

# nifty heightrider 10 & 12

## shortform operating instructions



**self propelled access**

This book is designed as a guide to enable you to start work quickly and safely. It is not intended to replace the full manufacturer's operating instructions (a copy of which should be with your machine) which should be read and understood by anyone operating the machine.

## **SAFETY TIPS**

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### **ALWAYS**

- Inspect your machine before use.
- Check all operations including ground controls.
- Check ground conditions.
- Check clearance from overhead obstructions (power cables, building projections etc).
- Plan your task/job.
- Use sole boards under your outriggers at all times regardless of ground conditions.
- Stabilise and level machine before use.
- Wear a safety harness connected to a suitable anchorage point inside the platform.
- Operate all controls smoothly.
- Warn other people that you are there by means of flashing lights, sign and cones.
- MAKE SAFETY YOUR No.1 PRIORITY.

### **NEVER**

- Use an unsafe machine.
- Use an access platform to hoist loads like a crane.
- Overload cage/platform.
- Operate in strong winds (Check manufacturer's recommendation).
- Rest the cage on a structure or object to gain extra support.
- Attach your safety harness to a structure outside of the platform.
- Throw or drop anything from the platform.
- Use boxes, ladders or stand on handrails to gain additional height, if you can't reach, you need a bigger machine.
- Let an untrained person operate the access platform.
- Take unnecessary risks (hospitals and graveyards are full of dead heroes!)

**In the unlikely event that your machine develops a fault  
please contact the Facelift Tech Team on 01444 881100**

## **CONTENTS**

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## DAILY SAFETY CHECK LIST

Before use each day and at the beginning of each shift the aerial platform shall be given a visual inspection and functional test including, but not limited to, the following:

- 1) Check Operating and Safety Manuals are legible.
- 2) Check all decals and placards to see if in place and legible.
- 3) Check platform is securely fastened to platform support.
- 4) Check wheels and tyres.
- 5) Check batteries for condition, cleanliness, connections and electrolyte levels.
- 6) Check engine oil, fuel and coolant levels (if applicable).
- 7) Check installation of all guards, covers and boom clamps.
- 8) Check for loose, missing or damaged parts.
- 9) Check all hydraulic hoses and electrical cables and wiring.
- 10) Check hydraulic, fuel and air systems for leaks.
- 11) Do not exceed rated platform capacity as stated on the identification plate.
- 12) Check foot pedal for proper operation (if applicable).
- 13) Check all operating emergency controls – Select an area free from obstructions and hazards. Exercise extreme caution throughout the checking procedure especially when checking brakes
- 14) Check emergency hand pump.
- 15) Check brakes and all lights.
- 16) Check tilt sensor/alarm horn and beacons.
- 17) Check high engine and/or high drive limit switches.
- 18) Check and refer to Operating and Safety Manual for further daily/periodic checks and inspections.

## GROUND CONTROL OPERATION



**ALWAYS ALLOW THE ENGINE TO WARM UP BEFORE OPERATING.**

### ALL MODELS

- 1) Ensure all red emergency stops are out.
- 2) Turn key switch at ground control station to ground (i.e. fully down).
- 3) Ensure selector hand valve (if applicable) is turned to platform position i.e. fully up.
- 4) Battery electric models go to step 10).

### DIESEL ENGINE OR BI ENERGY MODELS

- 5) Turn duty selector in platform to BATT (Battery) or ENG (Engine).
- 6) If BATT (Battery) is selected go to step 10).
- 7) If ENG (Engine) is selected go to step 8). for a COLD ENGINE or step 9). for a WARM ENGINE.

- 8) COLD ENGINE. turn the main engine ignition switch (located beneath the front cover) through ON to GL. This engages the glow plug pre-heat system. Hold for 3-5 seconds then turn key fully to ST (start) position and the engine will fire.
- 9) WARM ENGINE turn the main engine ignition switch (located beneath the front cover) through ON to ST (start) position and the engine will fire.

