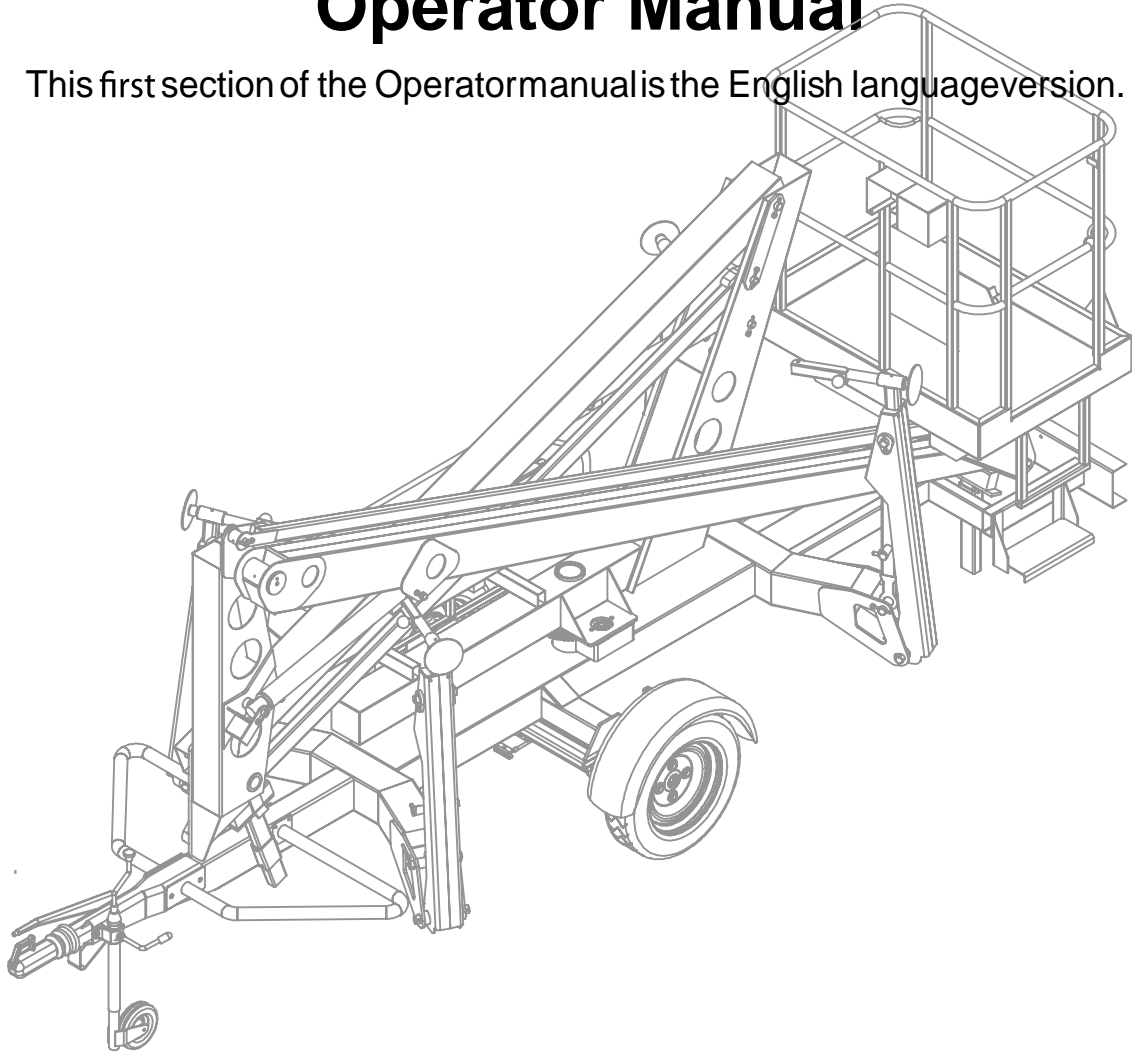


Operator Manual

This first section of the Operator manual is the English language version.



(EN) Manual part number 510309-000 for serial numbers 00001 to current.

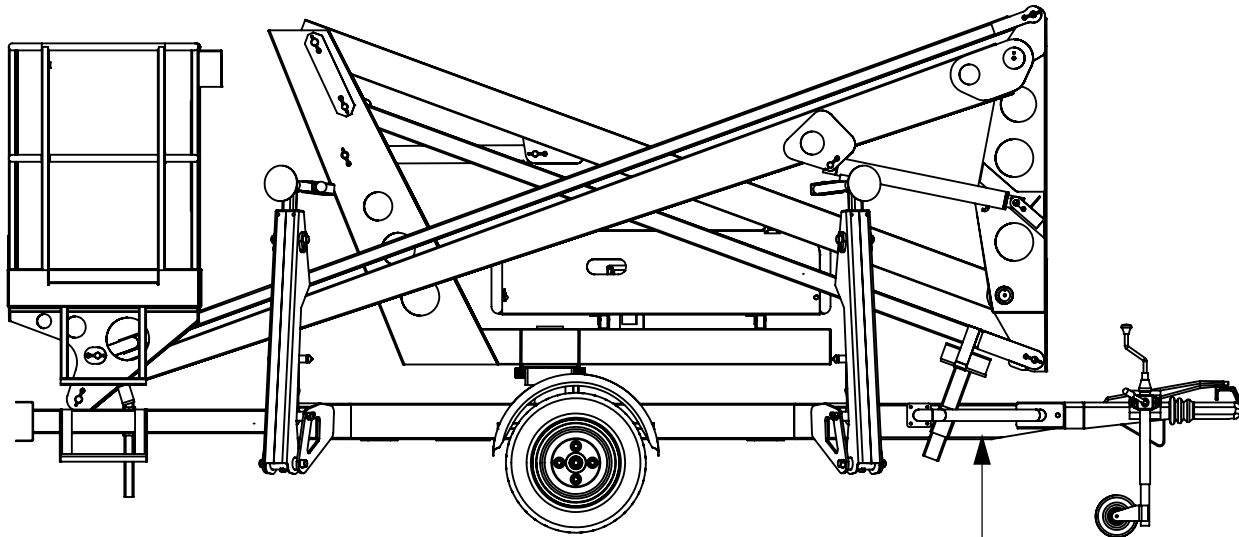
Operation MANUAL

TL34

This manual covers Serial Numbers 22223 to Current

When contacting UpRight Powered Access for service or parts information, always include the MODEL and SERIAL NUMBER from the machine nameplate.

The serial number is stmped into the chassis above the machine nameplate.
e.g. 7 # # #



MANUFACTURER	UpRight POWERED ACCESS		UpRight Powered Access IS A TRADING DIVISION OF: SANDFIELD GROUP BIRKLEY ROAD, WASHINGTON TYNE & WEAR, NE38 9DA TEL: +44 (0) 845 1 650 067
VIN			TYPE
TYPE APPROVAL			VARIANT
MAX GROSS WT		kg	SER NR
MAX AXLE WT	1 -	kg	YEAR
	2 -	kg	
MAX NOSE WT		kg	

PART 110 18-0060

UpRight
POWERED ACCESS
www.upright.com

WARNING

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

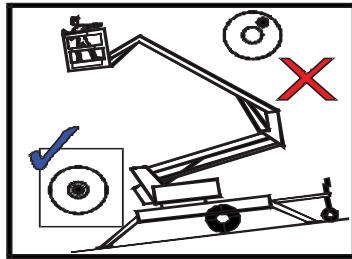
Safety Rules

Electrocution Hazard



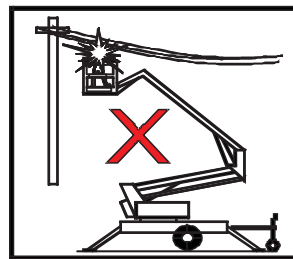
THIS MACHINE IS NOT INSULATED!

