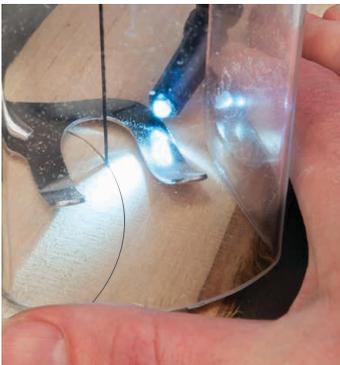


AC456SS Scroll Saw



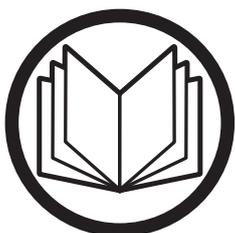
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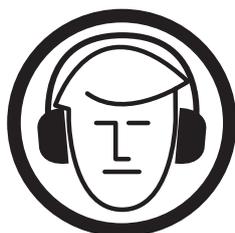
EU Declaration of Conformity

<p>Cert No: SS18LVR</p> <p>Axminster Tool Centre Ltd Axminster Devon EX13 5PH UK axminstertools.com</p> <p>declares that the machinery described:-</p> <table border="1"> <tr> <td>Type</td> <td>Scroll Saw</td> </tr> <tr> <td>Model</td> <td>AC456SS</td> </tr> </table> <p>Signed </p> <p>Andrew Parkhouse Operations Director</p> <p>Date: 25/10/2016</p>	Type	Scroll Saw	Model	AC456SS	<p>EU Declaration of Conformity</p> <p>This machine complies with the following directives:</p> <p>2006/42/EC EN 61029-1: 2009+A11: 2010</p> <p>and conforms to the machinery example for which the EC Type-Examination Certificate No WAR-16JU2178TTSP has been issued by Wendeng Allwin Power Equipment Co., Ltd. at: 18 Sichan Road, Wendeng, Shandong 264400 China</p> <p>and complies with the relevant essential health and safety requirements.</p>
Type	Scroll Saw				
Model	AC456SS				

The symbols below advise the correct safety procedures when using this machine.



Fully read manual and safety instructions before use



Ear protection should be worn



Eye protection should be worn



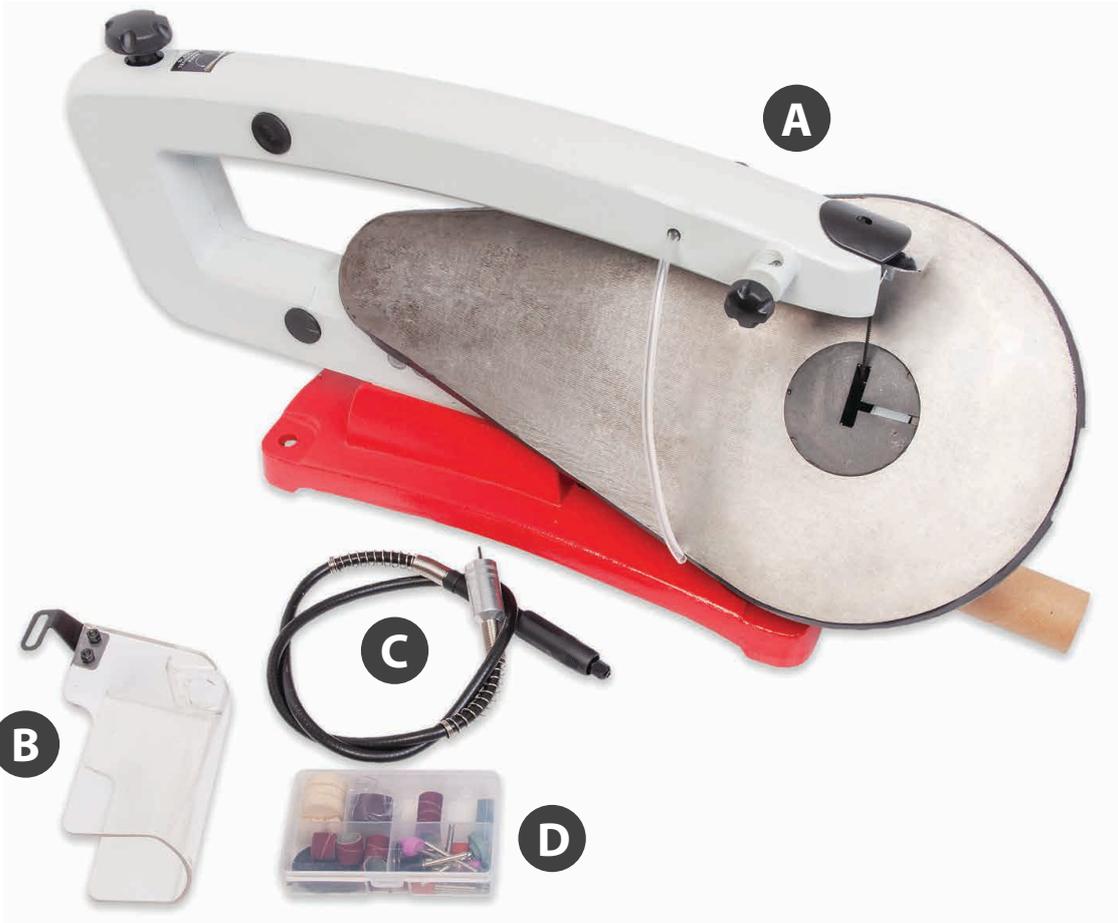
Dust mask should be worn



HAZARD

What's Included

Quantity	Item	Part	Model Number
			AC456SS
1	456mm Scroll Saw	A	
1	Blade Guard	B	
1	Multi-Tool Flexi-Shaft with a 3.2mm Chuck	C	
1	64 Piece Multi-Tool Sanding & Grinding Kit	D	
1	Drop Foot Assembly	E	
1	Pinless Blade	F	
1	3.2mm Spanner	G	
2	Hex Keys	H	
1	Multi-Tool Shaft Locking Pin	I	
2	Pinless Blade Clamp Holders	J	
1	Instruction Manual		



What's Included

Quantity	Item	Part	Quantity	Item	Part
1	64 Piece Multi-Tool Sanding & Grinding Kit	D			
6	Sanding Sleeves	D1	1	Wire Wheel	D9
9	Sanding Discs Grey	D2	4	Diamond Grinding Bits	D10
20	Sanding Discs Brown	D3	1	Disk Arbor for Cutting/Sanding Discs	D11
1	Sharpening Stone	D4	1	Cleaning Brush Bit	D12
3	Cutting Discs	D5	1	Felt Disc Arbor Bit	D13
3	Felt Polishing Discs Large & Small	D6	1	2.3mm Collet	D14
6	Grinding Bits	D7	1	3mm Drill Bit	D15
1	Sanding Drum Arbor Bit	D8	1	2.3mm Drill Bit	D16



Replacement accessories see our **Dremel** and **Proxxon** range at axminstertools.com or in our stores.



Please read the Instruction Manual prior to using your new tool; as well as the operating procedures for your new tool, there are numerous hints and tips to help you to use the tool safely and to maintain its efficiency and prolong its life. There is

also a detailed description of the parts of your scroll saw, which will enable you to become familiar with terminology we will use in this manual. Keep this Instruction Manual readily accessible for any others who may also be required to use the tool.

Introduction

The AC456SS scroll saw has a flexible rotary shaft fitted with a small hand piece including a 3.2mm collet chuck. The shaft is 900mm long, and runs at approximately 1,500-4,800rpm. A 64 piece accessory pack has a selection of sanding and grinding tools for shaping various materials.

The scroll saw has a powerful, variable speed motor and is easily able to cope with the 50mm depth of cut.

The generous cast iron table tilts to 45° and has plenty of work space for larger projects. The base is also cast iron, providing stability and includes holes for bolting down to a workbench.

Able to take both pinned and pinless blades, there is a large tensioning knob easily accessible at the rear of the top arm. There is an adjustable blower to remove dust from the cutline.

General Safety Instructions for 230V Machines

The following will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.



WARNING!! KEEP TOOLS AND EQUIPMENT OUT OF REACH OF YOUNG CHILDREN



KEEP WORK AREA AS UNCLUTTERED AS IS PRACTICAL. UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN WORK AREAS.

Mains Powered Tools

- Tools are supplied with an attached 13 Amp UK 3 pin plug, fitted with 5 amp fuse.
- Inspect the cable and plug to ensure that neither are damaged. Repair if necessary by a suitably qualified person.
- Do not use when or where it is liable to get wet.

Workplace

- Do not use 230V a.c. powered tools anywhere within a site area that is flooded.
- Keep machine clean.
- Leave machine unplugged until work is about to commence.
- Always disconnect by pulling on the plug body and not the cable.

- Carry out a final check e.g. check the cutting tool is securely tightened in the machine and the correct speed and function set.
- Ensure you are comfortable before you start work, balanced, not reaching etc.
- Wear appropriate safety clothing, goggles, gloves, masks etc. Wear ear defenders at all times.
- If you have long hair wear a hair net or helmet to prevent it being caught up in the rotating parts of the machine.
- Consideration should be given to the removal of rings and wristwatches.
- Consideration should also be given to non-slip footwear etc.
- If another person is to use the machine, ensure they are suitably qualified to use it.
- Do not use the machine if you are tired or distracted
- Do not use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases.
- Check cutters are correct type and size, are undamaged and are kept clean and sharp, this will maintain their operating performance and lessen the loading on the machine.
- **OBSERVE....** make sure you know what is happening around you and **USE YOUR COMMON SENSE.**

Specific Safety Precautions for Scroll Saws

1. Wear safety goggles as protection against flying wood chips and saw dust. In many cases, a full face shield is even better protection. A dust mask is also recommended to keep saw dust out of your lungs.
2. The scroll saw must be bolted securely to a stand or work bench. If the saw has a tendency to move during certain operations, bolt the stand or workbench to the floor.
3. A solid wood workbench is stronger and more stable than a workbench with a plywood table.
4. This scroll saw is for indoor use only.
5. Do not cut pieces of material which are too small to be held by hand.
6. Clear the work table of all objects except the work piece (tools, scraps, rulers etc.) before turning the saw on.
7. Make sure the blades' teeth are pointing down, toward the table, and that the blade tension is correct.
8. When cutting a large piece of material, support it at the height of the table.
9. Do not feed the work piece through the blade too fast. Feed only as fast as the blade will cut.
10. Keep your fingers away from the blade. Use a push stick as you near the end of the cut.
11. Take care when cutting a work piece which is irregular in cross section. Moulding for example must lie flat, and not 'rock' on the table as it is being cut. A suitable support must be used.
12. Take care when backing off a work piece from the blade, as the blade may bind in the kerf. In this event, switch OFF the machine and disconnect from the supply. Wedge open the kerf, and withdraw the work piece.
13. Switch off the saw, and make sure the blade has come to a complete stop before clearing sawdust or off-cuts from the table.
14. Make sure there are no nails or foreign objects in the part of the work piece to be sawn.
15. Be extra cautious with very large or small, or irregularly shaped work pieces.
16. Set up the machine and make all adjustments with the power OFF, and disconnected from the supply.
17. DO NOT operate the machine with the covers off. They must all be in place and securely fastened when performing any operation.
18. Be sure to use the correct blade size and type.
19. Use ONLY approved replacement saw blades. Contact your local Axminster Tool Centre for advice. The use of inferior blades may increase the risk of injury.