### PETROL (GASOLINE) ENGINE OR PETROL (GASOLINE)/ELECTRIC MODELS

- 5) Turn duty selector in platform to BATT (Battery) or ENG (Engine).
- 6) If BATT (Battery) is selected go to Step 10).
- 7) If ENG (Engine) is selected go to Step 8). for a COLD ENGINE or Step 9). for a WARM ENGINE.
- 8) COLD ENGINE. turn the engine fuel tap on and engage the choke lever. Turn the main engine ignition through ON to ST (Start) and the engine will fire. Return the choke lever to its normal running position after the engine is started.
- 9) WARM ENGINE. turn the engine fuel tap on and turn the main engine ignition through ON to ST (start) position and the engine will fire.

### ALL MODELS

- 10) Push and hold green power button.
- 11) Select function and operate hand levers in full accordance with manufacturers Operating and Safety Manual.
- 12) To return control to platform turn key fully clockwise to up position.
- 13) When not in use return machine to stowed position, fully raise and stow all outriggers, turn key to centre off position, remove key and chock wheels.

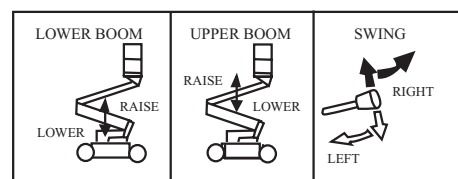
### EMERGENCY PROCEDURES

- 14) Push in red emergency stop to shut down all functions.
- 15) Operating manual hand pump (located adjacent to the base control valve) and lower using lever controls.
- 16) To swing booms fit a 1/2 inch drive socket to end of swing worm gear and crank round manually.

### BOOM FUNCTIONS

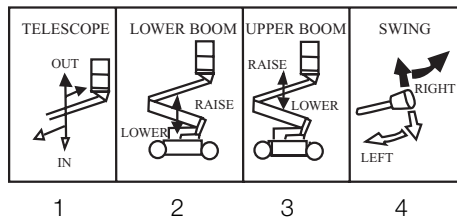
- A) Push and hold green "Power Control" button.

#### Standard HR10 and HR12 series



- 1 Operates Lower boom UP for up DOWN for down.  
2 Operates Upper boom UP for up DOWN for down.  
3 Operates SLEW (Swing) UP for right DOWN for left.

## HR12 with base telescope control



- B) Select lever 1, 2, 3 or 4 for desired boom function.
- 1 Operates Telescope UP for out DOWN for in.
  - 2 Operates Lower boom UP for up DOWN for down.
  - 3 Operates Upper boom UP for up DOWN for down.
  - 4 Operates SLEW (Swing) UP for right DOWN for left.



**ALWAYS ENSURE THE AERIAL PLATFORM IS ON A FIRM LEVEL SURFACE AND THE AREA IS FREE OF ANY OVERHEAD OBSTRUCTIONS.**

**ENGAGING THE RED EMERGENCY STOP BUTTON WILL SHUT DOWN THE ENGINE, AND THE ELECTRIC CIRCUIT PREVENTING OPERATION OF ANY FUNCTION.**

## PLATFORM CONTROL OPERATION



**NEVER START THE NIFTYLIFT IF YOU SMELL PETROL (GASOLINE), LIQUID PROPANE OR DIESEL. THESE FUELS ARE FLAMMABLE.**



**BEFORE OPERATING THE NIFTYLIFT ENSURE THAT EACH OPERATOR HAS READ AND FULLY UNDERSTOOD THE OPERATING MANUAL. FAILURE TO DO SO MAY RESULT IN DEATH OR SERIOUS INJURY.**

### ALL MODELS

- 1) Ensure all red emergency stops are out.
- 2) Turn key switch at ground control station fully up to platform position.
- 3) Ensure selector hand valve (if applicable) is turned to platform position i.e. fully up.
- 4) Battery electric models go to step 10.

### DIESEL ENGINE OR BI ENERGY MODELS ONLY

- 5) Turn duty selector in platform to BATT (Battery) or ENG (Engine).
- 6) If BATT (Battery) is selected go to Step 10).
- 7) If ENG (Engine) is selected go to Step 8) for cold engine or Step 9) for a warm engine.
- 8) COLD ENGINE Turn the main engine ignition switch (located beneath the front cover) through ON to GL; this engages the glow plug pre-heat system. Hold for 3-5 seconds then turn key fully to ST (start) position and the engine will fire.
- 9) WARM ENGINE Turn the main engine ignition switch (located beneath the front cover) to ON. Push the BLACK start button located behind the main push-button control station and the engine will fire.

