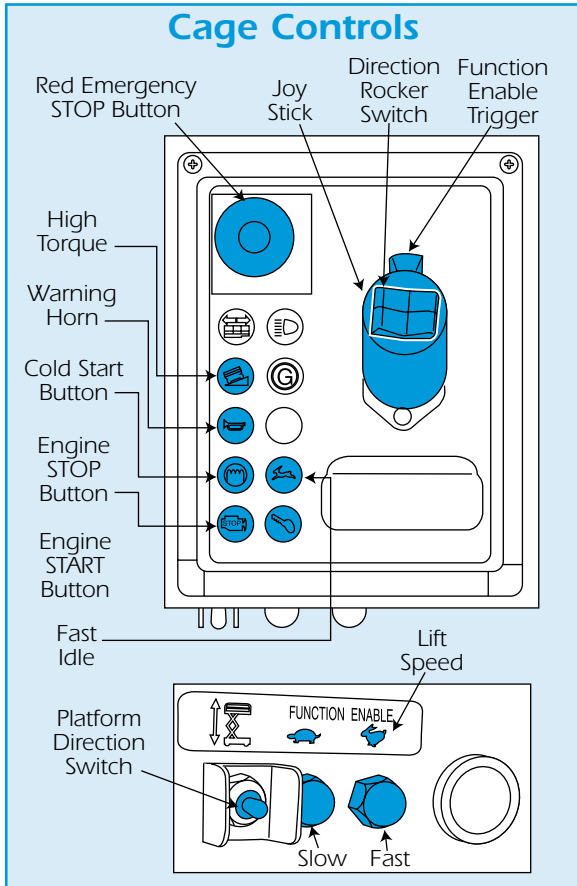


Raise the cage 2 metres and drive the unit to check that the unit travels at a reduced speed when the cage is raised. Once these checks have been made and you are satisfied that the drive controls are functioning correctly, the lift can be controlled safely.

Attach your safety restraint harness to the anchorage point in the cage. Please note that a fall arrest harness is not suitable for use in this unit, if in doubt, contact your local HSS Lift & Shift Depot.

## BASIC TECHNIQUES



The cage controls consist of two separate switch systems. The drive system is controlled by the joystick, whereas the controls for raising and lowering the platform consist of a direction switch and two lift speed buttons.

To raise the platform, press and hold either the fast (hare) or slow (tortoise) lift speed button, then move the direction switch up. Once the platform is at the required height, release both switch and button.

To lower the platform, press and hold either the fast (hare) or slow (tortoise) lift speed button, then move the direction switch down. Once the platform has descended to the required height, release both switch and button.

To drive, squeeze in the function enable trigger and push the joystick forward to move forwards, pull back to reverse.

If attempting to drive up a slope, press the high torque (slow / high gradient) button.

The further forward (or backward) the joystick is moved, the faster the unit will travel.

The unit is steered by operating the joystick's thumb-switch to turn the wheels left or right.

A warning beeper will sound automatically whenever the unit is reversing or descending.

In an emergency, movement can be halted either by releasing the joystick or by striking the emergency STOP button.

There is a power take off (PTO) socket within the platform to enable the operator to use electric power tools. The PTO plug is located at the rear of the units base. DO NOT connect the PTO plug to a power supply when the unit is being driven.

The cage can be extended to enable additional access to awkward areas. To deploy the extension, raise the lock bar, which is also used to push and pull the cage extension.

Push the bar to move the cage forward and once the cage has been extended by the amount required, lower the bar.

Never stand on the cage rails or use boxes or stepladders to gain extra height. Never reach too far out over the side of the cage.

Take care when driving the unit, particularly with the cage elevated and/or when reversing. Watch where you are going, especially for obstructions and other hazards – both overhead and at ground-level.

When fully lowered the unit can be driven at up to 3.8 miles per hour, when raised the speed is reduced to a maximum of 0.5 miles per hour.

## Manual Descent

If the lift loses power, lower the cage to the ground as quickly as possible.

The lowering controls will be found within the base units' left-hand compartment.

The cage can be lowered by opening the manual lowering valve, simply pull the manual descent valve.

Once pulled the cage will begin to descent immediately.

Once lowered, release the valve.

Do not use the lift after a manual descent if the unit has suffered any form of mechanical failure, as the hydraulics will require re-setting. Remove the key and press all red emergency STOP buttons, then contact your local HSS Lift & Shift Depot for a replacement unit.

## EQUIPMENT CARE

Never use this lift for anything other than its intended purpose. If it will not do what you want with reasonable ease, assume you have the wrong type or size of unit for the job. Contact your local HSS Lift & Shift Depot for advice.

Keep the equipment clean. You will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

Check the oil level before starting and every 8 hours thereafter. Withdraw the dipstick, wipe it clean, and then replace it. Remove it a second time to verify that the oil level is between the min and max lines. Top up if necessary.

Regularly check the fuel level. Use the correct fuel: Diesel. When not in use, store the equipment somewhere clean, dry and safe from thieves and unauthorised users.