Specification

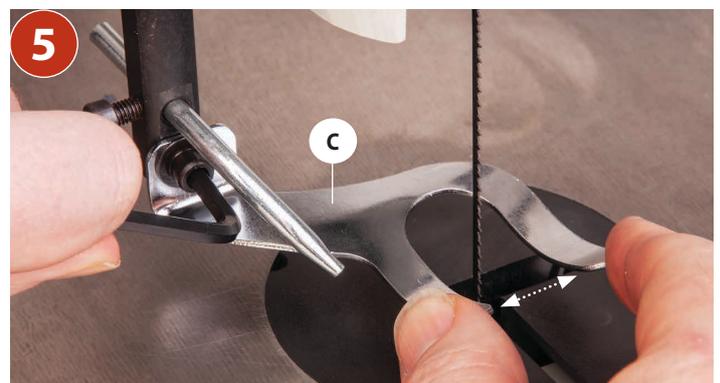
Code	105250
Model	AC456SS
Rating	Craft
Power	120W DC Motor 230V 50Hz 1Ph
Throat Depth	456 mm
Stroke	17 mm
Cutting Depth @ 90°	50 mm
@ 45°	20 mm
Cuts per Minute	550-1,600
Table Size	490 x 262 mm
Table Tilt	0° - 45°
Dust Extraction Outlet	35 mm
Overall LxW x H	710 x 315 x 350 mm
Weight	18 kg

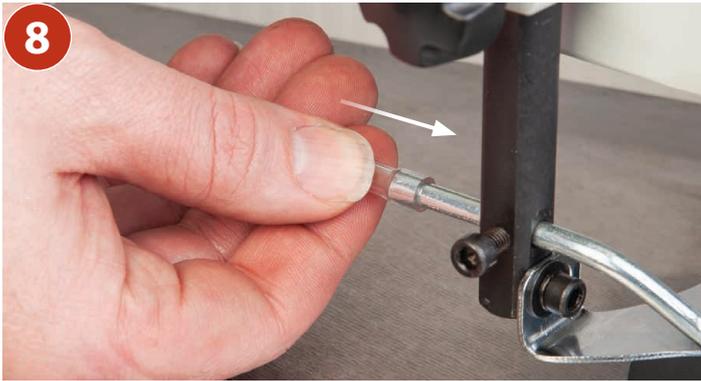
Having unpacked your scroll saw and its accessories please dispose of any unwanted packaging properly. The cardboard packaging is biodegradable.



PLEASE DISPOSE OF ANY UNWANTED PACKAGING PROPERLY. THE POLYTHENE, POLYSTYRENE AND CARD IS RECYCLABLE.

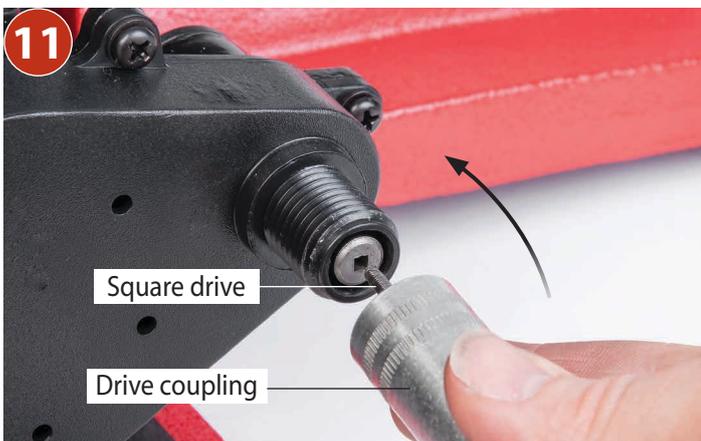
Your scroll saw is fully assembled, except for the Blade Guard assembly (B-E), the hose for the blower and Multi-Tool flexi-shaft (C). Please follow the instruction below.





Multi-Tool Flex-Shaft Drive

Attaching the Multi-Tool flexible drive chuck (C) to the scroll saw's power takeoff on the motor assembly can quickly and simply convert your saw into a rotary tool. This enables you to use a host of accessory bits. Follow the instruction below for assembly.



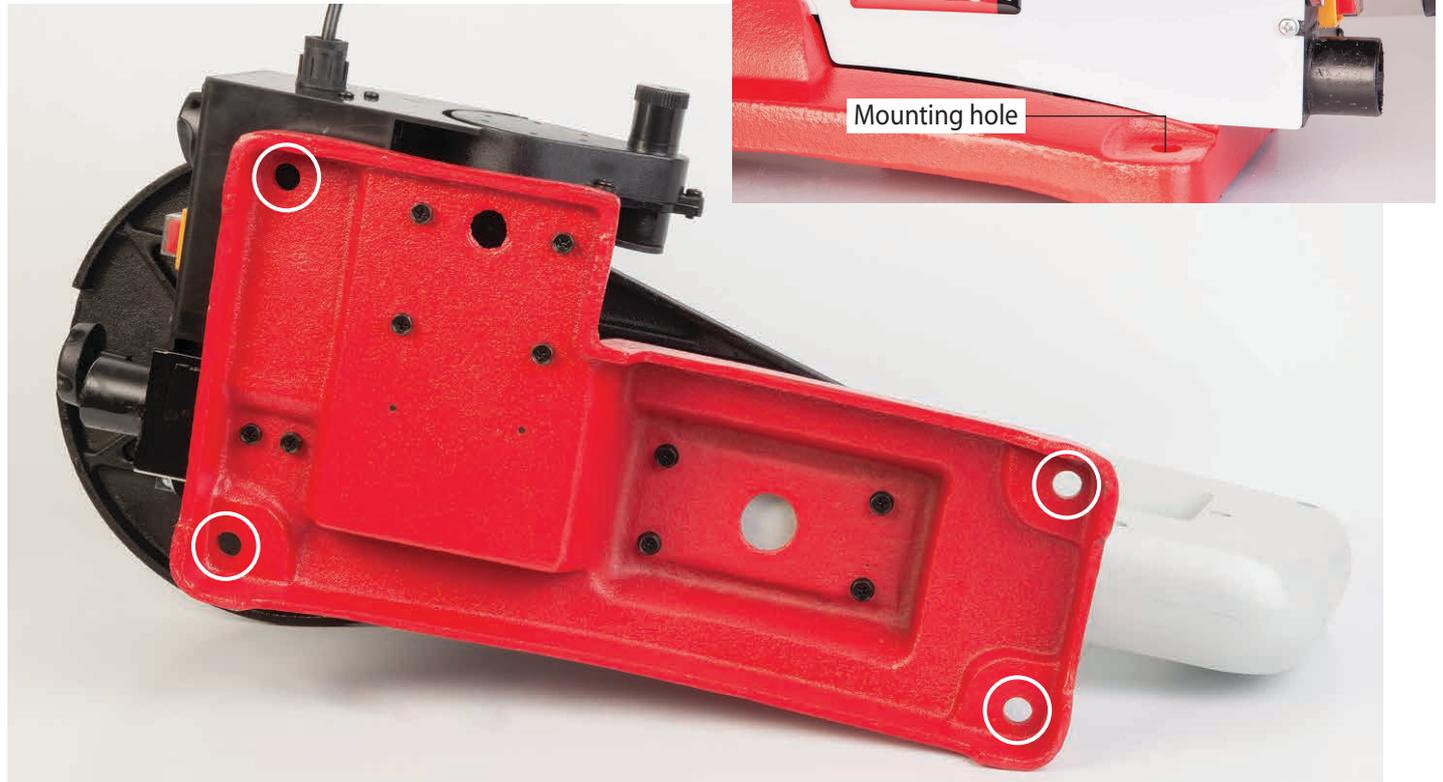
Insert the square drive shaft into the square hole in the motor's power takeoff. Screw on the flexible drive coupling.



Mounting the Scroll Saw

It is strongly recommended that you mount the machine to a workbench or to a purpose built scroll saw stand. A pad between the saw and the workbench/stand is also recommended to reduce vibration. Ensure you use flat washers between the bolt head and mounting holes, see figs 01-02-03.

Fig 01-02-03



NOTE: Fretsaw Stand Only. You may need to add a larger sub-table (MDF or Plywood plate) to give extra support to larger models.

