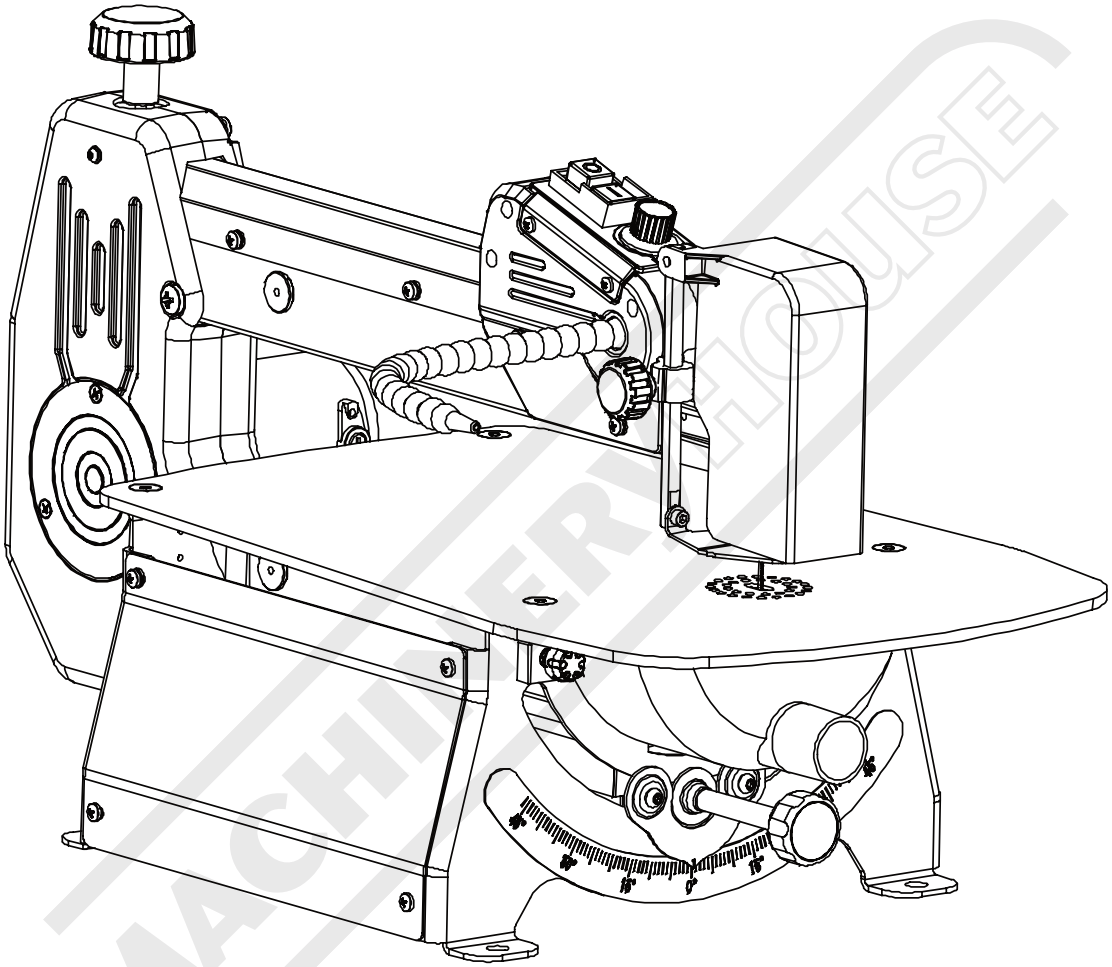
HAFCO
WOODMASTER



Edition : 1.0
Date: (06/24)

Instruction Manual

TILTING SCROLL SAW
SC-450T

Order Code: (W353)

MACHINE DETAILS

MACHINE.	TILTING SCROLL SAW
MODEL NO.	SC-450T
SERIAL NO.	
DATE OF MANF.	

Imported by

Australia

HARE&FORBES MACHINERYHOUSE

www.machineryhouse.com.au

New Zealand

MACHINERYHOUSE

www.machineryhouse.co.nz

NOTE:

This manual is only for your reference. At the time of the compiling of this manual every effort to be exact with the instructions, specifications, drawings, and photographs of the machine was taken. Owing to the continuous improvement of the HAFCO METALMASTER machine, changes may be made at any time without obligation or notice. Please ensure the local voltage is the same as listed on the specification plate before operating any electric machine.

SAFETY SYMBOLS:

The purpose of safety symbols is to attract your attention to possible hazardous conditions

⚠WARNING ***Indicates a potentially hazardous situation causing injury or death***

⚠CAUTION ***Indicates an alert against unsafe practices.***

Note: ***Used to alert the user to useful information***

NOTE:

In order to see the type and model of the machine, please see the specification plate. Usually found on the back of the machine. See example (Fig.1)

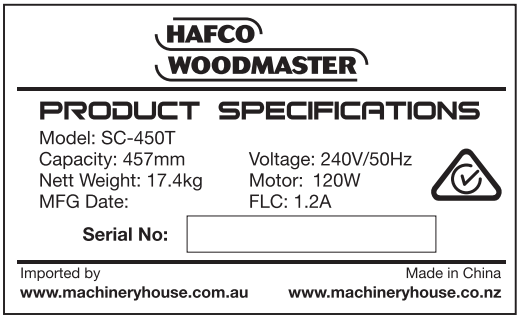


Fig.1

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SPECIFICATIONS

Input	**230-240V/50Hz**
No Load Speed	**550-1550 RPM**
Table Size	**541x349mm**
Table tilting	**Left 0°- 45°,Right 0°- 45°**
Max cutting size	**457mm**
Max cutting depth	**50mm at 0°, 20mm at 45°**

⚠ WARNING

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

WORK AREA SAFETY

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

1. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
2. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
5. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

PERSONAL SAFETY

1. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
2. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a respiratory mask, non-skid safety shoes and hearing protection used for appropriate conditions will reduce the risk of personal injury.
3. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
4. **Remove any adjusting key or wrench before turning the power tool on.** A

wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caughtin moving parts.
7. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

POWER TOOL USE AND CARE

1. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
5. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
8. **Use clamps to secure your workpiece to a stable surface.** Holding a workpiece by hand or using your body to support it may lead to loss of control.
9. **KEEP GUARDS IN PLACE** and in working order.

