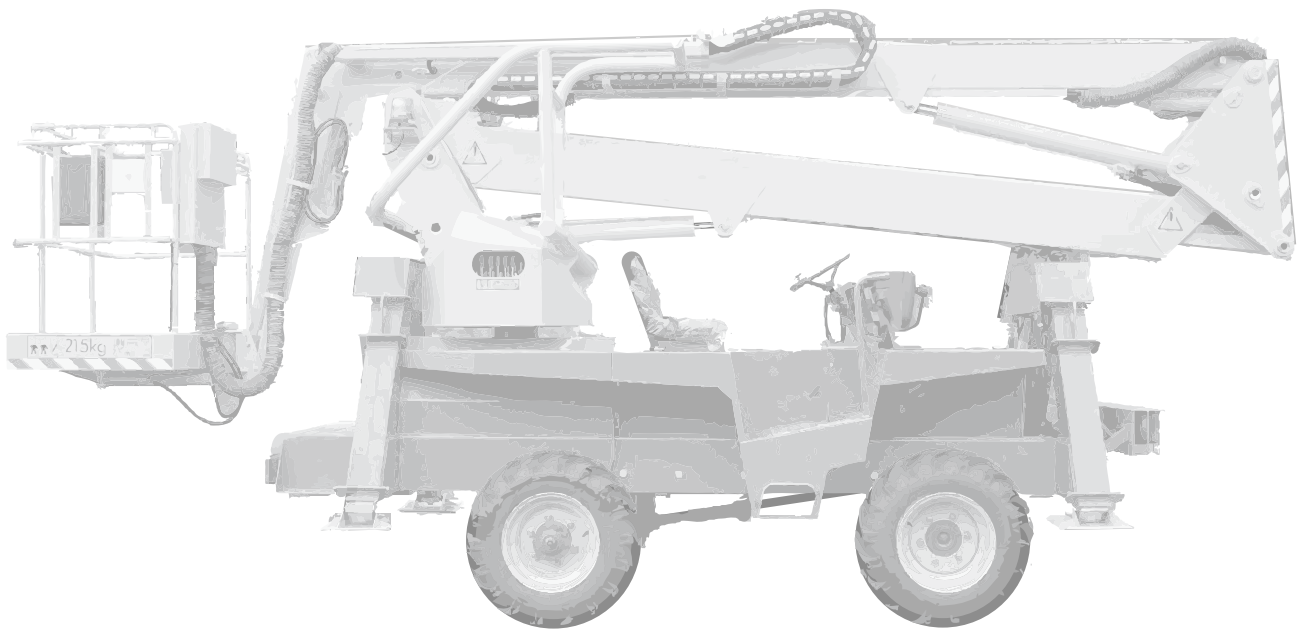


Operator Manual



Manual part number 508156-002 for serial number 4633, and 4701 to current

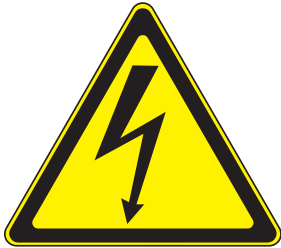
OPERATION MANUAL

WARNING

All personnel shall carefully read, understand and follow all safety rules and operating instructions before operating or performing maintenance on any UpRight aerial work platform.

Safety Rules

Electrocution Hazard



THIS MACHINE IS NOT INSULATED!

Tip Over Hazard



NEVER elevate the platform or drive the machine while elevated unless the machine is on a firm, level surface.

Collision Hazard



NEVER position the platform without first checking for overhead obstructions or other hazards.

Fall Hazard



NEVER climb, stand, or sit on platform guardrails or midrail.

USE OF THE AERIAL WORK PLATFORM: This aerial work platform is intended to lift persons and his tools as well as the material used for the job. It is designed for repair and assembly jobs and assignments at overhead workplaces (ceilings, cranes, roof structures, buildings etc.). All other uses of the aerial work platform are prohibited!

THIS AERIAL WORK PLATFORM IS NOT INSULATED! For this reason it is imperative to keep a safe distance from live parts of electrical equipment!

Exceeding the specified permissible maximum load **is prohibited!** See "Performance" on page 5 for details.

The use and operation of the aerial work platform as a lifting tool or a crane (lifting of loads from below upwards or from up high on down) **is prohibited!**

NEVER exceed the manual force allowed for this machine. See "Operating Parameters" on page 6 for details.

DISTRIBUTE all platform loads evenly on the platform.

NEVER operate the machine without first surveying the work area for surface hazards such as holes, drop-offs, bumps, curbs, or debris; and avoiding them.

OPERATE machine only on surfaces capable of supporting wheel loads.

NEVER operate the machine when wind speeds exceed this machine's wind rating. See "Beaufort Scale" on page 10 for details.

IN CASE OF EMERGENCY push EMERGENCY STOP switch to deactivate all powered functions.

IF ALARM SOUNDS while platform is elevated, STOP, carefully lower platform. Move machine to a firm, level surface.

Climbing up the railing of the platform, standing on or stepping from the platform onto buildings, steel or prefab concrete structures, etc., **is prohibited!**

Dismantling the swing gate or other railing components **is prohibited!** Always make certain that the swing gate is closed and securely locked!

It is prohibited to keep the swing gate in an open position (held open with tie-straps) when the platform is raised!

To extend the height or the range by placing of ladders, scaffolds or similar devices on the platform **is prohibited!**

NEVER perform service on machine while platform is elevated without blocking elevating assembly.

INSPECT the machine thoroughly for cracked welds, loose or missing hardware, hydraulic leaks, loose wire connections, and damaged cables or hoses before using.

VERIFY that all labels are in place and legible before using.

NEVER use a machine that is damaged, not functioning properly, or has damaged or missing labels.

To bypass any safety equipment **is prohibited** and presents a danger for the persons on the aerial work platform and in its working range.

NEVER charge batteries near sparks or open flame. Charging batteries emit explosive hydrogen gas.

Modifications to the aerial work platform **are prohibited** or permissible only at the approval by **UpRight**.

AFTER USE, secure the work platform from unauthorized use by turning both keyswitches off and removing key.

The driving or use of MEWP's on the public highways is subject to Regulations made under the Road Traffic Acts.

NOTES

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INTRODUCTION

The Pioneer's impressive 14.63m (48ft.) platform height and 7.90m (26ft.) outreach is achieved from only a 2.4m (7.9ft.) jacking width. 'A' frame hydraulic outriggers level the Pioneer on sloping or uneven ground.

The AB48HSRT can be levelled on ground with a **maximum** slope of approximately 5 degrees front-to-rear or side-to-side, with the proviso that all 4 wheels are **clear** of ground contact.

If after using the outriggers to level the platform any wheel is still grounded, either the slope is too great or the terrain is too rough and therefore the platform **must not** be elevated.

UpRight Powered Access has a global reputation for innovation and a proud heritage in the design and manufacture of high quality powered access equipment.

The company was founded in the UK more than 25 years ago, on the principle of constantly improving service excellence for end users. Every model in our growing range of versatile access platforms is a class leader and together they have set new industry benchmarks.

Our commitment to research and design, plus 250,000sq ft of same site fabrication, build and support capacity, mean UpRight Powered Access can offer complete solutions to meet even the most demanding access applications.

UpRight Powered Access has third party accreditation to quality standard ISO 9001 and the full range proudly carries the CE mark, complying with or exceeding all relevant standards and EC directives.

To ensure you are fully aware of safety and operational information, the following symbols are used throughout this manual;



This type of box contains, Points of operation to NOTE.



The information contained in this type of box contains, WARNING text. It gives Warnings about the risk of Damage to equipment, and possibly personnel.



The information contained in this type of box contains, DANGER text. It gives Warnings about the risk of PERSONAL INJURY to the operator and or others.