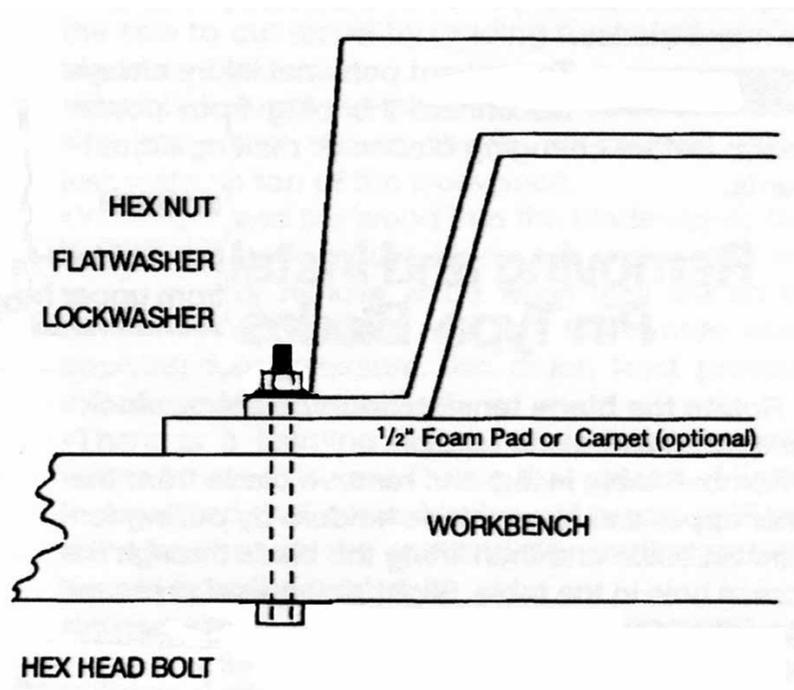


Illustration and Parts Description

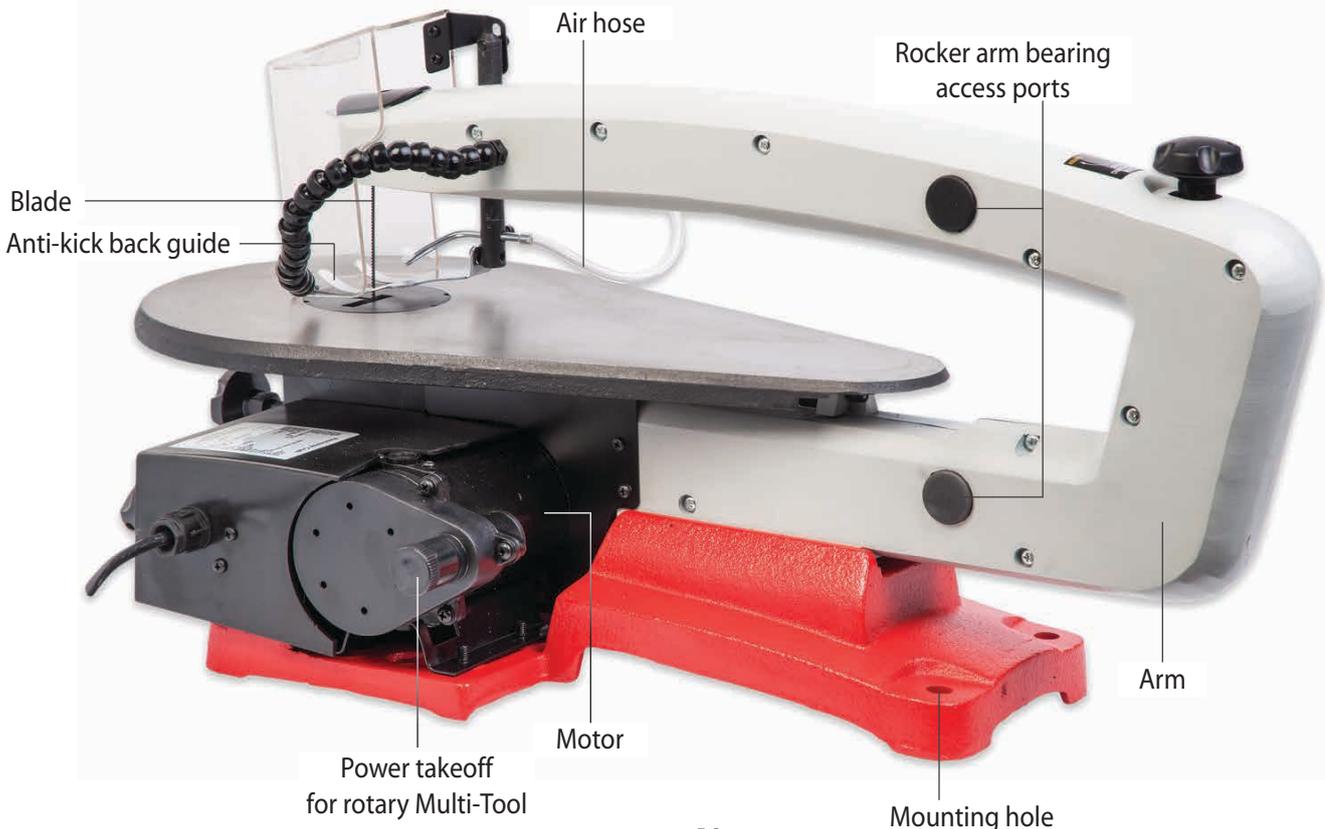
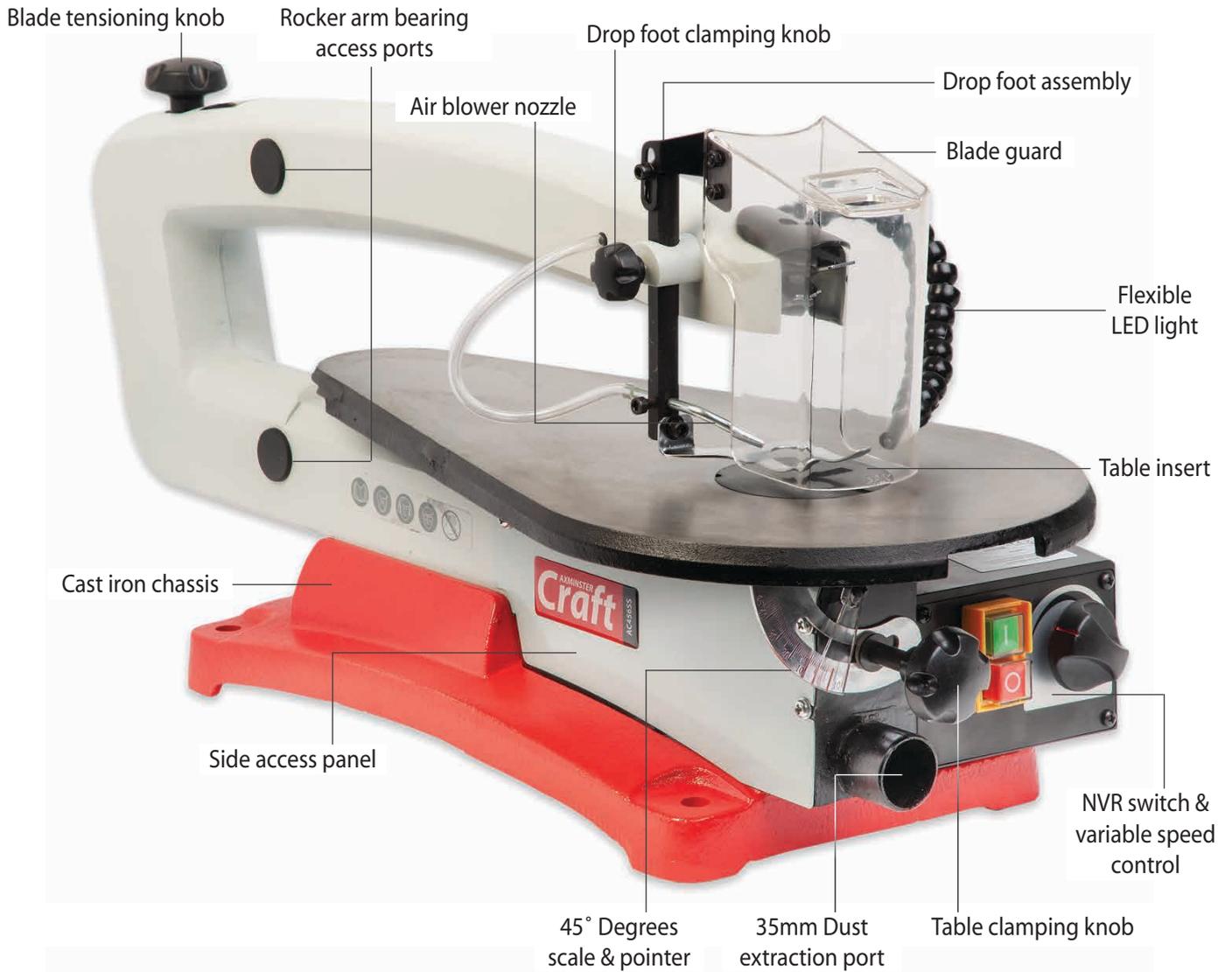
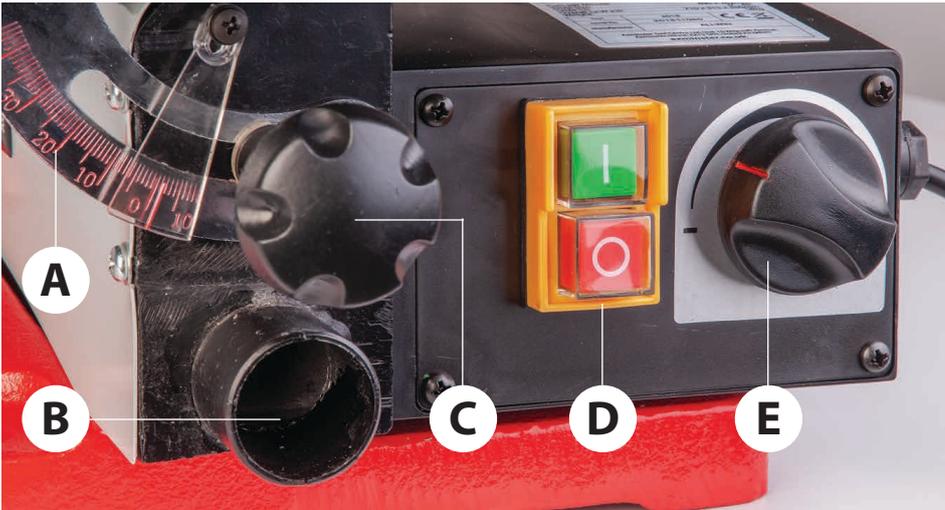
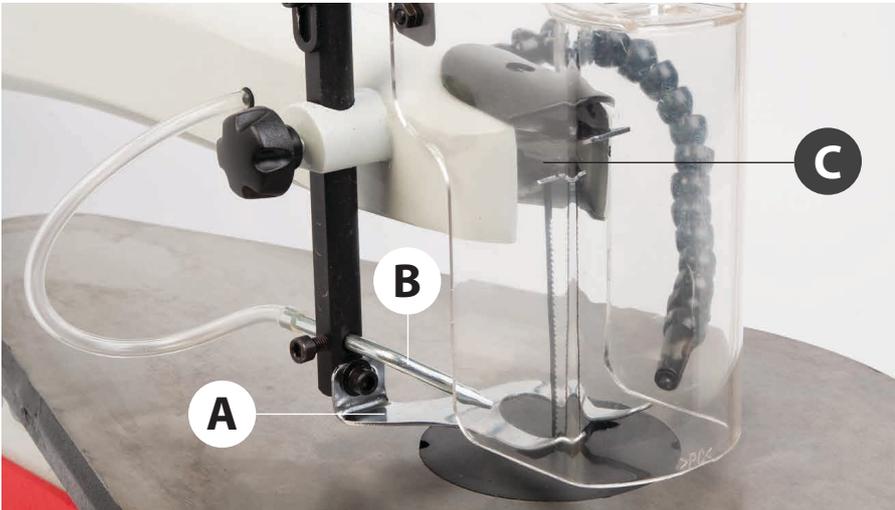


Illustration and Parts Description



0-45° Degrees scale & pointer (A), 35mm Extraction port (B), Table clamping knob (C) NVR ON/OFF switch (D), Variable speed control (E)

Scale & pointer



Anti-kick back guide (A), Air blower nozzle (B), Upper blade holder cradle assembly (C)

Flexible LED light that lightup the cutting line



Multi-Tool flexi-shaft with a 3.2mm chuck that turns the scroll saw into a rotary tool

64 Piece Multi-Tool sanding and grinding kit

Setup and Adjustment

The scroll saw comes with the blade assembled. Please follow the instruction below on how to tension your saw.

