



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility please use it or alternatively use your local amenity tip and dispose in the correct manner. This will allow the recycling of raw materials and help protect the environment.

10" Compound Sliding Mitre Saw



**FOR HELP OR ADVISE ON THIS PRODUCT PLEASE CALL OUR
CUSTOMER SERVICE HELP LINE : 01509 500359**

REF: 051101

**Please read and fully understand the instructions in
this manual before operation. Keep this manual safe
for future reference.**

DECLARATION OF CONFORMITY

WE

SIP LTD

GELDERS HALL ROAD
SHEPSHED
LOUGHBOROUGH
LEICESTERSHIRE
LE12 9NH

Declare that the

Sliding Compound Mitre Saw SIP Pt No: 01314 / 01324

Complies with the following EEC Directives their supporting Statutory
Instruments and the relevant standard where applicable:

98/37/EC	Machinery Directive
93/68/EEC	Low Voltage Directive
	EN 61029-2-9
	EN 61029-1
	EN 60825-1:1994
89/336/EEC	EMC Directive
	EN 55014-1:2000
	EN 55014-2:1997
	EN 61000-3-2 /-3-11:2000

Signed:



Mr Marco Ippaso
Joint Managing Director
Date: 28th April 2003



NOTES

CONTENTS

PAGE 3	CONTENTS
PAGE 4	GENERAL SAFETY INSTRUCTIONS
PAGE 5	SPECIFIC SAFETY INSTRUCTIONS
PAGE 7	TECHNICAL SPECIFICATIONS
PAGE 7	ACCESSORIES
PAGE 8	GETTING TO KNOW YOUR SAW
PAGE 9	SAFETY SYMBOLS
PAGE 9	ELECTRICAL CONNECTION
PAGE 10	WARRANTY
PAGE 10	INSTALLATION / ASSEMBLY
PAGE 13	ADJUSTMENTS
PAGE 15	OPERATING INSTRUCTIONS
PAGE 19	MAINTENANCE
PAGE 21	EXPLODED DIAGRAM
PAGE 22	PARTS LIST
PAGE 27	DECLARATION OF CONFORMITY

GENERAL SAFETY INSTRUCTIONS

1. KNOW YOUR POWER TOOL. Read the owner's manual carefully. Learn the tool's applications and limitations, as well as the specific potential hazards particular to it.

2. KEEP GUARDS IN PLACE and working order.

3. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

4. KEEP WORK AREA CLEAN, Cluttered areas and benches invite accidents.

5. DON' T USE IN DANGEROUS ENVIRONMENT, Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted. Don't use tool in presence of flammable liquids or gases.

6. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.

7. MAKE WORKSHOP CHILD PROOF with padlocks, master switches or by removing starter keys.

8. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.

9. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed; for example, don't use circular saw for cutting tree limbs or logs.

10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or - other jewellery which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty, everyday eyeglasses only have impact resistant lenses, they are **NOT** safety glasses.

12. SECURE WORK. Use clamps or a vice to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.

13. DON'T OVERREACH. Keep proper footing and balance at all times.

14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. DISCONNECT TOOL FROM POWER SUPPLY before servicing; when changing accessories such as blades, bits, cutters, and the like.

16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before connecting to power source.

PARTS LIST....cont

Part No.	Description.	Part No.	Description.
113.	baffle chip	141.	Transparent Guard
114.	Rear holder	142.	Clamping ring
115.	Seal	143.	Screw for guard
116.	Ball bearing	144.	Limiting screw
117.	Bar holder	145.	Wing nut
118.	Hexagon nut M8	146.	Cross pan head screw M5x14
119.	Locking nut M8x16	147.	locating base
120.	Side pull rod	148.	plastic plate
121.	Main pull rod	149.	seal plate
122.	Knob	150.	seal ring
123.	O ring	151.	spring
124.	Limiting screw	152.	self-lock holder
125.	Latch	153.	screw
126.	Front base	154.	extended foot
127.	Pole		
128.	Connecting plate		
129.	Screw for connecting plate		
130.	Locking screw M5x10		
131.	Cross pan head screw M3x8		
132.	Battery Box		
133.	Spring A		
134.	Copper chip		
135.	Swith HS-G5		
136.	Battery		
137.	Spring B		
138.	Battery Box Cover		
139.	Lining plate for guard		
140.	Spring ring		