DESCRIPTION OF EQUIPMENT

The UpRight AB48HSRT is of the parallel linkage vertical boom design, mounted on an all terrain platform. The unique, yet very simple boom configuration gives the maximum safety and control ability combined with a robust construction to withstand a heavy working environment

The AB48HSRT machine is designed for two man capacity (215kg (474lb.)S.W.L.).

The machine incorporates a bottom boom with tie-rod, a short vertical boom and a top boom with a telescope section. The AB48HSRT also has an independent hydraulically operated flick-out boom and rotating cage for extra manoeuvrability.

The hydraulic system is of a failsafe design throughout, with built in hydraulic lock valves on all of the rams as a precaution against hose failure. The machine is controlled by means of proportional manual controls of the 'direct hand' lever operating type. These valves are located at both the base and in the cage, as standard.

Electrically operated emergency lowering valves are fitted as standard to allow the machine to be lowered from the base and basket.

The hydraulically operated outriggers are fitted with electronic micro-switches, to prevent the booms from being raised without the outriggers being extended and under load. A micro-switch also prevents the hydraulic outriggers being accidentally retracted while the booms are raised.

Performance.

Maximum Working Height	14.63m	48ft.
Maximum Working Outreach:	7.90m	26ft.
Capacity (2 man working):	215kg	474lb.
Slewing Arc:	780 degrees°	

Construction Standards.

The machine complies fully with the requirements of the following EEC Directives:

Directive 98/37/EC – the 'Machinery Directive'.

Directive 89/336/EEC – the 'Electromagnetic Compatibility Directive'.

Directive 73/23/EEC – the 'Low Voltage Directive'.

The machine is designed and tested in accordance with all relevant B.S.I and European Standards including EN280:2001.

TECHNICAL SPECIFICATION

Cage Dimensions

Length	1.20m	3.9ft
Width	0.80m	2.6ft.
Guard-rail Height	1.10m	3.6ft.
Toe-board Height	0.15m	0.5ft.

Operating Dimensions

Maximum Cage Height	14.80m	48ft.
Maximum Outreach (From centre of rotation)	7.90m	26ft.

Closed Dimensions

Overall Length	6.10m	20.3ft.
Overall Height	2.27m	9ft
Overall Width	1.90m	6.3ft.
Weight	3,500kg	

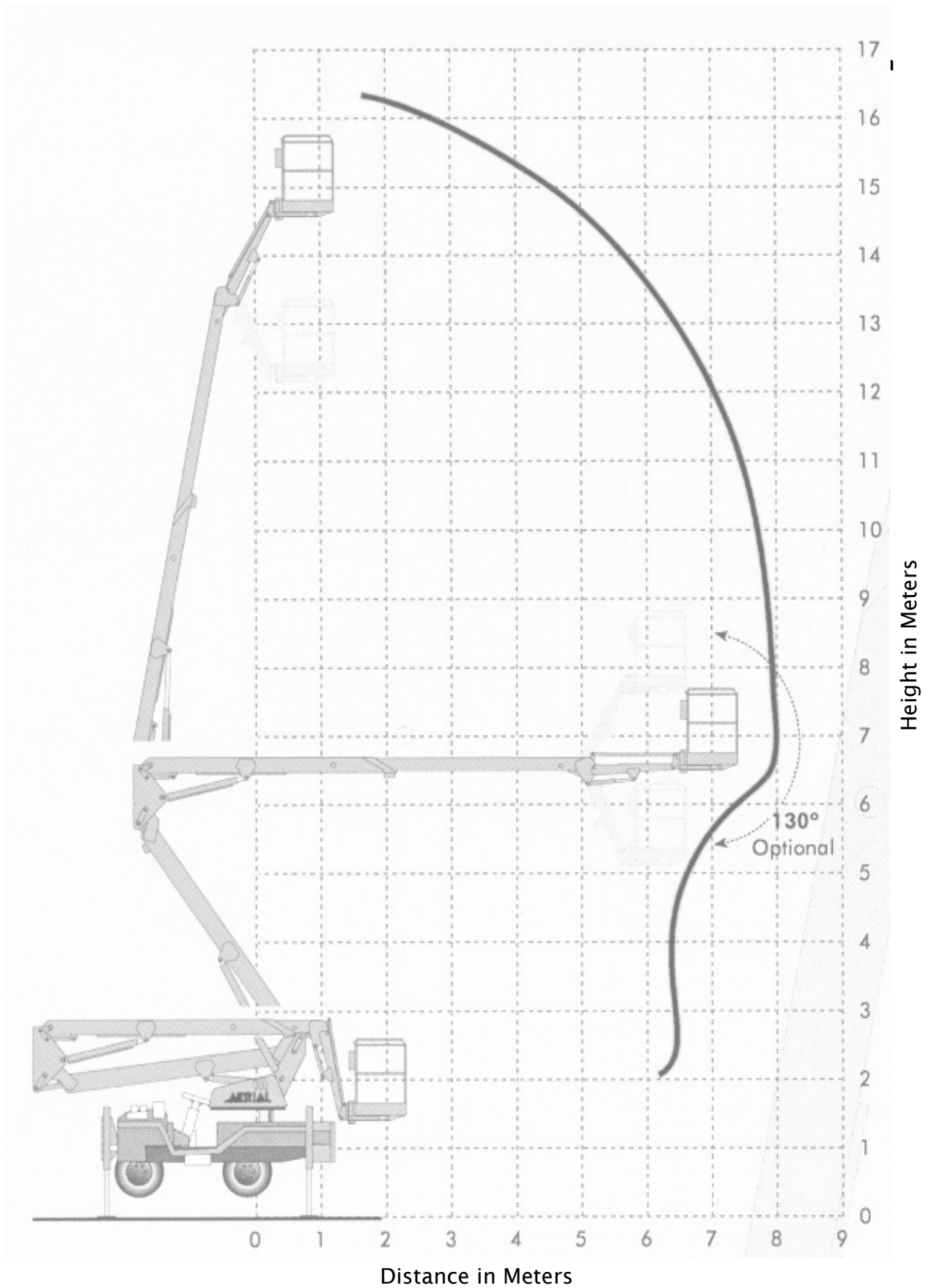
Operating Parameters

Safe Working Load	215 kg	474lb.
Maximum Horizontal Pull	400 N	
Maximum Wind Speed	12.5 ms ⁻¹	
Rotation	780°	
Cage Slew	90°	

Equipment

Bottom Ram	Double acting: Bore Ø 90.0 mm Rod Ø 50.0 mm
Top Ram	Double acting: Bore Ø 80.0 mm Rod Ø 50.0 mm
Tele' Ram	Double acting: Bore Ø 65.0 mm Rod Ø 45.0 mm
Flick Ram	Double acting: Bore Ø 50.0 mm Rod Ø 30.0 mm
Stabiliser Ram	Double acting: Bore Ø 60.0 mm Rod Ø 40.0 mm
Bottom & Top Ram Lock Valves	Pilot operated over centre valves
Control Valve (Cage)	Monoblock unit consisting of seven double acting spools
Control Valve (Ground)	Monoblock unit consisting of five double acting spools
Control Valve (Stabiliser)	Monoblock unit consisting of four double acting spools
Bushes	Acetol resin polymer with sintered bronze base (DX)
Pivot Pins	Stainless Steel Bright Bar To Grade BS970 303 S31 CW.

WORKING ENVELOPE



OPERATOR REQUIREMENTS

1. To operate the machine you must be medically fit and have no problems with eyesight or hearing.
2. You must have a good head for heights.
3. Your primary concern must be the safe operation of the work platform, the safety of the people working with you, and the safety of other persons in your working area.
4. You must be familiar with the contents of this manual, and at no time attempt to operate the machine beyond the recommended limits.
5. The proper care of the work platform is a major factor in ensuring the safety of those who work with it.
6. You must not misuse the machine or ignore or interfere with the devices that have been provided to maintain safety.
7. Operation of the machine should be restricted to personnel who have been authorised to operate the equipment and have received proper training.