SERVICE

1. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

CALIFORNIA PROPOSITION 65 WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling. Some examples of these chemicals are:

• Lead from lead-based paints.
• Crystalline silica from bricks, cement, and other masonry products.
• Arsenic and chromium from chemically treated lumber.
Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area with approved safety equipment such as dust masks specially designed to filter out microscopic particles.

BEFORE OPERATION

1. Check for both proper assembly and proper alignment of moving parts.
2. Understand the proper use of the ON / OFF switch.
3. Know the condition of the scroll saw. If any part is missing, bent, or does not operate properly, replace the component before attempting to operate the scroll saw.
4. Determine the type of work you are going to be doing. Properly protect your body including your eyes, hands, face, and ears.
5. To avoid injury caused by pieces thrown from accessories, use only recommended accessories designed for this saw. Follow the instructions supplied with the accessory. The use of improper accessories may cause risk of injury.
6. **To avoid contact with rotating equipment:**
- Do not put your fingers in a position where they risk contacting the blade if the workpiece unexpectedly shifts or your hand unexpectedly slips.
- Do not cut a workpiece too small to be held safely.
- Do not reach under the scroll saw table when the motor is running.
- Do not wear loose clothing or jewelry. Roll long sleeves above the elbow. Tie back long hair.
7. To avoid injury from accidental startups of the scroll saw:
- Make sure to turn OFF the switch and unplug the power cord from the electric outlet before changing the blade, performing maintenance or making adjustments.
- Make sure the switch is OFF before plugging in the power cord to an electric outlet.
8. To avoid injury from a fire hazard, do not operate the scroll saw near flammable liquids, vapors or gases.
9. **To avoid back injury:**
- Obtain help when raising the scroll saw more than 10 inches (25.4 cm). Bend your knees when lifting the scroll saw.
- Carry the scroll saw by its base. Do not move the scroll saw by pulling on the power cord. Pulling on the power cord could cause damage to the insulation or the wire connections resulting in electric shock or fire.

SCROLL SAW SAFETY

1. **To avoid injury from unexpected saw movement:**
- Use the scroll saw on a firm level surface with adequate space for handling and supporting the workpiece.
- Be sure the scroll saw cannot move when operated. Secure the scroll saw to a workbench or table with wood screws or bolts, washers and nuts.

2. **Before moving the scroll saw, unplug the power cord from the electrical outlet.**
3. **To avoid injury from kickback:**
- Hold the workpiece firmly against the tabletop.
- Do not feed the workpiece too fast while cutting. Only feed the workpiece at the rate the saw will cut.
- Install the blade with the teeth pointing downward.
- Do not start the saw with the workpiece pressing against the blade. Slowly feed the workpiece into the moving blade.
- Use caution when cutting round or irregularly shaped workpieces. Round items will roll and irregularly shaped workpieces can pinch the blade.
4. **To avoid injury when operating the scroll saw:**
- Obtain advice from a qualified person if you're not thoroughly familiar with the operation of scroll saws.
- Before starting the saw, make sure the blade tension is correct. Recheck and adjust tension as needed.
- Make sure the table is locked into position before starting the saw.
- Do not use dull or bent blades.
- When cutting a large workpiece, make sure the material is supported at the table height.
- Turn the saw OFF and unplug the power cord if the blade jams in the workpiece. This condition is usually caused by sawdust clogging the line you are cutting. Wedge open the workpiece and back out the blade after turning off and unplugging the machine.

