

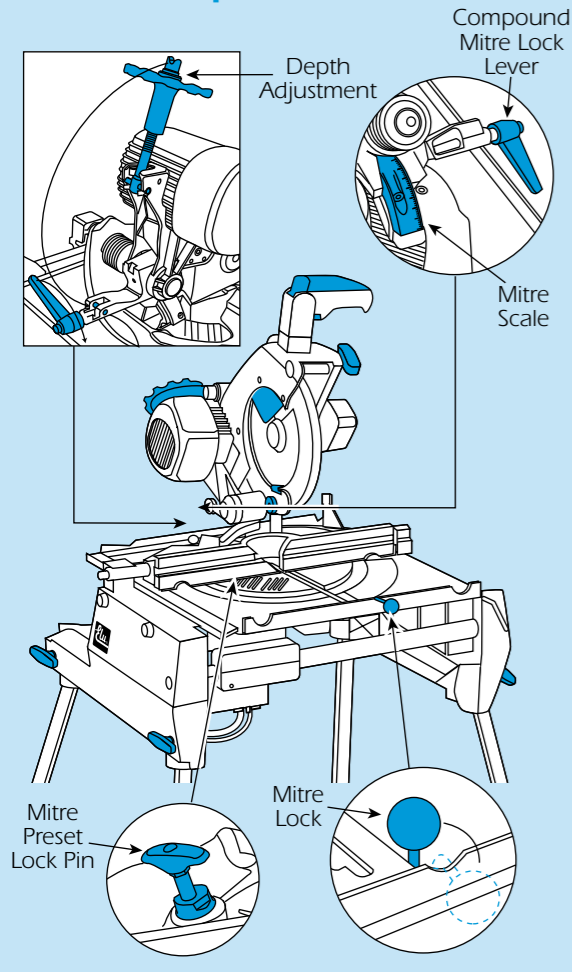
# Flip Over Saw

A portable saw bench, which can be flipped over to form a powerful cross cut/mitre chop saw.



Code 03411

## Chop Saw Mode



## BASIC TECHNIQUES

In CHOP SAW mode...

To set the bevel angle, release the spring loaded bevel clamp handle, tilt the saw head as required, then re-secure the clamp, taking care to leave the handle in the horizontal position.

To set the mitre turntable, disengage the turntable clamp, then pull up the turntable locating pin, (turning it clockwise through 90 degrees) to hold it clear.

Now, grip the saw's handle to retract the safety guard, lower the saw head about halfway, and turn both saw head and mitre table to the required angle before re-engaging the turntable clamp.

Note: this saw offers pre-set angles of 0 and 45 degrees. On reaching these, lower the plunger and make any minor adjustments until it automatically drops, locking the turntable in place. If you don't want a pre-set angle, only engage the turntable clamp.

For compound mitres, set the desired bevel and turntable angle. For the widest choice, move the turntable to the left. Even so, this saw will not cut 45x45 degree compound mitres.

Hold the workpiece against the saw's rear fence. The saw's action should keep it there, but if it rides up or pulls away from the fence, secure it with a G-clamp.

To make a crosscut, grip the saw's handle (thereby releasing the saw head locking lever), squeeze the ON/OFF trigger and, having allowed the blade to reach full speed, lower it into the work. Once the cut is finished, return the saw head to its 'parked' position and release the handle.

In SAW BENCH mode...

For simple cuts, fit the parallel guide fence to the left or right of the saw blade, showing its high or low face, depending on the thickness of the workpiece. Simply slide the fence holder from the right into the channel along the saw table's front edge, and slip the fence over its end.

For more complex cuts, there is an adjustable mitre fence that can be set to any angle. This clips into the channel at the left of the table.

Next, adjust the saw blade to give the required depth of cut by turning the depth adjustment wheel and re-adjusting the blade guard to expose the minimum amount of blade necessary, normally 2-3mm greater than the workpiece.