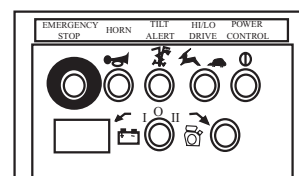
### PETROL (GASOLINE) ENGINE OR PETROL (GASOLINE)/ELECTRIC MODELS ONLY

- 5) Turn duty selector in platform to BATT (Battery) or ENG (Engine).
- 6) If BATT (Battery) is selected go to Step 10).
- 7) If ENG (Engine) is selected, ensure the fuel tap is turned to the ON position and then go to Step 8) for cold engine or Step 9) for a warm engine.
- 8) COLD ENGINE (From the ground only) turn the engine fuel tap on and engage the choke lever. Turn the main engine ignition through ON to ST (Start) and the engine will fire. Return the choke lever to its normal running position after the engine is started.
- 9) WARM ENGINE Ensure the main engine ignition switch is ON. Push the BLACK start button located behind the main push button control station and the engine will fire.

### ALL MODELS

- 10) Ensure key switch selector is turned to ON or BATT (Battery) if applicable.
- 11) Depress foot switch or push and hold green power button.
- 12) Select function and operate hand levers in full accordance with manufacturers operating and safety manual.
- 13) When not in use return booms to stowed position. Fully raise and stow all outriggers. Turn key switch at ground control to centre off position, remove key and chock wheels.

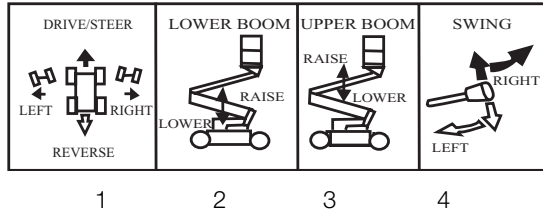
## PLATFORM PUSHBUTTON CONTROLS STATION



(BI-ENERGY MODEL SHOWN)

## DRIVE AND BOOM FUNCTIONS

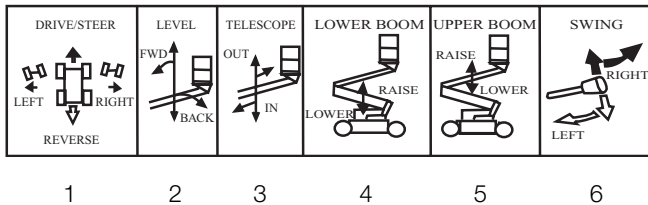
### HR10 series only



Select lever 1, 2, 3 or 4 for desired function.

- 1 Operates Drive and Steer  
(see explanation in Section: Driving Controls)
- 2 Operates Lower Boom  
UP for up                      DOWN for down
- 3 Operates Upper Boom  
UP for up                      DOWN for down
- 4 Operates Swing  
UP for right                      DOWN for left

### HR12 series only



Select lever 1, 2, 3, 4, 5, or 6 for desired function.

- 1 Operates Drive and Steer  
(see explanation in Section 4.4.1)
- 2 Operates Platform Lev.  
FWD for fwd                      BACK for back
- 3 Operates Telescope  
UP for out                      DOWN for in
- 4 Operates Lower Boom  
UP for up                      DOWN for down
- 5 Operates Upper Boom  
UP for up                      DOWN for down
- 6 Operates Swing  
UP for right                      DOWN for left

## STARTING THE ENGINE FROM THE PLATFORM



**NEVER START THE NIFTYLIFT IF YOU CAN SMELL PETROL (GASOLINE), LIQUID PROPANE OR DIESEL. THESE FUELS ARE HIGHLY FLAMMABLE.**

**\*\*\*\*FOR COLD START PROCEDURES SEE PLATFORM CONTROL OPERATION: STEP 8**

- A) Ensure main engine ignition located below front cover is turned to ON position.
- B) Ensure that all EMERGENCY STOPS are not engaged (i.e. must be fully out).
- C) Ensure the key switch selector located at the ground control station is turned to platform (i.e. fully up).
- D) Ensure the duty selector in the platform is in the ENG (Engine) position.
- E) Push the BLACK start button.
- F) The engine will automatically rev up if the booms are in the stowed position and the green power control pushbutton, or the footswitch, if applicable, is depressed, thus allowing fast travel speed – when selected on the Hi/Lo selector.
- G) To shut down the engine from the platform simply turn the duty selector to OFF or BATT (Battery) or in an emergency depress the RED Emergency stop button.