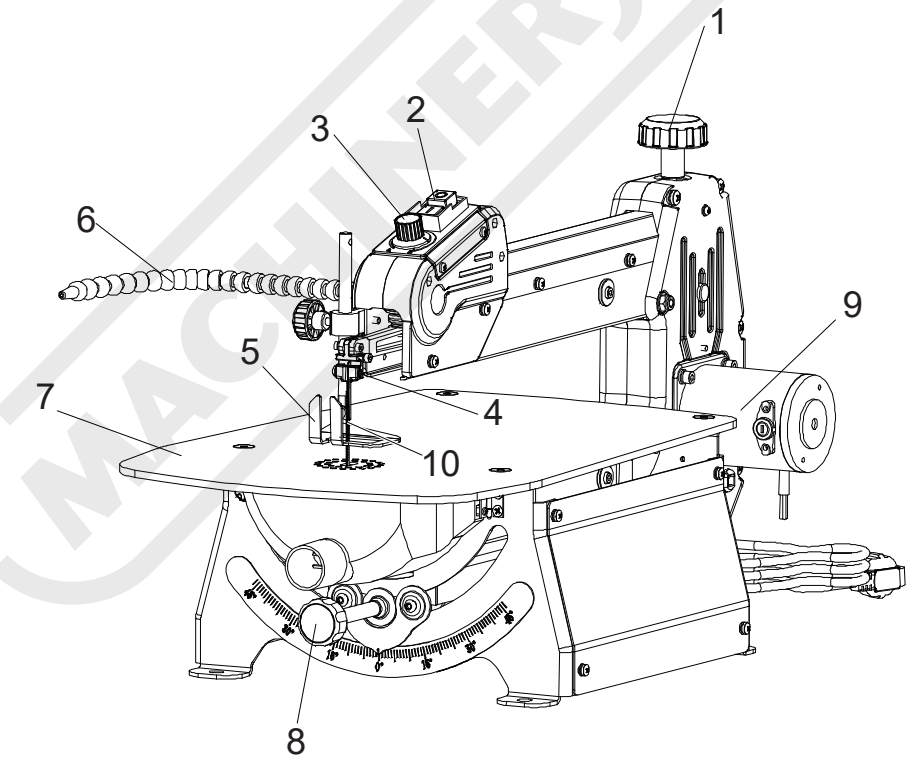
GROUNDING INSTRUCTIONS

In the event of a malfunction or breakdown, grounding provides the path of least resistance for an electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug MUST be plugged into a matching outlet that is properly installed and grounded in accordance with ALL local codes and ordinances.
1. **Do not modify the plug provided.** If it will not fit the outlet, have the proper outlet installed by a licensed electrician.
2. **Improper connection** of the equipment grounding conductor can result in electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electric cord or plug is necessary, DO NOT connect the equipment grounding conductorto a live terminal.
3. **Check** with a licensed electrician or service personnel if you do not completely understand the grounding instructions or whether the tool is properly grounded.
4. **Use only three-wire extension cords** that have three-pronged plugs and outlets that accept the tool's plug. Repair or replace a damaged or worn cord immediately.

CAUTION! In all cases, make certain the outlet in question is properly grounded. If you are not sure, have a licensed electrician check the outlet.

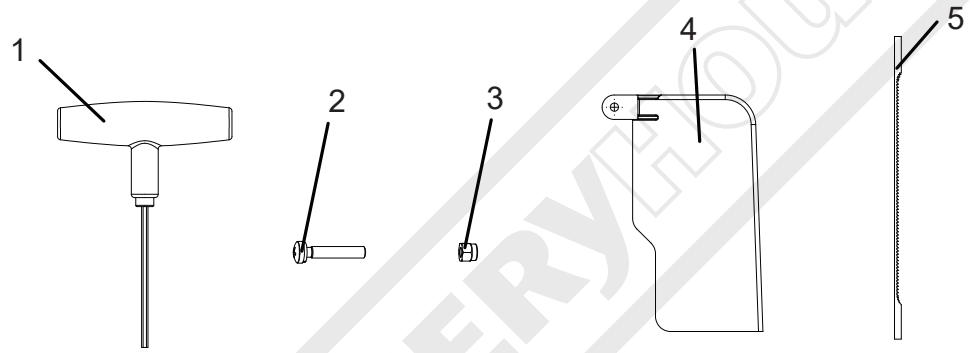
KEY PARTS DIAGRAM

No.	Description	Qty.
1	Blade tension knob	1
2	Power switch	1
3	Variable speed control knob	1
4	Hexagon socket fixing bolt	2
5	Fender bracket	1
6	Sawdust blower	1
7	Work table	1
8	Indexing plate locks handle	1
9	Motor	1
10	Wide saw blade	1



ATTACHMENT PARTS DIAGRAM

No.	Description	Qty.
1	T special spanner	1
2	Cross recessed pan head screw + spring washer	1
3	Hexagon lock nuts	2
4	Saw blade shield	1
5	Narrow saw blade	1



ASSEMBLY/OPERATING

The machine is designed to operate in closed rooms and must be placed stable on firm and levelled surface. The machine can be bolted down if required.

⚠ WARNING

If you notice any transport damage while unpacking, notify your supplier immediately. Do not operate the machine!

Dispose of the packing in an environmentally friendly manner. Clean all rust protected surfaces with a mild solvent.

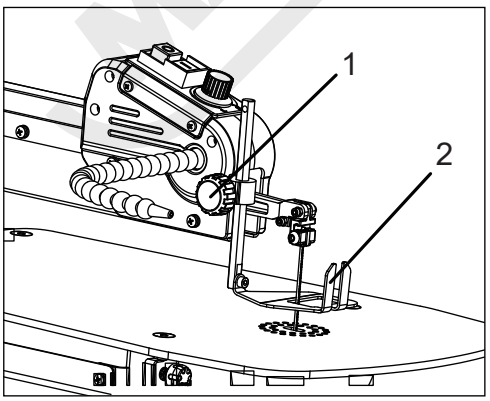
TO REDUCE RISK OF INJURY:

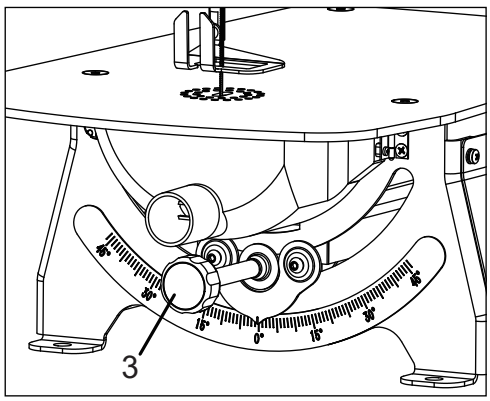
- When carrying the saw, hold it close to your body to avoid injury to your back. Bend your knees when lifting the saw.
- Carry the saw by the base, table, housing, or motor. Do not carry the saw by the power cord or upper arm.
- Secure the saw in a position where people cannot stand, sit, or walk behind it. Debris thrown from the saw could injure people standing, sitting, or walking behind it. Securethe saw on a firm, level surface where the saw cannot rock. Make sure there is adequate room for handling and properly supporting the workpiece

ALIGN THE BEVEL INDICATOR

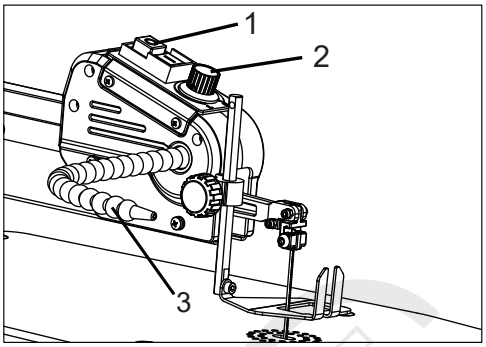
The bevel indicator has been adjusted at the factory, but should be rechecked prior to use for best operation.