Tip Over Hazard



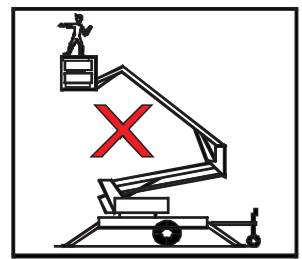
NEVER elevate the platform or move the machine while elevated. **Always** level the machine with the outriggers before elevating the platform.

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.

Always check the outriggers before entering the platform

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 "Platform Capacity" on page 7 for details.

The use and operation of the aerial work platform as a lifting tool or a crane **is prohibited!**

NEVER exceed the manual force allowed for this machine. See page 11 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 12 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 prefabricated concrete structures, etc., **is prohibited!**

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

It is prohibited to keep the entry gate in an open position 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 Powered Access.

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

CONTENT	SECTION
Introduction	1
Description of Equipment	2
Technical Specification	3
Working Envelope	4
Operator Requirements	5
Warning Notices	6-7
Towing Instructions	8
Pre-Start Checks	9-10
Batteries, & Power Pack	11
Setting Up	12-14
Extending Structure	15
Lowering Structure	16
Slewing Structure	17
Safety Harness & Emergency Controls	18-21
Stowing the Machine	22
Maintenance	23-26

The Aerial Access TL34 is a very versatile means of gaining access in difficult locations.

The machine is extremely safe in operation providing that basic rules are observed in setting up the machine.

Operators should have read and understood the contents of the manual, and received full training in the safe use of the machine before attempting to use it.

UpRight has a global reputation for innovation and a proud heritage in the design and manufacture of high quality powered 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, trailer mounted units 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 can offer complete solutions to meet even the most demanding access applications.

UpRight 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.

UpRight Powered Access is a member of the IPAF
International Powered Access Federation.

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 **TL34** is a trailer mounted work platform with a 2-man cage giving access to maximum height of 12.20m. It offers safe, versatile and easy access for two men plus tools up to a total of 215Kg. Its unique boom configuration allows this height to be reached while still offering compact closed dimensions and exceptional manoeuvrability. It is manufactured from steel hollow sections conforming to BS4360 1986. All joints are fully welded by Metal Inert Gas (MIG) or Manual Metal Arc (MMA) processes. The main pivots are set in bushed housings. The bushes are self-lubricating for minimum maintenance and long life. The main boom pins are chromed and all other pins are TuftridgTH coated.

The platform is powered by a 12V DC battery pack operating an electric motor which in turn drives a hydraulic pump. This provides a maximum hydraulic pressure output of 210 Bar max. Battery powered models are fitted with an 'on-board' battery charger. Limit switches are fitted to the stabilisers thereby ensuring that the booms cannot be elevated unless the stabilisers are first deployed. Machines equipped with hydraulic stabilisers are also fitted with a limit switch on the booms to ensure that the stabilisers cannot be operated when the booms are elevated. Lift is provided by single acting hydraulic cylinders on the top and bottom boom and rotation is achieved by the use of a hydraulic motor driving a pinion via a gearbox.

Control is provided by a live hydraulic system. Lift is controlled from monoblock bank valves, mounted in the cage and in the control cabinet at the ground, which allows precise control of the two platform functions (Lift and Rotate). The lift cylinders are fitted with solenoid operated check valves which ensure that in the event of hose failure, the platform will not descent without deliberate action being taken to lower the platform. The lift cylinders are also fitted with a flow control valve to control the rate at which the platform descends.

All equipment at ground level except the rotation motor is situated on the cabinet on the side of the platform.

Facility is provided for lowering the platform at ground level in the case of any emergency

Performance.

Maximum Working Height	12.20 m
Maximum Working Outreach:	5.00 m
Capacity (2 man working):	215 kg
Slewing Arc:	360 degrees°
Airborne Noise Emissions:	70 dB(A)

European Directives.

- 1) 2006/42/EC – the Machinery Directive.
- 2) 2004/108/EC – the Electromagnetic Compatibility Directive.
- 3) 2006/95/EC – the Low Voltage Directive.

The machine is designed and tested in accordance with European Standard EN280.

Operating Dimensions

Maximum Working Height	12.20 m
Maximum Cage Height	10.20 m
Maximum Outreach	5.00 m
Outrigger Footprint (manual)	3.6 m x 3.6 m
Outrigger Footprint (hydraulic)	3.7 m x 3.7 m

Cage Dimensions

Length	1.20 m
Width	0.80 m
Guard-rail Height	1.10 m
Toe-board Height	0.15 m

Travel Dimensions

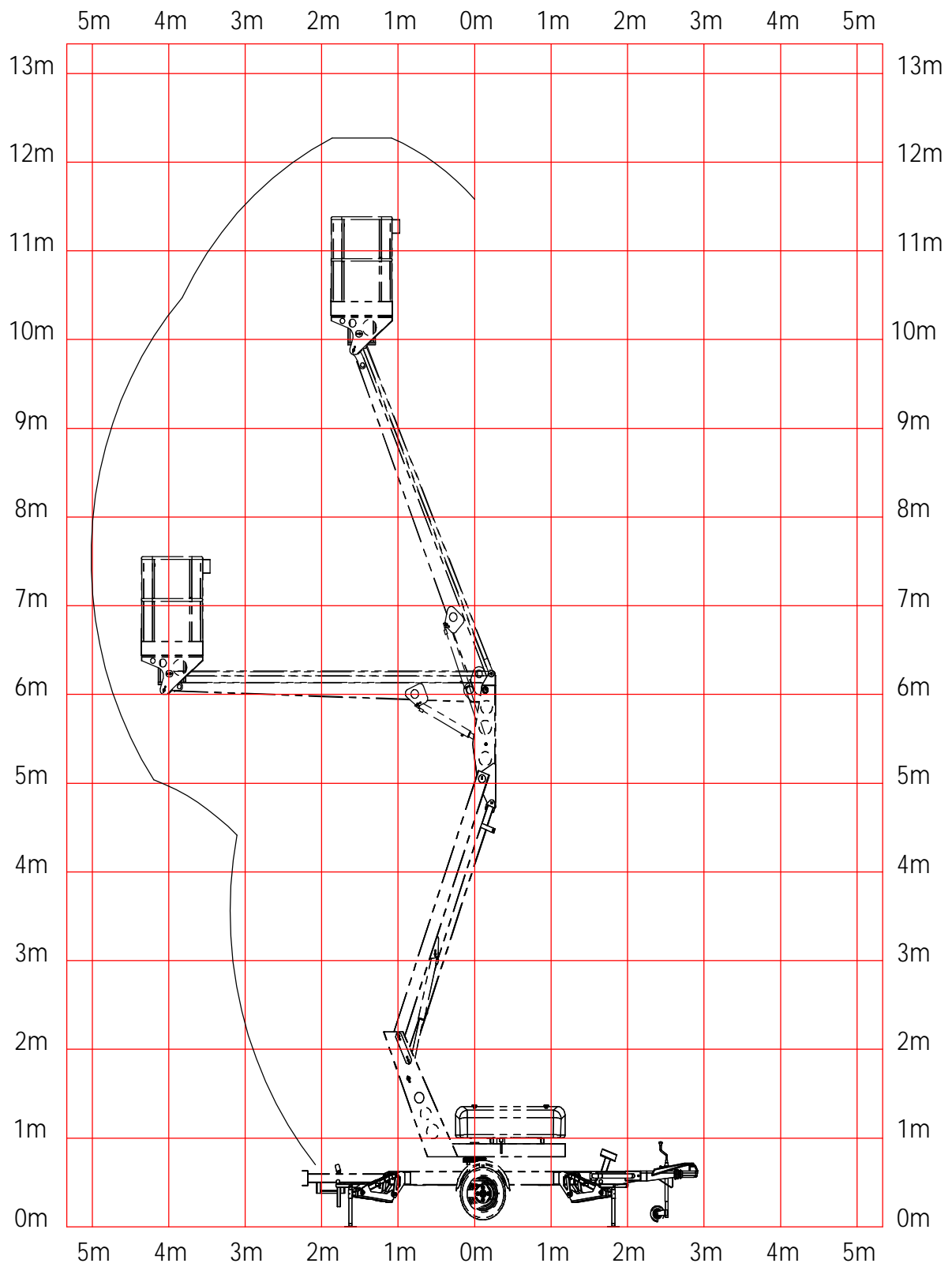
Towing Length	5.30 m
Closed Width	1.5 m
Closed Height	2.2 m
Weight (manual outriggers)	1300 kg