## POWER SYSTEM CHANGEOVER

### ENGINE TO BATTERY

- 1) Engage any RED Emergency Stop button to shut down the engine.
- 2) Re-set RED Emergency Stop button.
- 3) Turn the duty selector in the platform to BATT (Battery).

### BATTERY TO ENGINE

- 1) Ensure all RED Emergency Stops are out.
- 2) Ensure main engine ignition switch located at the ground is turned to ON.
- 3) Turn the duty selector in the platform to ENG (Engine).
- 4) Push the BLACK start.

### PETROL (GASOLINE) TO LPG

- 1) Locate petrol shut-off valve on carburettor, and turn petrol to OFF position.
- 2) Run engine until all of the Petrol is exhausted, i.e. engine stops.
- 3) Open valve on gas bottle, introducing supply to the vapouriser.
- 4) Turn engine over until it fires, allow vapouriser to achieve running temperature before using machine. If engine runs erratically, check that all petrol has been used from bowl.

### LPG TO PETROL (GASOLINE)

- 1) Turn gas off by shutting valve on the bottle – ensure that it is fully closed.
- 2) Open fuel shut-off valve on engine carburettor, and allow it to fill with petrol.
- 3) Turn engine over until it fires.

## DRIVING CONTROLS

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### STOWED



**DO NOT OPERATE THE NIFTYLIFT WHILST ELEVATED UNLESS ON A FIRM, LEVEL SURFACE FREE FROM ANY POSSIBLE OBSTRUCTIONS OR HAZARDS BOTH AT GROUND LEVEL AND OVERHEAD.**

- 1) Check proposed route for possible hazards, obstructions and personnel.
- 2) Depress footswitch located in platform floor (if applicable).
- 3) Use Hi/Lo selector on platform pushbutton control station to determine speed. (See section Platform Pushbutton Controls Station).  
HIGH DRIVE – GIVES HIGH SPEED AND LOW GRADEABILITY  
LOW DRIVE – GIVES LOW SPEED AND HIGH GRADEABILITY
- 4) Select drive joystick from hand lever controls (see Section Platform control operation) and
  - A Up for FORWARDS
  - B Down for REVERSE
  - C Left for STEER LEFT
  - D Right for STEER RIGHT
- 5) All control levers give a fully proportional response, therefore the more the lever is moved away from the centre (off) position the faster the function will become.
- 6) Maximum drive speed is only attainable when all booms are fully stowed and the Hi/Lo selector is in the Hi position.
- 7) When driving with the booms fully stowed, the tilt alarm is bypassed to allow the Niftylift to be driven in areas where the slope exceeds the five degree working limit. In normal operation the drive is therefore unaffected when driven onto a slope in excess of five degrees until the booms are raised, whereupon the drive would be disabled and the tilt alarm sounds continuously.
- 8) Under no circumstances should any Niftylift SP series machine be driven on slopes exceeding 25%, with the booms fully stowed.

### ELEVATED



**DO NOT OPERATE THE NIFTYLIFT WHILST ELEVATED UNLESS ON A FIRM, LEVEL SURFACE FREE FROM ANY POSSIBLE OBSTRUCTIONS OR HAZARDS BOTH AT GROUND LEVEL AND OVERHEAD**

- 1) Check proposed route for possible hazards, obstructions and personnel.
- 2) Depress footswitch located in platform floor (if applicable).

- 3) Only Low speed will be attainable regardless of position of Hi/Lo selector.
- 4) Select drive joystick from hand lever controls
  - A Up for FORWARDS
  - B Down for REVERSE
  - C Left for STEER LEFT
  - D Right for STEER RIGHT
- 5) Control levers give a fully proportional response therefore the more the lever is moved away from the centre OFF position the faster the function will become.