PARTS LIST...cont

Part No.	Description	Part No.	Description.
57.	Laser holder	85.	Capacitor 0.33Uf
58.	Pan tapping screw	86.	Right handle
59.	Laser	87.	Switch HY15
60.	Bearing 6002	88.	Square shaped inductor
61.	Bearing clamping plate	89.	Connecting Pillar
62.	Armature	90.	Cable clamping plate
63.	Bearing 6000	91.	Cable Sleeve
64.	Bearing Sleeve	92.	Cable plug
65.	Holding screw	93.	Supporter
66.	Hexagon screw M4x10	94.	Hexagon screw M8x25
67.	Push pin	95.	Hexagon Nut M6
68.	Wind guard ring	96.	Hexagon screw M6x35
69.	Pan tapping screw ST5x72	97.	Elastic round Latch
70.	Spring washer 5	98.	Connecting shaft
71.	Flat washer 5	99.	Indicator
72.	Stator	100.	Cover plate
73.	Housing	101.	Seal
74.	Label	102.	Scale label
75.	Soft start box	103.	Spring
76.	Cross pan head screw M5x27	104.	Locking wheel
77.	Pan tapping screw ST4x12	105.	Flat washer 16
78.	Rear cover	106.	Waved shape washer16
79.	Pan tapping screw ST4x16	107.	Locking nut M16
80.	Carbon brush holder	108.	Locking pole
81.	Carbon brush	109.	Locking Knob
82.	Brush cap	110.	Spring
83.	Pan tapping screw ST4x20	111.	Screw
84.	Left handle	112.	Support pin

GENERAL SAFETY INSTRUCTIONS....cont

17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories, the use of improper accessories may cause risk of injury to persons.

18. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

19. CHECK DAMAGED PARTS Before use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function - check for alignment of moving parts binding of moving parts, its operation. A guard or other part that is damaged should be properly repaired or replaced.

20. NEVER LEAVE TOOL RUNNING UNATTENDED. Turn the power off and Don't leave tool until it comes to a complete stop.

SPECIFIC SAFETY INSTRUCTIONS



WARNING: LASER.

Warning! The laser beam can potentially cause severe eye damage. Never look or stare directly into the laser beam.

During use, do not point the laser beam at people, directly or indirectly through reflecting surfaces.

This laser complies with class 2 according to EN 60825-1:1994.

The unit includes no servicing components. Do not open the housing for any reason. If the unit is faulty/damaged, have it repaired/replaced by an authorized repair agent.

Battery:

When replacing batteries. Always replace both batteries; Do not mix old batteries with new ones.

Prevent all batteries from short circuiting.

Do not store batteries where the temperature may rise above 50°C.

Dispose of batteries in the correct manner; never burn the batteries.

Never attempt to open batteries.

In case of battery leakage, carefully remove the liquid using a cloth. Avoid skin or eye contact. Do not swallow. In case of skin or eye contact, rinse with clean water and seek medical advice.