Tensioning the Blade

Check that the blade is under tension. If the blade is loose, turn the blade tensioning knob to the rear of the arm to take up the slack then turn the knob one full turn clockwise. Check that the blade is sufficiently tensioned by pinging the blade, see fig 04-05.

NOTE: Before turning the knob one full turn, place a positioning mark on the knob to make sure you don't over tension the blade.



WARNING! DO NOT OVERTIGHTEN THE BLADE OTHERWISE THE BLADE WILL BREAK.

Fig 04-05

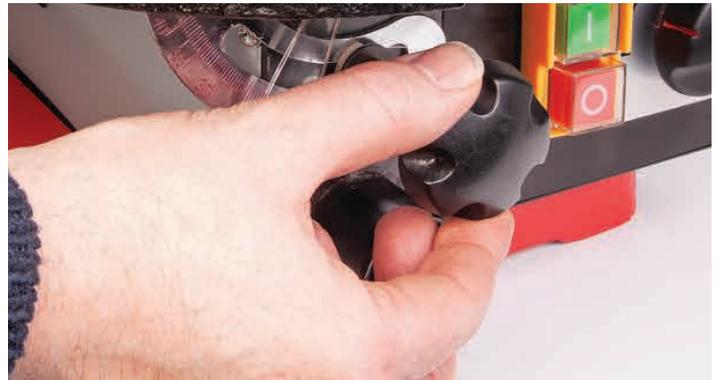
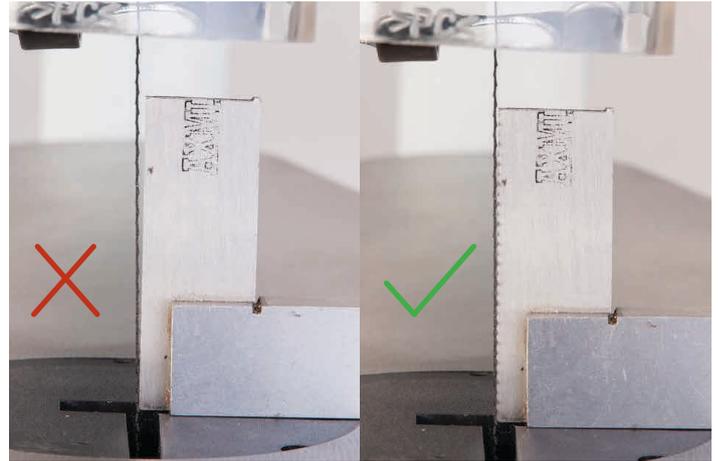


Setting the Table

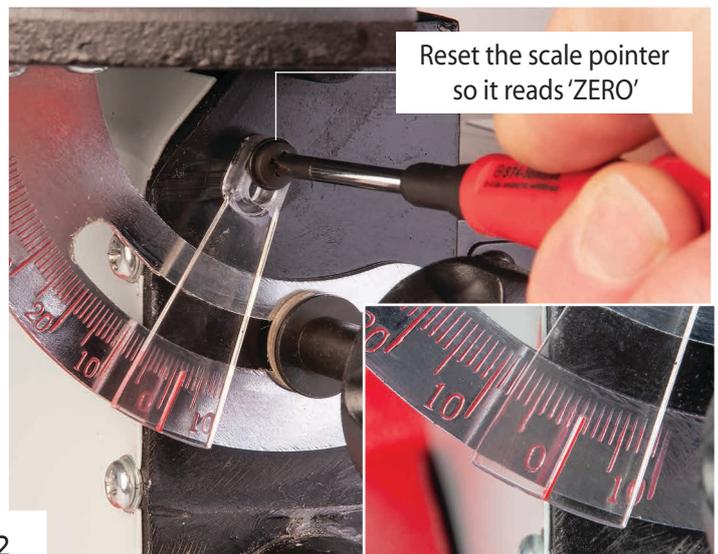
1. Place an engineer's square on the table and position it up against the blade, making sure that the square is not in contact with any of the teeth. Check that the blade is perpendicular (90°) to the table, see fig 06.

2. If adjustment is required, loosen the table clamping knob and rotate the table until correct. Re-tighten the knob to secure the table, see fig 07.

Fig 06-07-08-09



3. Check that the scale pointer is pointing at ZERO degrees on the scale. If not, loosen the Phillips screw and adjust pointer until correct, re-tighten the screw, see fig 08-09.



Setting the Anti-kick back guide

Place your work on top of the work table and lower the anti-kick back guide by loosening the drop foot clamping knob. Position the anti-kick back guide, so its just above your work piece, clamp the drop foot assembly in position, see fig 10-11.

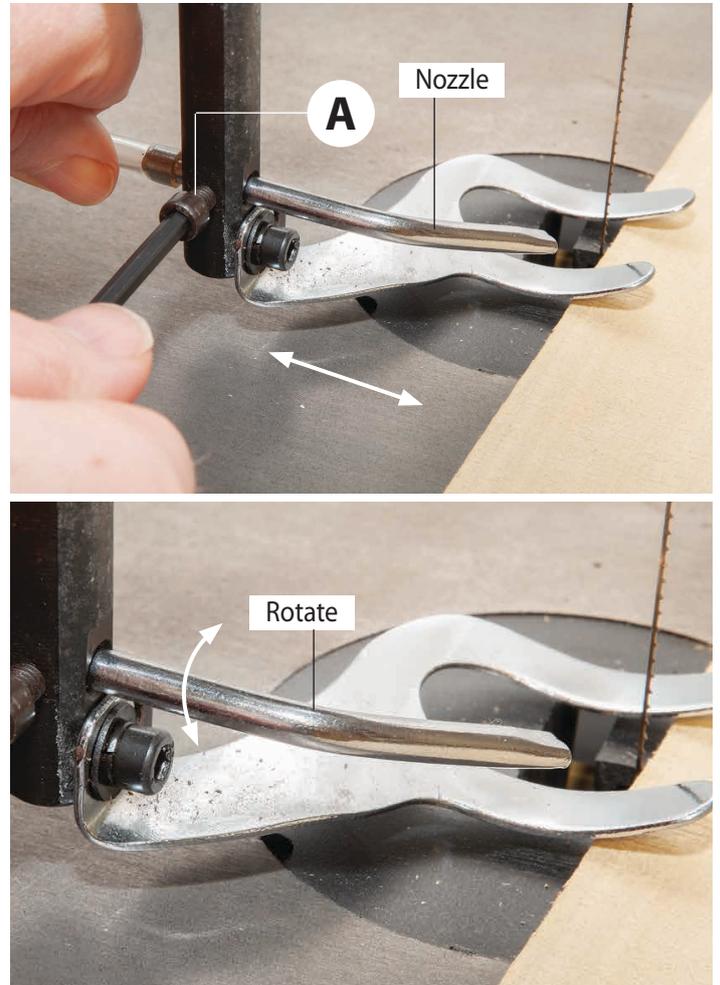
Fig 10-11



Setting the Air Blower Nozzle

Loosen the screw (A) holding the air blower nozzle and adjust so it's pointing towards the front of the blade, see fig 12-13.

Fig 12-13



Operating Instructions

NOTE: If you are new to scroll saws, there will be a learning period, a period to learn the saw itself, and a period to learn how the wood and saw work together.

Expect some blade breakages, scroll saw blades are fairly fragile, compared to blades found on a bandsaw.



UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN THE WORK AREA AND KEEP TOOLS AND EQUIPMENT OUT OF REACH OF YOUNG CHILDREN!

CHECK THAT EVERYTHING IS SECURE, THAT THE BLADE IS TIGHT AND ALL NON ESSENTIAL ITEMS HAVE BEEN CLEARED AWAY FROM THE WORK AREA. CONNECT A DUST EXTRACTION UNIT TO THE DUST EXTRACTION OUTLET ON THE SCROLL SAW.



SEE THE SYMBOLS ON PAGE TWO FOR WEARING THE CORRECT SAFETY PROTECTION WHEN USING THIS MACHINE.



CONNECT A DUST EXTRACTION MACHINE TO THE SAW.

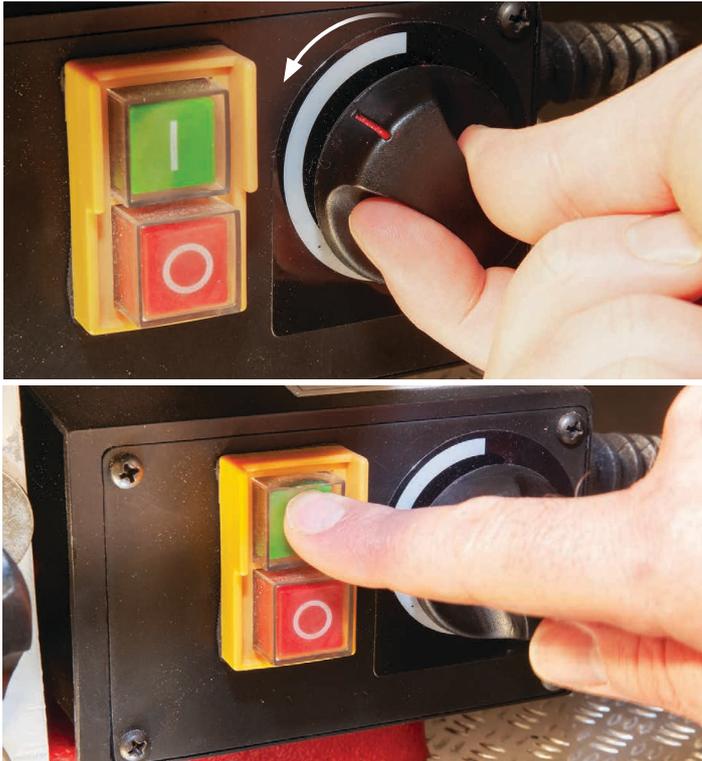


CONNECT THE SCROLL SAW TO THE MAINS SUPPLY AND SWITCH ON.

1. Before turning on the scroll saw make sure the variable speed control is turned down low, see fig 14. Place the work piece on the table and lower the guard so it's just above the work piece.

Operating Instructions

Fig 14-15



2. Switch on the scroll saw by pressing the 'GREEN ON' button, see fig 15. Adjust variable speed so it's between 'Low and High', supporting the work piece with both hands slowly guide the work piece forward into the blade, see fig 16.

Fig 16



NOTE: You must guide the wood into the blade **SLOWLY**, because the teeth are very small, and it cuts **ONLY** on the downward stroke. If you push the wood into the blade too rapidly, you can easily break the blade.

