKIST

DBMC0418

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