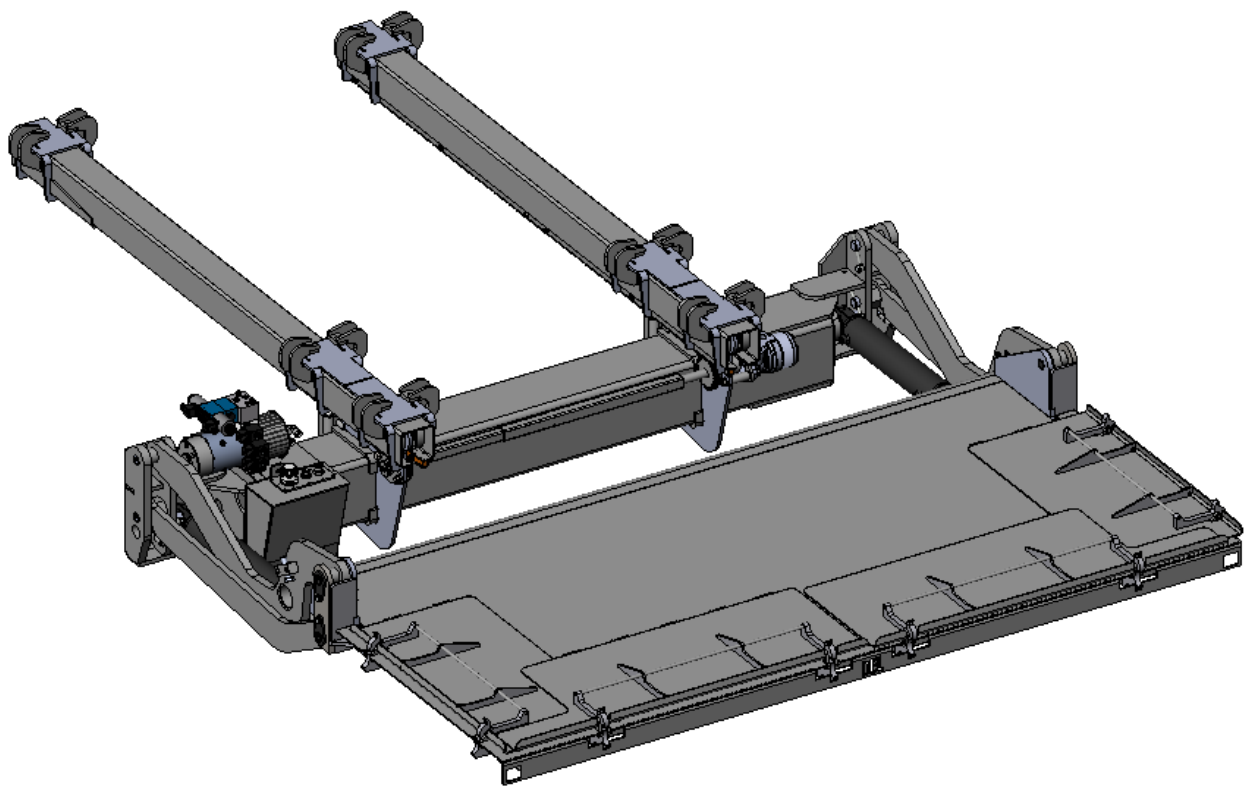


# OPERATORS / MAINTENANCE MANUAL

## SLIDER LIFT



UK  
CA  
CE



## INTRODUCTION

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This manual covers the operation and maintenance of the slider tailift range DST. The procedures detailed in this manual must be understood before the tailift is used. The manual should be kept with the vehicle and records of regular maintenance must be entered in the spaces provided to form a service record for the lift.

### IMPORTANT

This manual forms part of the Inspection record for the tailift, and should be passed on to the end user, together with the installation handbook.

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## 1. WARRANTY

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The lift you have purchased is one of the DEL range of Tailifts. We are pleased you have chosen DEL and would like to ensure that you have the best service throughout the life of the lift.

DST lifts are covered by a 24-month warranty against faulty parts or assembly, subject to our conditions below and our normal conditions of sale. To obtain details of your nearest service centre plus updated information of the DEL range please complete and return the enclosed registration form.

### PRODUCT WARRANTY TERMS AND CONDITIONS

Date of Issue: September 1st, 2025

Scope: This document replaces all previous documents issued and is effective from the date of issue. Unless otherwise agreed in writing the following terms and conditions will apply.

HIAB Tailifts (herein referred to as DEL) withhold the right to revise these terms and conditions without prior notice at any time in the future.

#### General Terms and Conditions

1.1 DEL warrants its Customer and/or End User of its products, provided it has received payment in full for the goods, that it will repair/replace, either in its factory or through one of its approved Service Agents, without charge, any original part of any DEL product found to be faulty within 24 months of installation or within 27 months after the date of despatch from its factory, whichever is the shortest, which is proven to the satisfaction of DEL to be defective.

1.2 Warranty covers failure of DEL products and does not include installation (unless fitted by DEL) of the product or any part of the product associated with the installation. This is solely at DEL's discretion.

1.3 To substantiate the claim DEL will want clear product identification (the serial number), may require proof of purchase, may want to inspect the product on its Customer's premises and may insist that the defective product be returned to DEL (at DEL's cost).

1.4 In the event repairs are required to a DEL product "in the field", DEL will authorise its own engineers or instruct (with a relevant authorisation number) one of its approved Service Agents to carry out the necessary work and will pay the Service Agent direct. In the event that the Customer or End User is willing and capable of carrying out the repair work themselves, costs must be agreed in advance and a pre authorisation number must be obtained from DEL.

1.5 If during the warranty period, the DEL product is rejected by the bodybuilder/DEL product fitter, as being not fit for purpose due to poor

workmanship, sub-standard performance or other quality defects, DEL will replace or repair the DEL product either on site or in its own factory. Costs covered by DEL would include any removal and re-fitting of the DEL product to the vehicle, additional transportation and labour plus materials to replace/repair.

1.6 In the event the DEL product is not accepted by the Customer because the wrong specification was ordered or because the End User changed his mind after DEL product build, DEL will endeavour to take the DEL product back into stock but reserve the right to apply a handling charge and to recover all of its transportation costs. In addition a product devaluation charge will be applicable, the value of which will be dependent on the condition and age of the DEL product and upon whether the DEL product is a "special" or a standard DEL product.

1.7 The warranty will be invalid if any of the following (but not limited to) is shown to have happened: accidental damage, product overload, operator error/abuse, product not installed properly, product not serviced (and greased) regularly.

1.8 The warranty will be invalid if the cause of the breakdown (or other problem) is found to be the result of a defect with another part of the vehicle e.g. a PTO problem or a vehicle electrical fault.

1.9 The warranty will be invalid if it is established that DEL has not received payment in full for the DEL product, e.g. if the goods have been stolen or if DEL's customer has been unable or unwilling to pay for the goods.

1.10 The warranty will be invalid if it is shown that the problem/failure has been caused (or contributed to) by non-DEL parts, which were fitted during an earlier service.

1.11 The warranty will be invalid if the failure is shown to have been caused by any unauthorised modifications to the DEL product. DEL approved modifications must always be in writing.

1.12 On no account will DEL accept consequential losses of any description. These include but are not limited to: handling charges, replacement vehicle hire, delivery penalty clause, loss of business opportunity.

1.13 Because DEL's service network covers all of the UK, the warranty applies only to DEL products which have been purchased in the UK and which remain on the mainland.

1.14 If during the warranty period, DEL replacement parts have been fitted; these replacement parts will have a further 12 months warranty for both parts and labour.

1.15 Warranty consideration will only be given providing the customer and Service Agent follow the correct warranty procedure. The customer must contact DEL prior to carrying out any work for authorisation or contact DEL or a DEL approved Service Agent if they require breakdown assistance. DEL

Service Agents must adhere to the Service Level Agreement they have signed with DEL (Service Agents see Service Agent SLA).

1.16 Any breakdown at any location found not to be covered by DEL warranty, regardless of fault, will be chargeable to the company that called the job in to DEL. Calling a breakdown in to DEL or a DEL Service Agent will be taken as acceptance of this condition.

1.17 No warranty will be given for any failure due to chemical corrosion and physical erosion

1.18 No warranty will be given for any failure caused by Fire, Theft, Freezing, Riot or Explosion

1.19 No warranty will be given for failure caused by Lightning, Earthquake, Windstorm, Hail, Water, or Flood.

1.20 No warranty will be given for any part of a Wanderlead Control Assembly.

1.21 Although DEL will always endeavour to repair/replace parts putting the product back to its original condition, this does not include repainting any part of the product that has been painted after leaving DEL's premises. Galvanised/Plated parts will be replaced where ever possible, but DEL reserves the right to replace parts using non galvanised/plated parts on occasion, but with a minimum of a primer finish.