WARNING NOTICES

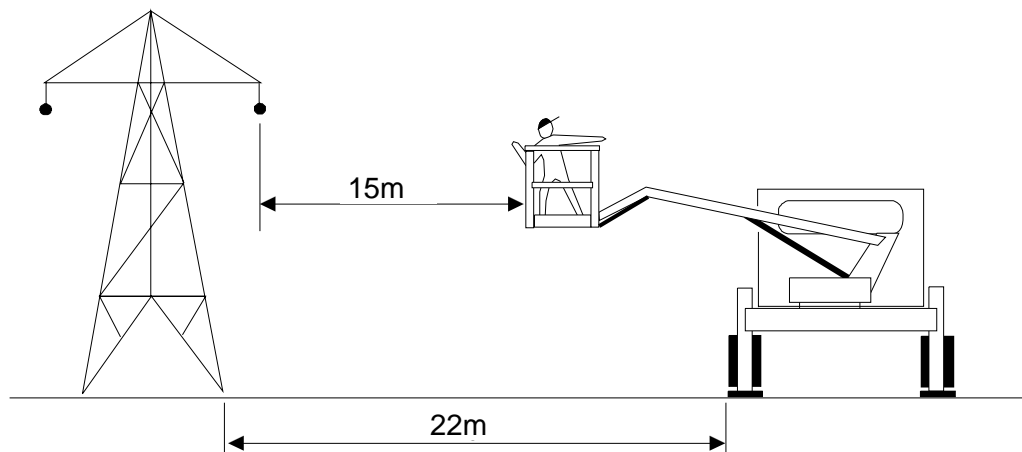
1. **DO NOT** operate this machine unless you have been fully trained in its safe use.
2. **DO NOT** operate the machine on soft, slippery or sloping ground unless adequate precautions have been taken. The stabilisers are designed to operate on firm level ground with a minimum bearing strength of 50N/cm².

The maximum load imposed by an outrigger is 1.8 tonne

Advice should be obtained from UpRight Powered Access as to the type of supports and precautions required before attempting to operate the machine outside these parameters.

NOTE .The AB48HSRT can be levelled on ground with a **maximum** slope of 5 degrees front-to-rear or side-to-side, and that all 4 wheels are **clear** of ground contact.

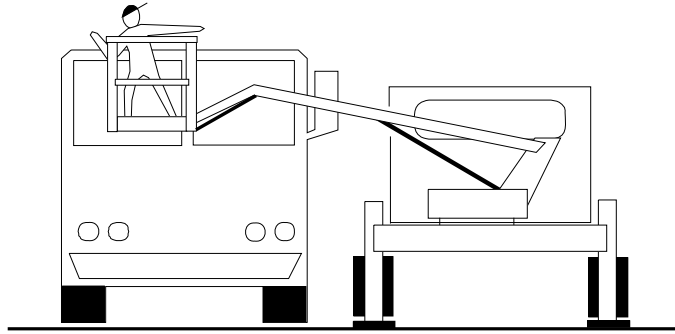
3. **DO NOT** use any equipment in the basket to increase the reach or working height of the machine, e.g. ladders.
4. **DO NOT** fit any additional equipment to the machine that would increase the wind loading, e.g. notice boards.
5. **DO NOT** use the machine for any application that may produce special loads or forces: the manufacturer, UpRight Powered Access, must be consulted for approval of special applications prior to use.
6. **DO NOT** use the machine close to live electrical conductors. The minimum safe working distance for a machine working near overhead power cables is the maximum extended length of the booms plus 15 metres, measured with the booms pointing towards the lines, i.e. safe working distance for the AB48HSRT is 22 metres. It is the operator's responsibility to ensure that, when working in the vicinity of live overhead high-voltage lines, the minimum safe working distance is maintained. Erect a simple barrier tape at the safe distance.



7. **WORKING CLOSE TO POWER CABLES** – if work has to be carried out at less than the safe working distance, the operator must **ensure that the electricity supply has been switched off**. Before commencing work, a written permit to work must be obtained from the owners of the power cables or the responsible authority.
8. **DO NOT** operate the machine unless all four outriggers are down and in full contact with the ground. The machine must be level and the **wheels lifted visibly clear of the surface** before the booms are raised.

WARNING NOTICES

9. **DO NOT** move the machine with the basket raised and never allow cage or booms to slew into the path of oncoming vehicles.



10. **DO NOT** operate the machine if the wind speed exceeds 12.5 m/s. Be aware that, when working near high buildings or structures, shielding and funnelling effects may cause high wind forces on days when the nominal wind speed in the open is low. Wind speed can either be measured from the work platform with a hand held anemometer or estimated using the Beaufort Scale.

BEAUFORT WIND SPEED SCALE

The Beaufort Scale of wind force is accepted internationally and is used in communicating weather conditions. It consists of numbers 0 - 12, each representing a certain strength of velocity of wind at 10m (33ft.) above ground in the open.

Beaufort Scale	M/Sec	Ground Conditions
3	3.5-5	Leaves and small twigs in constant motion; wind extends light flag.
4	6-8	Raises dust and loose paper; small branches are moved.
5	9-10	Small trees in leaf begin to sway; crested wavelets on inland waterways.
6	11-13	Large branches in motion; umbrellas used with difficulty.
7	14-17	Whole trees in motion; inconvenience felt when walking against wind.
8	18-21	Breaks twigs off trees; generally impedes progress.
9	22-24	Slight structural damage occurs (chimney pots and slates removed)

Numbers 10-12 are not shown in this table.

Approximate corrections for wind speeds at other heights are:

2m subtract 30%;

3m subtract 20%;

6m subtract 10%

15m add 10%;

PRE START CHECK

The following Pre-Start Checks should be carried out before taking the machine to the place of work.

1. **Damaged or Loose Fittings.**

Visually Inspect the whole machine for signs of wear and tear, damage, loose or missing parts.

2. **Wheels.**

Check tyres are at the correct pressure, AB48HSRT = 58psi (4 bar).

3. **Hydraulic fluid.**

The hydraulic oil tank is located below the foot well on the left hand side of the vehicle. With the booms and outriggers in the transport position, the hydraulic oil level should be visible between the upper and lower marks on the dipstick.



Top up with ISO Grade 22 hydraulic oil if necessary.



Do Not Overfill the Tank



Serious injury or even death may result by not carrying out the following checks of the interlock system before the platform is used!

4. **Safety Switches.**

Check all switches are free from damage and move easily

With outriggers in transport position, it must **not** be possible to operate the extending structure.

With outriggers deployed, under load and the bottom boom raised approximately 50mm, it must **not** be possible to operate the outrigger controls.

PRE START CHECK

5. **Emergency Stop Switches.**

Emergency stop switches must operate correctly. Check that each stops the machine's controls and that restarting is prevented until all stop switches are unlatched.

6. **Emergency Lower/Slew.**

With the top and bottom booms raised approximately 500mm each and the unit switched off, check:

The emergency lower switch located in the basket and ground control stations, lowers the booms when operated.

The emergency slew can be operated with the ratchet bar provided.

To Reset the hydraulic system after checks;

- ☐ Fully slew the Basket to the right, so that the ram is fully extended.
- ☐ Fully extend the Outriggers while still maintaining Level. (check the bubble)
- ☐ Using the ground controls, fully extend Top, Bottom and Telescopic Booms.
- ☐ Fully extend the Flick Out Boom.

All rams must be fully extended at the same time before returning them to their transit position.

If the Emergency Lower is used during normal operation, DO NOT use the machine, Contact your local UpRight Powered Access rep-



7. **Emergency Hand Pump.**

With the unit set up for working (i.e. outriggers down, under load and the machine level with wheels clear of ground) it is possible to lower the cage using the emergency hand pump.

8. **Diesel vehicle.**

With reference to the recommendations in the manufacturers handbook, Check that there is sufficient oil, fuel and coolant to complete a full working shift.

9. **Vehicle lights.**

Ensure that all the vehicle's utility lights are operational.