Operating Parameters

Safe Working Load	215 kg
Maximum Horizontal Pull	400 N
Maximum Wind Speed	12.5 ms ⁻¹
Rotation	360 °
Maximum Chassis Inclination	0.5 °
Vibration	Less than 2.5ms ⁻²
Operating Temperature Range	-20°C to +40°C

BUSHES	Acetol resin polymer with sintered bronze base (DX)
PIVOT PINS	EN 3B high tensile steel
TYRES	165 X 13 8ply
TYRE PRESSURE	3.8 Bar (55psi) cold
WHEEL NUTS TORQUE SETTING	100Nm (75Lbft)
BATTERIES	2 X 6v 225Ah (Heavy duty traction)
CHARGER	12vdc 25a – 110 OR 220Vac 50Hz

WORKING ENVELOPE



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.

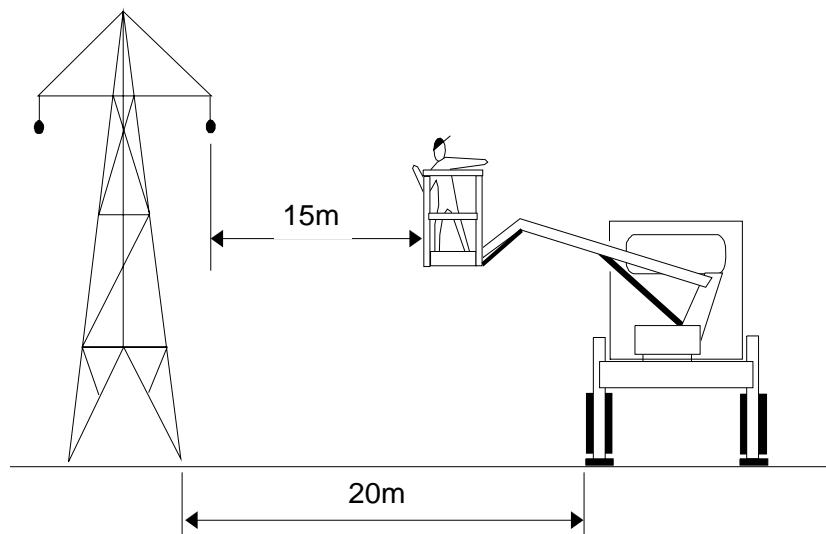
The stabilisers are designed to operate on firm level ground with a minimum bearing strength of 50N/cm².

The maximum load imposed by an outrigger is 10.3kN.

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

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, 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



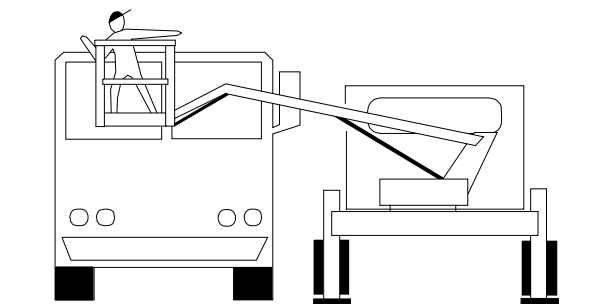
working distance for the TL34 is 20 metres. It is the operator's responsibility to ensure that, when working in the vicinity of live overhead high-voltage lines, the minimum safe working distance is maintained. Erect a simple barrier tape at the safe distance.

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.

WARNING NOTICES

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.

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.

Numbers 10-12 are not shown in this table.

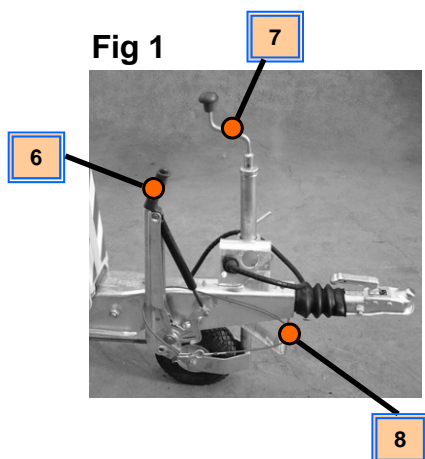
DESCRIPTION OF WIND		SPECIFICATION FOR USE ON LAND	M/Sec
0	CALM	<i>Calm – smoke rises vertically</i>	0-0.5
1	LIGHT AIR	<i>Direction of wind shown by smoke drift but not by wind vanes.</i>	0.6-1.5
2	LIGHT BREEZE	<i>Wind felt on faces; leaves rustle; ordinary vanes moved by wind.</i>	1.6-3.0
3	GENTLE BREEZE	<i>Leaves and small twigs in constant motion; wind extends light flag.</i>	3.5-5
4	MODERATE BREEZE	<i>Raises dust and loose paper; small branches are moved.</i>	6-8
5	FRESH BREEZE	<i>Small trees in leaf begin to sway; crested wavelets form on inland waterways.</i>	9-10
6	STRONG BREEZE	<i>Large branches in motion; umbrellas used with difficulty.</i>	11-13
7	NEAR GALE	<i>Whole trees in motion; inconvenience felt when walking against wind.</i>	14-17
8	GALE	<i>Breaks twigs off trees; generally impedes progress.</i>	18-21
9	STRONG GALE	<i>Slight structural damage occurs (chimney pots and slates removed)</i>	22-24

Approximate corrections for wind speeds at other heights are:
2m subtract 30%; 3m subtract 20%; 6m subtract 10%
15m add 10%; 30m add 25%

TOWING INSTRUCTIONS

The TL34 is designed to be towed from one site location to another behind saloon cars and light commercial vehicles (see vehicle manufacturers specification for suitability) at speeds up to 50mph (80km/h) where permitted paying regard to your relevant national traffic regulations. Because the trailer is fitted with auto-reverse brakes, always check the wheels when parking with the tow hitch facing up a slope.