1. Loosen the blade guard knob (1) and move the blade guard (2) all the way up.
2. Check if the pointer is on the 0 scale. If not, turn the level lock handle (3) bevel the upper arm until it is approximately at a right angle to the blade.





ADJUSTING THE DUST BLOWER



For best results, the dust blower tube (3) should be adjusted to direct air at both the blade and the workpiece.

POWER SWITCH & SPEED CONTROL KNOB

1. To turn the saw on, flip the I/O switch (1) to I. When first starting the saw, it is best to move the speed control knob (2) to the middle speed position.
2. Turning the control knob. Turning it towards H increases speed; turning it towards L reduces speed.
3. To turn the saw off, flip the I/O switch back to O.

⚠WARNING

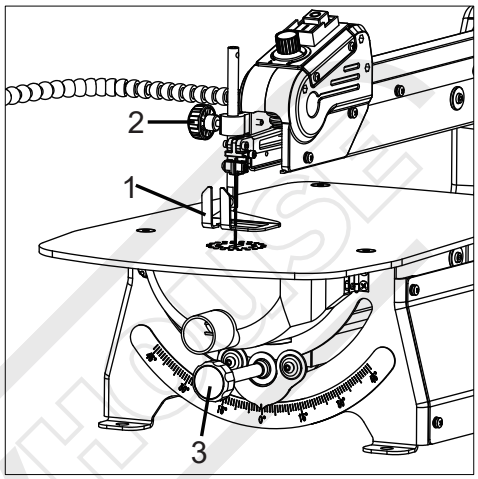
To avoid injury from accidental start-ups, always turn the switch OFF and unplug the scroll saw before moving the saw, replacing the blade, or making adjustments.

FREEHAND CUTTING

1. Lay out desired design, or secure design to the workpiece.
2. Raise the blade guard foot by loosening the height adjustment knob.
3. Position the workpiece against the blade and place the blade guard foot just above the top surface of the workpiece.
4. Secure the blade guard foot by tightening the height adjustment knob.
5. Remove the workpiece from the blade prior to turning the scroll saw ON.
6. Slowly feed the workpiece into the blade while holding the workpiece securely against the table.
7. When cutting is complete, move trailing edge of the workpiece beyond the blade guard foot. Turn the switch OFF.

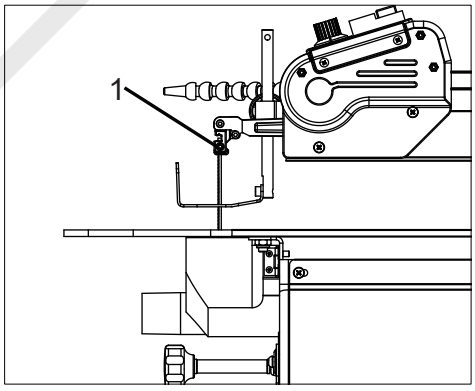
ANGLE CUTTING (BEVELING)

1. Layout or secure design to workpiece.
2. Loosen the height adjustment knob (2), move the blade guard foot (1) to the highest position, and retighten the knob.
3. Tilt the table to the desired angle by turning the level lock handle (3).

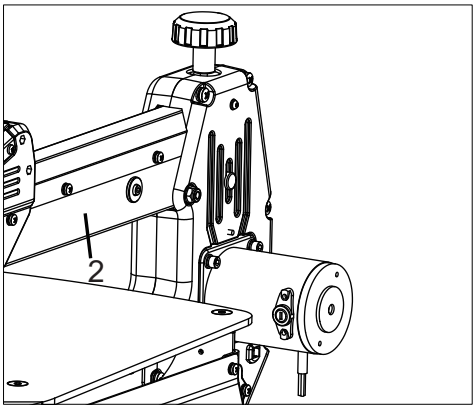


4. Tighten the level lock handle (3).
5. Loosen the blade guard screw, and tilt the blade guard (1) to the same angle as the table. Retighten the blade guard screw.
6. Position the workpiece on the right side of the blade. Lower the blade guard foot against the surface by loosening the height adjustment knob. Retighten.
7. Follow steps 5 to 7 under Freehand cutting.

INTERIOR CUTTING & FRETWORK



1. Lay out the design on the workpiece. Drill a 1/4” pilot hole in the workpiece.
2. Loosen the top hexagon socket fixing bolt (1).
3. Gently lift the upper arm (2) of the saw.
4. Place the workpiece on the saw table, threading the blade through the hole in the workpiece.
5. Lower the upper arm.
6. Secure the blade in the upper blade clamp, as directed in “ Replace the saw blade ” (see page 13）
7. Follow steps 4 - 7 under “Freehand cutting” .
8. When finished making the interior cuts, turn the scroll saw OFF and unplug it.
Relieve blade tension and remove the blade from the upper blade clamp. Raise the upper arm and remove the workpiece. Lower the upper arm and lock it in place.