10. **Instrument panel.**

Check that the instrument panel's indication lights are all working correctly.

11. **Vehicle Brakes.**

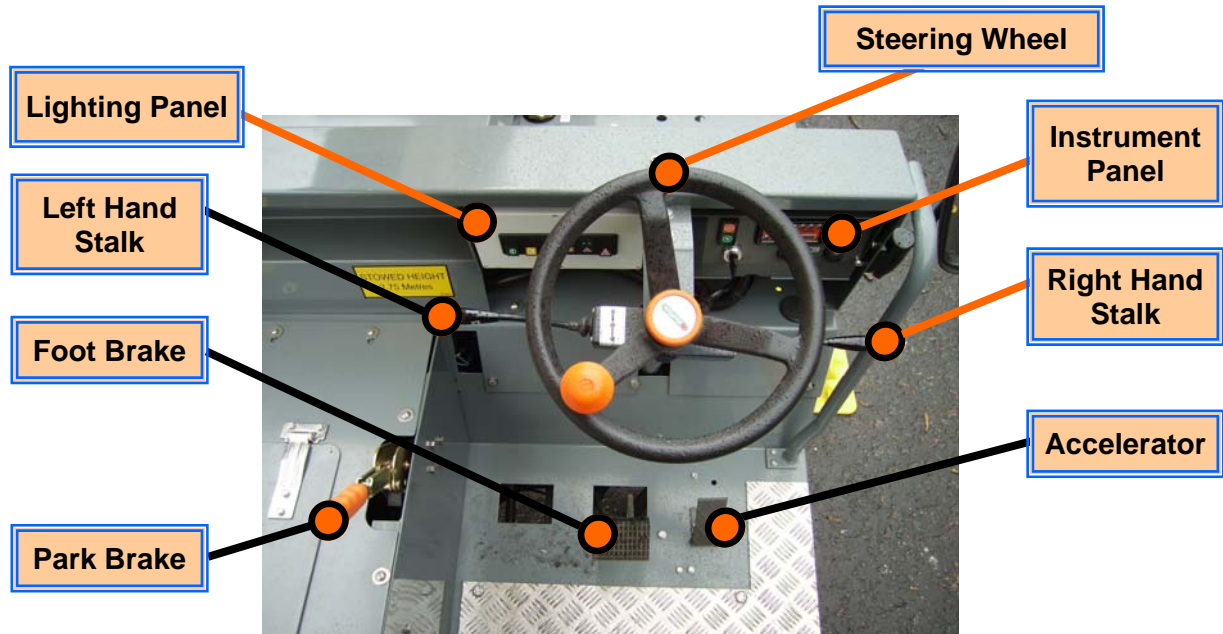
Before driving the vehicle, check the vehicle's foot brake and park brakes effectiveness.

All extensions must be a minimum of 2.5mm², and no longer than 10m, due to possible voltage drop, which will damage the motor.