1. Before towing, check the capacity of the vehicle being used. The standard machine weighs 1300 kg (manual outriggers). (Machine weight may be greater if optional extras are fitted)
2. Ensure that the road tyres and brakes are in good, serviceable condition.
3. Ensure that booms are fully lowered.
4. Ensure that all outriggers are fully raised and both spring locking pins on each outrigger are fully located in.
5. Use the jockey wheel to raise or lower the tow bar coupling to position the machine above the ball hitch on the towing vehicle.
6. Apply the handbrake.
7. Lower the tow bar coupling down onto the ball hitch using the jockey wheel (ensure correct engagement onto ball).
8. Connect the breakaway cable and lighting plug to the towing vehicle and raise the jockey wheel to its stowed position
9. Check to ensure that the trailer lights function when the towing vehicle lights are switched on.
10. Check the stabilisers are in the stowed position.
11. Release handbrake.
12. The trailer is now ready for towing.



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 machine for signs of wear and tear, damage, loose or missing parts.

2. **Wheels. (For towing only)**

Check tyres are at the correct pressure, **55 psi** (3.8 bar) and that the wheel nuts are tightened using the correct torque setting (100Nm).

3. **Hydraulic fluid.**

The hydraulic oil tank is located underneath the slew cover on the right hand side of the machine (looking from the cage end).

With the booms and outriggers in the transport position, the hydraulic oil level should be visible between the upper and lower marks of the dipstick.

See Fig 3



Do Not Overfill the Hydraulic Tank



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

Top up with ISO Grade 22 hydraulic oil if necessary.

4. **Safety Switches.**

Check all limit switch arms are free from damage and move easily, see Fig 2.

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

5. **Battery Power**

Check batteries are fully charged and topped up with distilled water (these are fitted under the slew cover) and that the Battery Isolating Plug is securely connected.

Hydrometer reading should be 1280-1320sg.

With machine level, the distilled water should cover the plates by approximately 6mm.

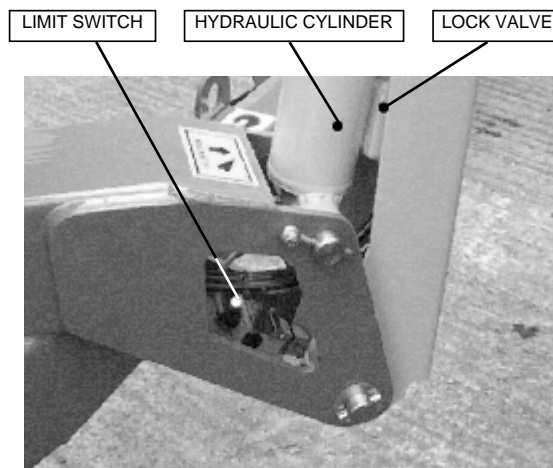


FIG. 2

6. Functional Checks.

- a. Move the machine, if necessary, to an unobstructed area to allow for elevation.
- b. Pull both Emergency stop Switches to the on position.
- c. Refer to 'setting up' and deploy the outriggers.
- d. From the Ground Controls test each machine function, lift and lower both Booms.
- e. With outriggers deployed, under load and top or bottom boom raised approximately 50mm, it must NOT be possible to operate the outrigger controls for hydraulic outrigger options.
- f. With the top and bottom booms raised approximately 500mm each, the unit switched off and the two Emergency Lower valves under the control cabinet open, check:
The emergency lower valves located on the lift cylinders lower the boom when pulled in a slow and controlled manner and that the boom movement is stopped on releasing the valve

Remember to close the two ball valves after this check.

To Reset the hydraulic system after checks;

- ☐ *Fully extend the Outriggers while still maintaining Level. (check the bubble)*
- ☐ *Using the ground controls, fully extend both Top and Bottom Booms.*

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

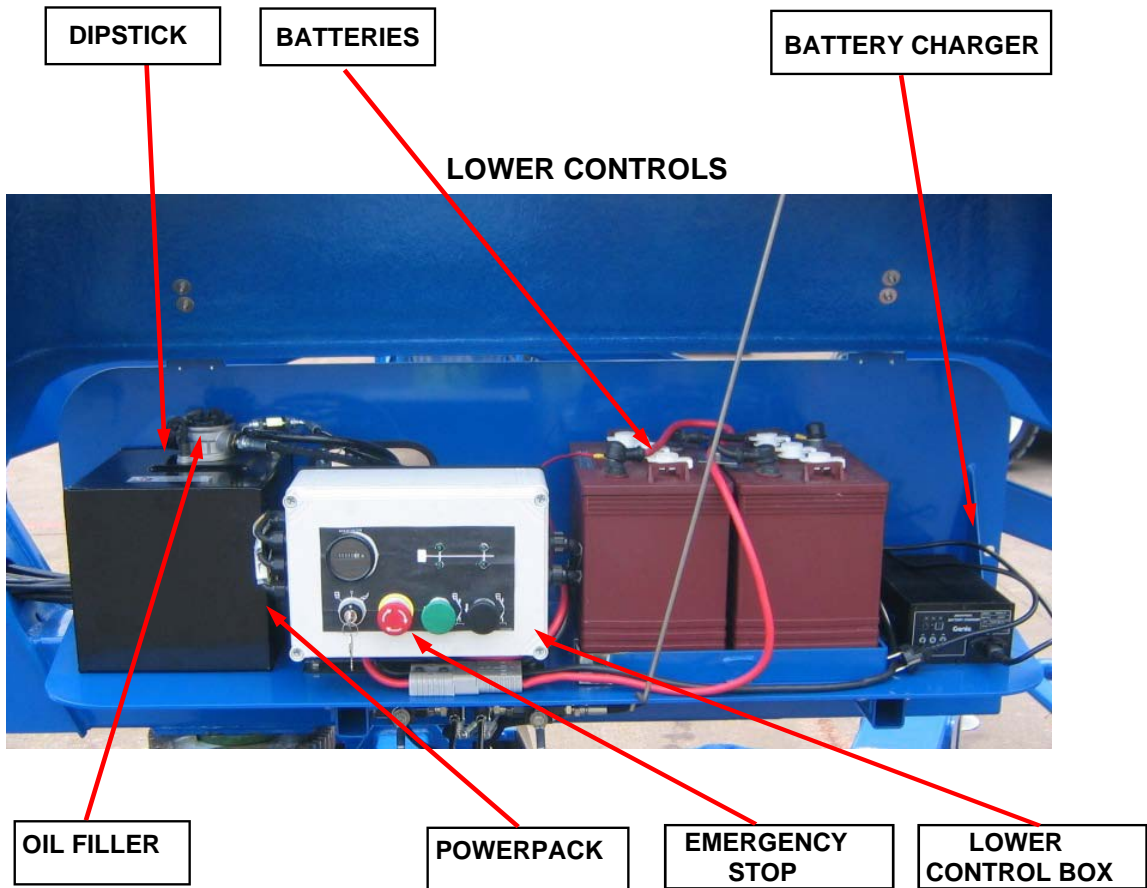


*If the Emergency Lower is used during normal operation, **DO NOT** use the machine, **Contact your local UpRight representative.***