If bevel cutting, ensure the fence is to the left of the blade and set the required bevel angle as when using the saw in chop saw mode.

To make the cut press the green ON button, wait for the saw to reach full speed, then lay the workpiece on the saw table and pass it through the blade, using the guide fence to steady it and stop it twisting in mid-cut.

To switch OFF, press the OFF button (always stand where you can reach this and wait for the blade to coast to a halt).

NOTE: that in the crosscut mode, this saw will cut timber up to 50mm thick and 250mm wide. When mitering, its capacity will reduce to a minimum of 50 x 175mm.

Always position yourself so you can control the cutting operation while staying clear of the saw blade.

Always keep the saw table clear of off cuts and other debris.

For precision work, always make a test cut to check the saw's settings.

HSS bench saws come with tungsten tipped blades that can both rip and cross cut. But even these blunt eventually. So, if you notice the blade burning the timber, contact your local HSS Hire Shop.

## 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 – paying special attention to the air vents. You will find this less of a chore if you clean them 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.

## FINISHING OFF

Switch OFF and unplug the equipment.

Clean off sawdust and dirt, paying special attention to motor ventilation slots.

Set up the saw in bench mode and retract the blade below the surface on the saw table.

Having slacked the retaining wing nuts. Next remove the table's legs.

Check that all parts have been gathered, ready for return:

- Blade Guard
- Legs x 4
- Side Fence & Mitre Guide

Finally, neatly coil the flex and give the tool a final clean up ready for return, to your local HSS Hire Shop.



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## GENERAL SAFETY

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

This equipment is designed for operation by an able-bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.

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.



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.

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

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 gases or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance – at least 5m.

Always switch OFF and unplug the machine before making adjustments to it. Check that it is switched OFF and that you have removed all spanners and keys before plugging it back in.

Having switched OFF, always wait for the blade to come to rest before removing or replacing the workpiece.

Never carry or pull the equipment by its flex.

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 the guard is operating correctly before starting work. If it does not close automatically and cover the blade, STOP and contact your local HSS Hire Shop for advice.

## ELECTRICAL SAFETY


Most HSS flip over 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 flex or plug gets damaged, return it. Never try to repair it yourself.

Keep flexes 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.

Ensure the machine and power socket are switched OFF before plugging into the power supply.

## GETTING STARTED

Seat the legs in their brackets and secure with the wingnuts provided. Adjust the legs/feet until the saw table is level.

To convert the flip over saw from saw bench mode to chop saw mode...

