ELEVATION

The Outreach Platform has two methods of elevation, the mast and the jib. Raising the cage on its own will have an outreach of approximately 3m from the ground. If the cage is raised so that it forms a right angle to the mast it will reach 3m from the centre of the unit. Raising the mast will reach a maximum height of 7m. Raising the cage to its maximum height with the mast fully extended will reach a working height of 10m. (see working area).

To raise the cage turn the "Function selector" to the right. Using "Movement selectors" you can rise and lower the cage as well as adjust to left and right.

To rise the mast turn to the middle, then navigate using up and down "Movement selectors".

CAUTION

WHEN LOWERING THE CAGE IT WILL MOVE QUICKLY DOWNWARDS. ENSURE THAT YOU AND YOUR PASSENGER ARE HOLDING ON TO THE CRADLE BEFORE LOWERING THE CAGE.

ACTIV' SHIELD BAR: SECONDARY GUARDING (IF FITTED)

This is a device designed to reduce the risk of entrapment against the control panel when the platform is in confined spaces.

The **ASB** is active when elevated and is inactive when the machine is in lowered position or stopped.

Light **(1.)** on: **ASB** is active.

If the **ASB** is pushed forward all movements are stopped. Only movements to move away from the entrapment are authorised.

To re-set the **ASB**: Release the bar, "enable switch" and controls, then re-press the "Enable switch" or the "RESET" button **(2.)**

EMERGENCY LOWERING

Emergency lowering is required **if the operator in the platform is no longer capable of controlling the movements** even though the machine operates normally.

An operator on the ground, trained in using the emergency controls and in possession of the starter key, can **use the lower console with the main power source to lower the operator in the platform.**

In case of emergency **push the emergency stop button** (located on the upper console and lower turret front panel).

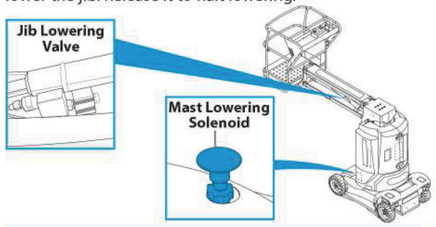
To recover the platform using the lower console **switch the key downwards to activate the lower console.** Now the controls of the upper console are de-activated. In lower console press the **mast telescoping selector.** Using movement selector to bring the machine down.

LOWERING MAST AND JIB MANUALLY

The **manual lowering** function allows the operator **descend mast in case of failure of the main power source.**

To **lower the mast** pull the mast lowering **solenoid valve** control to lower the mast. Release it to halt lowering.

To **lower the jib** press the centre of the **solenoid valve** to lower the jib. Release it to halt lowering.



PRE-OPERATION CHECKLIST

- [ ] Make sure the environment condition is suitable to use the platform (e.g. wind speed, temperature...)
- [ ] Make sure the ground surface is capable of supporting the load
- [ ] Visually check to ensure there are no cracks, missing or loose parts, there is no leak of oil or battery acid
- [ ] Ensure you check the operator decal for the correct SWL
- [ ] Check the condition of cylinders (leakage, rust, traces of wear and tear, scratch, foreign body, etc.).
- [ ] Ensure that the batteries are fully charged
- [ ] Check the condition of the wheels / tyres.
- [ ] Check condition of the limit sensors.
- [ ] Check condition and connection of the electric wires and cables.
- [ ] Check hydraulic oil level.
- [ ] Check condition of the controls/consoles.
- [ ] Check condition of the guard rail and the midrail.

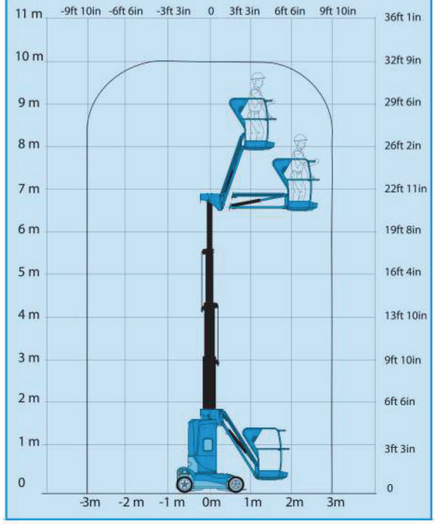
ELECTRICAL SAFE DISTANCE

Electric voltage	Minimum safety distance
0 - 30 V	Avoid contact
50 - 200 V	5m (15ft)
200 - 350 V	6m (20ft)
350 - 500 V	8m (25ft)
500 - 750 V	11m (35ft)
750 - 1000 V	14m (45ft)

WIND DESCRIPTION

Wind Description	Beaufort Scale	Beaufort No.	Speed in m.p.h	Speed in m/sec
Medium Breeze	Raises dust and loose paper, twigs snap off	4	8-12	4-6
Strong Breeze	Large branches in motion, telegraph wires whistle	6	25-31	11-14
Gale Force	Walking is difficult	8	39-46	17-21

WORKING AREA



EQUIPMENT CARE

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease, assume you have the wrong equipment for the job. Contact your local HSS Hire 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.