VEHICLE CONTROLS

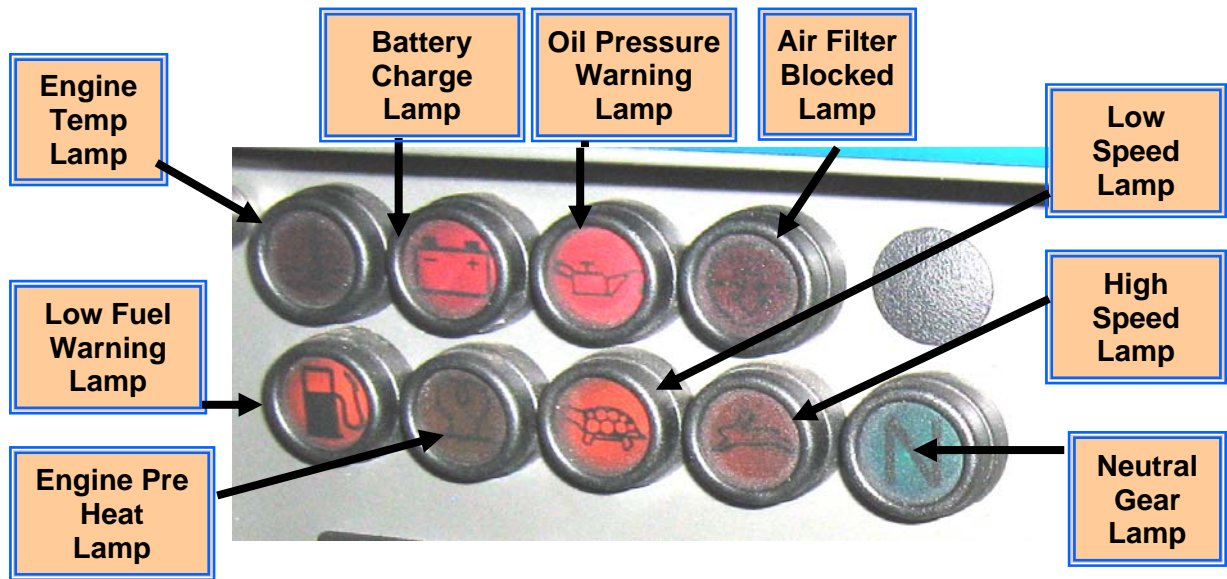
Driving instruments & Controls



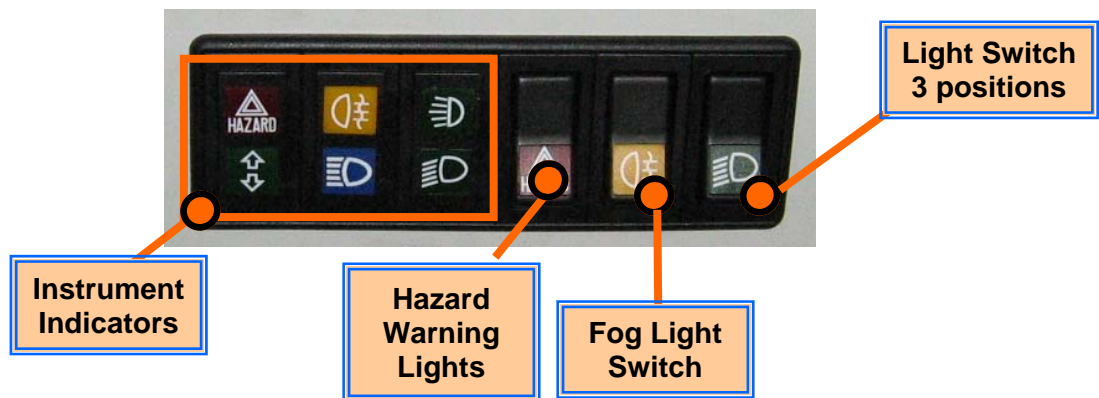
Instrument Panel



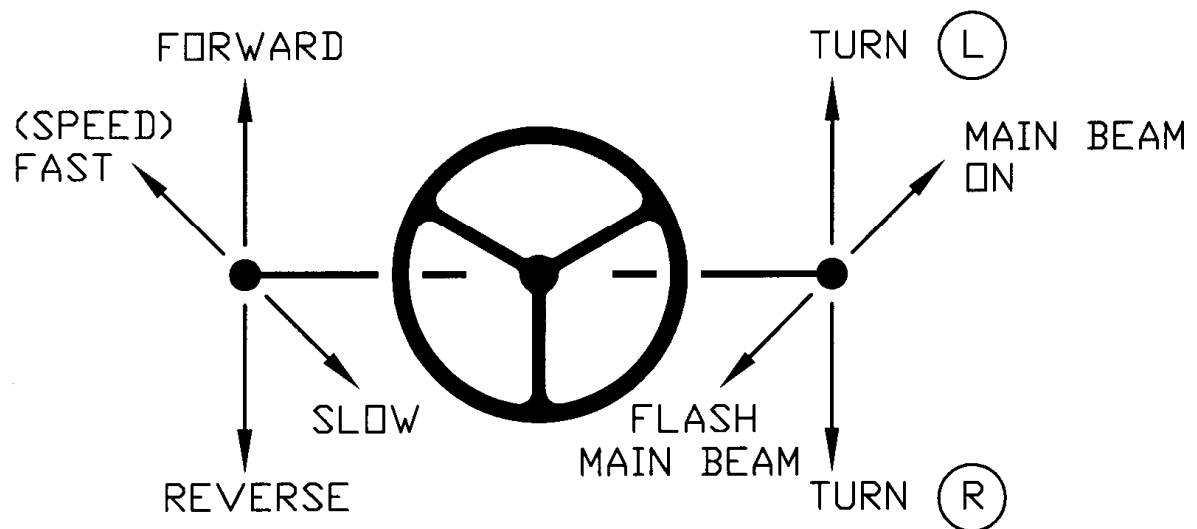
VEHICLE CONTROLS



Lighting Panel



Stalk Functions

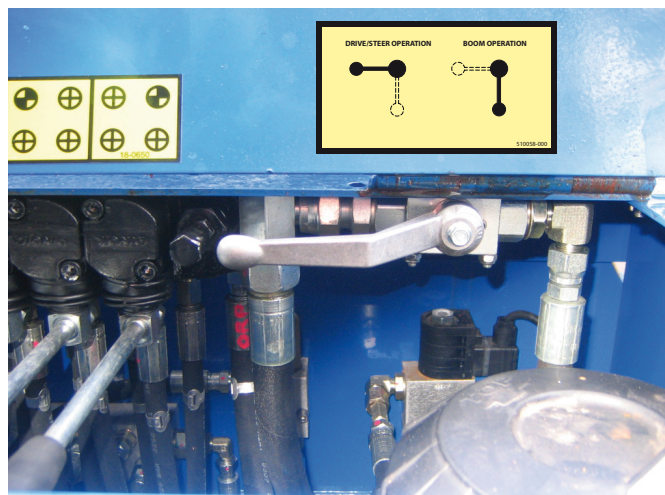


DRIVING THE VEHICLE

1. Ensure that the **booms are fully lowered** and located in the front prop, all **outriggers are fully raised** and that the machine is manoeuvrable.
2. Before driving the vehicle ensure that the selector valve situated under the outrigger control cover hatch is set to **Drive/Steer operation**.

Note:

If the vehicle is only being driven for slow speed manoeuvring between boom operations this selector can be left in boom operation.



3. Climb into the driving seat and fasten seat belt across your lap.
4. **Insert the ignition Key** and turn part way, until the Pre-Heat lamp has illuminated.



Do NOT use the Steering wheel to pull yourself into the cab as this could cause damage to the vehicles Steering system.

5. When the lamp goes out and the pre-heat sequence has ended, complete the turn to start the ignition and **release when the engine starts**



DRIVING THE VEHICLE

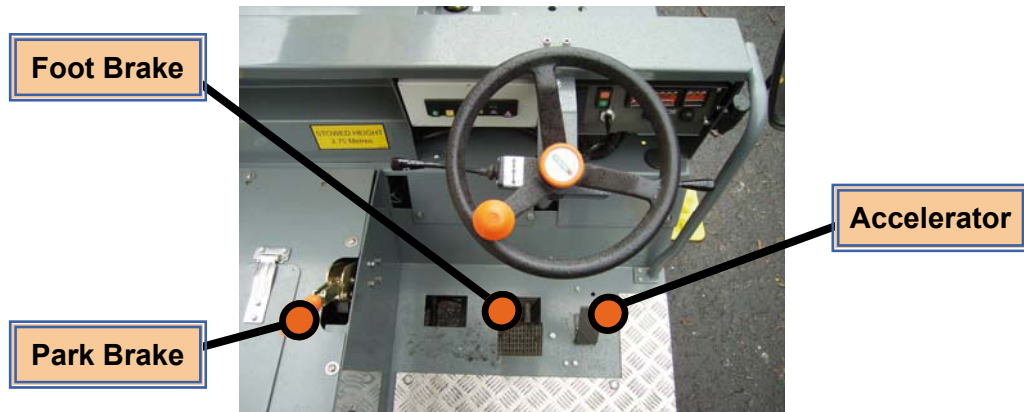
6. When the engine is running, place your **foot on the footbrake** and **release the park brake**.



The vehicle battery must be able to deliver 12volts.



*Do NOT hold the ignition on for more than 10 seconds.
If the engine does not start repeat the Pre-Heat sequence.*



7. **Select a direction of travel**, by moving the left hand stalk on the steering wheel in the direction of intended travel.
8. **Remove your foot from the footbrake** and gently **press the accelerator** pedal until the vehicle starts to move.
9. **To slow or stop the vehicle**, remove your foot from the accelerator pedal and **press the footbrake**.

Ensure you are familiar with all of the vehicle controls before you attempt to travel at speed.



10. When the vehicle comes to a complete stop, **select neutral** drive and **engage the park brake**.

1. Park the unit in an appropriate location at the workplace.

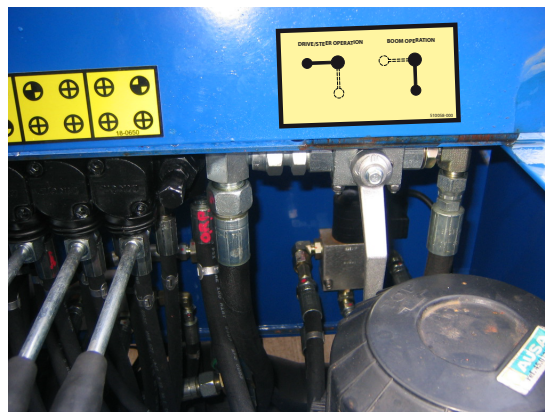


Do not attempt to set up the machine on steep slopes, ramps or soft ground.

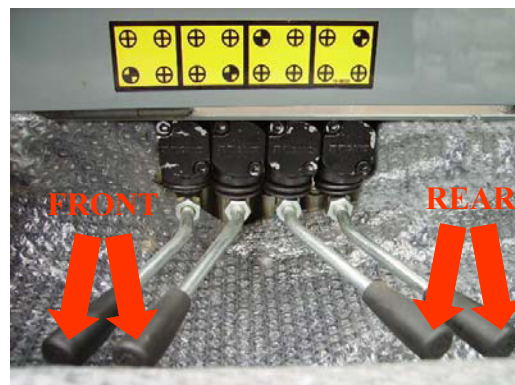
2. Select Neutral, apply the Park brake to the vehicle, and leave the engine running.
3. Lift the Outrigger control cover hatch, located at the side of the driving seat.



4. Select boom operation to allow operation of the outriggers and booms

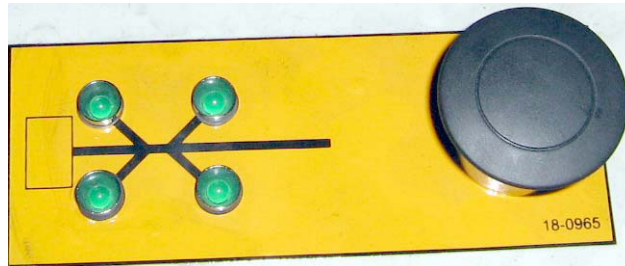


5. Lower the outriggers by operating the 'Deadman' push button and operating the outriggers two at a time until they are all in contact with the ground.



SETTING UP

6. The centre console electrical box displays LED's corresponding to each outrigger leg. These LED's will light when the associated outrigger leg has extended enough for the machine to be stable when lifting. Continue lowering the machine until all the LED's have been lit.



7. By using the Level indicator, lower opposite Outriggers until the bubble and indicator ring are concentric (*i.e.*, the bubble rests in the centre).



The unit is designed to operate on a supporting surface of minimum bearing strength of 50N/cm².