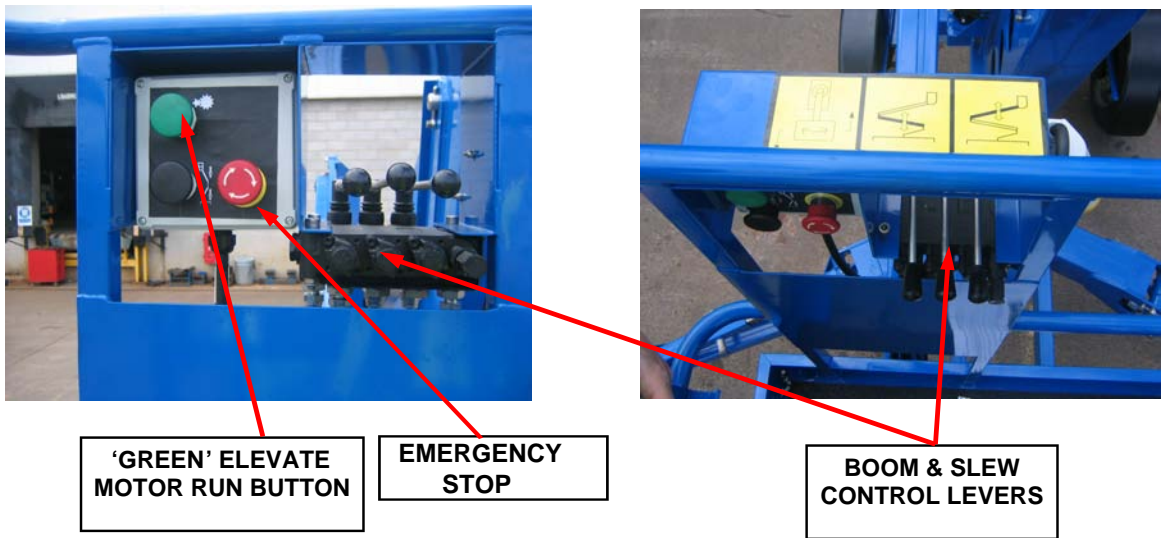
- g. From the cage controls test each machine function, lift and lower both Booms and slew clockwise and counterclockwise.
- h. Return the Booms to the stowed position.
- i. Emergency stop switches must operate correctly. Check that each stops the machine's controls and that restarting is prevented until all stop switches are unlatched. **See Fig 3**

CONTROLS, BATTERIES & POWER PACK

FIG. 3



CAGE CONTROLS



SETTING UP

MANUAL OUTRIGGERS.

1. Park the unit in an appropriate location at the workplace.
2. Apply the handbrake on the trailer and remove from the towing vehicle.

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



3. Manual Outriggers Only: Pull out the outrigger arms and allow the spring bolts to lock the stabilisers into position.

Ensure BOTH spring bolts on each Outrigger arm are fully located.



Wind down the screw jacks and level the machine using the level gauge mounted on the front of the chassis as a guide.

4. Lower the Outriggers two at a time starting at the tow bar end (No's 3&4) until the jockey wheel just clears the ground.
5. Lower Outriggers 1&2 until the green LED display indicates that they are under load. (Fig 4)
6. Repeat this sequence for Outriggers 3&4.

Take EXTREME care NOT to ground either the Basket, or the Jockey Wheel during the next step.

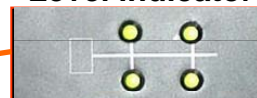


7. By alternating from 1&2 to 3&4, carefully inch down each pair of Outriggers until all four Outriggers are fully deployed, and the wheels are well clear of the ground.

Fig. 4



Level indicator



8. Now, by using the Level indicator (Fig.4), raise opposite Outriggers until the bubble and indicator ring are concentric (i.e., the bubble rests in the centre).

Bubble Indicator



9. Check that each LED on the Ground Control panel is still illuminated. This indicates that each foot is in firm contact with the supporting surface.

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



The maximum outrigger load is 10.3kN.



HYDRAULIC OUTRIGGERS

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



1. Park the unit in an appropriate location at the workplace.
2. Apply the handbrake on the trailer and remove from the towing vehicle.
3. **Hydraulic Outriggers Only:** Use the key switch select the 'Ground' control. Depress the 'motor run' button beside the outrigger control valve and operate each hydraulic lever until all four are 25 mm to 50 mm from the ground. See Fig 5
4. Lower the Outriggers two at a time starting at the tow bar end (No's 3&4) until the jockey wheel just clears the ground.
5. Lower Outriggers 1&2 until the green LED display indicates that they are under load. (Fig 7)
6. Repeat this sequence for Outriggers 3&4.

Take EXTREME care NOT to ground either the Basket, or the Jockey Wheel during the next step.

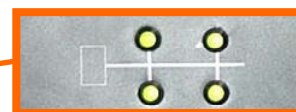


7. By alternating from 1&2 to 3&4, carefully inch down each pair of Outriggers until all four Outriggers are fully deployed, and the wheels are well clear of the ground.

Fig. 7



Level indicator



8. Now, by using the Level indicator (Fig.5), raise opposite Outriggers until the bubble and indicator ring are concentric (i.e., the bubble rests in the centre).
9. Check that each LED on the Ground Control panel is still illuminated. This indicates that each foot is in firm contact with the supporting surface.

Both road wheels MUST be off the ground prior to operating the booms.

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

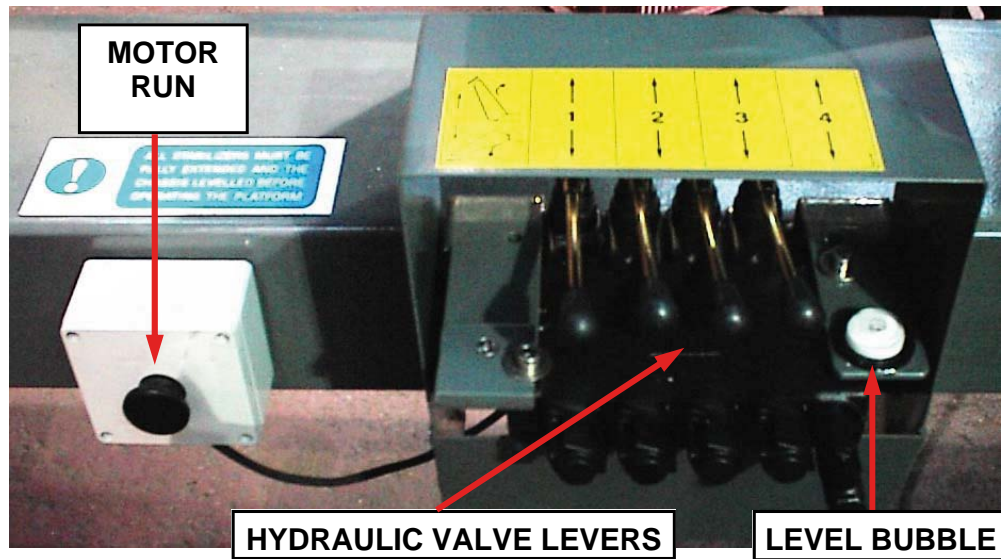


The maximum outrigger load is 10.3kN.