## FINISHING OFF

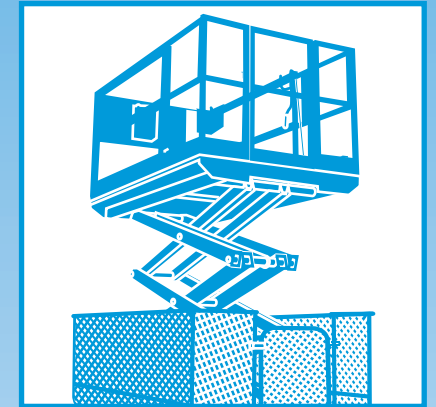
Lower the cage as far as it will go using the cage controls.

Park the unit on level ground and stop the engine. Turn the ground control key to the OFF position and remove the key. Give the unit a final clean, ready for return to your local HSS Lift & Shift Depot.

## Operating & Safety Guide LS118

LS118/01

# HSS Lift & Shift



# Rough Terrain Scissor Lift

A diesel powered, four-wheel drive platform lift with a working height of 9.8 metres.



## ...any comments?

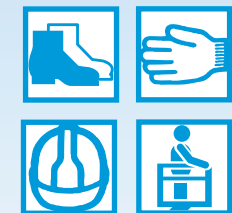
If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below

Fax: 020 8687 5001

©HSS Hire Service Group Plc 2002 No. LS118/01

Group Office: 25 Willow Lane, Mitcham, Surrey CR4 4TS

Web Site: <http://www.hss.com/liftandshift>



Code 69989

## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Lift & Shift Depot.


There is a **serious risk of personal injury** if you do not follow all instructions laid down in this guide.

The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.


This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment is designed to be used by an able bodied, competent adult who has read and understood these instructions and any other accompanying. Anyone with either a temporary or permanent disability should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from your local HSS Lift & Shift Depot.

 Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

 Wear practical, protective clothing, gloves, footwear and a protective hard hat. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

 You are advised to wear a personal restraint harness when using this equipment. Available on sale or return from your local HSS Lift & Shift Depot.

Do not work near flammable gases or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance – at least 5m.

Make sure you know how to switch this equipment OFF before you switch it ON in case you get into difficulty.

## Exhaust Danger

Never operate diesel engines in a confined space. The exhaust contains gases that can kill.

Engines, especially the exhausts, get very hot so switch OFF and allow to cool before touching them.

Make sure you know how to operate this equipment safely and are aware of its limitations before you use it.

Make sure that anyone in the immediate work area is warned of what you are doing.

This machine is designed for internal or external use, however when used indoors the maximum number of occupants must not exceed four and when used out doors, the maximum is two.

Never use the lift near overhead power lines or similar hazards. Never use the lift in windy conditions, maximum of 17mph / Beaufort scale 4.

Never exceed the equipment's safe working load of 567Kg. Note that when the extending platform is deployed, the SWL must be carefully distributed. A maximum of 136Kg on the extension and up to 431Kg on the main platform area.

Never operate the equipment alone. Ensure a competent adult is always within shouting range to operate the

manual descent system or come to your aid if anything should go wrong.

## Fuel Safety

**NEVER** refuel while the engine is hot or running.

**NEVER** smoke or allow naked lights into the refuelling area.

**ALWAYS** mop up spilt fuel quickly and change clothes if you get any on yourself.

**ALWAYS** store fuel in suitable sealed containers, in a cool, safe place, well away from the work area.

This equipment is **NOT** insulated, do not use the lift within 9 metres of any electrical power line supported from wooden poles or within 15 metres if suspended from steel towers.

**Only use this equipment on firm, level ground capable of supporting its weight.** DO NOT use it on slopes, soft ground or where there is a risk of subsidence.

Ensure the tyres are in a roadworthy condition. Having said that, this machine must NOT be driven on a public highway.

Check the equipment's condition before use and at regular intervals thereafter. If it shows signs of damage or excessive wear, DO NOT USE IT. Return it to your local HSS Lift & Shift Depot.

For additional information please refer to the manufacturer's operator's manual.

## Pre-Operation Inspection

It is the responsibility of the operator to perform a pre-operation inspection.

The pre-operation inspection is a visual inspection performed by the operator prior to each work shift. The inspection must be performed before the operator performs the function tests in GETTING STARTED.

Check each of the items and locations for modifications, damage or loose or missing parts.  
Check for hydraulic oil leaks and correct oil level.  
Check for battery fluid leaks and correct fluid level.  
Check the following components for damage or missing parts:

- Electrical components, wiring and electrical cables.
- Hydraulic power unit, tank, hoses, fittings, cylinders and manifolds.
- Tyres and wheels.
- Nuts, bolts and other fasteners.

Platform entry mid-rail bar or gate and platform extension.

Platform control joystick.

Check for cracks in welds or structural components, dents or damage to the machine.

Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.

A damaged machine must never be used. If damage is discovered, the machine must not be used. Contact your local HSS Lift and Shift Depot for a replacement machine.

Repairs to the machine may only be made by a qualified HSS service technician.