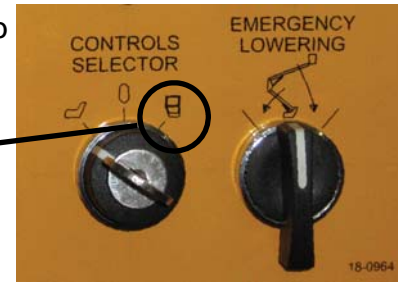
Only when the Outriggers have been correctly deployed and the checks have been successfully completed, should you progress to the next section.



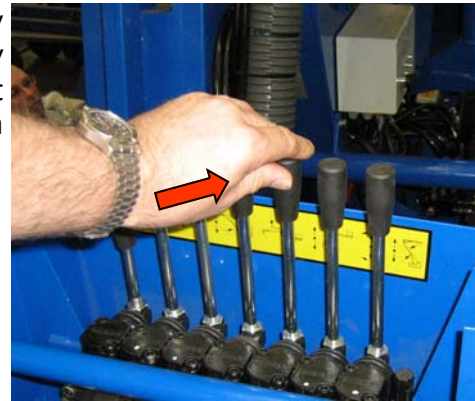
EXTENDING THE STRUCTURE

1. Ensure that the engine is running, and the Outriggers are correctly deployed.
2. At the Control Station, turn the key switch key to 'Basket'.

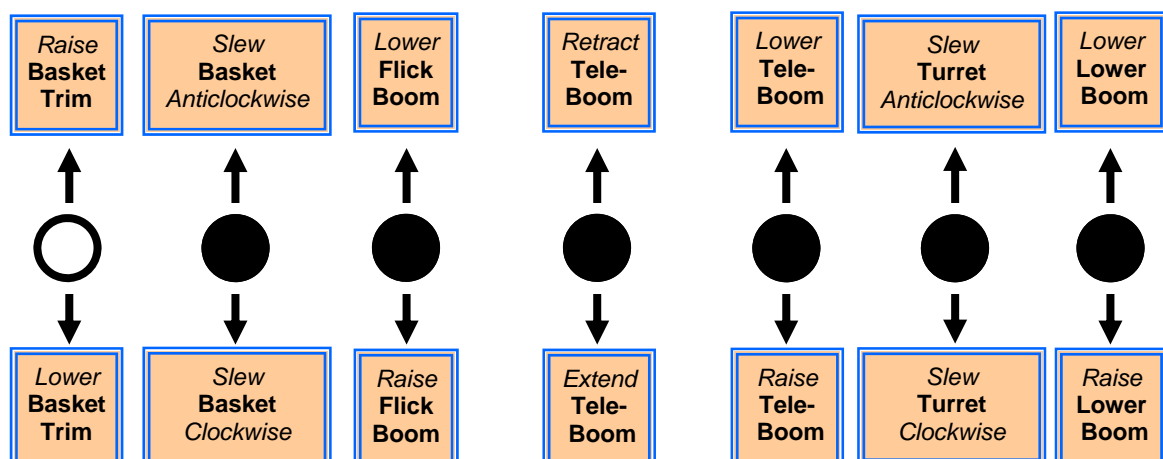
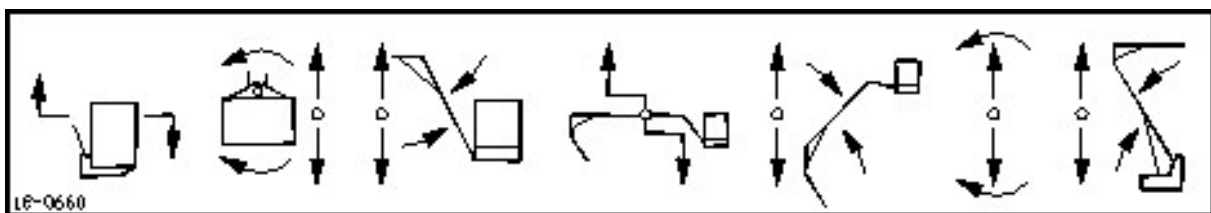
Basket



3. Climb into the basket. The platform may now be raised, lowered or slewed in any direction by operating the control levers at the basket, whilst depressing the motor run footswitch (*DEADMAN*).

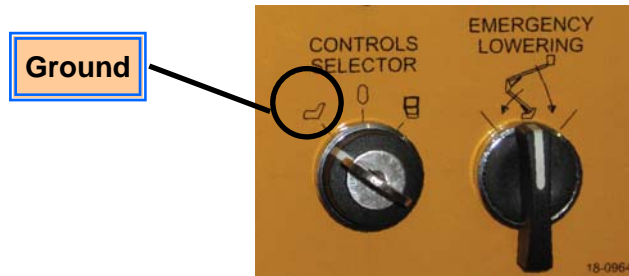


4. The basket is fitted with an automatic overload sensor coupled to an audible siren and a flashing beacon. These will activate if the basket is over its SWL of 215kg 474lb. And will disable all machine functions. When the overload is activated, remove the excess weight from the basket and all functionality is restored
5. Explanation of the Basket Control Station, Directional Control Levers.

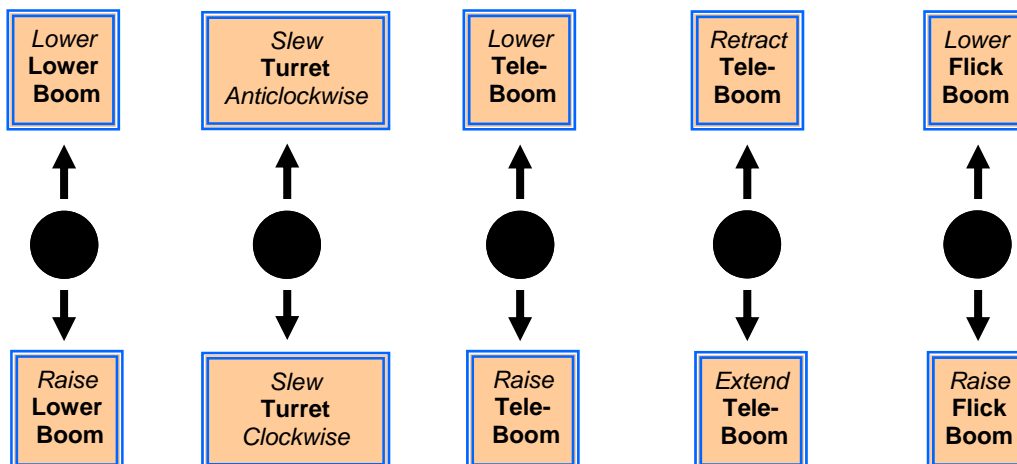
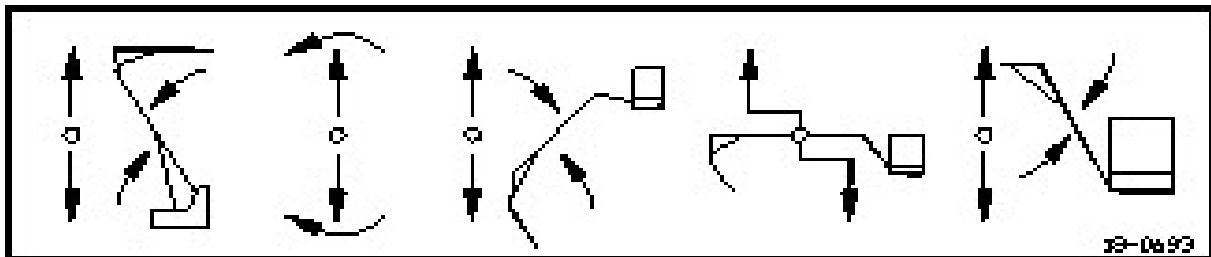


EXTENDING THE STRUCTURE

6. A duplicate set of controls (excluding Slew Basket and Basket Trim) is mounted on the Slew Turret under the right hand side cover, which allows the platform to be operated from the Ground.
7. At the Ground Control Station, turn the key to 'Ground'



8. Explanation of the Ground Control Station, Directional Control Levers



Before raising, ensure there are no overhead obstructions or power cables and that the outriggers are properly extended and secure.



