

Now, **locate the disc on the back flange plate**, making sure that both the diameter and the arbor (centre Hole) are the correct size for the machine.

If fitting a diamond disc, ensure the direction arrow on the disc corresponds with the direction arrow on the guard.

**Finally, replace the outer flange followed by the lock bolt and secure the disc in place by tightening the lock bolt** (see illustration). **Then slide the blade cover down.**

**Take care not to over-tighten, then check that the new disc rotates freely and does not foul the guard, before use.**

**Fit the drain plug to the water tray, ensuring it is secure, then fill the tray with clean fresh water 1 in from the top.** During use you must ensure the pump is fully immersed in silt free water.

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

## BASIC TECHNIQUES

**Two types of cutting action are available, the first is a chopping action** where the cutting head is lowered onto the item to be cut.

**When using the chopping action, the max depth of cut must be set to ensure the tray is not damaged by the disc.** To set this, lower the cutting head until the disc's cutting edge is 3mm below the top level of the sliding tray. Lock the head in this position with the head lock bar. Next loosen the depth set bolt (below the head lock bar), slide it upwards as far as it can go and re secure. All that remains is to loosen the head lock bar to free the cutting head.

When using abrasive discs the setting will need adjusting as the disc wears down.

**The second is with the cutting head locked in a lowered position, and must only be used with wet cut diamond discs. Under no circumstances must dry diamond discs or wet or dry abrasive discs be used.** Used for repetitive cuts, either fully through the item or where necessary, a partial cut.

If you wish to lock the cutting head, lower it into the required position and lock with the head lock bar. If the cut requires excessive pressure, make 2 or 3 shallow cuts.

**Place the item to be cut on to the sliding tray, there is a cutting guide set in millimetres on the front.** If making a mitre cut, set the mitre guide to the required angle.

**Open the water cock, situated at the back of the guard (see illustration). Switch the unit ON, wait for the disc to reach operating speed, then check that water is being fed to each side of the disc.**

Next, **grip the item being cut and adopt a comfortable, stable stance** that lets you see what you are doing while keeping your hands away from the disc.

**Move the material along the cut in a straight line, never twist the material or apply sideways pressure** – the disc could break up and cause damage or serious personal injury.

**Apply just enough pressure to ensure reasonable progress.** Too much pressure will damage the disc, the workpiece, and the machine's motor.

**After the cut is complete switch the unit OFF** and wait for the disc to stop.

## 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 Hire Shop for advice.

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

Regularly change the water in the tray and wash out any silt before replacing.

**Regularly check that the disc and safety guards have not vibrated loose, if either have STOP and contact your local HSS Hire Shop for advice.**

**When not in use, store the equipment somewhere clean, dry and safe** from thieves. **Protect this unit from frost and freezing temperatures.**

## FINISHING OFF

**Having lifted the disc clear of the workpiece, switch the unit OFF** and wait for the disc to stop before removing the workpiece.

**Unplug the unit, remove the disc, abrasive discs should be disposed of, NEVER re-use a used disc!**

**Empty the water tray and remove any silt.**

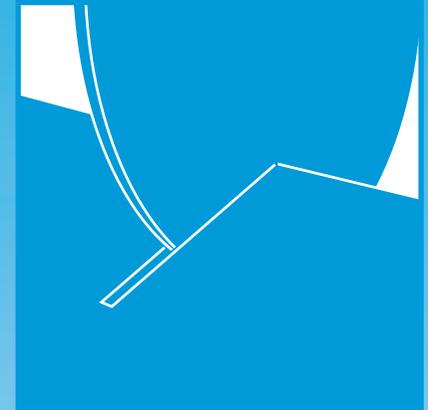
**Finally, neatly coil the power supply cable and give the unit a final clean up ready for return, to your local HSS Hire Shop.**



©HSS Hire Service Group Plc 1998 No. 735/01  
Group Office: 25 Willow Lane, Mitcham, Surrey CR4 4TS

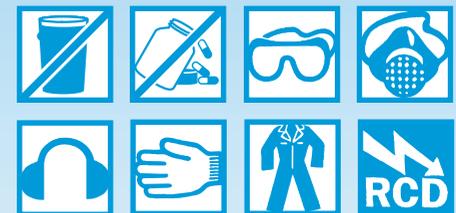
# Operating & Safety Guide 735

## HSS Hire Shops



# Bench Saws 14" Junior

A heavy duty electrically powered site bench saw for cutting bricks and tiles in bulk.



Code 07311

## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Hire Shop.

This equipment has been designed to be used by an able bodied adult. If you suffer from either a temporary or permanent disability, you must seek expert advice before using this equipment.

Keep children, animals and bystanders away from the work area.

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

This equipment should only be used by a competent person who has read and understood these instructions.

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

 Safety Goggles MUST be worn by everyone in the work area.

 Some materials when cut contain substances which, when inhaled, can be harmful to health. A suitable mask must be worn when using this equipment. Respiratory protective equipment is available for hire, contact your local HSS Hire Shop for details.