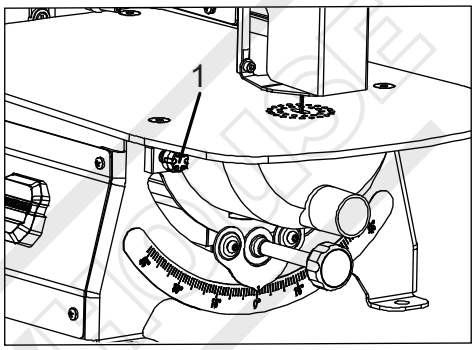
MAINTENANCE

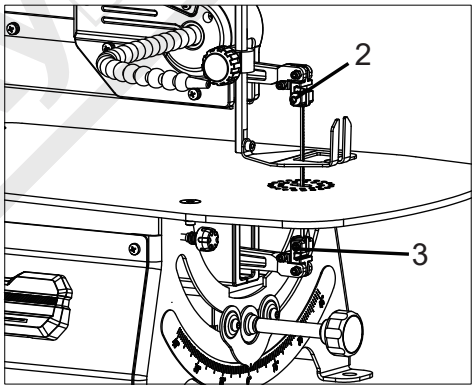
⚠ WARNING

Make sure the saw is turned OFF and unplugged before making any adjustments to the blade.

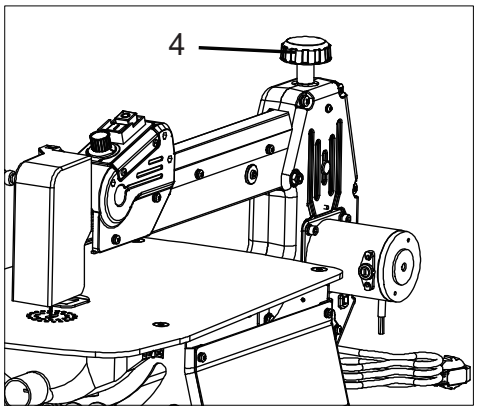
REPLACE THE SAW BLADE

1. Loosen the locking knob(1) first and open the dust hood.
2. Release the hexagon socket fixing bolt (2)
3. then loosen the bottom hexagon socket fixing bolt (3).
   Remove the blade.
4. With the blade's teeth facing toward you and pointing down, thread the new blade through the table slot so that its bottom rests in the bottom clamp.
5. Tighten the bottom hexagon socket fixing bolt (3).
   This locks the blade in place.
6. Insert the top of the blade into the top clamp.
7. Tighten the hexagon socket fixing bolt (2) to Lock up.
8. Fine-tune the Blade tension knob(4).

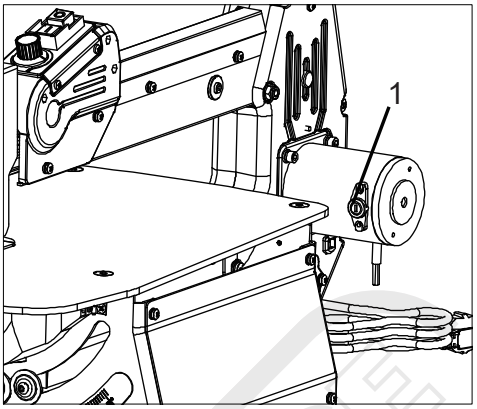




TIP: A properly-tensioned blade will make a high-C sound (C6, 1047 Hz) when plucked with a finger.

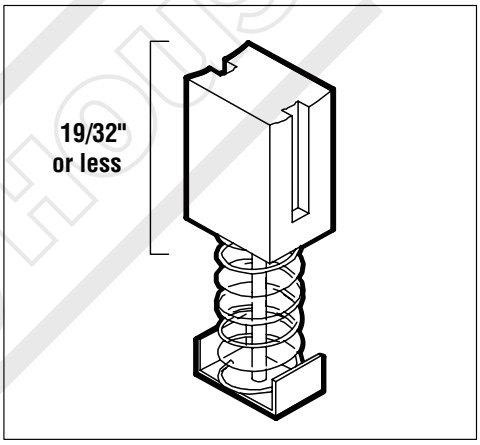


CARBON BRUSH REPLACEMENT



The wear on the carbon brushes depends on how frequently and how heavily the tool is used. To maintain maximum efficiency of the motor, we recommend inspecting the two carbon brushes every 60 hours of operation or when the tool stops working.

1. Unplug the saw. To access the carbon brushes, remove the carbon brush cover (1) with a flat-head screwdriver (not included).
2. Carefully remove the old carbon brushes.Keep track of which orientation the old carbon brushes were in to prevent unnecessary wear if they will be reinstalled.
3. Measure the length of the brushes. Install the new set of carbon brushes if either carbon brush length is worn down to 19/32” or less. Reinstall the old carbon brushes (in their original orientation) if your brushes are not worn down to 19/32” or less. Both carbon brushes should be replaced at the same time.
4. Replace the carbon brush cover.



GENERAL MAINTENANCE

1. Clean your saw after each use. Wipe it down with a soft cloth. Clean any accumulated sawdust out of the base. Use low-pressure compressed air (not to exceed 25 PSI) to blow any sawdust out of the blade holders, blade bevel rails, etc.
2. If desired, apply a light coat of dry lubricant (such as PTFE) to the inside of the blade bevel rails. This will help the table bevel smoothly.
3. The motor bearings, interior bearings, and table bevel rail bearings are all sealed and require no additional lubrication.

TROUBLESHOOTING GUIDE

TROUBLE SHOOTING

⚠ WARNING

In the interests of operational safety, always switch off the saw and remove the mains plug before carrying out maintenance work.

SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
Saw blades break	Tension incorrectly set	Set the correct tension
	Load to great	Feed the work piece more slowly
	Incorrect saw blade variety	Use the correct saw blades
	Work piece not fed straight	Avoid exerting side pressure
Motor does not function	Power extension cable faulty	Change faulty cable
	Motor faulty	Call customer service. Do not attempt to repair the motor yourself as this should be carried out by trained personnel.
Vibration **NOTE:** The saw vibrates slightly when the motor is running in normal operation	Saw incorrectly installed	Refer to the instructions in this manual
	Unsuitable underlay	The heavier the work bench is the less the vibration. A bench made from plywood always vibrates more than one made from solid wood.Select the work bench best suited to your working conditions .
	Motor control board failure	Change a new control board
Saw blade swings out Holder not aligned straight	The work bench is not screwed down or is on the motor	Tighten the locking lever
	The motor is not secured	Securely screw the motor in place
	Holders not aligned	Loosen the screws with which the holders are fastened to the arm. Align the holders to that they are perpendicular to each other and retighten the screws.

TILTING SCROLL SAW
SC-450T

Order Code: (W353)

Edition : 1.0
Date: (06/24)

The following section covers the spare parts diagrams and lists that were current at the time this manual was originally printed. Due to continuous improvements of the machine, changes may be made at anytime without notification.

HOW TO ORDER SPARE PARTS

1. Have your machines model number, serial number & date of manufacture on hand, these can be found on the specification plate mounted on the machine
2. A scanned copy of your parts list/diagram with required spare part/s identified.

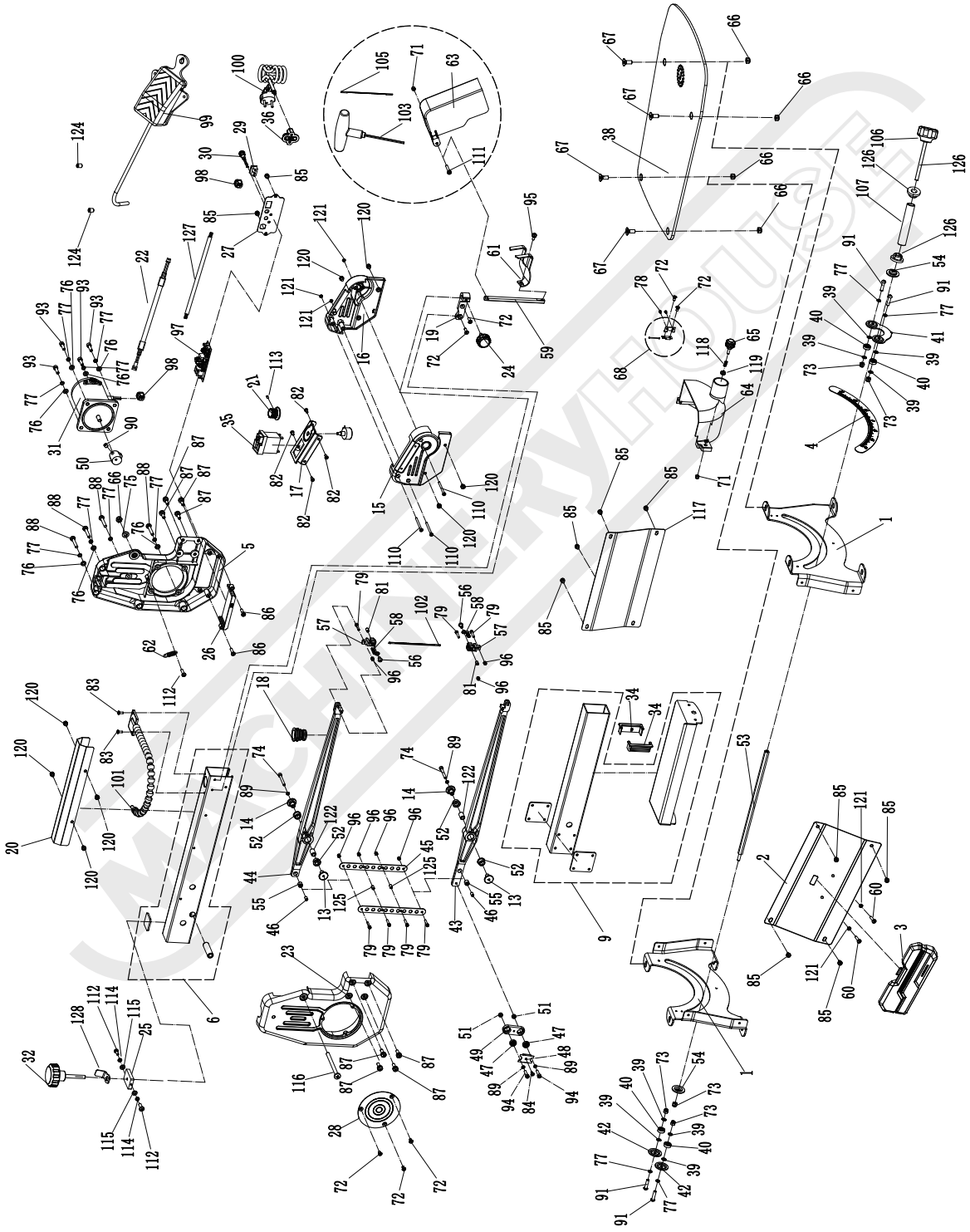
NOTE: SOME PARTS MAY ONLY BE AVAILABLE AS AN ASSEMBLY

3. Go to www.machineryhouse.com.au/contactus and fill out the inquiry form attaching a copy of scanned parts list.

WARNING!
Electricity is dangerous and could cause death
All electrical work must be carried out by a qualified electrician.

