

Secure the rail to the two main frames using the eight nuts and bolts provided.

Next, take the two spacer bars and attach to the base of the main frames using the nuts and bolts provided.

Check all nuts and bolts are fitted and tightened correctly then, with help, raise the assembly upright.

Move the assembly to the exact position where it will be required.

If the unit is to be 'tied into' an existing scaffold, have a qualified scaffold erector or suitably trained and authorised person connect the assembly to the scaffold.

If the unit is to be used 'free standing' attach the two ballast boxes.

They must only be attached to the rear main frame (see illustration) and should be positioned to the side, with their bases on the ground, they must not be suspended.

Ensure the clamps are tight and secure, then place a minimum 200kg of ballast in each ballast box.

Only use suitable ballast, dry sand or weights for example. Never use water filled containers.

Each ballast box must be loaded with equal weight.

Once loaded, secure the lids with padlocks to prevent anyone from tampering with the ballast.

Fit a toe board (scaffold board) against the front of the frame (see illustration).

The next stage must only be performed once the assembly has either been tied in or fitted with the necessary ballast.

With the help of a colleague, lift the hoist unit with the hook facing forward. Locate the hoist's rollers into the channels of the hoist rail, and slide the hoist fully forward.

To ensure the hoist can not roll off the hoist rail, bolt the rear stop buffer to the rail (see illustration). Failure to fit the buffer could result in serious personal injury.

Connect the power supply to the unit, either using a suitable fly lead or alternatively, a loose end cable drum, available for hire from your local HSS Lift & Shift Depot.

Make sure that the supply cable has enough slack to allow full movement of the hoist without getting in the way of the operator.

Plug the unit into its power supply and switch the supply ON.

Check that the assembly is set up correctly by carrying out a full load test.

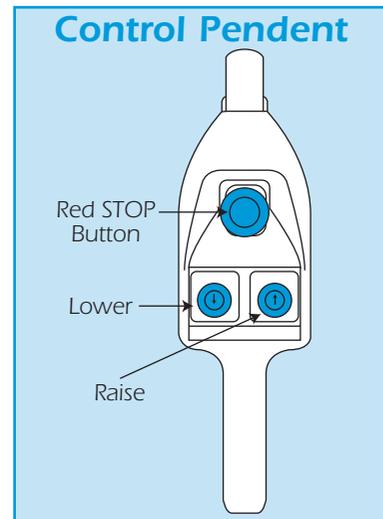
The unit should now be ready to use, however, do double check that all nuts, bolts and fixings are securely tightened.

## BASIC TECHNIQUES

Ensure the safety bars are in the lowered position, only raise them to allow a load to pass and always lower them back down as soon as possible.

The hoist is fitted with a brake lever, which remains on all the time, to release and move the hoist, push and hold the brake lever forward.

Move the hoist fully forward ready to lower the cable.



The control pendant has 3 main buttons. The red STOP button isolates the control pendant raise and lower buttons from the power supply in case of an emergency, simply press the button once. To re-set the button, turn anti-clockwise until it pops back out.

The two remaining buttons have direction arrows, indicating the direction the hoist's cable will travel if pressed.

To lower the cable, press and hold the button with the down arrow, until the hook is at the required position.

To raise the cable press and hold the button with the up arrow, until the load is raised to the required position.

Note that when lowering the cable, you must ensure a minimum of 3 windings remain on the drum.

Do not use the load cable as a sling.

Attach the lifting hook to the load ensuring the safety catch is correctly engaged. Press the up button until the load is at the required height.

Raise the safety bars, roll the hoist back and lower the load.

Make sure that the safety bars are lowered down as soon as possible.

Note that the hoist is fitted with a limit switch, which will switch OFF the motor if you overrun, please ensure that the up button is release before the hook weight is in contact with the limit switch.

## EQUIPMENT CARE

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease and speed, assume you have the wrong tool for the job. Contact your local HSS Lift & Shift Depot for advice.

Keep the equipment clean, you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

When not in use, store the equipment somewhere clean, dry and safe from thieves and unauthorised users.

## FINISHING OFF

Gently lower then detach the load, run the cable back onto the hoist's drum then disconnect the hoist from its power supply.

Dismantle the assembly by reversing in strict order the erection instruction in 'GETTING STARTED'.

Collect all parts together and give them a final clean up ready for return, to your local HSS Lift & Shift Depot.



## ...any comments?

If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below

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# HSS Lift & Shift



## Builders Gantry Hoist

A heavy duty gantry with a built-in electric hoist, ideal for use in situations where mounting a standard scaffold hoist is either impractical or impossible.



## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Lift & Shift Depot.

There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

This equipment is designed to be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from your local HSS Lift & Shift Depot.

 Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

 Wear practical, protective clothing, gloves, footwear and a protective hard hat. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

 Prevent hook overcrowding, with a 'Bow' shackle. Join lifting equipment with a 'D' shackle. Protect sharp edges to prevent load damage.

 Use this equipment for vertical lifts only and use on a level area able to take the combined weight of the load and the equipment.

 Before lifting a load check that the hook safety catch is engaged and the load cable/wire rope is untangled, hanging freely and shows no sign of damage.

 Ensure the load is balanced, stable and that personnel stand clear of the raised load.

Make sure you know how to operate this equipment safely and are aware of its limitations before you use it.

It is both the hirer's and the operator's responsibility to perform a risk assessment before using this equipment. You are also responsible for the safety of any person in the work area.

Make sure that anyone in the immediate work area is warned of what you are doing.

Never exceed the equipment's safe working load of 300kg.

Never leave the equipment loaded and unattended.