### Customer Responsibility

2.1 The customer is responsible for the maintenance of the product as specified in the Operation and Maintenance Handbook issued with the product at point of sale. It is the customers responsibility to ensure that all operators have read, understood and adhere to the details given in this booklet. If this booklet is not available, a copy is available from DEL's website to download free of charge (visit: [www.del-uk.com](http://www.del-uk.com)).

2.2 In addition to regularly greasing the product (see point 2.1); it is the customer's responsibility to replace grease/lubricant that has been removed from the product due to washing/cleaning the vehicle and/or product. This includes products that are on contract maintenance.

2.3 The customer must retain all service documentation, including weight tests and Statutory Thorough Examinations (STE), which must be available upon request to validate any warranty claim. Failure to maintain the product may invalidate the warranty. This is solely at DEL's discretion.

2.4 The customer is responsible for ensuring the product is being used for its intended purpose only, and has been operated in accordance with the issued instructions.

2.5 In the event of failure, the customer must:

- Use all reasonable means to protect the product from further damage
- Notify DEL Service Department as soon as possible
- Present where requested, proof of warranty coverage and Tailift service history.
- Use only genuine DEL Parts

### 3. Additional Specific Standard Warranty Exclusions

In addition to the above terms and conditions the following warranty exclusions will apply. Please note that some of these exclusions are product specific and therefore may not be relevant to all products.

#### 3.1 First Year Exclusions:

- Minor adjustments such as (but not limited to) chain adjustment, pressure adjustment, flow adjustment.
- Any form of maintenance such as (but not limited to) lubrication, oil replacement.
- Pressure Filters – Filters are required to be replaced on all bin lifts, where applicable, after the first 3000 cycles (approximately 1 month of use for a typical user) and then every 6 months thereafter.
- The following parts are excluded after 12 weeks from the start of the warrantable period (see point 1.1): bulbs, fuses, electrical connections

### 4. Additional Specific Extended Warranty Exclusions

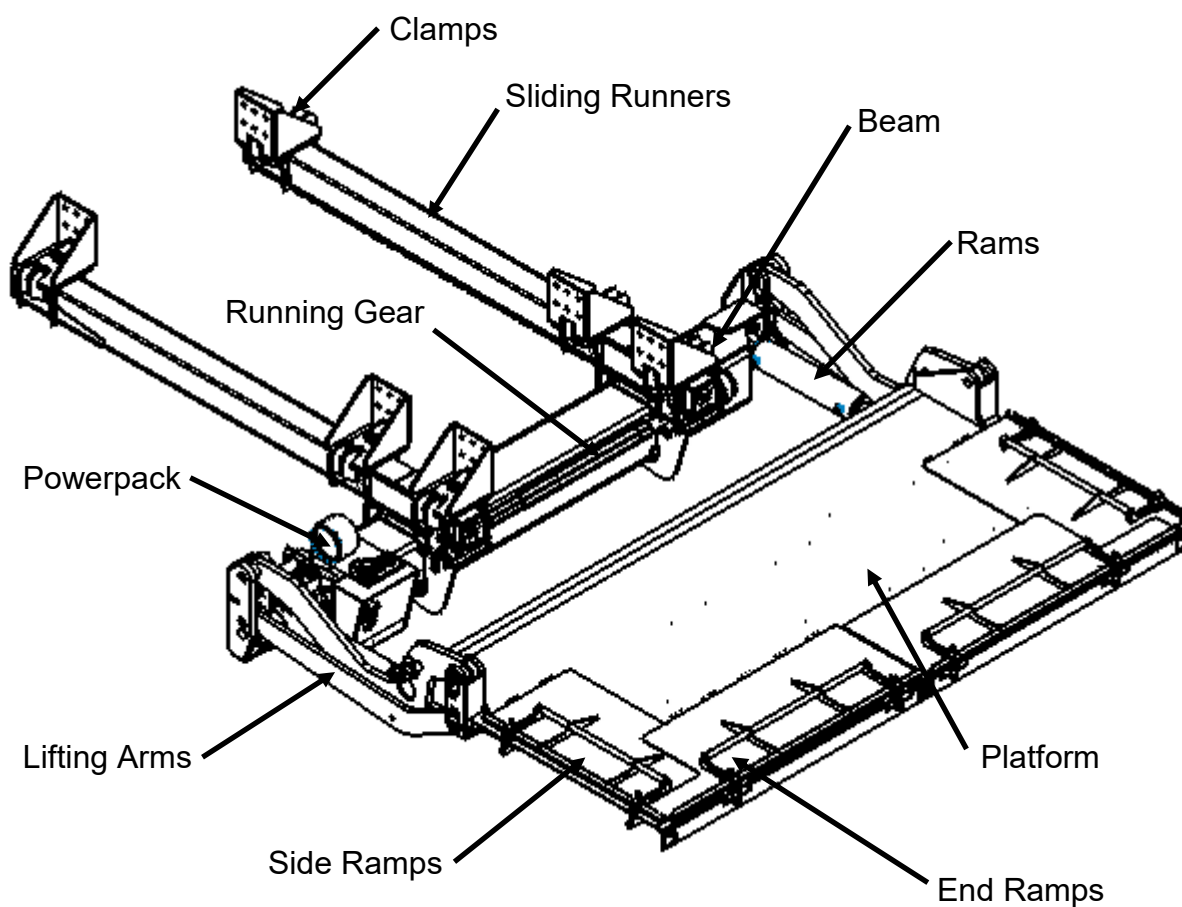
In addition to the above terms and conditions the following warranty exclusions will apply to products purchased with extended warranty and/or put on Contract Maintenance with extended warranty. Please note that some of these exclusions are product specific and therefore may not be relevant to all products.

#### 4.1 Second Year exclusions:

- Hydraulic hoses
- All hydraulic fittings, including loose fittings
- All electrical wiring, including loose connections
- All maintenance replacement parts such as (but not limited to) bushes, bearings, rollers, pins
- Wear and tear on any part
- All non standard electrical lift options such as (but not limited to) flashing lights, warning buzzers

## 2. OPERATING SYSTEMS

The tailift is powered from the vehicle battery. A wire is taken from the battery positive to the powerpack starter switch and the hand control. These circuits are protected by in-line fuses. The power to the hand controls is isolated by a switch in the driver's cab or by removing off key switch or removing the Anderson cable or when the isolation switch is switched off. The raise/lower or extend/retract button on the hand controls provide power to the starter switch, which operates the powerpack motor. This pumps high-pressure hydraulic fluid to extend the ram. On release of the up button the fluid is held in the ram due to a non return valve which locks the ram in position therefore holding the platform stationary. Pushing the down button powers the lowering solenoid, which allows the hydraulic fluid back from the ram to the power pack reservoir.





### 3. SAFETY FEATURES

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Before operating the tailift be sure you understand the safety devices fitted, and ensure that they are in good working order by following the regular maintenance program.

#### CIRCUIT BREAKERS

Fuses protect the electrical circuits. In the case of any electrical fault they will protect the tailift from any damage to its electrical systems. It is possible to disconnect the electrical supply by removing the fuse.

#### ISOLATION

##### Switch (where fitted)

The isolation switch located in the drivers cab ensures that the lift cannot be operated whilst the vehicle is moving or whilst it is left unattended. The lift must ALWAYS be isolated after use.

##### Anderson cable (where fitted)

Lift power isolation can be achieved by removing the Anderson cable.

#### LIFTING LOADS – RELIEF VALVE

The power pack is equipped with a pressure relief valve, which ensures that a gross overload of the lift, which may damage critical parts cannot be lifted. This valve is set on installation to ensure that the lift cannot raise a load 25% more than the safe working load.

#### LOWERING LOADS – FLOW REGULATOR

The returning oil from the ram passes through a flow regulator valve, ensuring the platform lowers at a controlled speed irrespective of the load.

Note – The platform must not be overloaded on lowering, as this will cause permanent damage to the lift operation.

#### 3 WAY FOLDING RAMP/CART STOP

On platforms equipped with a 3 way folding ramp, the edge of the ramp can be fixed in a vertical position to ensure that loads cannot roll/fall from the loading edge of the platform whilst lifting or lowering. A platform fitted with 'cart stops' has a similar effect.

#### CONTROL BOXES

The buttons are designed so they are just large enough to be operated by one finger. This prevents accidental operation by other objects hitting the control box. The control boxes themselves are mounted in a steel protective cover.

