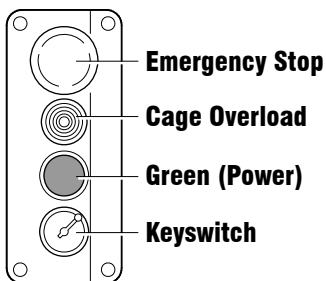


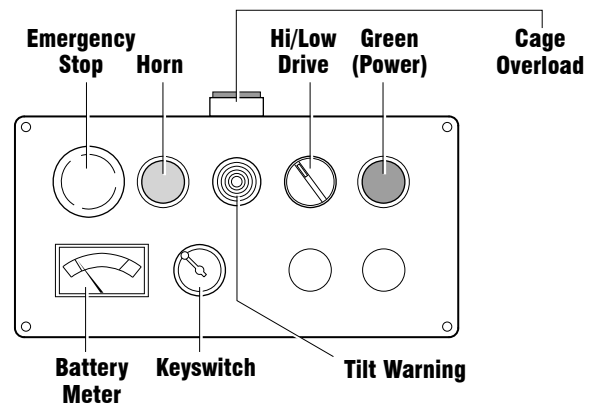
Nifty HR12

- 1) Cage/Platform
- 2) Cage Controls
- 3) Ground Controls – Buttons
- 4) Ground Controls - Levers
- 5) Lower Boom
- 6) Upper Boom
- 7) Cage/Ground Selector
- 8) Manual Hand Pump
- 9) Mains Power Input

Ground Controls



Cage Controls



Ground Control Levers



Lower Boom **Upper Boom** **Slew**

Push and hold green power button
Select lever for desired boom function

Cage Control Levers



Drive/Steer **Cage Levelling** **Tele Boom** **Lower Boom** **Upper Boom** **Slew**

Always operate the Niftylift in accordance with the manufacturers full Operating & Safety Instructions supplied with each model.

1 DAILY SAFETY CHECKS

- 1) **Labels & Manuals:** Check all labels, placards and Operating & Safety manual (located in the box within the platform) are in place and legible.
- 2) **Structure:** Check there are no loose, missing, damaged or malfunctioning components including but not limited to: chassis, booms, platform, platform gate (free to close under gravity), all welds, guards, covers, boom clamps, brakes, wheels, tyres and outriggers / stabilisers (if applicable). Ensure that platform is free from debris, grease or oil that could cause slipping or tripping hazards.
- 3) **Warnings & Switches:** Check there are no loose, missing, damaged or malfunctioning components including but not limited to: platform load sensor, tilt sensor and / or alarm horn, foot pedal, high engine and / or high drive limit switches, micro switches, lights and beacons.
- 4) **Controls:** Check all operating, emergency and manual descent controls function correctly – select an area free from obstructions and hazards, and exercise extreme caution.
- 5) **Hoses & Wiring:** Check there is no damage to or leaks from hydraulic, fuel and air systems, electrical cables and wiring.
- 6) **Power Systems:** Check batteries, engine oil and coolant (if applicable) for condition, cleanliness, connections and correct fluid levels.
- 7) **Personal Protective Equipment:** Check that full body safety harnesses, short lanyards, and hard hats are in good condition and fit for purpose.

2 GROUND/PLATFORM CONTROLS

- 1) Check below, above and around the platform for any obstruction or hazards before operating any function.
- 2) Ensure all red emergency stops are out.
- 3) **Ground:**
 - (i) Turn the key switch at the ground control station to ground (i.e. fully down).
 - (ii) Ensure function selector hand valve is turned to Ground position (i.e. fully down).
- 4) **Platform:**
 - (i) Turn the key switch at the ground control station to Platform (i.e. fully up).
 - (ii) Ensure function selector hand valve is turned to Platform position (i.e. fully up).
- 5) Push and **hold** green power button.
- 6) Select the boom function required and operate hand levers in full accordance with manufacturers Operating and Safety manual.
- 7) When not in use return machine to stowed position. Turn key switch at ground control to centre off position, remove key and chock wheels.

3 DRIVING CONTROLS

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) Push green power button or depress foot switch located in platform floor (if applicable).
- 3) Use the **Drive Speed** selector on the platform control station to determine speed.

High Drive (Hare) - GIVES HIGH SPEED AND LOW GRADEABILITY.

Low Drive (Tortoise) - GIVES LOW SPEED AND HIGH GRADEABILITY.