Hydraulic Outriggers

FIG. 5



EXTENDING STRUCTURE

From Cage Controls

1. At the Ground Control Station, turn the key towards the 'basket' icon.
2. Climb into the basket. Check that all emergency stop switches are released (twisting release). The platform may now be raised, lowered or slewed in any direction by operating the control levers at the basket, whilst depressing the 'Green' motor run button on the side of the control console. See **Fig 8**.
3. Push and hold the 'Green' Motor Run button on the control box (on machines with a footswitch in the cage, press the footswitch).
4. Lift the lever for the boom you require (top or bottom) UP as indicated on the label. The selected boom will elevate. Ascent speed can be controlled by varying how far the lever is lifted.
5. When the desired height is reached, allow the lever to return to it's rest (central) position and release the 'Green' motor run button (or footswitch).

Repeat procedures 3 to 5 for each boom.

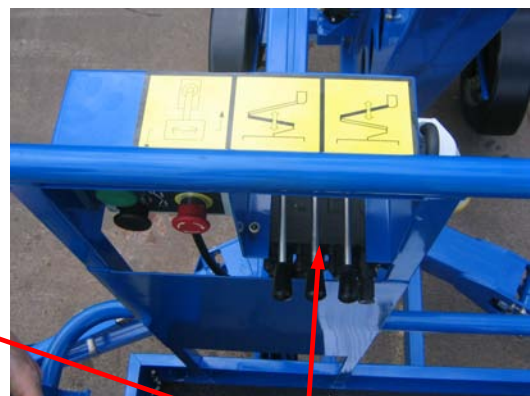


*The **SET-UP** section of this manual **MUST** be completed before extending the structure.*

CAGE CONTROLS – FIG.8



'GREEN' ELEVATE
MOTOR RUN BUTTON



BOOM
CONTROL LEVERS



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



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

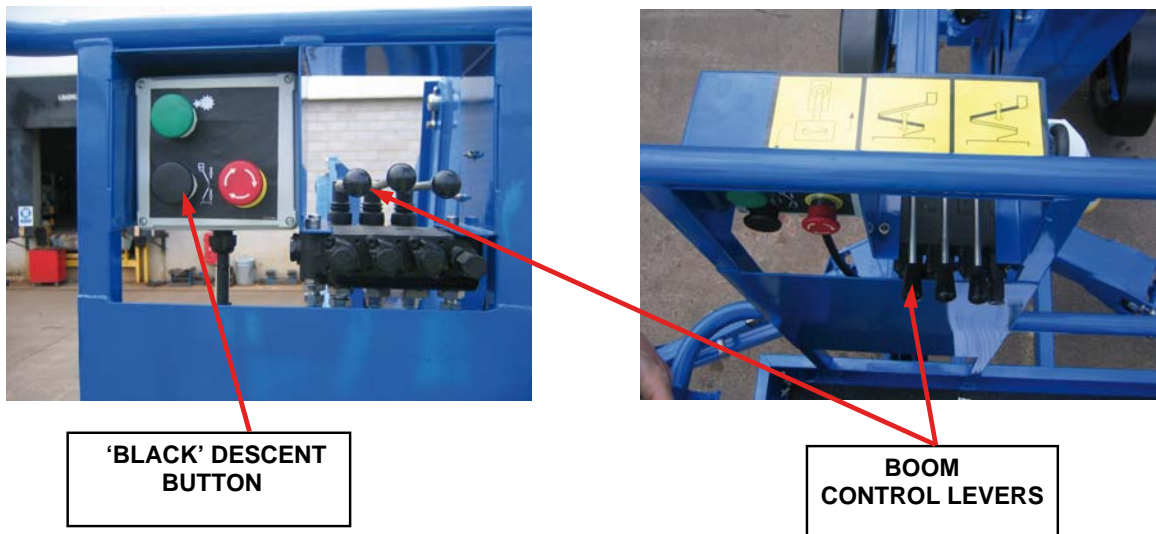
LOWERING STRUCTURE

From Cage Controls

1. Push and hold the 'Black' descent button on the control box (on machines with a footswitch in the cage, press the footswitch). See Fig 9
2. Push the lever for the boom you require (top or bottom) DOWN as indicated on the label. The selected boom will lower. Descent speed can be controlled by varying how far the lever is pushed down.
3. When the operation is complete, allow the lever to return to it's rest (central) position and release the 'Black' descent button (or footswitch).

Repeat procedures 1 to 3 for each boom.

Cage Controls - Fig. 9



SLEWING THE STRUCTURE

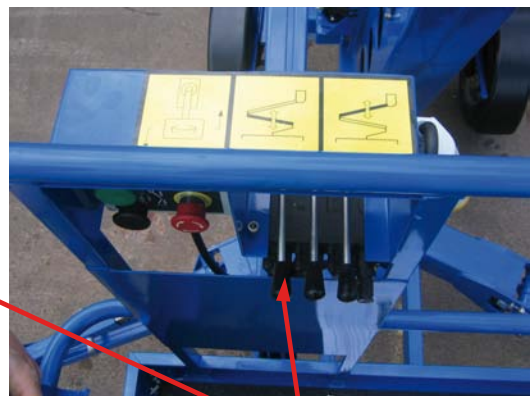
From Cage Controls

1. Push and hold the 'Green' Motor Run button on the control box (on machines with a footswitch in the cage, press the footswitch). See Fig 10
2. Push **DOWN** the slew/rotation lever to slew/rotate **LEFT** or **LIFT** the slew/rotation lever to slew/rotate **RIGHT**. Slew/Rotation speed can be controlled by varying how far the lever is moved.
3. When the operation is complete, allow the lever to return to it's rest (central) position and release the 'Green' motor run button (or footswitch).

Cage Controls Fig. 10



'GREEN' ELEVATE
MOTOR RUN BUTTON



SLEW
CONTROL LEVER

SAFETY HARNESS & EMERGENCY CONTROLS

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



Fig.11

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.



Fig.12

The emergency stops are 'Reset' by twisting.

EMERGENCY CONTROLS

Emergency Stop

Stop buttons are fitted on the machine to stop the motor in an emergency. In addition to the basket emergency stop button, an emergency stop is fitted at the base control station. The emergency stops can be reset by twisting (**Fig. 12**). Turning the key switch at the ground controls to the 'Off' position will also stop the machine.

Emergency Procedures (from the Ground) – With Power

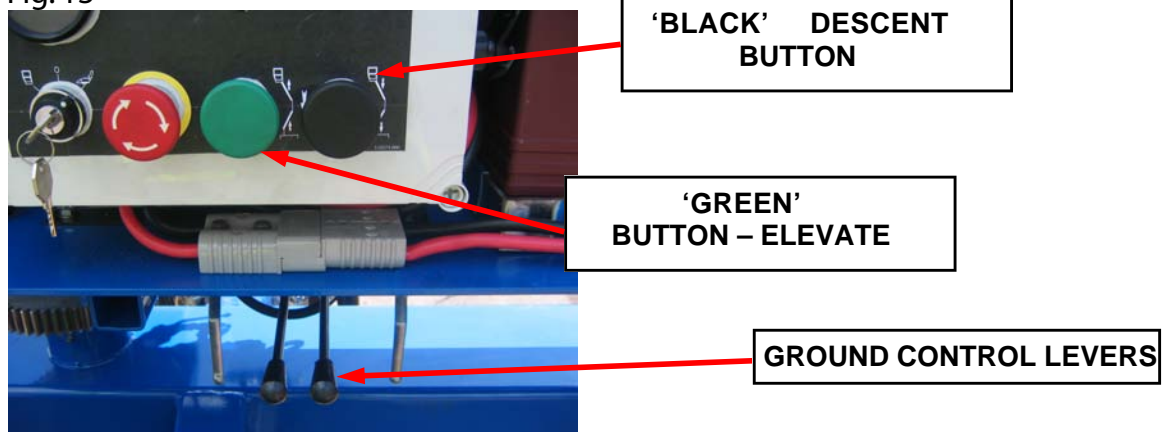
Top Boom.