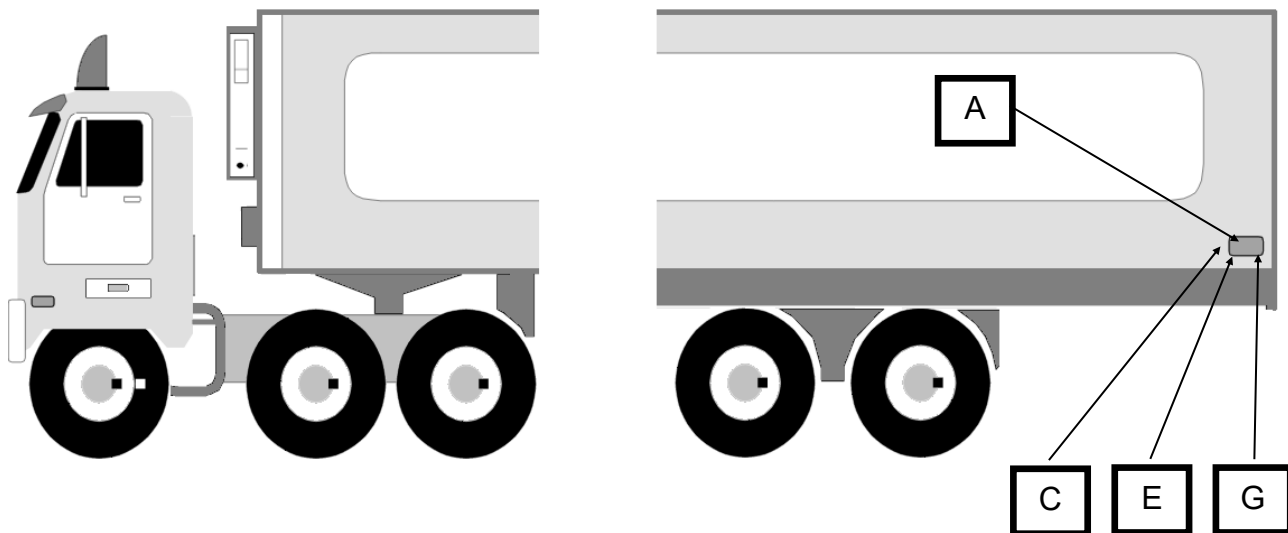
#### PLATFORM

The platform has a rough, anti-skid surface, which ensures that the platform is not slippery in most weather conditions.

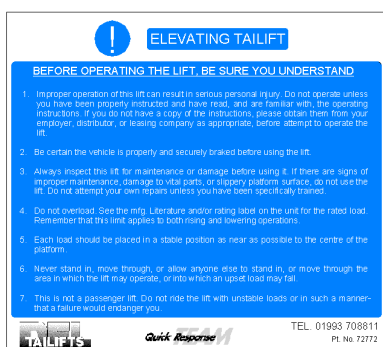
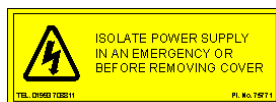
#### STOW INDICATOR (IF FITTED)

The stow indicator in the drivers cab activates when the platform is not in its stowed position. Ensure that it is not active before driving the vehicle. If it activates whilst driving, stop as soon as possible and check that the platform is stowed correctly.

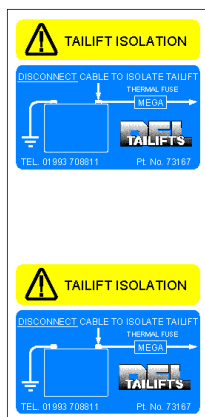
## 4. LOCATION OF WARNING DECALS



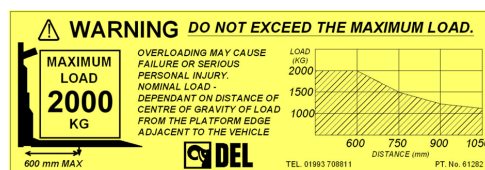
A) CAUTION

B) ISOLATE POWER SUPPLY  
LOCATE ON THE POWER-  
PACK BOX

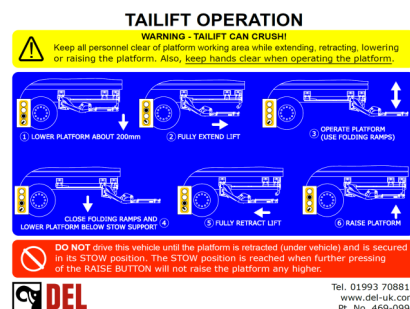
C) WARNING

D) TAILIFT ISOLATION  
LOCATED AROUND THE  
POSITIVE CABLE FROM  
THE LIFT TO THE BATTERY

E) MAX LOAD

F) KEEP FEET CLEAR  
LOCATED AT THE OPERATORS SIDE  
OF THE PLATFORM

G) TAILIFT OPERATION



## 5. INTENDED AND UNSAFE USES

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### INTENDED USES

The Lifts are in- tended for: -

- Lifting of loads vertically from the ground to vehicle bed height and vice-versa.
- Lifting of the load and the operator only, where the operator has been trained to use the lift following all safety procedures.
- Lifting and lowering of loads no heavier than the safe working load of the lift fitted.



### UNSAFE USES

The following are unsafe practices, which may damage the lift and cause risk of personnel injury: -

- Driving a forklift onto the platform.
- Using the lift as a jack.
- Using the lift as a link bridge.
- Using the platform as a step to the truck bed.
- Lifting unstable/wheeled loads without special precautions
- Use as a passenger lift
- Driving the vehicle with the platform open.
- Overloading the platform when loading from the vehicle to the platform.

## 6. SAFETY PROCEDURE

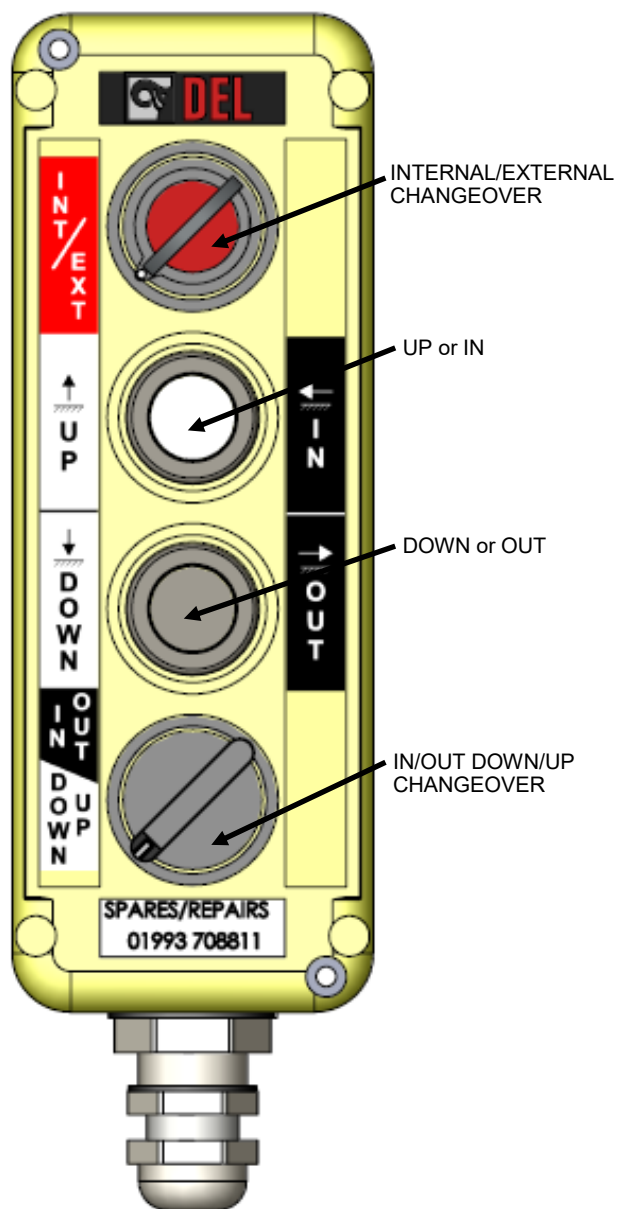
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Before operating the lift be sure to understand the following instructions: -

1. Read and be familiar with the safety instructions and warning decals before operating the lift.
2. Be sure the vehicle is securely braked and that there is adequate lighting in the working area.
3. Inspect the lift for maintenance or damage. If there are any signs of damage do not use the lift or attempt repairs unless you have been specifically trained.
4. Clear the working area of any obstructions.
5. Do not overload the lift. Note that the safe working load of the lift applies to both lifting and lowering operations.
6. Make sure the centre of the load is placed as near to the centre of the platform as possible. If wheeled loads are lifted ensure these are securely braked and that available safety devices are used (3 way folding ramp/cart stop)
7. Make sure that whenever you intend to ride the platform that you leave enough room to stand without risk of falling.
8. Make sure the platform is securely stowed .
9. Always isolate the lift after use.

## 7. HAND CONTROLS

Raise/Lower & In/Out mounted at the rear of the trailer on the NS.



### INTERNAL UP/DOWN CONTROL (Lower)

This control is typically situated at the rear inside of the body at hand height.



### INTERNAL UP/DOWN CONTROL (Upper)

This control is typically situated at the rear inside of the body at shoulder height.