Take EXTREME care when slewing both basket and turret, at low levels.

SAFETY HARNESS & EMERGENCY CONTROLS

1. In accordance with IPAF recommendations, UpRight recommend the use of a **Full** Body Harness with an adjustable lanyard is used when operation from the basket.
2. The lanyard length should be as short as possible.
3. A permanent attachment point is provided in the basket for fixing the harness.

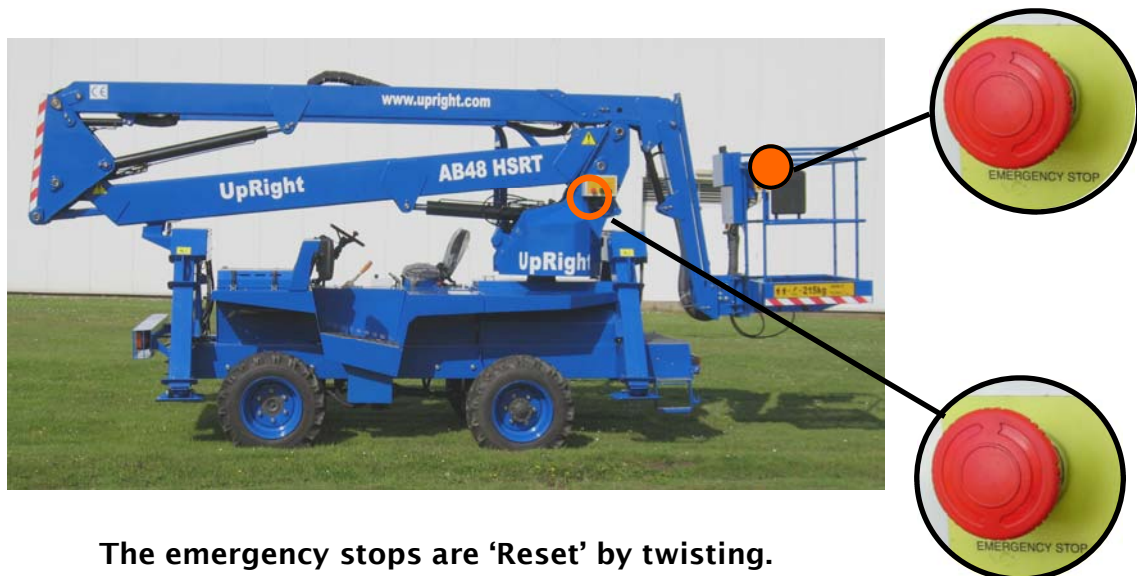


EMERGENCY CONTROLS

1. Emergency Stop

Emergency Stop buttons are fitted on the machine to stop the motor in an emergency.

There are 2 Emergency Stop Buttons, one in the basket, and one on the ground control panel.



The emergency stops are 'Reset' by twisting.

EMERGENCY CONTROLS

2. Emergency Lower.

In the event of a power failure, There are two ways of Safely lowering the basket.

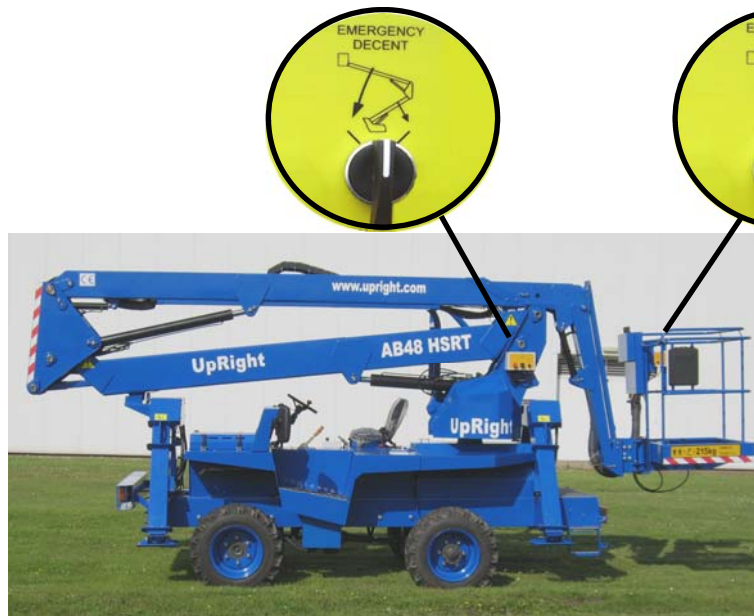
Emergency Lowering, *method one*

The operator or someone on the ground, can lower the booms to a safe position by activating the Emergency lowering selector switch both ways, on the Basket Control Panel and the Ground Control Panel.

The Flick Boom cannot be lowered by activating the Emergency Lowering Switch.



The Emergency lowering valve will automatically close when the switch is released.



*If the Emergency Lower is used due to a machine defect, **DO NOT** use the machine, Contact your local UpRight representative.*



If the Emergency Lower is used, The TOP and BOTTOM BOOMS must be fully extended then fully lowered before work can continue.

After Emergency lowering, any further POWERED lowering could cause an AIRLOCK in the hydraulic system.

This could cause the Hydraulic operations to Fail.

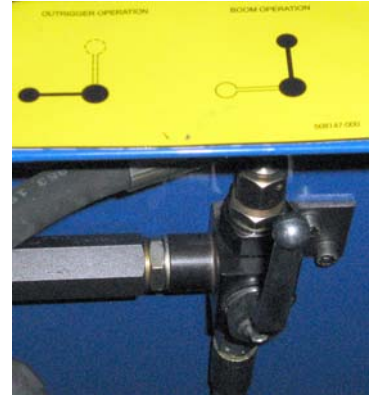
ALL BOOMS MUST BE FULLY EXTENDED/RAISED, THEN LOWERED BEFORE WORK CAN RECOMMENCE.



EMERGENCY CONTROLS

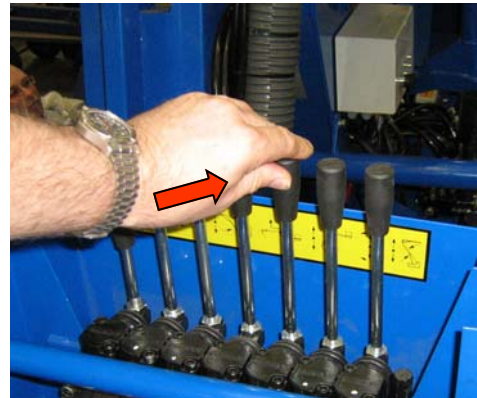
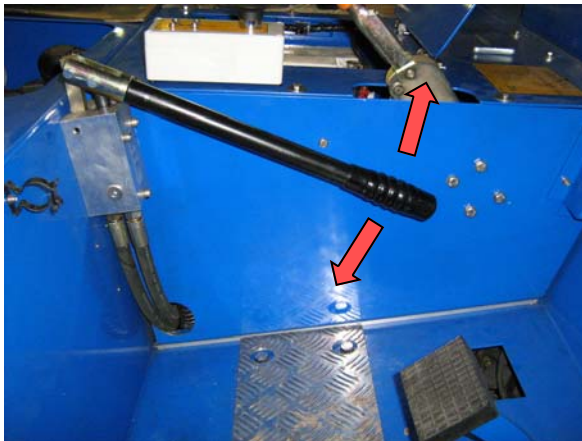
Emergency Lowering a, *method two*.

In the event of a power failure, the emergency lowering hand pump can be operated from the driver side foot well, choosing between the boom controls and slewing functions on the 3 way operation valve. To operate the hand pump, simply insert the lever into the pump shaft, then lower the lever to a convenient position to start pumping



The boom lowering control can be chosen by rotating the valve handle to the vertical position.