CAUTION
It is impossible to cover all possible hazards Every workshop enviroment is different. These are designed as a guide to be used to compliment training and as a reminder to users prior to equipment use. Always consider safety first, as it applies to the individual working conditions.

EXPLODED VIEW



PARTS LIST

No	Name	QTY
1	Panel	2
2	Left side plate	1
3	Tool box	1
4	Steering ruler sticker	1
5	Right bracket	1
6	Upper bracket	1
9	Lower bracket	1
13	Thread bushing	2
14	Axle sleeve	2
15	Left switch box	1
16	Right switch box	1
17	Switch panel	1
18	Gasbag	1
19	Press foot support block	1
20	Upper arm guard plate	1
21	Indicating knob	1
22	Potentiometer connection	1
23	Left bracket	1
24	Tighten the lever handle	1
25	Tighten the thread	1
26	Circuit board box	1
27	Right bracket cover	1
28	Left bracket cover	1
29	Switch	1
30	Power light	1
31	Motor	1
32	Tightening handle	1
34	Bracket tube blocked	2
35	Switch	1
36	Cable clamp	1
38	Worktable	1
39	Bearing gasket	8
40	Deep groove ball bearing	4
41	Bearing pointer bowl	1
42	Bearing pressure bowl	2
43	Lower rocker arm lever	1
44	Upper rocker arm lever	1
45	Tension plate	2
46	Bearing bush	4
47	Deep groove ball bearing	2
48	Connecting block press plate	1
49	Eccentric connection block	1
50	Eccentric wheel	1
51	Small cushion cover	2
52	Oil bearing	4

No	Name	QTY
53	Tie rod	1
54	Lock the pressure bowl	2
55	Drawn cup needle roller bearing	2
56	Screw	2
57	Saw blade clip	2
58	Gasket	2
59	Compressor arm	1
60	Screw	2
61	Fender bracket	1
62	Tension spring	1
63	Saw blade guard	1
64	Lower shield	1
65	Index dial handle	1
66	Hexagon lock nut	5
67	Screw	4
68	Hinge	1
71	Hexagon lock nut	2
72	Screw	7
73	Hexagon lock nut	5
74	Screw	2
75	Washer	1
76	Washer	8
77	Spring washer	12
78	Screw	2
79	Screw	6
81	Bolt	2
82	Screw	4
83	Screw	3
84	Screw	1
85	Screw+spring washer+washer	14
86	Screw	2
87	Screw+spring washer+washer	8
88	Screw	4
89	Spring washer	4
90	Screw	1
91	Screw	4
93	Screw	4
94	Screw	2
95	Screw+spring washer+washer	1
96	Hexagon lock nut	8
97	Circuit board	1
98	Ply-yarn drill	2
99	Foot switch	1
100	Power cord	1
101	Blowpipe	1

No	Name	QTY
102	Wide saw blade - with pin	1
103	T wrench	1
105	Narrow saw blade. - without pin	1
106	Index plate locking handle	1
107	Spacer bush	1
110	Screw	4
111	Screw+spring washer	1
112	Screw	3
113	Screw	1
114	Spring washer	2
115	Washer	2

No	Name	QTY
117	Right-side plate	1
118	Cutter shaft locates the compression spring	1
119	Washer	1
120	Screw+washer	4
121	Hexagon nut	5
122	Spacer sleeve	2
124	Screw	2
125	Plastic gasket	2
126	Spacer pad	2
127	Cable	1
128	Wire stop plate	1

⚠WARNING

General Machinery Safety Instructions

Machinery House
requires you to read this entire Manual before using this machine.

1. **Read the entire Manual before starting machinery.** Machinery may cause serious injury if not correctly used.
2. **Always use correct hearing protection when operating machinery.** Machinery noise may cause permanent hearing damage.
3. **Machinery must never be used when tired, or under the influence of drugs or alcohol.** When running machinery you must be alert at all times.
4. **Wear correct Clothing.** At all times remove all loose clothing, necklaces, rings, jewelry, etc. Long hair must be contained in a hair net. Non-slip protective footwear must be worn.
5. **Always wear correct respirators around fumes or dust when operating machinery.** Machinery fumes & dust can cause serious respiratory illness. Dust extractors must be used where applicable.
6. **Always wear correct safety glasses.** When machining you must use the correct eye protection to prevent injuring your eyes.
7. **Keep work clean and make sure you have good lighting.** Cluttered and dark shadows may cause accidents.
8. **Personnel must be properly trained or well supervised when operating machinery.** Make sure you have clear and safe understanding of the machine you are operating.
9. **Keep children and visitors away.** Make sure children and visitors are at a safe distance for you work area.
10. **Keep your workshop childproof.** Use padlocks, Turn off master power switches and remove start switch keys.
11. **Never leave machine unattended.** Turn power off and wait till machine has come to a complete stop before leaving the machine unattended.
12. **Make a safe working environment.** Do not use machine in a damp, wet area, or where flammable or noxious fumes may exist.
13. **Disconnect main power before service machine.** Make sure power switch is in the off position before re-connecting.
14. **Use correct amperage extension cords.** Undersized extension cords overheat and lose power. Replace extension cords if they become damaged.
15. **Keep machine well maintained.** Keep blades sharp and clean for best and safest performance. Follow instructions when lubricating and changing accessories.
16. **Keep machine well guarded.** Make sure guards on machine are in place and are all working correctly.
17. **Do not overreach.** Keep proper footing and balance at all times.
18. **Secure workpiece.** Use clamps or a vice to hold the workpiece where practical. Keeping the workpiece secure will free up your hand to operate the machine and will protect hand from injury.
19. **Check machine over before operating.** Check machine for damaged parts, loose bolts, Keys and wrenches left on machine and any other conditions that may effect the machines operation. Repair and replace damaged parts.
20. **Use recommended accessories.** Refer to instruction manual or ask correct service officer when using accessories. The use of improper accessories may cause the risk of injury.
21. **Do not force machinery.** Work at the speed and capacity at which the machine or accessory was designed.
22. **Use correct lifting practice.** Always use the correct lifting methods when using machinery. Incorrect lifting methods can cause serious injury.
23. **Lock mobile bases.** Make sure any mobile bases are locked before using machine.
24. **Allergic reactions.** Certain metal shavings and cutting fluids may cause an ellergic reaction in people and animals, especially when cutting as the fumes can be inhaled. Make sure you know what type of metal and cutting fluid you will be exposed to and how to avoid contamination.
25. **Call for help.** If at any time you experience difficulties, stop the machine and call you nearest branch service department for help.