## 8. WORKING AREA

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The push button controls are located in such a position to give: -

- A good view of the working and surrounding areas.
- A secure position away from passing traffic
- Where two hand controls are used they provide protection for the hands from crushing.

The position of the controls should not be changed.

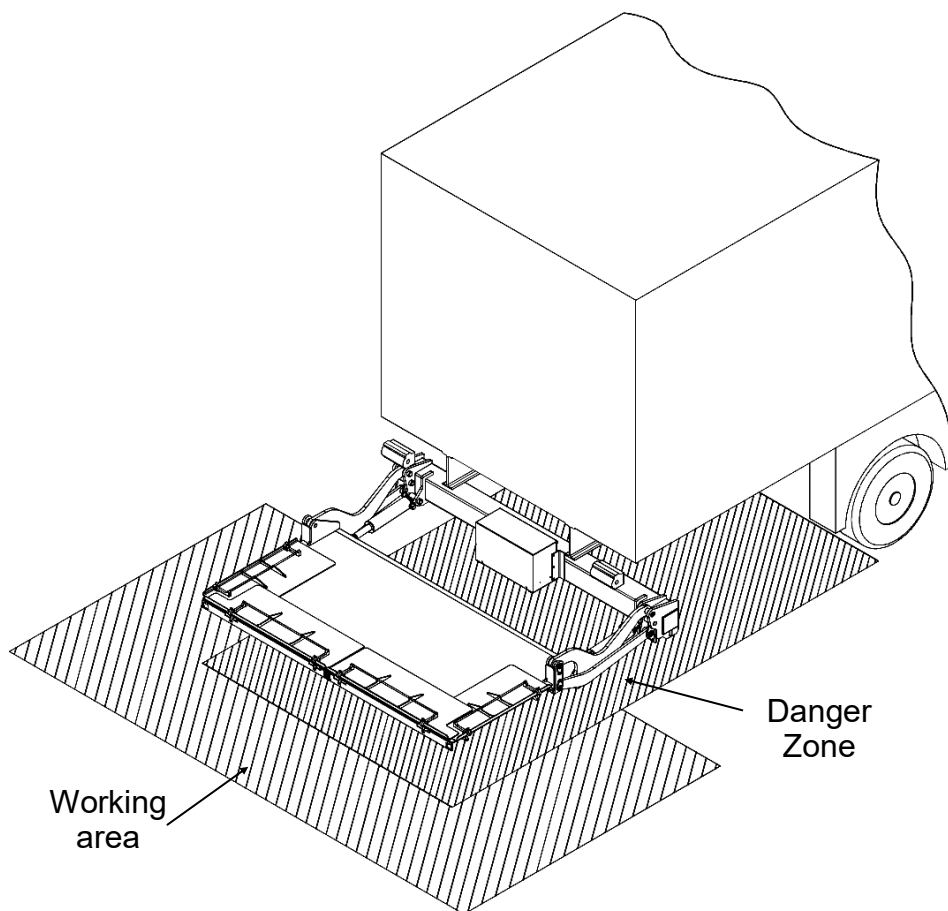
Always ensure that there is sufficient lighting to the working and surrounding area

### NOTE

The danger zone is the area in which the platform travels, and under no circumstances should this be entered while the platform is in its operating position.

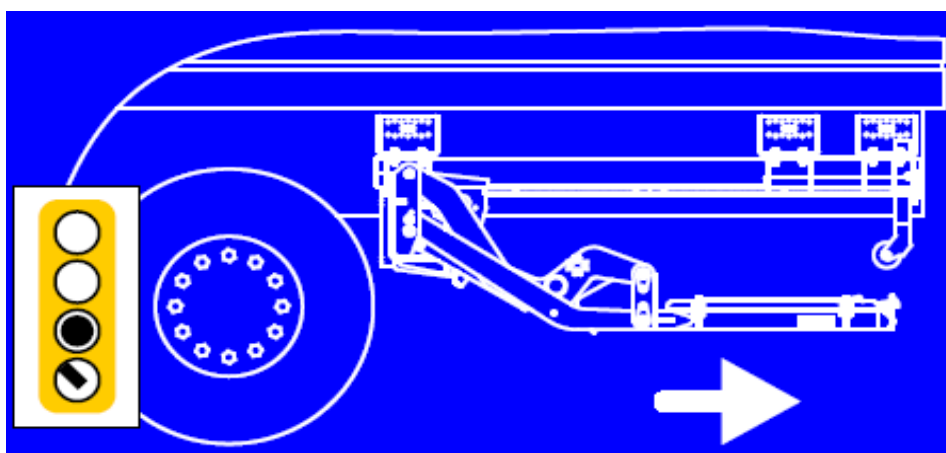
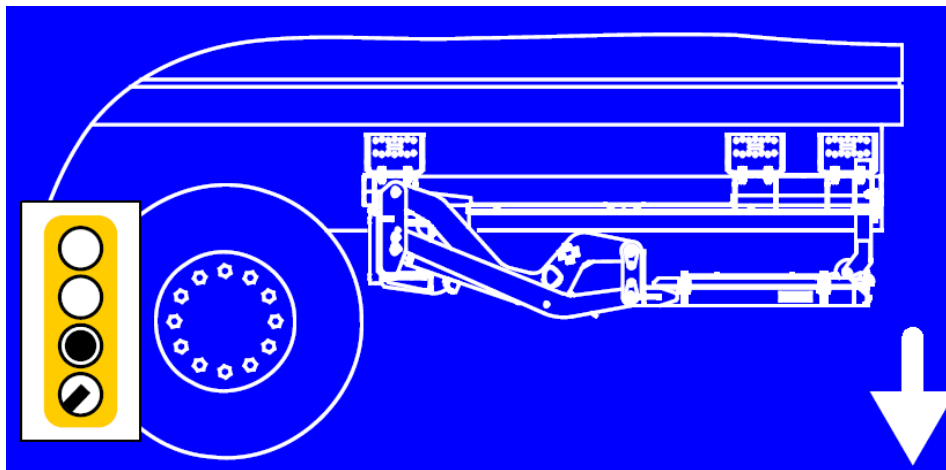
The working area is the area around the platform in which the operator can stand while the platform is in its operating position. If anyone other than the operator enters this area while the lift is in use, any raising or lowering operation, which is being performed, must be stopped immediately.

Surrounding area is the area around the working area. The operator should be aware of the surrounding area and look for any potential hazards.

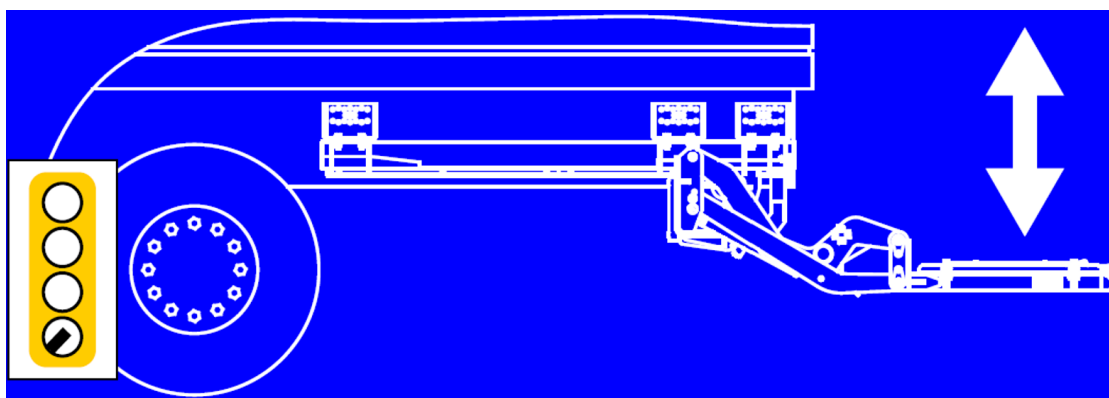


## 9. OPERATING INSTRUCTIONS – EXTEND THE LIFT

1. Switch on the tailift by switch on the driver's cab or by running the key switch or connecting the Anderson cable or switching on the isolation switch
2. Ensure the working area is clear from obstructions
3. Lower the platform by approximately 200mm by pressing the DOWN button on the control.
4. Rotate the changeover switch and fully extent the platform by pressing the OUT button.



5. Rotate the changeover switch to UP/DOWN and raise or lower the platform as required.



**IMPORTANT** – Always stand to one side of the lift when opening the platform,  
Never in front of the platform.  
Rotate the External/Internal Changeover and remove the key to  
operate the lift from inside the vehicle.