 This equipment generates potentially harmful noise levels. To comply with health and safety at work regulations, ear defenders must be worn by everyone in the vicinity.

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

Ensure the work area is well lit and ventilated, if in doubt, ask about dust extraction and ventilation equipment at your local HSS Hire Shop.

Do not work near flammable gasses or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance – at least 5m.

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. Check that you have removed all spanners before plugging it back in.

Having switched OFF, always wait for the disc to come to rest, before removing the workpiece.

Never carry, lift or pull the equipment by its power supply cable.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Hire Shop.

Ensure guards are correctly adjusted and secure before starting work.

## ELECTRICAL SAFETY

Most HSS Bench Saws plug into a standard 13amp power socket. However, 110v models (with a round yellow plug) must be provided with a suitable 110v generated supply, or powered from the mains via a suitable 110v transformer (minimum 3kVA tool rating).

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

Keep cables out of harm's way, and clear of the work area.

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.

Using electrical equipment in very damp or wet conditions can be dangerous.

 To reduce the risk of electric shock, use a suitable RCD (Residual Current-Operated Device) available from your local HSS Hire Shop, or power the equipment from a mains circuit with a built-in RCD.

If using a transformer to provide power, ensure that the total power load is less than 75% of the transformer's power rating.

Ensure the power socket is switched OFF before plugging into the power supply.

## GETTING STARTED

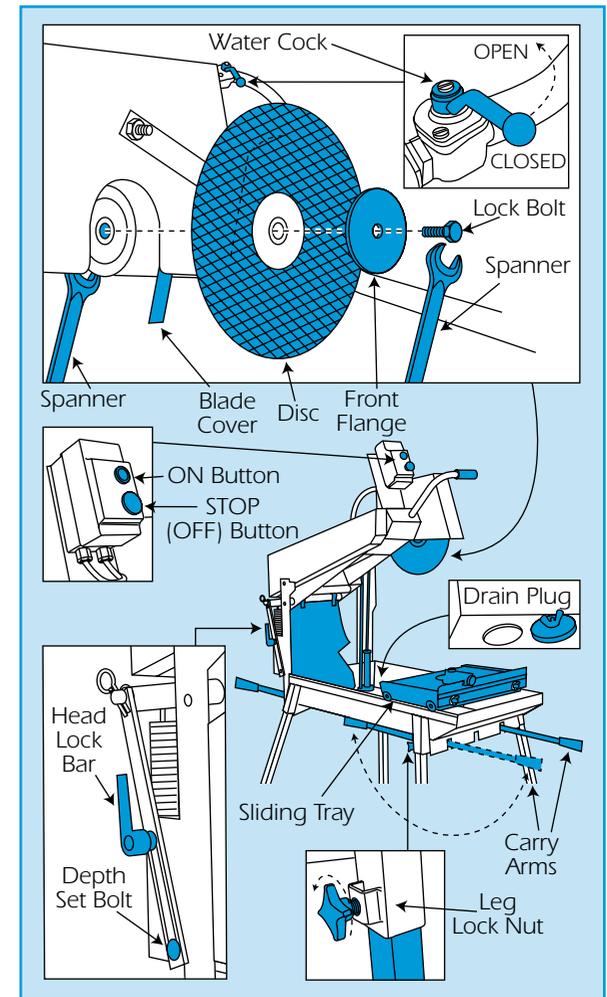
This model of bench Saw is fitted with an NVR (No Volt Return) switch. The switch will only stay in the ON position if there is a power supply. If the power supply is interrupted, for what ever reason, the switch will move to the OFF position. This safe guards the user so that when the power is restored, the motor will not start without warning.

To switch the saw ON, push the green ON button. To switch the saw OFF push the red STOP (OFF) button. The STOP button can be locked in the OFF position for extra safety, simply push the button in and turn 1/4 clockwise. To release, simply turn anti-clockwise. Familiarise yourself with the switches and their location so that you can operate them quickly in an emergency.

Where applicable, fit the bench with it's 4 legs and secure them in place with the leg lock nuts.

Position the Bench Saw on firm level ground, in an area that allows adequate space for the operator to work.

There are four swing-out carry arms under the unit (see illustration). If used, ensure they are folded back under the unit before proceeding.



Release the head lock bar and raise the cutting head.

Fit the right disc for the job. HSS Hire Shops offer abrasive cut-off discs and diamond discs.

Regularly check the disc's condition and replace if worn or damaged, using only discs supplied by HSS Hire Shops.

Ensure replacement discs are distortion free and undamaged. In the case of an abrasive disc, ensure that the paper washers are not wrinkled or torn. **NEVER FIT SUBSTANDARD OR OLD, USED DISCS.**

To fit a disc, switch OFF and unplug the Bench Saw, slide the blade cover up, then immobilise the back flange with the spanner provided (see diagram).

Remove the lock bolt (right hand thread) followed by the front flange and check the condition of both inner and outer flanges. If either is damaged, return the unit to your local HSS Hire Shop.