Make sure the landing area is unobstructed and able to accept the load in size and weight.

## Safety Warning

This equipment **MUST NOT** be used to carry or lift personnel.

Make sure you know how to switch this machine OFF before you switch it ON in case you get into difficulty.

Always switch OFF and unplug the machine before making adjustments to it.

**DO NOT shock load the hoist.** If shock loading occurs, stop and contact your local HSS Lift & Shift Depot for advice.

Use only the hoist supplied with the gantry.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Lift & Shift Depot.

## ELECTRICAL SAFETY

HSS Builders Gantry Hoist must be provided with a suitable 110V generated supply, or be powered from the mains via a suitable 110V transformer.

Make sure that the generator or transformer is only used to supply the Hoist. Running other equipment could cause a power supply problem.

A minimum continuous 2kVA supply is required for this equipment. If a generator or transformer is to be used check that its continuous rating is sufficient, if in doubt contact your local HSS Lift & Shift depot for advice.

If the equipment fails, or if its power supply cable or plug gets damaged, return it. Never try to repair it yourself.

Keep flexes out of harm's way, and clear of moving parts. Extension leads should be fully unwound and loosely coiled, away from the equipment. Never run them through water, over sharp edges or where they could trip someone.

Keep the equipment dry, using electrical equipment in very damp or wet conditions can be dangerous.

 To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from your local HSS Lift & Shift Depot.

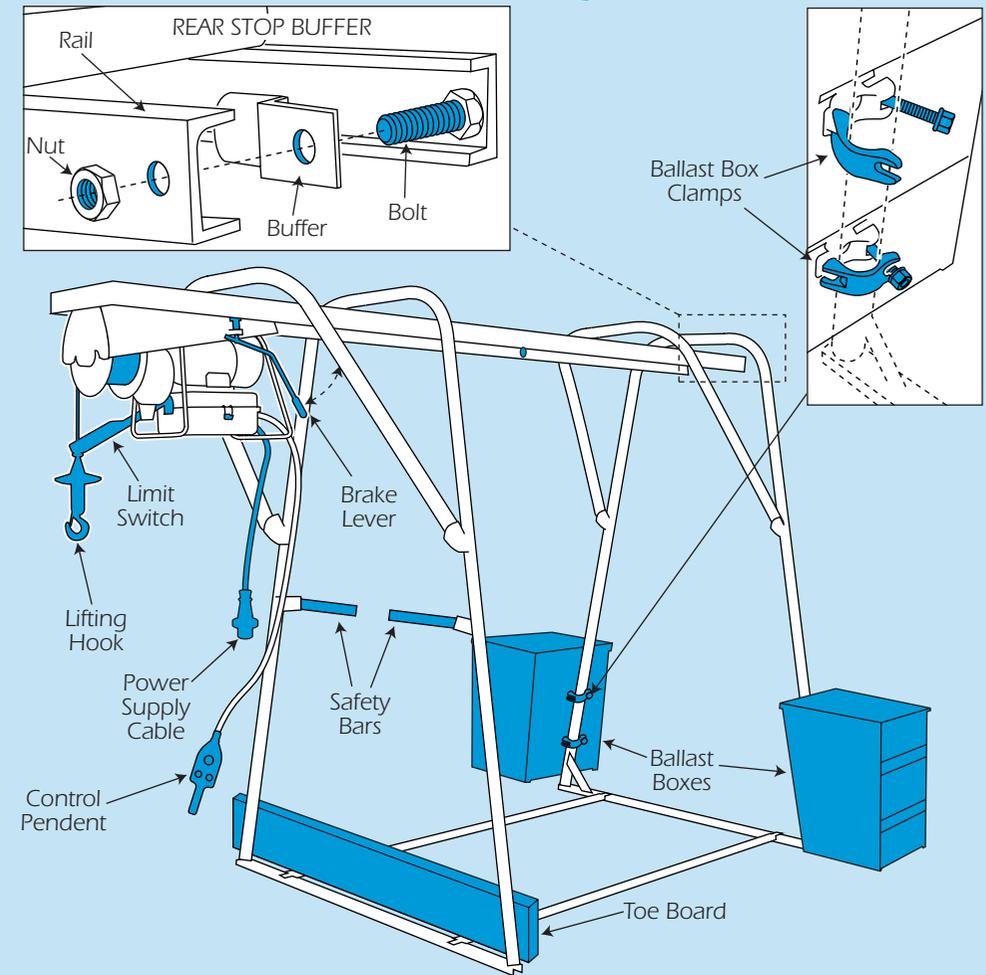
Never carry or pull the Hoist by its power supply cable.

Ensure the equipment and power sockets are switched OFF before plugging into the power supply.

## GETTING STARTED

Make sure that the floor area where the Hoist is to be erected is able to bear its weight and the weight of any load. The Gantry and Hoist units together weigh 210kg, where ballast is to be used this will add another 400kg. Taking the weight of the

## Builders Gantry Hoist



equipment and the weight of the load (the SWL is 300kg), the floor area may have to support weights in excess of 900kg.

Take all parts to the area where it is to be erected and lay them out on the floor.

There are two 'Main' frames, each fitted with secondary 'A' frames at the top, when erected, these 'A' frames must hang forward.

One main frame is fitted with two pull down safety bars and this one should be positioned at the front of the assembly.

Lay both main frames on their side (see illustration) with both 'A' frames pointing forward and the frame with the safety bars at the front.

Take the hoist rail assembly and align it with the brackets on the top of each main frame. The rail

assembly is the correct way round when the rail sits about .5m beyond the 'A' frame of the front main frame.