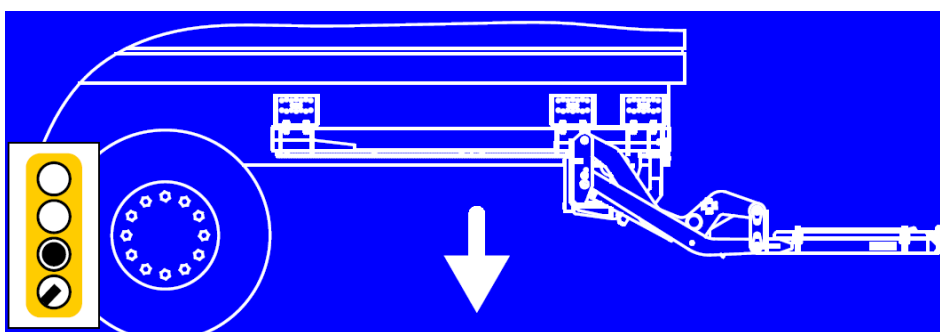


## 10. LOADING AND UNLOADING PROCEDURE

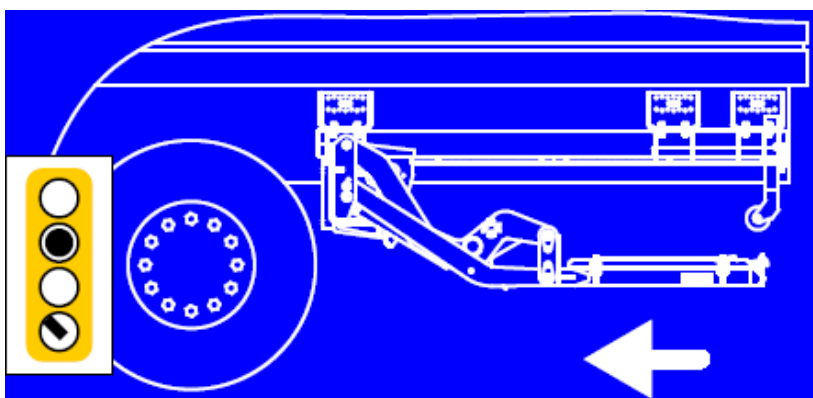
1. Evenly distribute the load on the platform, with the load centre as close to 0.6m from the vehicle edge of the platform as possible.
2. Make sure to leave enough room for the operator to stand when they intend to ride the platform and that wheeled loads are securely braked.
3. Power the lift up keeping feet away from the edge of the platform.
4. When the platform reaches bed height release the control button. Holding the control button on when the platform has reached its stop can damage the lift.
5. When loading from the vehicle onto the platform ensure that the safe working load of the lift is not exceeded as the overload may damage the unsupported platform.

## 11. OPERATING INSTRUCTIONS – STOW THE LIFT AWAY

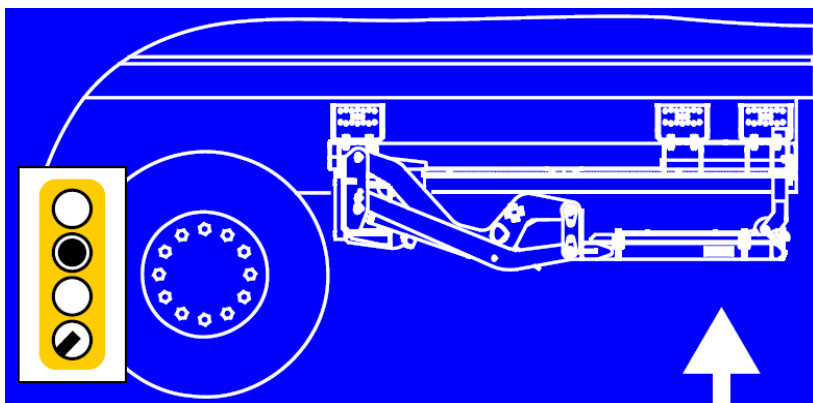
1. Close 3 way-folding ramps and fully lower the platform below the stow supports.



2. Rotate the changeover switch and retract the platform fully back by pressing the IN button until it hits the stop.



3. Rotate the changeover switch and raise the platform by pressing the UP button until it hits the stow supports.



**DEL IS A CARGOTEC BRAND**

# **MAINTENANCE HANDBOOK**

## **1. INTRODUCTION**

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Low maintenance requirements are an important benefit of the DEL tailift. There is a minimum of moving parts and no cables to fray. However, low maintenance does not mean NO MAINTENANCE – Attention to the simple monthly, seasonal and yearly program should ensure years of safe, trouble free work from your DEL tailift.

### **IMPORTANT**

The “duty holder” (owner/user /operator) of the tailift has a legal responsibility to ensure that the lift is safe to use at all times. These duties and responsibilities are documented in some detail in the LOLER 1998 and PUWER 1998 Regulations. Del has produced a document to provide advice to “duty holders” (tailift owners and users) to assist them to comply with Government Health & Safety Regulations. It also provides useful information for service engineers. This document (guide No. 4001.1) is available on request.



## 2. NOTES ABOUT LOLER AND PUWER REGULATIONS

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### RESPONSIBILITY

The DEL Tailift has been built to offer trouble-free and safe service for many years provided it is properly cared for. The “duty holder” (owner/user /operator) of the tailift has a legal responsibility to ensure that the lift is safe to use at all times. These duties and responsibilities are documented in some detail in the LOLER 1998 and PUWER 1998 Regulations. A copy of these Regulations and the relevant ANNEX 12: Thorough examination of a lorry tail lift are available from HSE Books.

### LIFTING OF PERSONS

The DEL lift has been designed primarily as a goods lift. We do not authorise its use as a passenger lift but it can be safely used to lift and lower the (properly trained) operator. There should never be more than one person (the operator) on the platform when it is being raised or lowered. When on the platform, the operator must have sole control of the upwards and downwards movements of the platform, this will minimise the risk of a fall or of trapping or crushing. Safety gates can be obtained, as an option, where the user believes there is a risk that the operator might fall from the raised platform. As an additional safety measure we recommend that the operator wears suitable safety shoes or boots, which are fitted with steel caps.

### THE COMPETENT PERSON

The LOLER Regulations make several references to a competent person. This person or persons has two separate responsibilities. The first one is to devise an **examination scheme** in terms of scope and frequency of examination for the tailift. The second is to carry out the recommended *Thorough Examinations* and inspections. This could be, but is not necessarily the same person, the skills and level of knowledge of the person is all-important. It is also very important that the competent person(s) who conducts the thorough examination is “independent” and free to report any faults without fear of recrimination.

### EXAMINATION SCHEME

This documented procedure provides details of what should be inspected and at what intervals. The person(s) who prepares the scheme must have a very good working knowledge of our lift. The Regulations provide a basic scheme for a *thorough examination* but if you are suitably qualified you may alter the frequency of inspections (within certain limits) and you may add other elements to the examination if you think it necessary. If you do not have easy access to a qualified person to prepare a suitable *examination scheme*, you may adopt this scheme, as detailed below. This scheme has been prepared by a “competent person” i.e. DEL’s own engineer(s) and if followed properly, it will comply with the LOLER Regulations. You will still be responsible for ensuring the examinations are carried out per schedule and for ensuring that an “independent” competent person carries out the inspections.

### 3. SAFETY INFORMATION

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#### HYDRAULIC SYSTEM

The hydraulic system uses high operating pressures and as such should be treated with caution. Never work on the lift while the system is under pressure, always lower the platform onto the ground before any maintenance of the system.

**WARNING** – High-pressure ejection of hydraulic fluid can cause serious injury. A ram in operation/under pressure has a large amount of stored energy.

## 4. MAINTENANCE PROCEDURE

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1. On a daily and weekly basis perform the checks as described below.
2. Before carrying out the service the tailift should be cleaned and inspected. We also recommend that it receive a Thorough Examination, just prior to the service. If the service engineer is shown a copy of a very recent *Thorough Examination* Report (within the last 7 days), and if he accepts that the *Thorough Examination* has been completed by a "competent person", he may decide not to repeat some or all of the checks in the service.
3. The service schedule gives details of regular service procedures. All of the procedures should be carried out at each service except the hydraulic oil change, which only needs to be done every 24 months. The appropriate part of the service record should be completed after each service.
4. Where major repairs are needed (see below); the additional service sheets should be completed. The post installation tests which refer to the replaced part need to be repeated i.e. if the power pack is replaced, the overload, drift and operating speed tests need to be repeated.

### USAGE

The maintenance schedule for lifts is given below. The time scale for the schedule is given below

Light use - An average of about 10 cycles per day at loads well below the safe working load of the lift - Service twice per year.

Normal use – An average of about 30 cycles per day at loads mostly below the safe working load – Service 3 times per year

Heavy use – An average of about 60 cycles or more per day at loads on or close to the safe working load – Service 4 times per year

The times given for the schedule are taken from the date of installation.

The need for regular, preventative maintenance is essential to the working life of the lift.