⚠WARNING

Scroll Saw Safety Instructions

Machinery House
requires you to read this entire Manual before using this machine.

1. **Maintenance.** Make sure the Scroll Saw is turned off and disconnect from the main power supply and make sure all moving parts have come to a complete stop before any inspection, adjustment or maintenance is carried out.

2. **Scroll Saw Condition.** Scroll Saw must be maintained for a proper working condition. Never operate a Scroll Saw that has damaged or worn parts. Scheduled routine maintenance should performed on a scheduled basis.

3. **Blade Condition.** Never operate a Scroll Saw with a dull, cracked or badly worn blade. Before using a Scroll Saw inspect blades for missing teeth and cracks. Replace if required.

4. **Replacing Blade.** Make sure teeth are face forward to the workpiece and blade is properly tensioned. Wear gloves to protect hands and wear safety glasses to protect your eyes.

5. **Use Correct Blade.** Use the correct blade for the material being cut and the type of cut you are performing.

6. **Hand Hazard.** Keep hands and fingers clear from the line of cut of the blade. Serious injury can occur.

7. **Leaving a Scroll Saw Unattended.** Always turn the Scroll Saw off and make sure all moving parts have come to a complete stop before leaving the Scroll Saw. Do not leave Scroll Saw running unattended for any reason.

8. **Avoiding Entanglement.** Blade guard must be used at all times. Remove loose clothing, belts, or jewelry items. Never wear gloves while machine is in operation. Tie up long hair and use the correct hair nets to avoid any entanglement with the Scroll Saw moving parts.

9. **Understand the machines controls.** Make sure you understand the use and operation of all controls.

10. **Power outage.** In the event of a power failure during use of the Scroll Saw, turn off all switches to avoid possible sudden start up once power is restored.

11. **Work area hazards.** Keep the area around the Scroll Saw clean from oil, tools, chips. Pay attention to other persons in the area and know what is going on around the area to ensure unintended accidents.

12. **Workpiece Handling.** Never hold small workpieces with your fingers during a cut, use a push stick or safety device. Always support large workpieces while cutting. Firmly secure your scroll saw to workbench to avoid any movement.

13. **Hearing protection and hazards.** Always wear hearing protection as noise generated from Scroll Saw blade and workpiece vibration, material handling can cause permanent hearing loss over time.

14. **Cutting techniques.** Plan your cuts so you always cut out of the wood. Do not back the workpiece away from the blade while the saw is running. If you need to back the workpiece out, turn off the Scroll Saw and wait till the blade has come to a complete stop, and do not twist or put excessive stress on the blade while backing work out.

15. **Feeding material.** Always feed material evenly and smoothly. Do not force or twist blade while cutting, especially while cutting small radii material.

16. **Job Material.** This machine is designed to cut wood only. It is not designed to cut metal or use cutting fluid. Always inspect you material before cutting. If you have any doubt about stability or structural integrity of your stock do not cut.

17. **Starting position/speed.** Never turn the Scroll Saw on when the blade is resting on the workpiece. Allow blade to reach full speed before cutting.

18. **Guards.** Do not operate Scroll Saw without the blade guard in place.

19. **Stopping the Blade.** Do not stop or slow the blade with your hand or workpiece. Allow the blade to stop on its own.

20. **Call for help.** If at any time you experience difficulties, stop the machine and call you nearest branch service department for help.

PLANT SAFETY PROGRAM

NEW MACHINERY HAZARD IDENTIFICATION, ASSESSMENT & CONTROL

Scroll Saw

Developed in Co-operation Between A.W.I.S.A and Australia Chamber of Manufactures
This program is based upon the Safe Work Australia, Code of Practice - Managing Risks of Plant in the Workplace (WHSA 2011 No10)

Item No.	Hazard Identification	Hazard Assessment	Risk Control Strategies (Recommended for Purchase / Buyer / User)
A	ENTANGLEMENT	MEDIUM	Eliminate, avoid loose clothing / Long hair etc.
B	CRUSHING	LOW	Ensure scroll saw is secured down properly.
C	CUTTING, STABBING, PUNCTURING	MEDIUM	Blade guards should always be in the closed position before starting machine. Keep fingers clear of blade when cutting. Isolate main power switch before changing blade, cleaning or adjusting. Use a push stick to remove off-cuts.
D	SHEARING	MEDIUM	Make sure all guards are secured shut when machine is on.
F	STRIKING	LOW	Remove all loose objects around moving parts. Wear safety glasses
H	ELECTRICAL	MEDIUM	All electrical enclosures should only be opened with a tool that is not to be kept with the scroll saw.
O	OTHER HAZARDS, NOISE.	LOW	Wear hearing protection as required.
Plant Safety Program to be read in conjunction with manufactures instructions			

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Authorised and signed by:
Safety officer: .....

Manager: .....

Revised Date: 12th March 2012

ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

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