To Elevate: Press '**Green**' Run Button and push ground control lever up
To Descend: Press '**Black**' Run Button and push ground control lever down

Bottom Boom.

To Elevate: Press '**Green**' Run Button and push ground control lever up
To Descend: Press '**Black**' Run Button and push ground control lever down

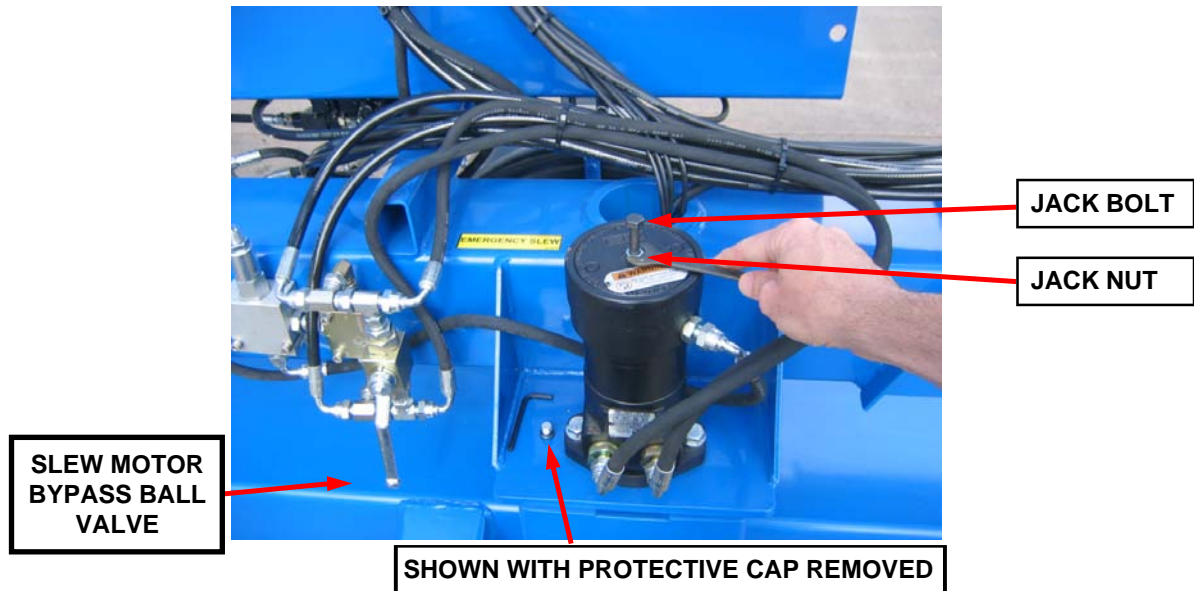
Fig.13



EMERGENCY CONTROLS

Emergency Slew / Rotate

Fig.14



1. Turn the slew motor bypass ball valve 90 degrees anticlockwise.
2. Remove the slew motor brake release protective cap using the Hex Key provided.
3. Screw the Jack Bolt and release the Motor Brake by tightening the Jack Nut against the top of the Slew Motor.
4. Manually slew the Machine.
5. Remember to remove the Jack Bolt, replace the Protective Cap and return the Ball Valve when finished.

A REPLACEMENT TOOL KIT FOR THIS OPERATION IS AVAILABLE UNDER PN 510305-000

EMERGENCY CONTROLS

Emergency Procedures (from the Ground) – Without Power

1. Turn the 2 ball valves fitted under the cabinet 90 degrees (**Fig 16**)– photo below shows normal operating position.

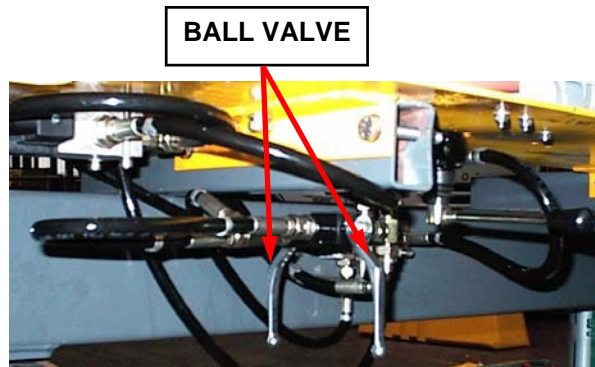


FIG. 16

2. Now pull on the red emergency lower knob on the solenoid fitted to the top and bottom boom cylinders. (**FIG. 17**)
Start with the bottom boom cylinder first to ease access to the top boom cylinder.
3. The 2 ball valves **MUST** be returned to the normal operating position (as shown) before operating the machine. If they are not, you will not be able to elevate the booms.

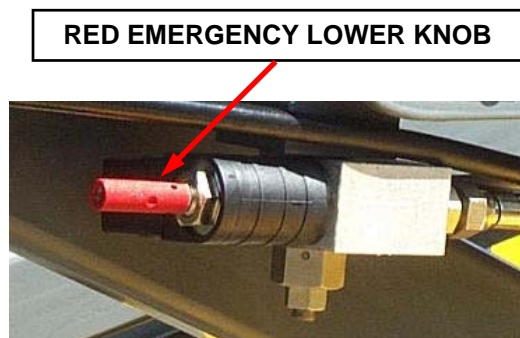


FIG. 17

Emergency Battery Isolating Plug

This plug when disconnected, will isolate the batteries from the power pack and operating circuits. (**FIG.18**)

**EMERGENCY BATTERY
DISCONNECT PLUG**

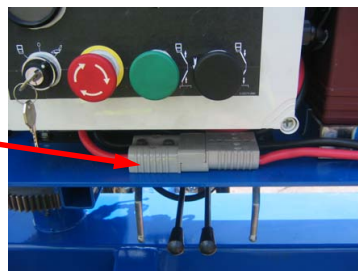


FIG. 18

NOTE: Before operation of the machine, it is important that both the Operator and some other responsible person on site, is aware of the position and function of the following:

Emergency Stop Buttons: **Fig.12**
Emergency Slew: **FIG. 14**

Emergency Lowering: **FIG. 16 & 17**
Battery Isolating: **FIG. 18**

STOWING THE MACHINE

1. Fully lower all the booms.
2. **Manual Outriggers** – wind up the screw jacks as far as they will go, unlock the spring bolts by pulling them out, then lift the outriggers until they are fully stowed. The spring bolt can then be released and the outrigger adjusted to lock the spring bolt in its hole.

Ensure BOTH spring bolts on each Outrigger arm are fully located.



Repeat this procedure for each outrigger.

Hydraulic Outriggers – Raise the outriggers by simultaneously depressing the 'Black' motor run button near the outrigger control valve and using the appropriate control levers, two at a time, alternating between the cage and tow bar end until the road wheels are in contact with the ground.

3. Only when the road wheels are in contact with the ground should the unit be lowered further until the jockey wheel makes contact with the supporting surface.