### ACCIDENT OR BREAKDOWN

In the event of an accident or breakdown, if the tail lift cannot be repaired immediately it must be put out of operation and secured against unauthorised use. Contact DEL service for assistance.

### MAJOR ALTERATIONS/REPAIRS

In the case of a major repair the service report (see page 30) should be completed. After such repair the tests after installation should be carried out to ensure the lift is set up and operating correctly and safely after the repair. A major repair is classed as one, which involves the replacement of parts due to failure or malfunction.

## REPLACEMENT PARTS

A complete list of service replacement parts can be obtained by contacting DEL Service.

## DAILY INSPECTIONS

At the beginning of each shift or working day that the equipment is in use the following routine inspections should be carried out, **by the trained and authorised person who will use the equipment (usually the truck driver)**. There is no need to keep any records of the inspection but if any faults or defects are found they must be communicated to the business manager/owner. This routine inspection, done at the depot, should normally take no more than a few minutes and could eliminate a lot of time and effort later in the day. If in any doubt the equipment should not be used until any serious defect has been dealt with. This may mean involving a “competent person” to inspect the lift.

- Ensure the runners are properly secured on the body, i.e. that the welds and or bolts are secure and tight.
- Check that the two retro reflectors are in place on the edge of the platform, if not ask for them to be ordered immediately.
- Check that all the warning decals are in the correct place.
- Check that the DEL plate is visible indicating the SWL.
- Check for oil leaks alongside the hydraulic system.
- Inspect the control buttons to ensure they work properly.
- Check the action of any folding ramps which may be fitted.
- Lower the platform to the ground then immediately raise it back to bed level. Ensure the movement is smooth with no grinding noises or unusual motor or pump noises.

The user should inform his business manager/owner of any problems. The business manager is responsible for ensuring proper action is taken.

It is not essential to log the outcome of these inspections but it is sensible to note any faults found and later comment when the fault has been put right.

## 5. THOROUGH EXAMINATION

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### Who may conduct the Thorough Examination?

Only a “competent person” may conduct the *Thorough Examination*. This person can be an employee of the business or (s)he can be brought in from outside the company, it is the skill, knowledge and “independence” of the person that is all important. DEL recommend that you use a service agent who has been approved by us to service and/or repair DEL lifts. This person will already have the necessary level of knowledge to service the lift and will be competent to go through our recommended *Thorough Examination* procedure (as detailed below) and document the results. A comprehensive list of DEL approved agents is available on request.

### When should the thorough examinations take place?

DEL authorise the tailift operator (but only the operator) to stand on the tailift in motion, and consequently the *Thorough Examination* must be done at least every six months. In exceptional circumstances the duty holder may be able to ensure that no person will ever stand on the tailift in motion, and may therefore decide that an annual *Thorough Examination* will suffice. In practise we believe that this would be very difficult to enforce and consequently we strongly advise that the examinations take place a minimum of every six months. In those situations where a tailift is subjected to arduous use (long periods of repeated usage with loads close to the rated capacity of the tailift), it will require more frequent examination. A Thorough Examination is also required after substantial or significant modification or repair.

Depending on the use of the lift, we recommend that the tailift is serviced between two and four times per year. We further recommend that the *Thorough Examination* is done by one of our approved service agents, it makes sense to have him conduct the *Thorough Examination*, prior to the service. It is essential however to ensure that the agent first conducts the *Thorough Examination*, then completes the necessary paperwork and then carries out the service. In the process the agent will put right any of the faults found, although more than one visit may be required if replacement components are necessary. The process might also involve making contact with DEL for advice and/or assistance. It is essential that the *Thorough Examination* report is written and filed prior to any service work being done. A competent person who fails to report a defect, simply because it has been remedied on the spot, is disguising a potentially dangerous situation.

Since much of the work involved with a *Thorough Examination* is required during a service, we recommend that a *Thorough Examination* is done prior to each service, i.e. twice, three or four times per year. If however you decide to separate the *Thorough Examinations* from the services you must ensure that a *Thorough Examination* is performed at least every six months.

### What should be examined?

Below is a list of what we recommend should be examined. The examiner may decide to expand on this list if he suspects a fault might exist elsewhere. We can presume a good deal of knowledge and skill from our approved service agents and hence it is not necessary to explain in detail, in this procedure,

exactly how to perform the examination, in fact we want to discourage the enthusiastic amateur from “having a go”.

Before commencing the examination the tailift should be cleaned to ensure no faults are hidden by dirt.

- Check that all decals and retro reflectors are present and in their proper place.
- Ensure the runners are properly secured on the body, i.e. that the welds and/ or bolts are secure and tight.
- Check runners for straightness and damage.
- Check the vehicle chassis is sound that all bracing is intact and secure.
- Check the condition of all switch controls. Are all buttons intact, the casing, control box (if fitted) and battery cables undamaged and that there are no loose wires.
- Check the action and condition of any folding ramps or stop devices which may be fitted.
- Lower the platform to the ground then immediately raise it back to bed level. Ensure the movement is smooth with no grinding noises or unusual motor or pump noises.
- Check that the tailift comes up to bed height and that the platform is level.
- Check there is adequate grease inside the runners.
- If Wear Pads are fitted, check they are properly secured and not excessively worn.
- Lower the platform approximately half way to the ground, then release the button and confirm the lift stops immediately. Raise the platform and before it reaches bed height release the button and confirm the lift stops immediately.
- Check Power Pack, solenoids etc. for loose wires. Check that the tamper proof cap is still intact on the Pressure Relief Valve, or that the valve may only be adjusted with a special tool.
- Check all hose connections to the RAM's and ensure that the Lock/Check Valve is secure.
- Check the oil level in the tank is correct and that there are no oil leaks.

The “standard” Thorough Examination is now complete. (see Weight Test point 1.5.3.4)

If a service is not to follow, the paperwork completed and distributed.

If, as we recommend, the service agent has already been authorised to conduct a service (see point 1.6), the paperwork can be completed and distributed. The service agent will then already know if any components need repair or replacing and he can commence work straightaway. The time to service the tailift is therefore minimised without compromising safety.

### LOAD (OR WEIGHT) TEST

Provided the examiner can see that the tailift is in good condition and that it plus its bracing has not undergone any structural repair, and if he has evidence that the tailift has been Load Tested at least once in the past (every tailift should have been load tested just after installation), **there is no need to carry out any further Load Tests.**

If however the examiner has reason to believe the tailift has deteriorated (or the lift has undergone substantial modification) since the last Load Test, he should inform the duty holder and request a Load Test be arranged immediately. In such instances we recommend the examiner should forbid the use of the tailift until the tailift has passed the Load Test.

It has been “custom and practise” to have tailifts Load Tested annually (or in some cases every six months), for example this may be a condition of your insurance policy. In such circumstances you should comply with your insurer’s demands.

The DEL service agent will be trained and authorised carry out the Weight Test. Damage can be caused to the tailift should the Load Test be performed by an untrained person.

### PAPERWORK FLOW

The “competent person” will be fully conversant with the Regulations and will ensure that any faults are properly recorded and communicated to the relevant responsible people. He is responsible for determining the timing by when all faults need to be corrected and in extreme circumstances he must be given the authority to forbid the use of the tailift until the necessary repairs are done.

The DEL agent will normally have his own company forms on which to record any faults and his comments, however a standard DEL form (D003), which meets the Regulations is available.

### SERVICING THE TAILIFT

#### How often should it be serviced?

Although the servicing of a DEL lift is straightforward, we strongly recommend it is done only by trained and authorised DEL service agents. The frequency of the services will depend on the how often the tailift is used and how often it is required to lift loads close to the SWL.

We recommend that it be serviced either three or four times per year. This will be satisfactory in the vast majority of cases, but if in practise this proves to be insufficient, we recommend you contact the DEL Technical Department for

advice (in case there is a fault). In exceptional circumstances the frequency of services could be increased.

If the tailift sees only "light use" i.e. the load is usually well below the SWL and the tailift is used only a few times per day, it may be sufficient to carry out the service every six months. In no circumstances would we recommend servicing the lift less than twice per year.

### THE SCOPE OF THE TAILIFT SERVICE.

Before carrying out the service the tailift should be cleaned and inspected. We also recommend that it receive a Thorough Examination, just prior to the service.

The service agent should refer to his recent Thorough Examination report before starting work. If no report can be made available, and if he has not been contracted to carry out a Thorough Examination, the service engineer will have to carry out an inspection, as part of the service, to establish if any faults need correction. There are therefore two levels of service.

#### Service immediately following a Thorough Examination

- Replace any damaged or missing warning decals or flags.
- Tighten or replace any loose or missing nuts or bolts
- Grease the platform hinge pin grease nipples where provided.
- Add oil (ATF Dextron 2) to the tank if necessary.
- If necessary re-align the platform
- Operate the lift a couple of times and ensure everything operates smoothly.
- Make a note of any further faults found which have come to light after the Thorough Examination has been documented, and list any work which has not been completed together with any replacement components, which may be required.
- Complete the standard paperwork and file your report.