NOTE: If you find the blade is struggling to cut through, increase the speed by turning the variable speed knob.

3. Once you have completed your cut, switch off the scroll saw by pressing the red 'OFF' button.



DISCONNECT THE SCROLL SAW FROM THE MAINS SUPPLY!

Fig 17



4. If you have finished using the scroll saw, clean above and below the work table and wipe the scroll saw over, see fig 17.

5. If the scroll saw is not going to be used for a period of time, use 'Ambersil Dry PTFE Film Antistick', spray, code 952137 over the work table to prevent the table from rusting and place a dust sheet over the scroll saw.



Tilting the table to 45°

1. Loosen the table's butterfly clamp and rotate the table to +/- 45° degrees and re-tighten clamp, see fig 18-19.

Fig 18-19





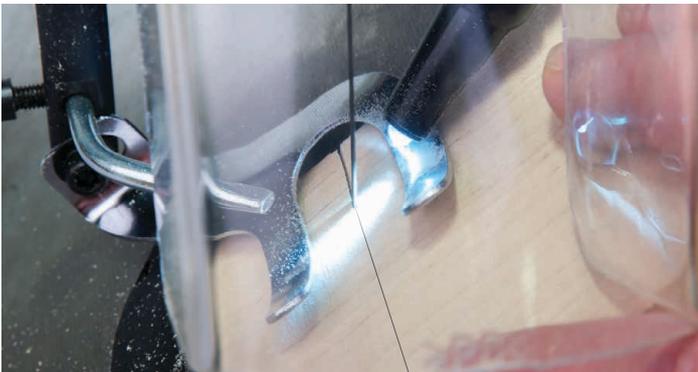
CONNECT THE SCROLL SAW TO THE MAINS SUPPLY!

2. Place the work piece on the table and set the guard so it's just above the work piece.
3. Switch on the scroll saw by pressing the green 'ON' button, set the variable speed and carefully guide the work piece into the blade, see fig 20.
4. Once you have completed your cut, switch off the scroll saw by pressing the red 'OFF' button.



DISCONNECT THE SCROLL SAW FROM THE MAINS SUPPLY!

Fig 20



Scroll Saw Operating Characteristics

The scroll saw's unique ability is cutting intricate curves which other saws cannot do. A scroll saw can also be used for straight line cutting such as cross cuts, ripping and bevels. The following is a list of points to remember when using a scroll saw.

1. The saw does not cut wood by itself. You feed the work piece into the blade, letting the blade cut the wood as you move the piece ahead.
2. You must guide the wood into the blade SLOWLY, because the teeth are very small, and cut ONLY on the down stroke. If you push the wood into the blade too rapidly, you can easily break the blade.
3. Although the capacity of the saw accepts wood up to 2" (50mm) thick, better results are obtained with wood no more than 1" (25mm) thick. For wood thicker than 1", you must guide the wood into the blade very slowly, taking care not to bend or twist the blade.
4. The teeth on the blade will wear out sooner or later. The blade must therefore be replaced often to obtain the best cutting results. A blade will stay sharp for half an hour to 2 hours of continuous running, depending on the material being cut.

5. Be aware that the blade has a tendency to follow the grain of the wood. You can compensate for this by watching the grain carefully and guiding the wood past the saw blade.

6. If you are not familiar with scroll saws, there will naturally be a learning period - a period to learn the saw itself, and a period to learn how the wood and saw work together. Expect some blade breakages, scroll saw blades are fairly fragile not the same types of blade you find on a handsaw or circular saw.

Cutting Intricate Patterns

One capability a scroll saw has that other saws do not, is cutting intricate patterns inside a work piece. To do this, you should adopt the following procedure.

1. Drill a 1/4" hole in the middle of the work piece, in an area which will not be a part of the finished object.



DISCONNECT THE SCROLL SAW FROM THE MAINS SUPPLY!

2. Switch off and unplug the machine from the supply.
3. Remove the blade from the machine, see pages 14-15.
4. Place the work piece on the table, with the 1/4" hole over the access hole in the table.
5. Replace the blade, through the hole in the work piece, (with the teeth pointing downwards), and re-tension the blade.

NOTE: To get better access to the lower blade holder, remove the side access panel.

Check to ensure that the work piece is not touching the blade before switching ON.



CONNECT THE SCROLL SAW TO THE MAINS SUPPLY!

6. Switch on the saw and continue with operation.

Flexi-Shaft Rotary Multi-Tool

The Multi-Tool enables you to turn your scroll saw into a rotary tool.

1. **NOTE: Lower the saw guard (B) down to cover the saw blade before using the rotary tool.**
2. Make sure the bit is fitted securely before switching on the scroll saw.
3. Hold onto the rotary tool firmly before switching on the saw, preventing the flexi-shaft spinning uncontrollably.
4. Before switching on keep the sanding / grinding / cutting bit away from the work piece.

Changing the Blade

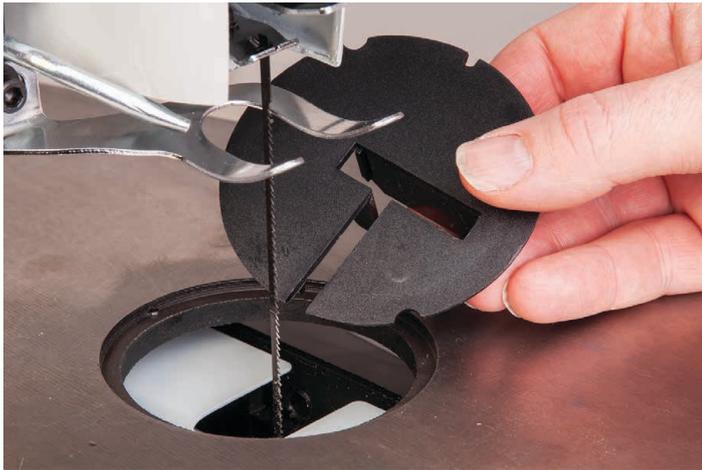
Standard Pin Blades



DISCONNECT THE SCROLL SAW FROM THE MAINS BEFORE CONTINUING!

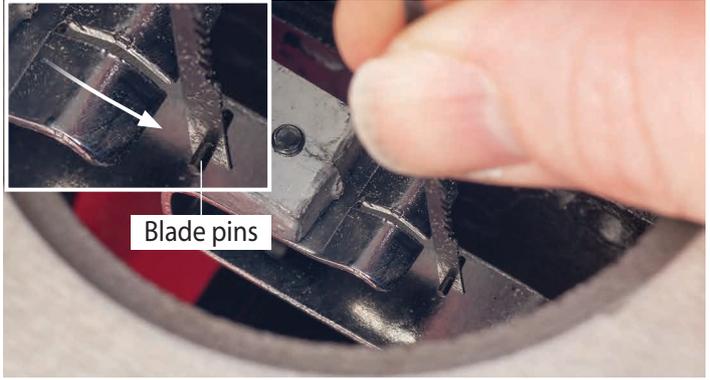
1. Turn the blade tensioning knob anti-clockwise to release tension on the blade and remove the table insert, see fig 21-22.

Fig 21-22



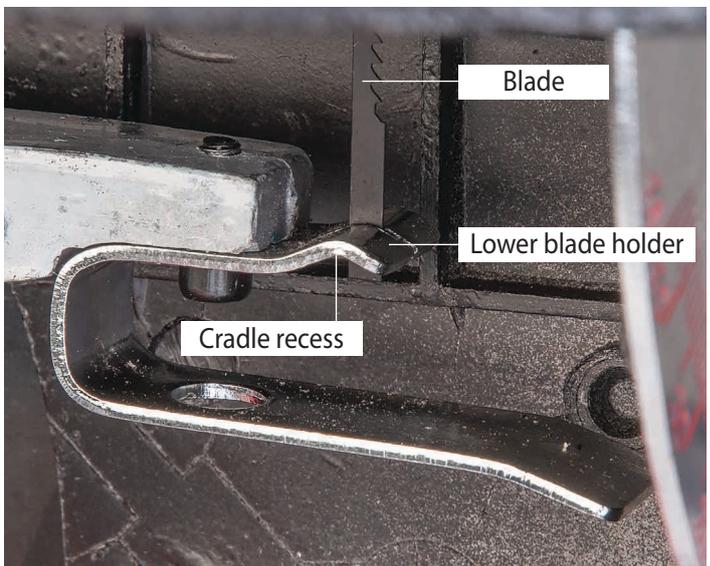
2. Unhook the pin blade from the lower blade holder, see fig 23-24. Repeat for the upper blade holder, see fig 25-26.

Fig 23-24-25-26



NOTE: The blade can be removed from the lower blade holder without removing the side access panel but figure 27 shows a detailed picture for clarity.

Fig 27



3. Clean both blade holders and remove any compacted crud before fitting a new blade.

4. Check sawblade for flaws (cracks, broken teeth, bending) before installation.



WARNING! DO NOT USE FAULTY SAWBLADES.

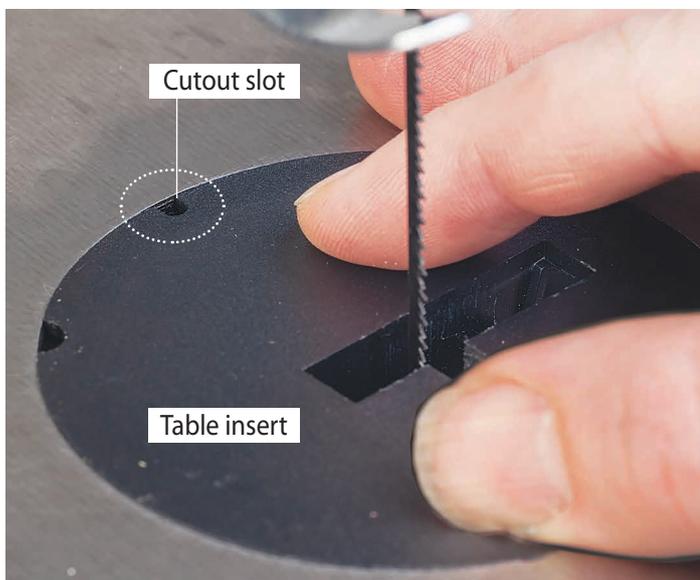
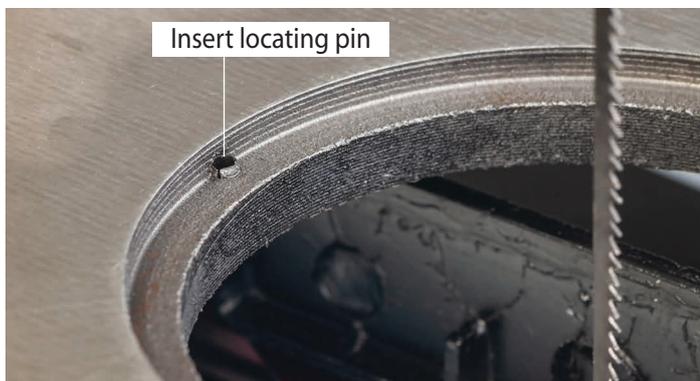


MAKE SURE THE TEETH ARE POINTING IN THE CUTTING DOWN DIRECTION!