**ALL NIFTYLIFTS ARE FITTED WITH A TILT ALARM – PRE-SET IN THE FACTORY. ONCE ENERGISED THE NIFTYLIFT WILL LOSE ALL POWER TO DRIVE FUNCTIONS AND A LOUD AUDIBLE ALARM WILL BE ACTIVATED. TO DE-ACTIVATE, LOWER THE BOOMS FULLY TO STOWED POSITION AND RE POSITION ON FIRM LEVEL GROUND.**

**IF ALARM SOUNDS -DESCEND IMMEDIATELY AND RE- LEVEL MACHINE BASE.**

## BOOM CONTROLS

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**DO NOT OPERATE THE NIFTYLIFT WHILST ELEVATED UNLESS ON A FIRM, LEVEL SURFACE FREE FROM ANY POSSIBLE OBSTRUCTIONS OR HAZARDS BOTH AT GROUND LEVEL AND OVERHEAD.**

- 1) Never exceed the maximum platform as capacity as stated on identification plate.
- 2) Check below, above and around platform for any obstruction or hazards before operating any function.
- 3) Depress the foot switch located in the platform floor (if applicable).
- 4) Select hand lever controls marked 2,3,4,5,6 (see section: Platform Control Operation)



**IF ALARM SOUNDS – DESCEND IMMEDIATELY.**

**THIS MACHINE IS NOT ELECTRICALLY INSULATED. DO NOT WORK WITHIN 10FT (3M) OF OVERHEAD CABLES EXCEEDING 415 VOLTS.**

## GENERAL



**CHECKING THE OPERATION OF THE EMERGENCY CONTROLS EVERY DAY AND/OR BEFORE EACH SHIFT IS AN ESSENTIAL PART OF THE OPERATORS DUTIES.**

The operator and all ground personnel must be thoroughly familiar with the location and operation of the **EMERGENCY CONTROLS**.

### **IN THE EVENT OF AN INCAPACITATED OPERATOR.**

Turn key switch selector at ground control station to ground (i.e. fully down). Lower on ground controls as detailed under Section: Ground Control Operation.

### **IN THE EVENT OF MACHINE FAILURE.**

If all machine power is lost, the Emergency Handpump can be used to provide the hydraulic power to manoeuvre the machine.

Lower the platform using handlever controls in platform or at ground control station.



**FOLLOWING AN EMERGENCY DESCENT RECOVERY OF THE PLATFORM, FULLY EXTEND AND RETRACT ALL CYLINDERS FROM GROUND CONTROL STATION BEFORE USING THE MACHINE.**

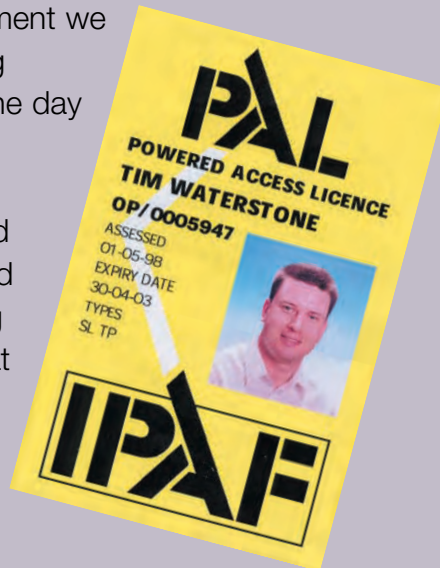
### **TO ROTATE PLATFORM IN AN EMERGENCY.**

Fit 1/2 inch drive socket on to end of slew worm gear and crank round manually.

# operator training centre

When hiring access equipment we strongly recommend taking advantage of one of our one day operator training courses

As Facelift is an accredited IPAF (Independent Powered Access Federation) training centre you can be sure that your staff will be trained to a high standard and receive an internationally recognised qualification.



Courses can take place on your own premises or at one of our training centres, situated in Hickstead, Iver, Southampton and Liverpool.

We can train your personnel on any of the following equipment:

- (SL) Scissor Lift
- (SPB) Self Propelled Boom
- (VMP26) Truck/Van mounted to 26m
- (VMP200) Truck mounted over 26m
- (VPP) Vertical Personnel Platform
- (TP) Trailer/Push around

The one day course\* covers site safety, practical demonstration, sole usage and site risks and includes a theory test.

\*(two day course for VMP200)

Successful candidates are issued with the IPAF PAL card, widely accepted by both the CITB and Health And Safety Executive.

For further information or to arrange a training course call us today on:  
0800 0 72 55 72