When not in use, store the equipment somewhere clean, dry and safe.

FINISHING OFF

Lower the cage and mast, disconnect the safety restraints from the cage, recharge the batteries. Give the unit a final clean up ready for return, to your local HSS Hire

any problems
Contact your local HSS Hire
0345 728 2828
We are here to help!

... have you been trained

The law requires that personnel using this type of equipment must be competent and qualified to do so. Training is available at HSS Training
03457 66 77 99

...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below
e-mail: safety@hss.com

©HSS Hire Service Group Ltd 2019 No. LS143/03

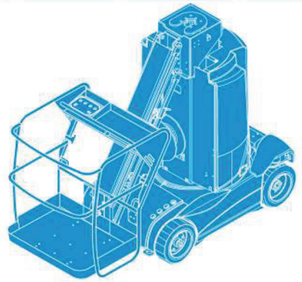
76 Talbot Road, Old Trafford, Manchester, M16 0PQ

Web Site: http://www.hss.com

LS143/03

Operating & Safety Guide LS143

HSS Hire



Self Propelled Outreach Platform

Compact but versatile battery powered platform with maximum working height of 10m and maximum outreach of 3m.

Code 69954/69955

GENERAL SAFETY

For advice on the safety and suitability of this equipment **contact your local HSS Hire.**
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 should be used by an able bodied, competent adult who has read and understood these instructions. 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 Hire.
Never use this equipment if you are **ill, feeling tired,** or **under the influence of alcohol or drugs.**
Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.
You are advised to wear a personal restraint when using this equipment. Available on sale or return from HSS Hire.
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.
Never operate the equipment alone. Ensure a competent adult is always within shouting range to come to your aid if anything should go wrong.
Maximum two persons are allowed to work on platform.
Never use the lift near overhead power lines or similar hazards.
Never operate the machine when at the temperatures higher than 45 °C and lower than -15 °C.
Never exceed the Safe Working Load, HSS Hire have two versions of this self propelled platform, one at 200kg and one at 230kg. Ensure you check the operation decal for the correct SWL.
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 condition of the equipment before use. If it shows signs of damage or excessive wear, return it to HSS Hire.
Never use the platform as a goods lift or crane.
Never extend the height of the platform by using boxes, steps ladders etc.
Never enter or exit the platform unless the platform is in the lowered position.
Never climb on the guardrail.
Never use the machine with material or objects suspended on the guardrail.
Never place the machine against a structure to maintain this structure.
Never use the machine to tow or drag.
Do not drive in direction opposite to the field of vision.

When moving the machine **always adopt speed according to the ground condition.**
Before using platform **remove any trace of oil or grease** on the steps, floor, handrail and the guardrails.
Keep the floor of the platform free of debris.
Be aware of side forces.
Beware of high winds in exposed, gusty or medium breeze conditions. If the wind is likely to reach strong breeze the machine must not be used (see wind description).

WARNING

THIS MACHINE HAS NOT BEEN DESIGNED FOR OPERATION WITHIN POTENTIALLY EXPLOSIVE ATMOSPHERES

IN CASE MACHINE SHOWS SIGNS OF DAMAGE OR EXCESSIVE WEAR RETURN IT TO HSS HIRE.

REPAIRS TO THE MACHINE MAY ONLY BE MADE BY A QUALIFIED HSS SERVICE TECHNICIAN.

ELECTRICAL SAFETY

This machine is not isolated and does not offer any protection. Never use the machine as a solder mass.
Maintain a **minimum safe distance with regard to lines and electrical devices** (see electrical safety distance).

The HSS Outreach Platform is powered by 24v batteries.

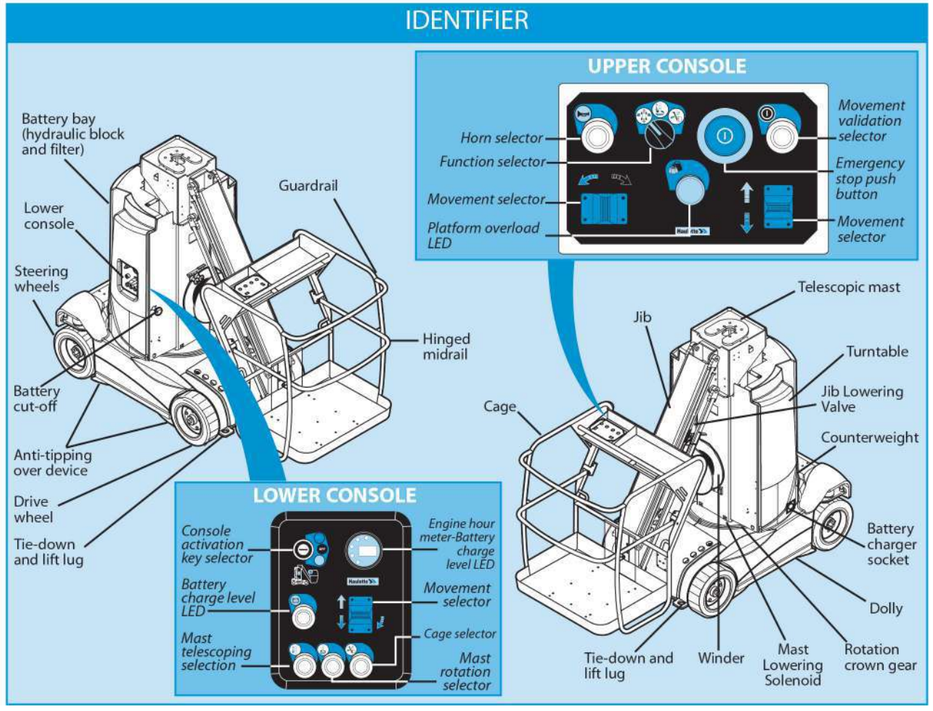
The unit has an internal 110v charger.