5. Lower the pinned blade down through the table insert hole and into the lower blade holder housing. Insert the blade between the slot in the holder so that the pins on the end of the blade engage into the cradle's recess. Repeat for the upper blade holder.

7. Make sure that the pins are seated correctly in both cradles and nip up both blade holder caphead screws. Replace the table insert, see fig 28-29 and re-tension the blade as described on page 12.

Fig 28-29



CLEAR AWAY ANY TOOLS AROUND THE WORK AREA.



CONNECT THE SCROLL SAW TO THE MAINS SUPPLY!

8. Start the scroll saw and check everything is running correctly. If all OK, switch off the saw. If not repeat steps 1-7.

Pinless Blades



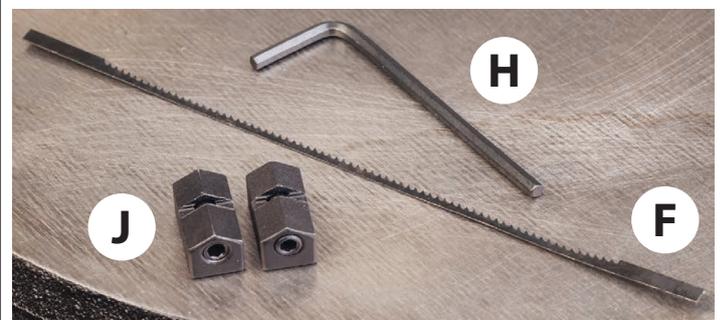
DISCONNECT THE SCROLL SAW FROM THE MAINS SUPPLY!

The scroll saw will accept pinless blades, to fit follow the instruction below.

1. Repeat steps 1-3 on the previous page to remove the standard pinned blade and clean both blade holders.

2. Locate the two pinless blade clamp holders (J), the supplied Hex key, (H) and pinless blade (F) see fig 30. Loosen the grub screws on either side of the holders. Place the blade down into the machined slots and tighten the screws, securing the blade in position.

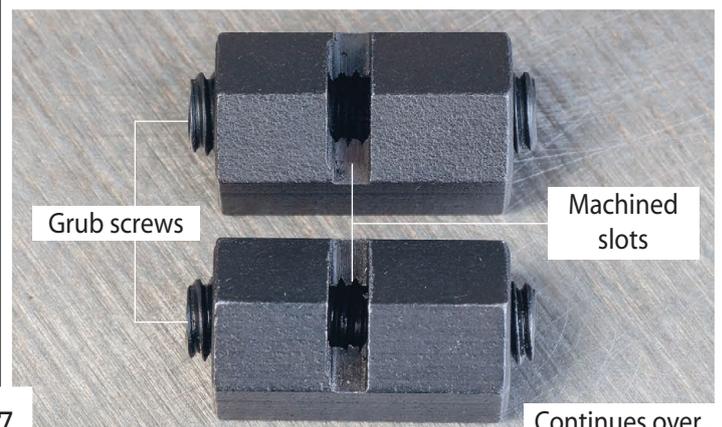
Fig 30



3. Check pinless sawblade (F) for flaws (cracks, broken teeth, bending) before installation.

NOTE: Make sure both blade clamp holders (J) are the same way round before fitting the blade, see fig 31.

Fig 31



Changing the Blade



WARNING! DO NOT USE FAULTY SAWBLADES.

Fig 32



4. Insert one end of the blade down into the machined slot in one of the blade holders (J). Make sure the blade is settled flush against the holder and nip up the two grub screws, clamping the blade in position. Repeat for the remaining holder, see fig 32.



MAKE SURE THE TEETH ARE POINTING IN THE CUTTING DOWN DIRECTION!

5. Lower the blade assembly down through the table's void. Insert the blade between the slot in the lower blade holder, lift the blade assembly so the pinless blade clamp holder (J) slots into the saw's blade holders cradle, see fig 33-34.

Fig 33-34

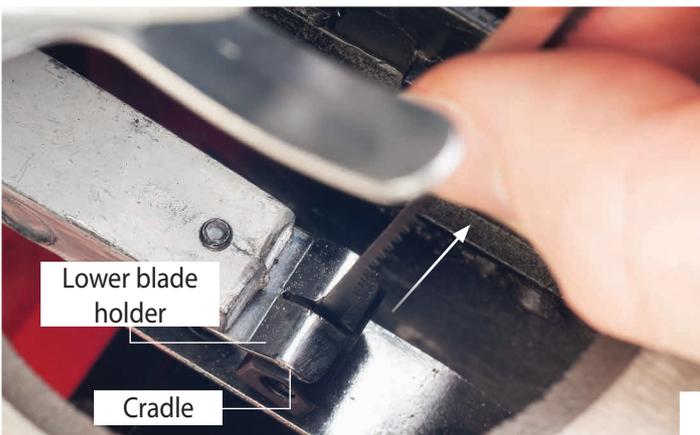
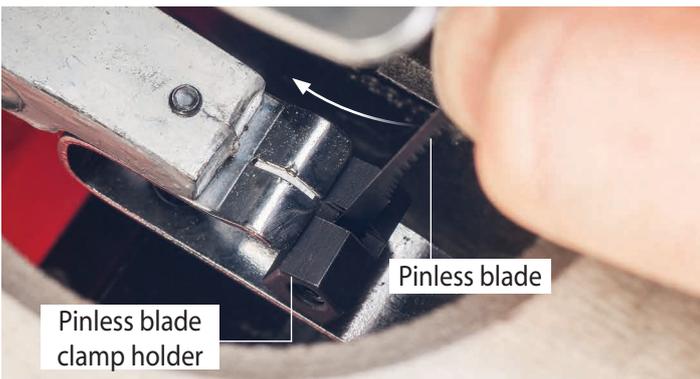
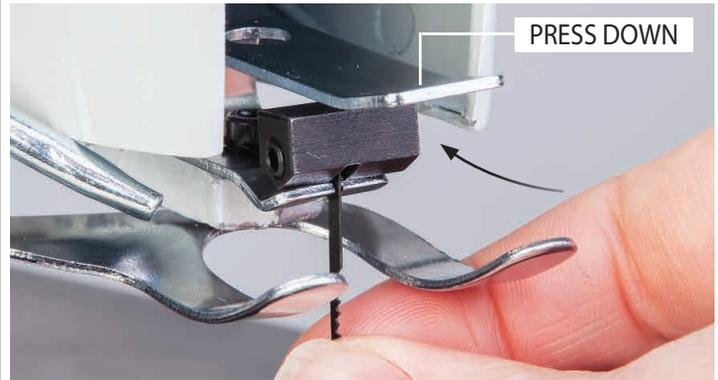


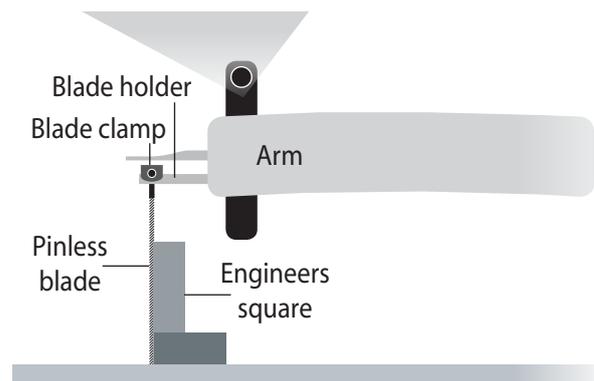
Fig 35



6. Insert the other holder (J) into the saw's upper holder's cradle, see fig 35. Replace the table insert and re-tension the blade as described on page 12.

7. Place a 90° degrees square behind the blade and check it's perpendicular with the table. If adjustment is required adjust the pinless blade until correct.

NOTE: You may need to remove the anti-kick back guide to gain access to the blade.

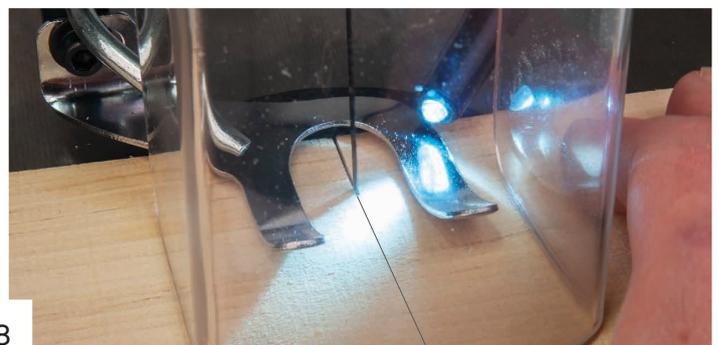


CLEAR AWAY ANY TOOLS AROUND THE WORK AREA.



CONNECT THE SCROLL SAW TO THE MAINS SUPPLY!

8. Start the scroll saw and check everything running correctly. If all OK, switch off the saw. Continue with operation. If not repeat steps 1-7.



Notes on Saw Blades



BLADES BREAK FOR FIVE PRINCIPAL REASONS

1. Too much tension or too little tension on the blade.
2. Overworking the blade by feeding the work piece too fast.
3. Twisting or bending the blade by feeding the work piece off-centre.
4. Over use, the blade has reached the end of its useful life.
5. Maximum cutting depth 50mm and exceeding the depth for which it was designed.

Selecting the right Blade

The scroll saw will accept a wide variety of blade widths and thicknesses. The width of the blade, the thickness of the blade and the number of teeth per inch (TPI) are determined by the type of material and size of the radius being cut. Here are several examples:

TPI	WIDTH	THICKNESS	MATERIAL
10	2.8mm 0.11"	0.5mm 0.020"	Medium curves on 114" to 1-3/4" wood, wallboard, hardboard.
15	2.8mm 0.11"	0.5mm 0.020"	Same as above, plus wood 1/8" to 1-1/2" thick
18	2.4mm 0.095"	0.25mm 0.010"	Extra thin cuts on soft woods to 1/4" and parquetry

As a general rule, select the narrowest blades recommended for intricate curve cutting and widest blades for straight and large curve operations.

Pegas Scroll Saw Blade

Pegas scroll saw blades are right up there alongside the best blades available on the market and are produced in Switzerland to a very high standard. Anybody using the scroll saw will enjoy using these high quality blades and good blades make for easier working!