N.B. High Drive is only available when the booms are in the stowed position. The HR12 will default to Low Drive speed whenever the booms are elevated.

- 4) Select drive joystick from the platform control box.
 - A. Up for **FORWARD**
 - 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.

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 THE STOWED POSITION AND RE-POSITION BASE ON FIRM, LEVEL GROUND.

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

4 EMERGENCY CONTROLS

IN THE EVENT OF AN INCAPACITATED OPERATOR

Turn the key switch selector at ground control station to **ground** (i.e. fully down). Ensure function selector hand valve is turned to **Ground** position (i.e. fully down). Manoeuvre the machine using the ground controls as described previously.

IN THE EVENT OF MACHINE FAILURE

If all machine power is lost, the Manual Hand pump can be used to provide the hydraulic power to manoeuvre the machine. Operating the Manual Hand pump provides flow to the valve block selected at the ground controls. Hence the ground person can give hand pump flow to enable the Platform operator to move the machine, or control can be taken at the Base as described above, to enable the ground operator to pump and at the same time, manoeuvre the machine using the Ground hand levers. If initial movement of the machine allows the master alarm to reset, normal controls will be available.

Note: If the machine is fitted with a cage overload system, and the cage comes into contact with a fixed object whilst operating at height, this would be detected as an overload condition. All power to the machine controls would be lost, requiring the machine to be recovered using the **Manual Hand Pump**. It is sufficient for the cage to be manoeuvred away from the collision point to re-set the cage weigh mechanism, thereby restoring normal machine operation. The cage could then be brought down using the controls as described previously.

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

5 OPERATIONAL SAFETY

- When operating your Niftylift, your safety is of utmost concern. In order to fully appreciate all aspects of the machines operation it should be ensured that each operator has **READ** and fully **UNDERSTOOD** the relevant manual covering machine use, maintenance and servicing. If any doubts exist concerning any points covered in your manual, contact your local dealer or Niftylift Ltd.
- Before using any Niftylift, thoroughly inspect the machine for damage or deformation to all major components. Likewise, check the control systems for hydraulic leaks, damaged hoses, cable faults or loose covers to electrical components. At no time should damaged or faulty equipment be used - Correct all defects before putting the platform to work. If in doubt, contact your local dealer or Niftylift Ltd.
- **THE MANUFACTURER HAS NO DIRECT CONTROL OVER THE MACHINE APPLICATION AND USE. THEREFORE CONFORMANCE WITH GOOD SAFETY PRACTICES IS THE RESPONSIBILITY OF THE USER AND HIS OPERATING PERSONNEL. FAILURE TO UNDERSTAND AND FOLLOW ALL SAFETY RULES COULD RESULT IN SERIOUS INJURY OR DEATH.**
- Only trained persons will be permitted to operate the Niftylift.
- Always operate the Niftylift in full accordance with the manufacturers Operating & Safety Instructions for that model.
- Before use each day and at the beginning of each shift the Niftylift shall be given a visual inspection and functional test including, but not limited to, operating and emergency controls, safety devices, personal protective clothing, including fall protection, air, hydraulic and fuel system leaks, cables and wiring harness, loose or missing parts, tyres and wheels, placards, warnings, control markings and Operating and Safety Manuals, guards and guard rail systems and all other items specified by the manufacturer.
- Any problems or malfunctions that affect operational safety must be repaired prior to use of the platform, with specific regard to any safety components refer to the Parts Manual for part numbers and details. If in doubt, contact Niftylift Ltd.
- Always ensure that all warning labels, instructions, placards, control markings and Safety Manuals are intact and clearly legible. If replacements are required contact your local dealer or Niftylift. Always observe and obey safety and operating instructions on such labels.
- Do not alter, modify or disable in any way the controls, safety devices, interlocks or any other part of the machine.
- Before the Niftylift is used and during use the user shall check the area in which it is to be used for possible hazards such as, but not limited to, uneven ground drop-offs, holes, bumps, obstructions, debris, floor and overhead obstructions, high voltage conductors, wind and weather, unauthorised persons and any other possibly hazardous conditions.
- Never exceed the maximum platform capacity, as indicated on the decals and machine serial plate.
- Never position any part of the Niftylift within 4.0m, (12ft) of any electrical power line, conductor or similar not exceeding 66kV. (Minimum span 125m).
- **THIS MACHINE IS NOT INSULATED.** If in doubt, contact the appropriate authorities.
- On entering the platform, ensure that the drop down entry bar is closed afterwards.
- Use of an approved safety belt and lanyard, hardhat and appropriate safety clothing is mandatory. Fasten harness to designated harness securing points within the platform and do not remove until leaving the platform whilst in the stowed position.
- Always remain standing within the platform. Do not attempt to increase your height or reach by standing and/or climbing on the platform guardrails or any other object. **KEEP YOUR FEET ON THE PLATFORM FLOOR.** Do not sit, stand or climb on the guardrail, mid rail or boom linkage. Use of planks, ladders or any other devices on the Niftylift for achieving additional height or reach shall be prohibited.
- Do not use the platform levelling system to artificially increase the outreach of the platform. Never use boards or ladders in the platform to achieve the same result.
- Do not use the platform to lift overhanging or bulky items that may exceed the maximum capacity or carry objects that may increase the wind loading on the platform. (e.g. Notice boards etc.)
- The Niftylift shall not be operated from a position on trucks, trailers, railway cars, floating vessels, scaffolds or similar equipment unless Niftylift Ltd in Great Britain approves the application in writing.
- Always check the area below and around the platform before lowering or slewing to ensure that it is clear of personnel and obstructions. Care should be taken when slewing out into areas where there may be passing traffic. Use barriers to control traffic flow or prevent access to the machine.