Move a lever to the required direction of movement and continue to hold in this position while operating the hand pump to lower the basket.



Vigorous pumping is required to lower the machine.

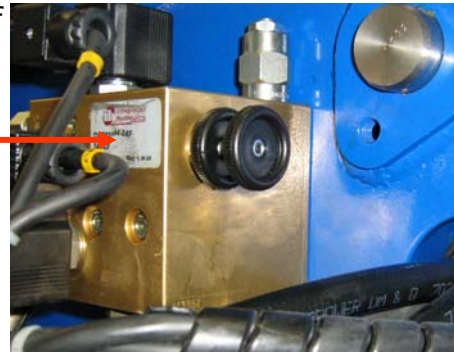
EMERGENCY CONTROLS

3. EMERGENCY SLEW

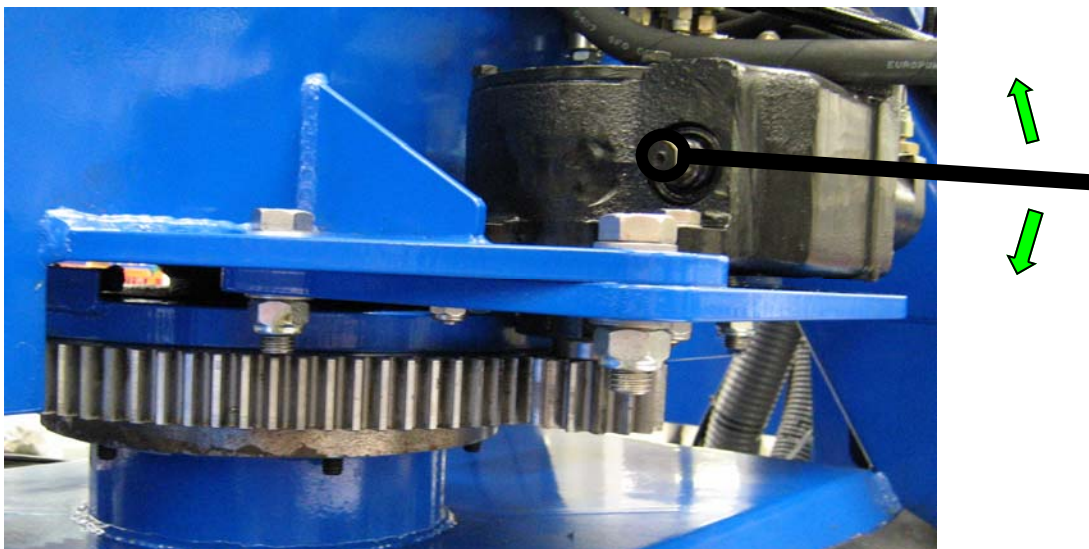
If a loss in power has occurred, the slew can be operated by hand. To do this:

Wind out spindle on right hand side of hydraulic manifold block

Spindle



Locate 17mm socket (located in vehicle tool box) on to slew drive hex shaft and rotate as required to position slew the machine.



Ensure that the spindle is wound in fully for normal use once the problem has been rectified.



Before operating this machine, it is important that both the Operator and another responsible person on site, is aware of the position and function of the following:



- A) Emergency Stop Buttons.
- B) Emergency Lowering Buttons.
- C) Emergency Slew Drive Shaft.

STOWING THE MACHINE



Fully lower both main booms, flick boom and ensure that the basket is level.

Ensure that the tele boom is fully retracted and that the bottom boom is located in the front Boom Prop, making the boom down switch.



By alternating from front to rear, carefully **inch up** each pair of Outriggers until all four Outriggers are fully retracted, and the road wheels are in contact with the ground.

Now fully raise the outriggers until they are in the stowed position. Switch off the platform and ensure all loose items/covers are secure before leaving the unit.

MAINTENANCE

The unit must have a thorough inspection carried out every 6 months in accordance with LOLER Regulations 1998 and a Certificate of Thorough Inspection produced by a competent person.



Always ensure the machine structure is in good, sound, undamaged condition. Any inspection procedure is always aided by keeping the machine clean. NB. Do not steam clean the battery charger or electrical components.



Daily Checks.

1. **Damaged or Loose Fittings.**
Visually Inspect the whole machine for signs of wear and tear, damage, loose or missing parts.
2. **Wheels.**
Check tyres are at the correct pressure, AB48HSRT = 58psi (4 bar).
3. **Hydraulic fluid.**
The hydraulic oil tank is located below the foot well on the left hand side of the vehicle. With the booms and outriggers in the transport position, the hydraulic oil level should be visible between the upper and lower marks on the dipstick.

Top up with ISO Grade 22 hydraulic oil if necessary.

Do Not Overfill the Tank



4. **Safety Switches.**

Check all switches are free from damage and move easily

With outriggers in transport position, it must **not** be possible to operate the extending structure.

With outriggers deployed, under load and the bottom boom raised approximately 50mm, it must **not** be possible to operate the outrigger controls.

The flick boom is not interlocked with the outriggers.



5. **Emergency Stop Switches.**

Emergency stop switches must operate correctly. Check that each stops the machine's controls and that restarting is prevented until all stop switches are unlatched.



The unit must have a thorough inspection carried out every 6 months in accordance with LOLER Regulations 1998 and a Certificate of Thorough Inspection produced by a competent person.

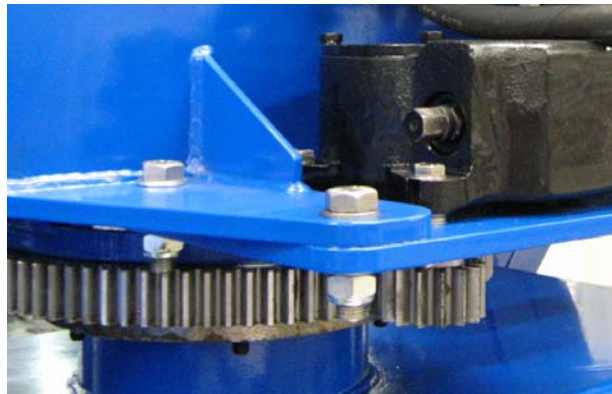


Always ensure the machine structure is in good, sound, undamaged condition. Any inspection procedure is always aided by keeping the machine clean. NB. Do not steam clean the electrical components.

Weekly Checks.

1. Apply grease to the slew gear wheel and all grease nipples.

Slew Drive Gears.

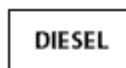


2. From the Ground controls, Fully extend the Telescopic Boom and visually inspect along its entire length for signs of wear and tear damage or deformation.
3. Check battery acid level, top up with distilled water if required (maximum 6mm over plates when battery is standing level).

Monthly Checks.

Thorough inspection to be carried out by a **competent person**.(LOLER)

DECALS



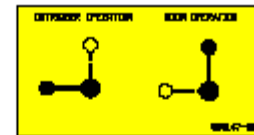
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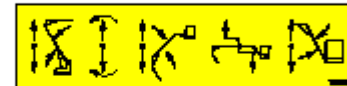
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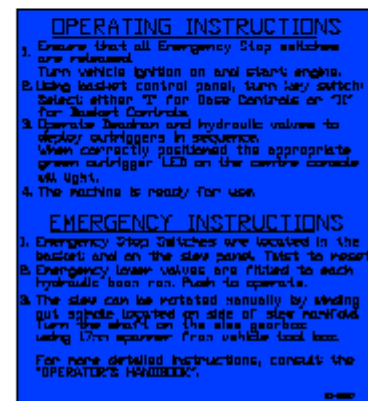
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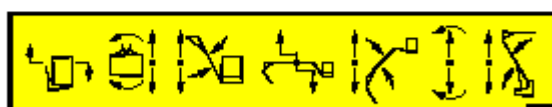
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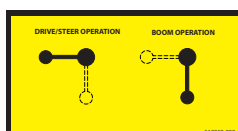
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