Now fully raise the outriggers until they are in the stowed position.

4. Switch off the platform and ensure all loose items/covers are secure before towing the unit.

The machine is now ready for transportation.

⚠ CAUTION ⚠

*Detailed descriptions of standard workshop procedures, safety principles and service operations are not included. Please note that this manual does contain warnings and cautions against some specific service methods which could cause personal injury or could damage a machine or make it unsafe. Please understand that these warnings cannot cover all conceivable ways in which service, whether or not recommended by **UpRight**, might be done, or of the possible hazardous consequences of each conceivable way, nor could **UpRight**, investigate all such ways. Anyone using service procedures or tools, whether or not recommended by **UpRight**, must satisfy themselves thoroughly that neither personal safety nor machine safety will be jeopardized.*



The unit must have a thorough inspection carried out every 6 months in accordance with LOLER Regulations 1998 or your relevant national regulations 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 machine for signs of wear and tear, damage, loose or missing parts.
2. **Wheels.**
Check tyres are at the correct pressure, 55 psi (3.8 bar) and that the wheel nuts are tightened using the correct torque setting (100Nm).
3. **Hydraulic fluid.**
The hydraulic oil tank is located underneath the slew cover on the left hand side of the machine (looking from the cage end) .With the booms and outriggers in the transport position, the hydraulic oil level should be visible between the upper and lower marks of the dipstick.
Top up with ISO Grade 22 hydraulic oil if necessary.



Do Not Overfill the Tank

4. **Safety Switches.**
Check all limit switch arms 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 top or bottom boom raised approximately 50mm, it must **NOT** be possible to operate the outrigger controls.
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 or your relevant national regulations 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.



Weekly Checks.



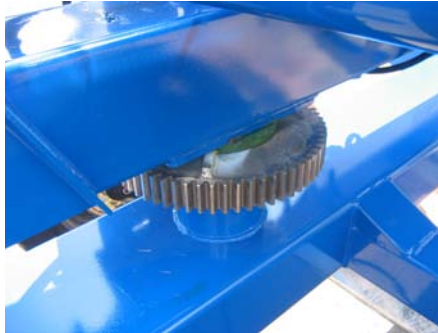
1. Apply grease to the slew gear wheel and all grease nipples.
2. Check battery acid level, top up with distilled water if required (maximum 6mm over plates when battery is standing level), and check mains cable wiring.

Monthly Checks.

1. Thorough machine inspection to be carried out by a trained and competent person. Complete daily and weekly checks and the following.

2. Slew Drive Gears.

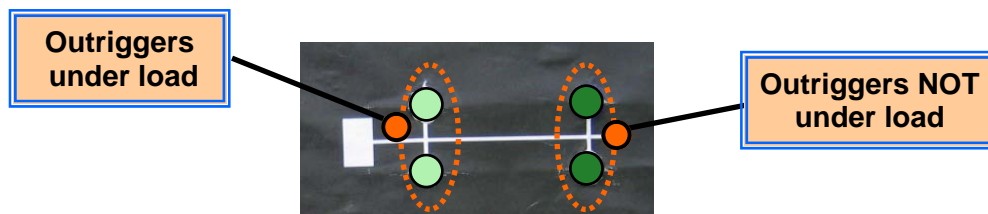
The slew drive gear is designed to be largely maintenance free. However, we recommend the gear teeth be greased on a monthly basis with a high pressure grease.



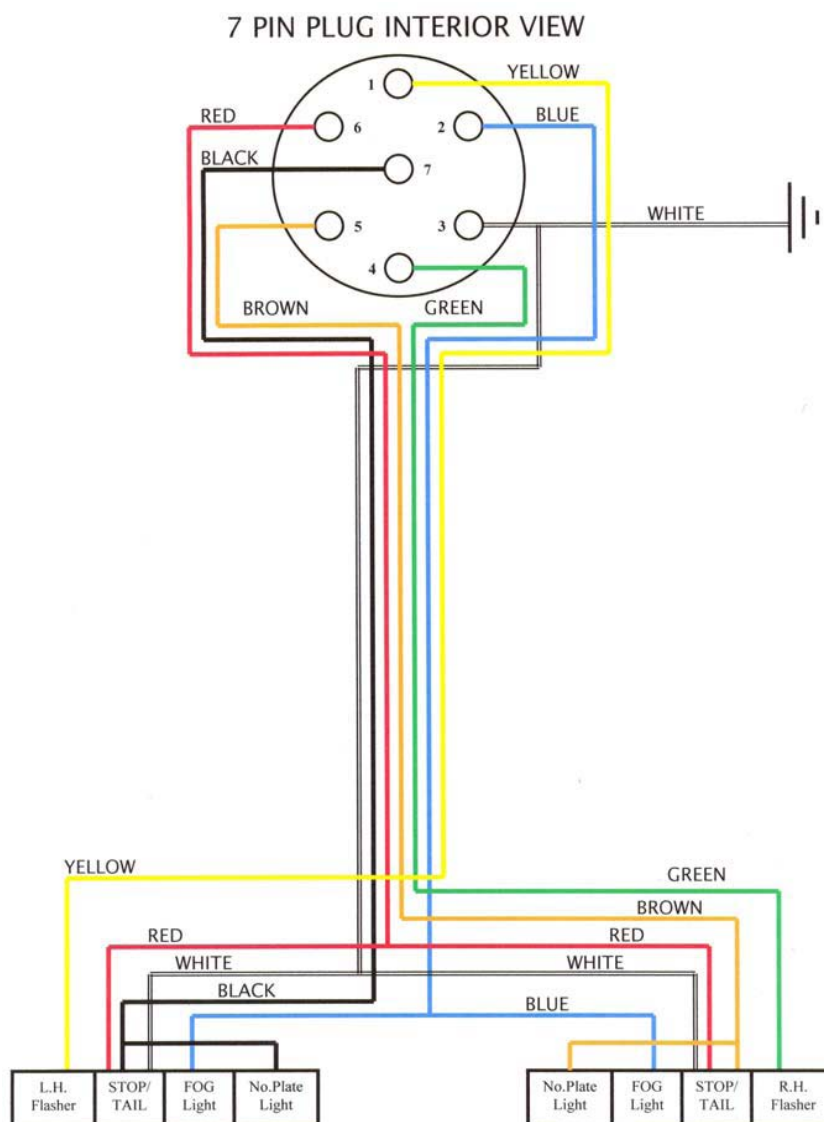
3. Checking Limit Switch Operation.

The limit switches require no maintenance, other than a visual inspection, on a pre operation basis. This is an important check, to ensure the switch is not mechanically damaged, and the roller is always in contact with the cam, when not under load.

The switch operation can be simply checked, by observing the LED display when deploying the stabilizers. As an outrigger foot touches the ground and becomes loaded, the appropriate light will change to green. This indicates that the switch contact has operated correctly



If the LED displays green at any other time then the machine must not be operated, until the fault is rectified.



Pin No.	Ref.	Colour	Function
1	L	YELLOW	L.H. INDICATOR
2	54G	BLUE	FOG LIGHT(S)
3	31	WHITE	EARTH
4	R	GREEN	R.H. INDICATOR
5	58R	BROWN	R.H. TAIL & No. PLATE
6	54	RED	STOP LIGHT
7	58L	BLACK	L.H. TAIL & No. PLATE



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