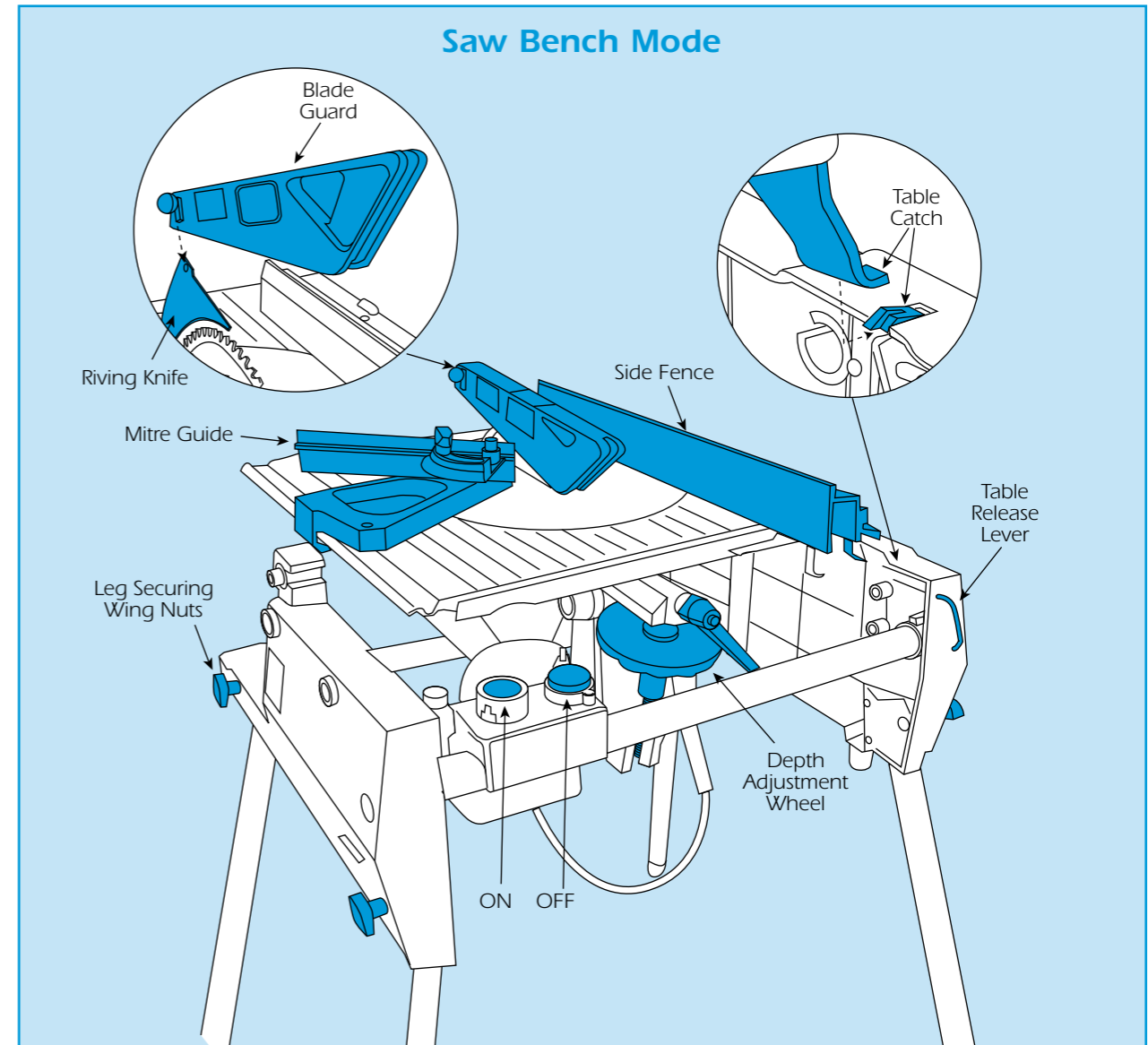
Remove all accessories, turn the depth adjustment wheel to give the maximum depth of cut, then release the blade guard by pulling the pin out.

Turn the table release lever and, lifting the table's rear edge, flip it over until the catch automatically re-engages to hold the bed securely. Reset the blade depth adjuster by raising the saw head. Then unseat the depth adjustment wheel, then clip the adjuster up out of the way and turn the mitre depth stop rod clockwise.

Finally, having slackened off its wing nut, slide the riving knife up between blade and saw guard, and re-tighten the wing nut.

To convert the flip over saw from chop saw to saw bench mode...

Lock the saw head and turntable in the straight crosscut position, then slacken the riving knife's wing nut until the knife drops down. Line this up



with the saw blade, 3mm to 5mm from the teeth, and re-tighten the wing nut to secure.

Next, turn the mitre depth stop rod anti-clockwise until no longer engaged, lower the saw head by hand as far as possible, then swing the depth adjustment wheel down and locate the end of its spindle on the pin in the saw's base.

That done, adjust the blade depth to the maximum possible, turn the table release lever, and lift the front edge of the saw table; flipping it over until the catch automatically re-engages.

Finally, secure the blade guard (pull the pin on the guard and engage the plunger in the hole in the riving knife) and re-adjust the blade depth as required.

If desired, fit a dust extraction unit. Ask at your local HSS Hire Shop for details. If vacuum dust extraction is not used, ensure the work area is well ventilated.

All that now remains is to connect the saw up to its power supply and switch the supply ON.