The above list represents the "Standard DEL Recommended Service", ensure you ask your chosen DEL service agent to include for all of the above in his quoted price. The cost of any additional repair work, including that identified on -



the Thorough Examination, which needs to be done and any replacement components required will not normally be included in the price for the service. If the work is not being done under warranty or under a maintenance agreement the additional work will be charged for, either on a time and materials basis or for an agreed fixed price.

Service undertaken without the inclusion of a Thorough Examination.

The duty holder may decide to engage another qualified “competent person” to carry out the Thorough Examination and may want the DEL service engineer to only carry out the service. Del, however, do not recommend that a service be done “blind” and hence an inspection of the tailift is essential in order to ensure the lift will operate properly and safely. Nor can we recommend that any of the checks, which are listed in the Thorough Examination, be omitted from this inspection. The service engineer will therefore need to go through the same checks as in the Thorough Examination (without the need to record his findings on the form) and then complete the service as described above.

If the service engineer is shown a copy of a very recent *Thorough Examination* Report (within the last 7 days), and if he accepts that the *Thorough Examination* has been completed by a “competent person”, he may decide not to repeat some or all of the checks, and instead carry out the service as though he had completed the *Thorough Examination* himself.

## 6. TAILIFT SERVICE RECORD

---

Vehicle reg. No..... Tailift Model.....

Lift Serial No..... Date of Manufacture.....

### Service 1 (4 Months)

Date.....

Company.....

Address.....

Signed.....

Pint Name.....

Comments.....

.....

.....

### Service 2 (8 Months)

Date.....

Company.....

Address.....

Signed.....

Pint Name.....

Comments.....

.....

.....

### Service 3 (12 Months)

Date.....

Company.....

Address.....

Signed.....

Pint Name.....

Comments.....

.....

.....

### Service 4 (16 Months)

Date.....

Company.....

Address.....

Signed.....

Pint Name.....

Comments.....

.....

.....

### Service 5 (20 Months)

Date.....

Company.....

Address.....

Signed.....

Pint Name.....

Comments.....

.....

.....

## Service 6 (24 Months)

Date.....  
Power pack hydraulic oil changed?.....Y/N  
Company.....  
Address.....  
Signed.....  
Pint Name.....  
Comments.....  
.....  
.....

## Service 7 (28 Months)

Date.....  
Company.....  
Address.....  
Signed.....  
Pint Name.....  
Comments.....  
.....  
.....

## Service 8 (32 Months)

Date.....  
Company.....  
Address.....  
Signed.....  
Pint Name.....  
Comments.....  
.....  
.....

## Service 9 (36 Months)

Date.....  
Company.....  
Address.....  
Signed.....  
Pint Name.....  
Comments.....  
.....  
.....

## 7. TAILIFT SERVICE SCHEDULE

---

The following points must be carried out at each service, with the exception of the hydraulic oil change, which must be done every 24 months.

1. Check that all decals are in place (see installation and operators handbook for decal locations)
2. Ensure that the lift is securely mounted to the vehicle and that the bolts are secure and tight.
3. Check the runners for straightness and damage.
4. Check that the vehicle chassis is sound and that lift is secure.
5. Check the condition of all switch controls. Are all buttons intact, the casing, control box (if fitted) and battery cables undamaged and that there are no loose wires.
7. Check the action and condition of any folding ramps which may be fitted.
8. Lower the platform to the ground then immediately raise it back to bed level. Ensure the movement is smooth with no grinding noises or unusual motor or pump noises.
9. Check that the tailift comes up to bed height and that the platform is level. Adjust if necessary following the procedure detailed in the installation handbook.
10. Lower the platform approximately half way to the ground, then release the button and confirm the lift stops immediately. Raise the platform and before it reaches bed height release the button and confirm the lift stops immediately.
11. Operate the controls to stow the platform, ensure it is safely retained against the stops.
12. Check Power Pack for leakage. Check that the tamper proof cap is still intact on the Pressure Relief Valve, or that the valve may only be adjusted with a special tool.
13. Check all hose connections to the RAMs. If fitted ensure that the Lock/Check Valve is secure.
14. Check all electrical joints and wiring for corrosion, damage or looseness and spray with WD40 or equivalent.
15. Check the oil level in the tank is correct and that there are no oil leaks.
16. Change the hydraulic fluid (every 24 months). With the platform on the ground, remove the powerpack cover. Disconnect the hose where it connects on to the hydraulic motor ram/ram lock valve and place in a container to catch the hydraulic fluid. Press the up button to drain the tank, note that short sharp pushes will help empty the tank. It may not be possible to completely drain the oil from the tank as a small amount of oil will be below the suction pipe in the tank. Reconnect the hose before filling the tank with new oil (Automatic transmission fluid or Shell T22 is recommended). Prime the pump by pressing the raise and lower buttons simultaneously. Raise and lower the platform a couple of times and check for any oil leaks. With the platform on the ground check that the oil level is up to the max mark before closing the power pack box.

## 8. RECORD OF MAJOR REPAIRS

---

DATE.....

FAULT.....

.....  
.....

CLAIMED UNDER WARRANTY YES/NO?

PARTS PURCHASED.....

.....  
.....

TESTS COMPLETED ON PARTS FITTED

.....

REPAIRED BY.....

COMPANY NAME & ADDRESS.....

.....  
.....

DATE.....

FAULT.....

.....  
.....

CLAIMED UNDER WARRANTY YES/NO?

PARTS PURCHASED.....

.....  
.....

TESTS COMPLETED ON PARTS FITTED

.....

REPAIRED BY.....

COMPANY NAME & ADDRESS.....

.....  
.....

## 9. HYDRAULIC/ELECTRICAL/MECHANICAL FAULT FINDING CHART

---

<u>FAULT</u>	<u>REASON</u>
Will not Lift	<p><u>Motor not running</u></p> <ul style="list-style-type: none"> <li>Fuse blown</li> <li>Check power to motor</li> <li>Check starter switch</li> <li>Check wiring to starter switch</li> <li>Faulty earth</li> <li>Faulty push button</li> <li>Seized pump</li> </ul> <p><u>Motor runs fast</u></p> <ul style="list-style-type: none"> <li>Pump scored and slipping</li> <li>Solenoid valve contaminated</li> <li>Relief valve contaminated or not set high enough</li> <li>Ram seal or rod scored</li> <li>Coupling between pump and motor broken</li> <li>No oil/low oil level</li> </ul> <p><u>Motor runs slowly</u></p> <ul style="list-style-type: none"> <li>Bad electrical connection to battery or earth</li> <li>Battery flat</li> <li>Motor bushes worn</li> <li>Hydraulic line blocked, hose collapsed, flow control closed or incorrectly fitted</li> <li>Wrong size of pump fitted</li> <li>Mechanical damage to tailift</li> <li>Suction filter blocked</li> </ul>
Lift will not lift load or part load	<ul style="list-style-type: none"> <li>Relief valve setting too low or contaminated</li> <li>Pump scored</li> <li>Oil too thin</li> <li>Low oil level</li> <li>Solenoid valve contaminated</li> </ul>
Lift will not lower	<ul style="list-style-type: none"> <li>Solenoid wire or coil failure</li> <li>Electrical push button failure in switch or wiring</li> <li>Mechanical damage</li> </ul>
Lift lowers slowly	<ul style="list-style-type: none"> <li>Oil too thick</li> <li>Collapsed hose or blocked hydraulics line</li> <li>Solenoid valve jamming or incorrectly set by manufacturer</li> <li>Flow control blocked or incorrectly set or fitted.</li> </ul>