- **Important:-** To prevent damage to the cage step, it is necessary to elevate the booms a minimum of **250mm** (10 in) from their stowed position **before** slewing. Also, when lowering the booms down to their stowed height, check that the cage step is not directly above any wheel to prevent damage to the step, similarly check that the booms are clear of the front canopy to prevent damage.
- Stunt driving and horseplay, on or around the Niftylift, shall not be permitted.
- When other moving equipment and vehicles are present, special precautions shall be taken to comply with local ordinances or safety standards established for the work place. Warnings such as, but not limited to, flags, roped off areas, flashing lights and barricades shall be used.
- It shall be the responsibility of the user to determine the hazard classification of any particular atmosphere or location. Aerial platforms operated in hazardous locations shall be approved and of the type required. (For the USA refer to ANSI/NFPA 505-1987.)
- The operator shall immediately report to his supervisor any potentially hazardous location(s) (environment) which become evident during operation.
- If an operator encounters any suspected malfunction of the Niftylift or any hazard or potentially unsafe condition relating to capacity, intended use or safe operation he shall cease operation of the Niftylift and request further information as to safe operation from his management, or owner, dealer or manufacturer before further operation of the Niftylift.
- The operator shall immediately report to his superior any problems or malfunctions of the Niftylift, which becomes evident during operation. Any problems or malfunctions that affect the safety of operation shall be repaired prior to continued use.
- The boom and platform of the Niftylift shall not be used to jack the wheels off the ground.
- The Niftylift shall not be used as a crane.
- The Niftylift shall not be positioned against another object to steady the platform.
- Care should be taken to prevent rope, electric cords and hoses from becoming entangled in the aerial platform.
- Batteries shall be recharged in a well-ventilated area free of flame, sparks or other hazards that may cause explosion. Highly explosive hydrogen gas is produced during the charging process.
- When checking electrolyte levels, great care should be taken to protect eyes, skin and clothing. Battery acid is highly corrosive and protective glasses and clothing is recommended.
- When the machine is not in use always stow the booms correctly. **NEVER LEAVE THE KEYS IN THE MACHINE**, if it is to be left for any period of time. Use wheel chocks if leaving on an incline.
- If the platform or elevating assembly becomes caught, snagged or otherwise prevented from normal motion by adjacent structure or other obstacles, such that control reversal does not free the platform, all personnel shall be removed from the platform safely before attempts are made to free the platform using ground controls.
- The engine must be shut down while fuel tanks are being filled. Fuelling must be done in a well-ventilated area free of flame, sparks or any other hazard that may cause fire or explosion. **PETROL (GASOLINE), LIQUID PROPANE AND DIESEL FUELS ARE FLAMMABLE.**
- **NEVER START THE NIFTYLIFT IF YOU SMELL PETROL (GASOLINE), LIQUID PROPANE OR DIESEL FUEL. THESE FUELS ARE HIGHLY FLAMMABLE**
- The operator shall implement means provided to protect against use by unauthorised persons.
- Never remove anything that may affect the stability of the machine such as, but not limited to, batteries, covers, engines, tyres or ballast.