See our full range of 'Pegas' scroll saw blades and accessories in our catalogue or visit us at axminstertools.com

Pegas Pinned Blades

Pinned blades are generally a lot more coarse than pinless blades and they have a much wider kerf. These are ideal if you are trying to cut straight lines, however they are not very good for doing internal fret work because of the size of the blade.



- Easy to fit, 127mm(5") pinned blades
- Suitable for many materials
- Best carbon steel, made in Switzerland
- Packs of 6

Pegas Skip Tooth Blades

Skip Tooth blades come with various tpi. These are great from the respect of cutting different materials according to the tpi. If you are cutting more hard wood than softwoods then go for a coarser tooth blade. They are called skipped blades because they have a tooth then a space then a tooth and so on. With these blades the teeth always face down towards the table.



- Performs well in wood, plastic, bone, Corian® and most fibrous materials
- Allows the cutting of intricate patterns
- Heat treated high carbon steel
- Versatile, suitable for many materials
- Excellent chip removal, fast feed rate & smooth finish
- Blade length 130mm

Pegas Reverse Skip Tooth Blades

Reversed Skip Tooth blades are the same as skipped blade except they have around three quarters of the blade facing down towards the table and about a quarter facing up underneath the table. The idea being that they cut both sides of the wood giving you a cleaner cut top and bottom on the work. Reverse teeth prevent splinters from developing on the underside of the workpiece because the top teeth do not cut entirely through the work. They have various tpi and are also available in double skip reverse to help clear more debris from the cut.



- Reverse teeth prevent splinters on the underside of the work
- Versatile, suitable for many materials
- Various sizes & tpis
- Blade length 130mm

Pegas Saw Blades / Changing the Multi-Tool Bit

Pegas Modified Geometry Teeth (MGT) Blades

Modified Geometry blades are the same as skipped reverse blades except that they have more spacing between the teeth so they do not heat up as much. These blades are great on lower set speeds for cutting materials such as acrylics, from the respect that they do not heat up. They are also great for cutting hard woods.



- Tooth design minimises burning
- Use on soft and hard wood up to 75mm thick
- Also well suited for plastic
- Accurate pattern cutting leaving a very smooth finish
- Blade length 130mm

Pegas Spiral Blades

Spiral blades are great for doing intricate fret work as the blade cuts 360°, however these blades are not so great if you are trying to cut straight lines as they will want to wander off course.



- Helical design offers all round cut
- Heat treated high carbon steel
- Blade length 130mm
- Work does not have to be turned to make cuts
- Excellent for wood, plastic, metals, bone, wax and more

Pegas Metal Cutting Blade

Metal Cutting blades are great for people wanting to cut non-ferrous metals, such as jewellery or coins, using their scroll saws. They have a much finer tpi and with the right tensioning on the blade they cut very well and very clean.



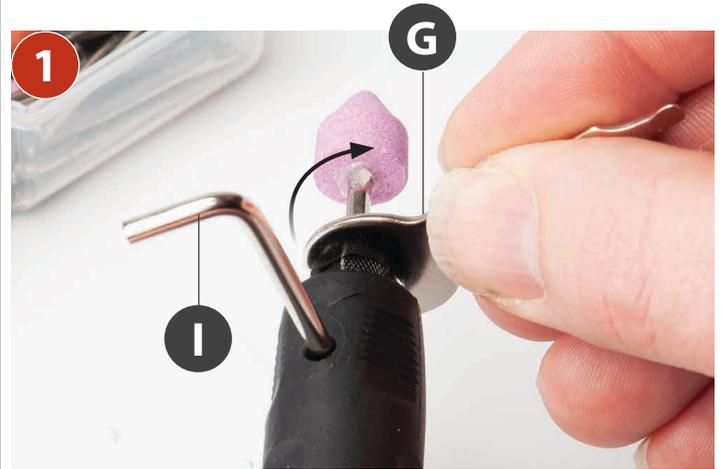
- Various sizes & tpi's
- Heat treated to give maximum performance with power scroll saws
- Use in scroll saws or hand frames
- For precise cutting of thin metals up to 3mm
- Blade length 130mm



DISCONNECT THE SCROLL SAW FROM THE MAINS BEFORE CONTINUING!

Multi-Tool Drive Chuck

The Multi-Tool comes with a host of accessory sanding, polishing and cutting bits. To change tool bit follow the instructions below.



Insert the shaft locking pin (I) into the chuck body and using the spanner (G) loosen the collect chuck



Remove the bit and place safely aside. Insert another bit into the collet chuck and tighten, NOTE: DON'T OVERTIGHTEN.





NOTE: The collet can be changed by unscrewing the chuck head, see image above.



DISCONNECT THE SCROLL SAW FROM THE MAINS BEFORE CONTINUING!

Checking & Replacing the Motor Brushes

After a period of time the scroll saw's motor brushes are due to wear and may need replacing, please follow the instruction below for checking and replacing the brushes.

1. There are two motor brush ports one on either side of the motor assembly, using a small flat head screwdriver remove one of the motor's brush access plugs and place safely aside, see fig 36-37.

Fig 36-37



NOTE: Be careful when removing the plug, the motor brush is sprung loaded.

NOTE: Take careful note of the orientation of the brushes when you remove them, remember that they have bedded themselves to the profile of the commutator in that position. If you fit them reversed they may not be in exactly the same position, which can cause excessive sparking and heat until they have re-bedded themselves.

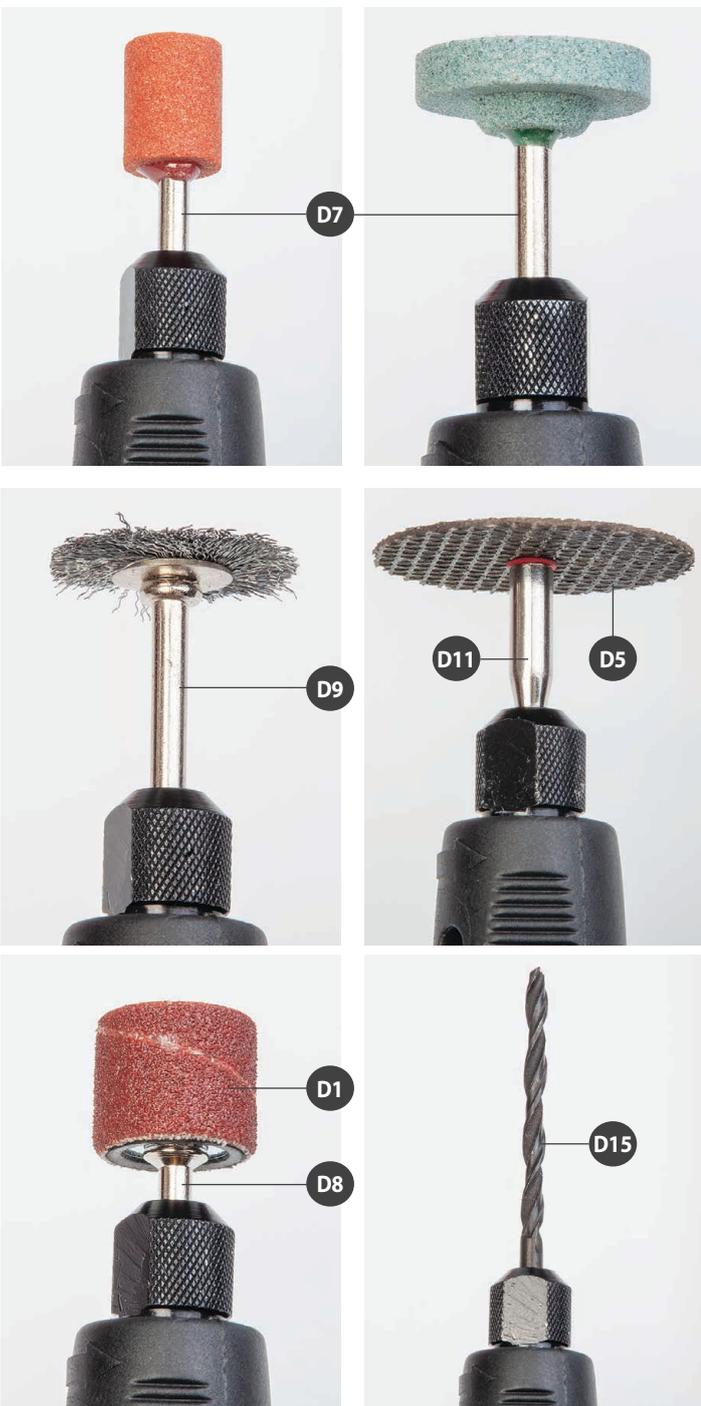
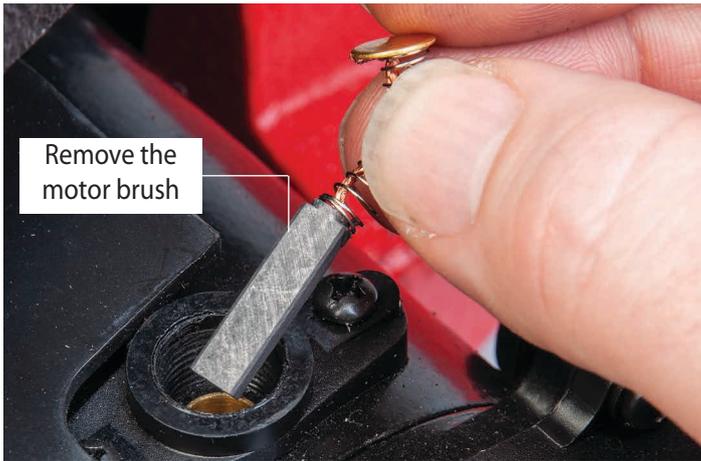


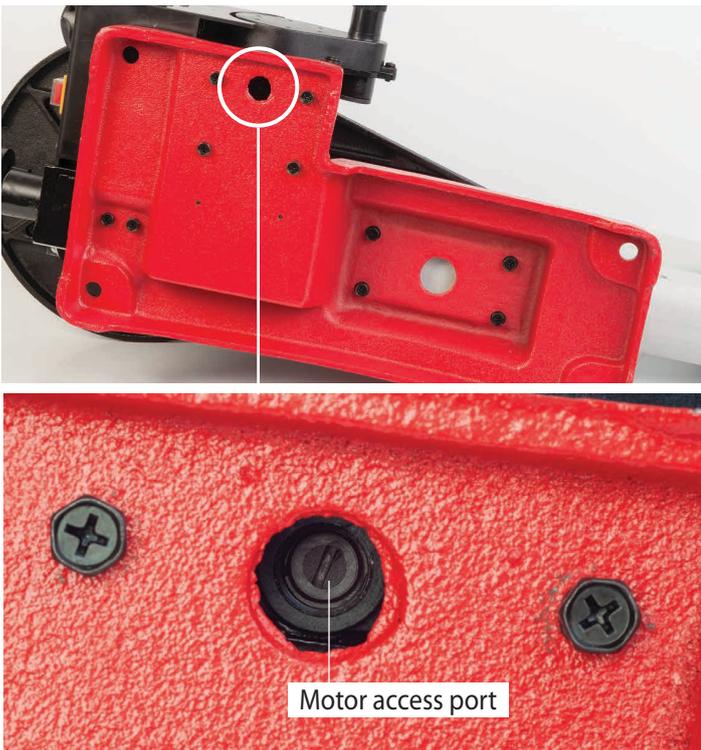
Fig 38



2. Carefully remove the motor brush, see fig 38. Check the brush for signs of wear. If it's O.K. re-fit. If the brush has worn down to a third of its length replace with a new one.