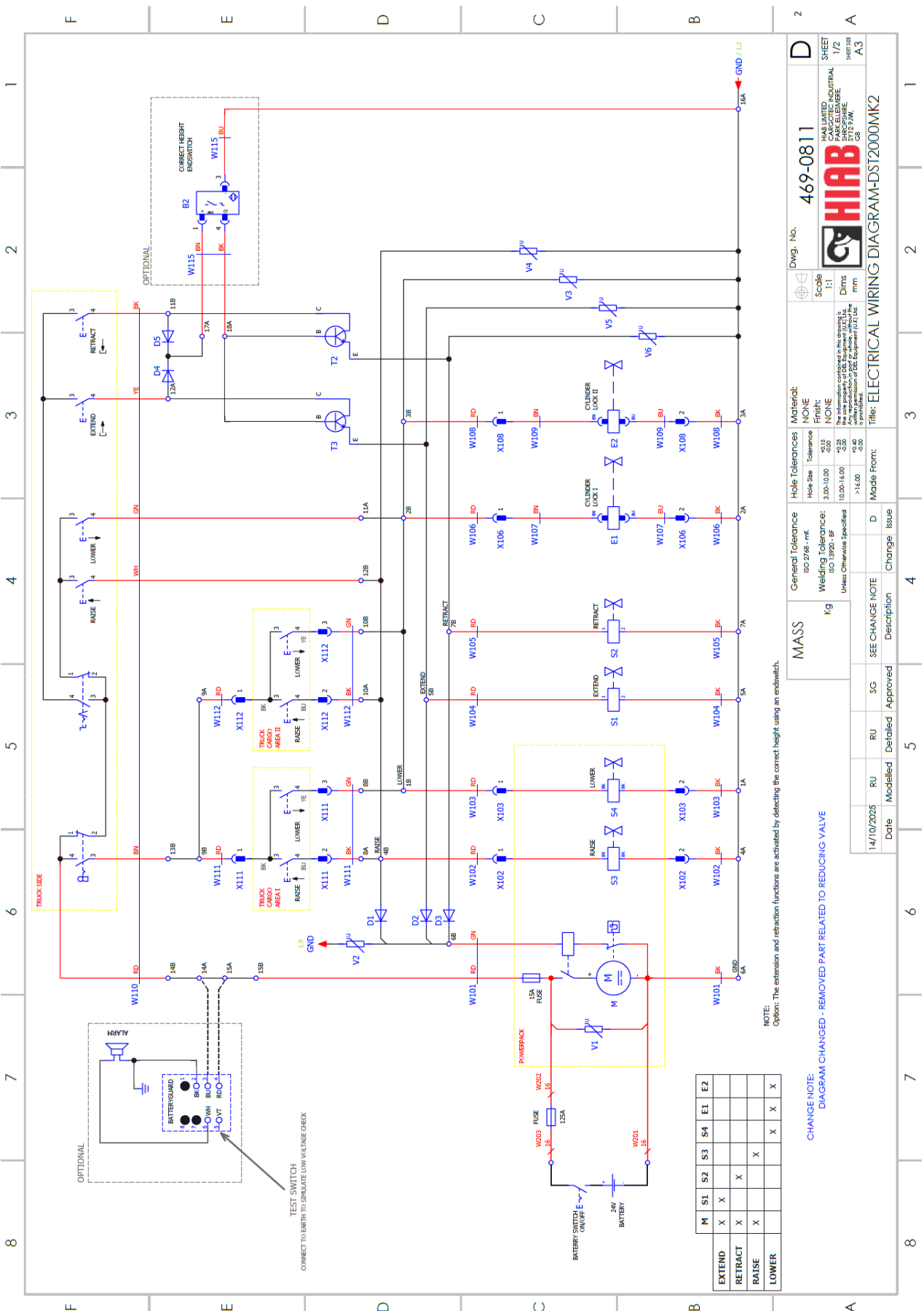
Lift creeps down	Solenoid valve leaking Check valve leaking Oil leak Pipe leaking Ram seal leaking Pump casting porous
Lift only raising partially	Not enough oil Suction filter blocked Tank filter breather blocked or shipping plug fitted Mechanical damage Relief valve set too low
Pump unit noisy	Oil too thick Not enough oil Suction filter blocked Relief valve not set high enough Motor bearing or bushes worn

## CHECK PROCEDURES

Tools	Pressure gauge Avo meter Earth strap
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1. Ensure a good electrical supply is reaching the motor and control switches, good earth is essential.
2. Check hydraulic pressure when lifting an empty load, full load and at relief valve setting. Relief pressure should be approximately 10% higher than maximum pressure when lifting Safe Working Load (SWL).

## 10. ELECTRICAL WIRING DIAGRAM





TERMINAL NO.	WIRE	CONNECTION SIDE A : FUNCTION	WIRE	CONNECTION SIDE B : FUNCTION
1	W103-BK	SOLENOID (S4) - GND	W103-RD	SOLENOID (S4) - LOWER
2	W106-BK	SOLENOID (E1) - GND	W106-RD	SOLENOID (E1) - CYLINDER LOCK
3	W108-BK	SOLENOID (E2) - GND	W108-RD	SOLENOID (E2) - CYLINDER LOCK
4	W102-BK	SOLENOID (S3) - GND	W102-RD	SOLENOID (S3) - RAISE
5	W104-BK	SOLENOID (S1) - GND	W104-RD	SOLENOID (S1) - EXTEND
6	W101-BK	M (BATTERY -)	W101-GN	SOLENOID (M) - PUMP
7	W105-BK	SOLENOID (S2) - GND	W105-RD	SOLENOID (S2) - RETRACT
8	W111-BK	TRUCK CARGO AREA I - RAISE	W111-GN	TRUCK CARGO AREA I - LOWER
9	W112-RD	TRUCK CARGO AREA II - POWER SUPPLY	W111-RD	TRUCK CARGO AREA I - POWER SUPPLY
10	W112-BK	TRUCK CARGO AREA II - RAISE	W112-GN	TRUCK CARGO AREA II - LOWER
11	W110-GN	TRUCK SIDE - LOWER	W110-BK	TRUCK SIDE - RETRACT
12	W110-YE	TRUCK SIDE - EXTEND	W110-WH	TRUCK SIDE - RAISE
13		not connected	W110-BN	TRUCK SIDE - POWER S. TRUCK CARGO AREA
14	Blue	BATTERYGUARD	W110-RD	TRUCK SIDE - POWER SUPPLY
15	Red	BATTERYGUARD	W101-RD	L+ (BATTERY +)
16	W115-BU	ENDSWITCH (B2) - GND		not used
17	W115-BN	ENDSWITCH (B2) - POWER SUPPLY		not used
18	W115-BK	ENDSWITCH (B2) - CORRECT HEIGHT		not used
19		not used		not used

NOTE:  
When connecting BATTERYGUARD, remove the jumper between terminals 14A-15B and connect BATTERYGUARD according to the table above.  
When connecting the CORRECT HEIGHT LIMIT SWITCH, remove the jumper between terminals 17A-18A and connect cable W115 according to the table above.

Dwg. No. 469-0811		Scale 1:1		Material: NONE		Hole Tolerances		General Tolerance		Mass		Title: ELECTRICAL WIRING DIAGRAM-DST2000MK2	
Finish: NONE		Dwg. No. 469-0811		Hole Size		Tolerance		ISO 2768 - mK		Kg		D	
Hole Size		Tolerance		Hole Size		Tolerance		Welding Tolerance:		Description		Change	
3.00-10.00		+0.00		3.00-10.00		+0.00		ISO 17923 - B		SEE SHEET 1		D	
10.00-14.00		+0.00		10.00-14.00		+0.00		Unless Otherwise Specified		Approved		5	
> 14.00		+0.00		> 14.00		+0.00		Made From:		RU		6	
Date		14/10/2025		Modelled		RU		Detailed		RU		7	
Sheet		2/2		Dwg. No. 469-0811		Scale 1:1		Material: NONE		Description		8	
Hole Size		Tolerance		Hole Size		Tolerance		Welding Tolerance:		Approved		9	
3.00-10.00		+0.00		3.00-10.00		+0.00		ISO 17923 - B		SEE SHEET 1		10	
10.00-14.00		+0.00		10.00-14.00		+0.00		Unless Otherwise Specified		Approved		11	
> 14.00		+0.00		> 14.00		+0.00		Made From:		RU		12	

Diagram illustrating the hydraulic system for a 2000MK2 valve actuator. The system includes a 2000MK2 valve actuator (1) connected to a 2000MK2 valve (2). The actuator is powered by a 24VDC solenoid (3) and a 24VDC solenoid (4). The valve is controlled by a 2000MK2 valve (5) and a 2000MK2 valve (6). The diagram includes a 2000MK2 valve (7) and a 2000MK2 valve (8). The diagram is a schematic representation of the hydraulic system.



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## DEL WARRANTY REGISTRATION FORM

REGISTER YOUR DEL TAILIFT AND OBTAIN UPDATED  
INFORMATION ON THE DEL RANGE

PLEASE PRINT CLEARLY.

1. Purchasers name:
2. Address:  
Town:  
County:  
Postcode: Tel No:  
Position:
3. Form completed by: Serial No:
4. Type of business:
5. Model purchased:
6. Truck make/model/reg.
7. Date purchased:
8. Purchased from:
9. Lift installed by:
10. Were you satisfied with the installation of this unit?
11. Were all warning decals affixed to the tailift?
12. Number of tailifts you now operate?  
Of these, how many are DEL units?  
What other makes of tailift do you own?
13. Was this purchase a replacement?
14. Why did you select a DEL tailift?
  - Owned a DEL unit previously
  - Dealer recommended it
  - Colleague recommended it
  - Advertisement (Name of magazine)
  - Received literature in post
  - Price
  - Other (Please specify)
15. Are you planning to buy additional lifts within the next six months?

Thank you for completing this registration form. Once completed please return the form to DEL Equipment (U.K.) Ltd at the address above.

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