To recharge the batteries, **plug the charger into a suitable power supply.**

Note: *The machine's electric system is automatically deactivated during charging.*

It will be necessary to connect the charger power cable to the mains using an extension lead. **Ensure that the extension lead is fully unwound** and loosely coiled, away from the equipment. **Never run leads through water, over sharp edges or where they could trip someone.**
Only recharge the batteries in a well-ventilated area. **Keep the charging area clear of naked flames, do not smoke.**

IDENTIFIER



Recharging the batteries takes approximately 8 hours. Once fully charged the charger will automatically switch OFF. Once fully charged, unplug the unit from its power supply.
To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from your local HSS Hire**.**
If the charger fails, or if the charger's power supply cable or plug gets damaged, return it. Never try to repair it yourself.

GETTING STARTED

Never use the platform until you have fully read and understood this User Guide and the machine has been properly set up using the information it contains.

Before using platform check its condition (see pre-operation checklist).

Before engaging the machine on any internal or external surface, check that the **ground is capable of supporting the load** (3300 kg, the combined weight of the unit and platform load).

OPERATION DETAILS

Hydraulic energy to perform machine movements is provided by an electric pump.The operating speed of the pump is governed by a speed regulator.
The controls and start-up of the electric motor are powered by battery.

Load in the platform - If the load in the platform exceeds the maximum authorised load, no movement can be activated from the control consoles. The platform overload LED and the buzzer warn the operator. If the platform becomes overloaded to restore normal operation remove some weight from the platform to return to an acceptable load or use the lower console to lower the platform.

Machine tilt - If the machine is exceeding authorized tilt, the tilt control unit alerts the operator. Driving and elevation controls are cut if this situation lasts longer than 2 seconds. In this situation **only movements allowing the machine to be folded are permitted** (mast lowering, cage lowering).

Machine braking - If electric power is cut off, the machine is automatically braked.

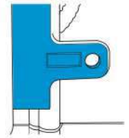
Charging batteries - If the batteries are 80% discharged it is not possible to raise the platform. If the battery is discharged the "Battery charge level LED" will indicate. Battery charging starts as soon as the mains supply is connected. While battery is being charged the "Battery charge level LED" will display its status.

BASIC TECHNIQUES

The Outreach Platform can be controlled from the ground or from the cage. However, **only operate the unit from the ground controls if testing the unit. Do not use the ground controls for general use.** It is possible to drive the unit in the raised position.

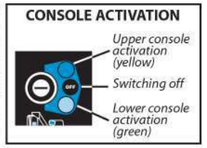
Always place the loads in the centre of the platform or distribute them in a uniform manner. During operation, keep all the parts of the body inside the platform.

The machine is equipped with approved anchorage points accepting a single harness per anchorage point. For safe working **wear a personal restraint when using this equipment. Make sure it is attached securely to the anchorage point.**



TESTING FROM THE GROUND

To operate the unit from the ground control panel, ensure that the key switch is turned to activate lower console. Move to the side of the unit and stand in front of the ground control panel. The mast and cage can then be controlled by the "Movement selector" on the panel.



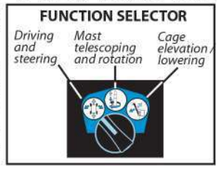
ACCESSING THE PLATFORM

Before accessing the platform ensure that in the lower console the key switch is turned to activate upper console.

To access or leave the platform the machine **must be completely stowed**. Face the machine to use the access hatch. Keep 3 support points between the steps and the guardrail.

DRIVING

Turn the "Function selector" to the left to switch to the **Drive Function. Navigate using "Movement selectors"**



All driving speeds are authorized when the **machine is stowed** (machine in lowered position). When the cage or mast are raised the unit will move at a reduced speed.

POT HOLE PROTECTION

TO AVOID THE RISK OF TIPPING OVER, THE MACHINE IS EQUIPPED WITH ANTI-TIPPING DEVICES LOCATED UNDER THE CHASSIS.