3. Turn the scroll saw on its side allowing access to the other brush access port, see fig 39-40.

Fig 39-40



General Maintenance

The motor is permanently lubricated. Do not try to oil the motor bearings or service any internal parts of the motor. If the power cord is worn, frayed, cut or damaged, contact Axminster Tools & Machinery. Do not try to patch it up with electrical tape, this could lead to more trouble.



WARNING! WEAR A DUST MASK AND EYE PROTECTION.

Cleaning

1. Remove the scroll saw's side access panel and table insert plate. Using an 'M' class Vacuum Cleaner, clean the accumulated dust from inside the lower housing that included the motor assembly, rocker arm, lower and upper blade holders, table and the table insert void, see fig 41-42.

Fig 41-42



2. If you have finished using the scroll saw, clean above and below the work table and wipe the scroll saw over, see fig 41-42.

3. If the scroll saw is not going to be used for a period of time, use 'Ambersil Dry PTFE Film Antistick', spray, code 952137 over the work table to prevent the table from rusting and place a dust sheet over the scroll saw.



Rocker Arm Bearing Bushes

After a period of use it is recommended to lightly oil the upper and lower rocker arm bearings, see fig 43-44.

Fig 45-46-47



Troubleshooting

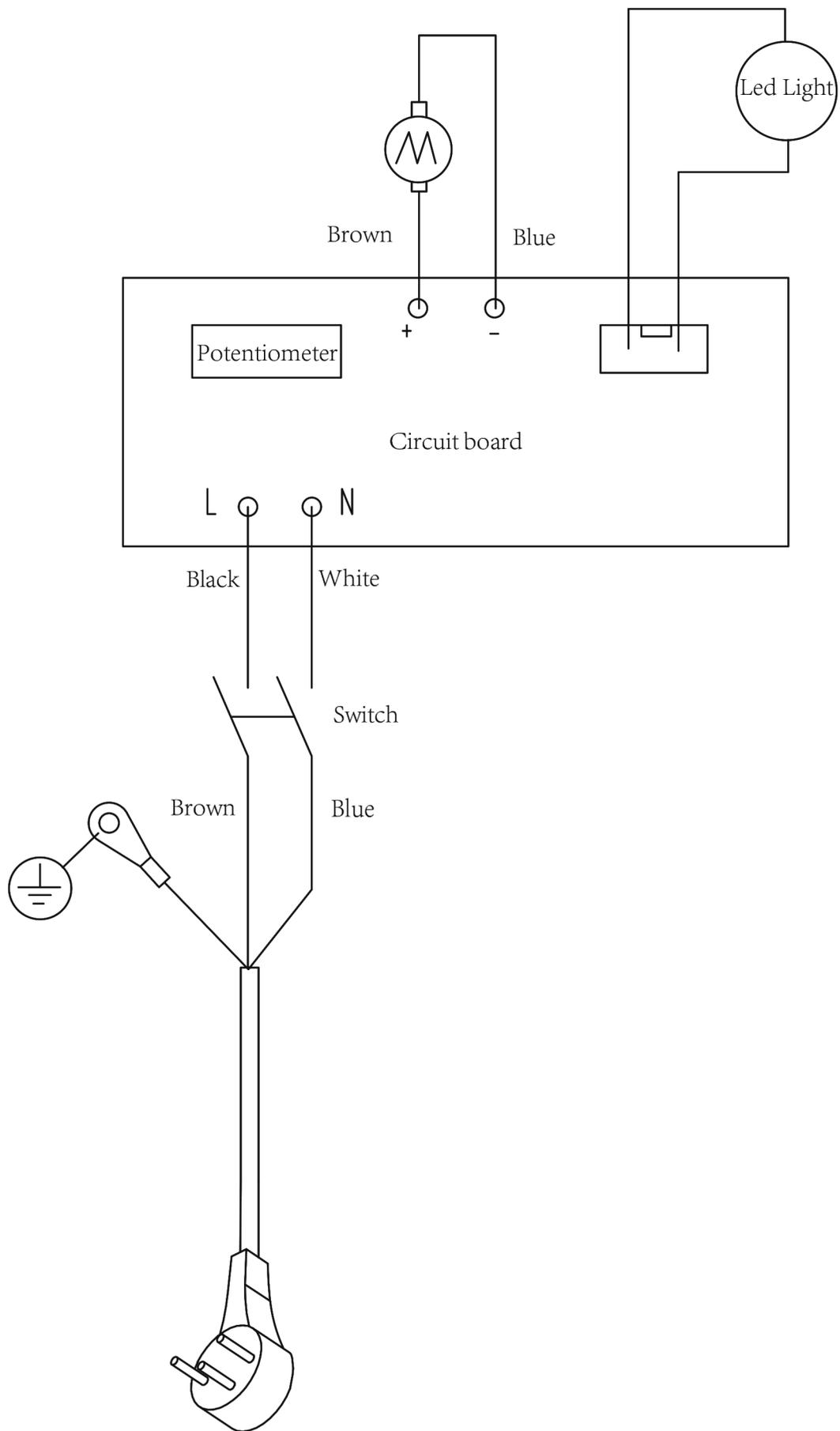
PROBLEM	PROBABLE CAUSES	SUGGESTED REMEDY
Breaking Blades	<ol style="list-style-type: none"> 1. Incorrect tension. 2. Overworked (worn out) blade. 3. Wrong blade being used. 4. Twisting blade in wood. 	<ol style="list-style-type: none"> 1 Adjust blade tension. 2. Reduce feed rate or replace blade. 3. Use narrow blades for thin wood, wider blades for thicker wood. 4. Avoid side pressure on blade.
Motor will Not Run	<ol style="list-style-type: none"> 1. Defective cord, plug or outlet 2. Defective motor. 	<ol style="list-style-type: none"> 1. Unplug saw, replace defective parts. 2. Repairs MUST be made by a qualified technician. Call Axminster Tool Centre. (Technical Sales Phone: 0800 371822).
Excessive Vibration (Some vibration is inevitable when the saw and motor are running)	<ol style="list-style-type: none"> 1. Improper mounting of saw. 2. Unsuitable mounting surface. 3. Loose table. 4. Motor mount is loose 	<ol style="list-style-type: none"> 1. See proper mounting instructions. 2. Replace plywood workbench surface with solid lumber surface. 3. Tighten table clamping knob. 4. Tighten motor mount screws.

Exploded Diagrams/Lists

NO	Description	Specification	QTY
1	Hex bolt+spring washer assy	M6 x 25	4
2	Cross pan head shaft shoulder screw	M4	2
3	Hex bolt+spring washer assy	M6 x 20	6
4	Cord press plate		10
5	Philips screw	M4 x 6	12
6	Blade 18TPI pinless type		1
7	Base		1
8	Soft pipe		1
9	Oil cap		4
10	Hex nut type I	M5	3
11	Left Stand		1
12	Oil bearing		4
13	Philips screw+spring washer assy	M4 x 10	2
14	Standard spring washer	D4	1
15	Pressure plate		2
16	Philips screw flat washer assembly	M5 x 10	5
17	Extension spring		1
18	Blade tension assembly		1
19	Lower arm assembly		1
20	Upper arm assembly		1
21	Right stand		1
22	Philips screw+spring washer assy	M5 x 50	8
23	Light assembly		1
24	Hex cylindrical head set screw	M5 x 8	4
25	Blade clamp for Pinless blade		2
26	Hex cylindrical head screw	M4 x 10	2
27	External teeth lock washer	D4	2
28	Blade holder		2
29	Blade 15TPI pin type		1
30	Hex cylindrical head screw	M5 x 16	2
31	Standard spring washer	D5	5
32	Big cushion		1
33	Radial ball bearing with dust cover		2
34	Small cushion		1
35	Eccentric connection piece		1
36	Hex Socket screw	M5 x 30	1
37	Connection pressure plate		1
38	Self tapping screw	ST4.2 x 9.5	5
39	Philips screw	M3 x 10	2
40	Bellow holder		1
41	Inner hexagon spanner	S=2.5	1
42	Inner hexagon spanner	S=4	1
43	Bellow		1
44	Blade tension knob		1
45	Pressure rod		1
46	Hex cylindrical head screw	M5 x 10	1
47	Sawdust blower pipe		1
48	Blade fender bracket		1
49	Spring cylindrical pin	3 x 10	
50	Work table pin roll		1
51	Saddle spring washer	D8	1

52	Blade guard		1
53	Side cover		1
54	Work table stand		1
55	Scale		1
56	Big flat washer	D6	1
57	Pointer		1
58	Light wire		1
59	Philips screw+flat washer assy	M4 x 12	1
60	Work table lock knob		1
61	Work table lock screw		1
62	Work Table		1
63	Table insert		1
64	Flexible shaft wrench - type L		1
65	Flexible shaft wrench - type Y		1
66	Strain relief plate		1
67	Cross head screw	M4 x 12	2
68	LED light		1
69	Stand insert		1
70	Guard connecting plate		1
71	Hex nut type I	M4	2
72	Philips screw	M4 x 8	2
73	Hex flat end set screw	M8 x 12	1
74	Eccentric wheel		1
75	Hex flat end set screw	M5 x 6	1
76	Speed adjusting knob		1
77	Electromagnetic switch		1
78	Junction box cover		1
79	Circuit board		1
80	Junction box		1
81	Philips screw	M4 x 10	4
82	Strain relief		1
83	Power cord with plug		1
84	Dust proof cover		1
85	DC motor		1
86	Shaft		1
87	Bearing	18	2
88	Washer	D22	1
89	Split washer	D6	6
90	Small belt wheel		1
91	Key 3x8	3x8	2
92	Coupler		1
93	Philips screw+flat washer assy	M5 x 12	3
94	Safe cover		1
95	Speed increaser cover		1
96	Cog belt		1
97	Big belt wheel		1
98	Hex screw+spring washer+big flat washer assy	M5 x 10	1
99	Flexible shaft		1
100	Speed adjusting washer		1
101	Safe plate		1
102	64 Piece kits box	64P	1

Wiring Diagram



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Please dispose of it in a responsible manner.



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