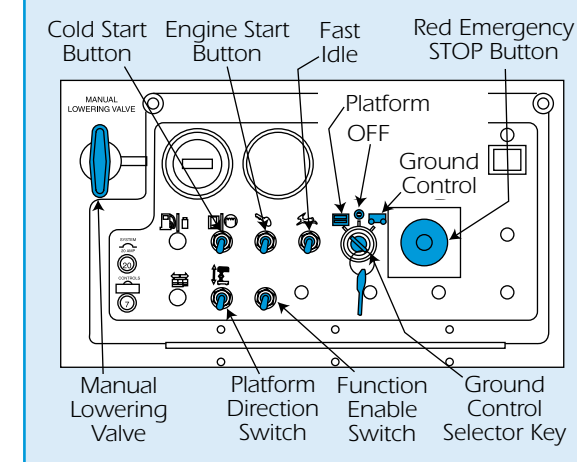
## GETTING STARTED

Familiarise yourself with the work area, check for possible hazards such as potholes, ramps, slopes and overhead obstructions that could affect the safe use of the equipment.

Always read the decals attached to the lift for additional information.

With the lift parked on level ground, check the engine oil and fuel levels (see 'EQUIPMENT CARE').

## Ground Controls



Turn the ground control selector key to the 'ground control' position and check that the red emergency STOP button is in the ON position. To reset the STOP button, simply pull it out.

If the engine is cold, press the cold start button for six seconds before pressing the engine start button.

Keep your hands and feet well away from the machine when operating from ground level. Be aware of moving parts.

Once the engine is running, move the platform direction switch up and the function enable switch up, to raise the platform then down to lower it.

The last ground control test is to simulate a machine failure and test the manual descent system.

Raise the platform again to approximately 1 metre, then turn the ground control selector key to the 'OFF' position and press the red emergency STOP button.

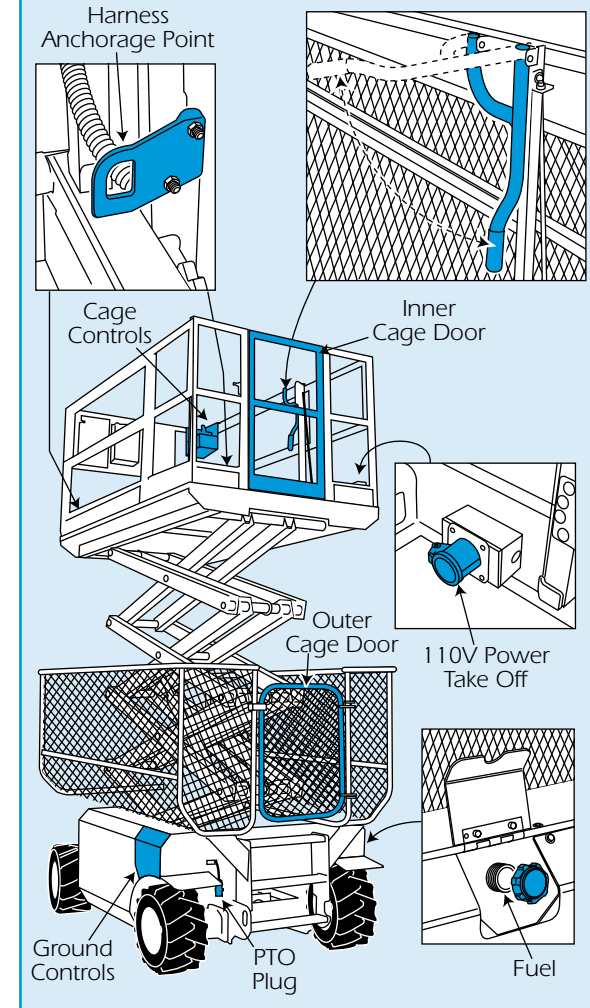
Pull and hold the manual lowering valve until the cage is fully lowered, then release the button. If the cage has lowered correctly the test is complete, if not, do not use the unit and contact your local HSS Lift and Shift Depot for advice.

Turn the ground control selector key to the 'platform' position and check that the red emergency STOP button is in the ON position. You can now close and lock the compartment.

Open the outer and inner cage doors, enter the cage and make sure that both doors lock shut. Check that the red emergency STOP button is in the ON position.

You must now start the engine using the cage controls. If the engine is cold, press the cold start button for six seconds before pressing the engine start button.

## Rough Terrain Scissor Lift



Taking great care, squeeze and release the function enable trigger on the cage control joystick, the engine speed should increase then return to fast idle.

Next move the direction rocker switch to the left then to the right and make sure that the front wheels turn as the switch is depressed.

Finally, squeeze in the function enable trigger and carefully push the joystick forward then backward and make sure the unit moves forward then backward.

Raise the platform, press and hold either the fast (hare) or slow (tortoise) lift speed button, then move the direction switch up. Once the platform is approximately 1 metre high release both switch and button.

Lower the platform by pressing and holding either the fast (hare) or slow (tortoise) lift speed button, and moving the direction switch down. Once the platform has descended, release both switch and button.