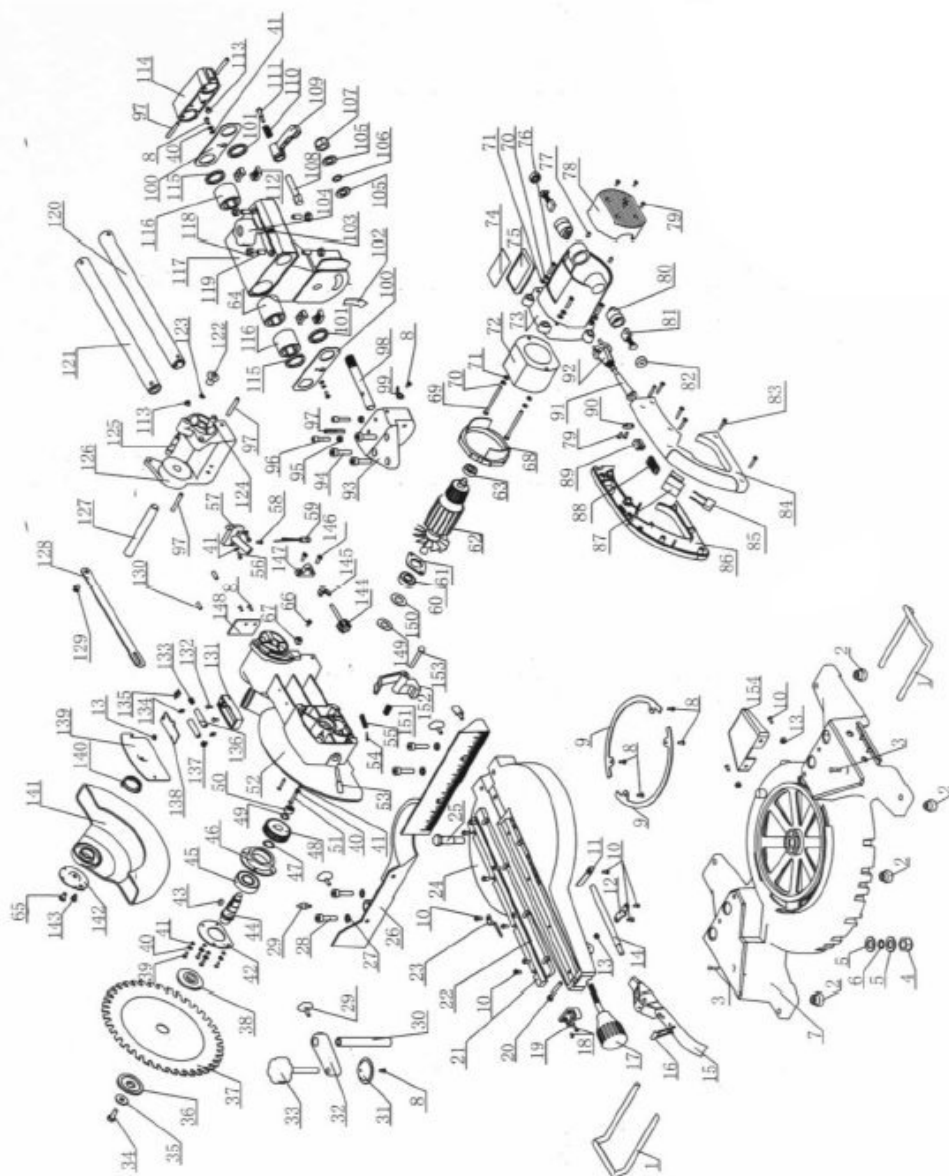
SPECIFIC SAFETY INSTRUCTIONS....cont

1. Use only the blade flange specified for this tool.
2. Be careful not to damage the arbor, flange (especially the installing surface) or bolt. Damage to these parts could result in blade breakage.
3. Make sure that the table base is properly secured so it will not move during operation.
4. For your safety; remove the chippings and work debris etc. from the table top and from inside the extraction port before each operation.
5. Avoid cutting nails; Remove all nails from the work-piece before cutting.
6. Make sure the shaft lock is released before switching on the saw.
7. Be sure that the blade does not come into contact with the base when the blade is in the lowest position.
8. Hold the handle firmly.
9. Do not perform any operation freehand. The work-piece must be secured firmly against the base and guide fence with the vice during all operations; Using your hand may cause severe injury.
10. Keep hands out of path of saw blade, never reach around saw blade.
11. Make sure the blade is clear of the work-piece before the switch is turned on.
12. Before making the first cut using the saw, let it run for a while; Watch for vibration or wobbling that could indicate poor installation or a poorly balanced blade. Adjust or replace as necessary.
13. Allow the blade to run up to full speed before cutting.
14. Stop operation immediately if you notice anything abnormal.
15. Do not attempt to lock the trigger in the on position.
16. Wait for saw blade to stop completely and remove from mains supply before servicing or adjusting tool.
17. Be alert at all times, especially during repetitive, monotonous operations. Don't be lulled into a false sense of security. Blades are extremely unforgiving.
18. Use of improper accessories such as abrasive wheels may cause damage to the saw and surrounding area as well as increasing the risk of injury.
19. Turn off the saw and wait for it to complete stop before moving work-piece or changing settings.
20. To reduce the risk of injury, return, carriage to the full rear position after each crosscut operation.
21. Do not modify the saw to do tasks other than those intended.

PARTS LIST

Part No.	Description.	Part No.	Description.
1.	Extension support	29.	Locking Knob
2.	Rubber feet	30.	Clamping pole
3.	Screw M5x20	31.	Clamping ring
4.	Self-Locking nut M12	32.	Clamping plate
5.	Flat washer M12	33.	Clamping knob
6.	Waved shape washer	34.	Hexagon screw M8x20(left)
7.	Base	35.	washer
8.	Cross pan head screw M4x10	36.	Upper clamping plate
9.	Slippery washer	37.	saw blade
10.	Screw M5x10	38.	Bottom clamping plate
11.	Clamping spring	39.	Cross pan head screw M4x16
12.	Clamping plate	40.	Spring washer 4
13.	Locking nut M6	41.	Flat washer 4
14.	Locking Pillar	42.	Clamping plate
15.	Location handle	43.	Flat washer
16.	Stop for lock handle	44.	Transmission shaft
17.	Lock handle	45.	Bearing
18.	Screw M5x10	46.	Bearing housing
19.	Lock handle supporter	47.	Elastic Collar D20
20.	Screw for lock handle	48.	Gear
21.	Lining plate left	49.	Elastic Collar D17
22.	Lining plate right	50.	Needle bearing HK1210
23.	Scale pointer	51.	Cross pan head screw M4x55
24.	Round base	52.	Frame
25.	Screw for round base	53.	Locking shaft
26.	Location ruler	54.	Latch D3x16
27.	Flat washer 8	55.	Spring
28.	Hexagon screw M8x35	56.	Cross pan head screw M4x12

EXPLODED DIAGRAM



TECHNICAL SPECIFICATIONS

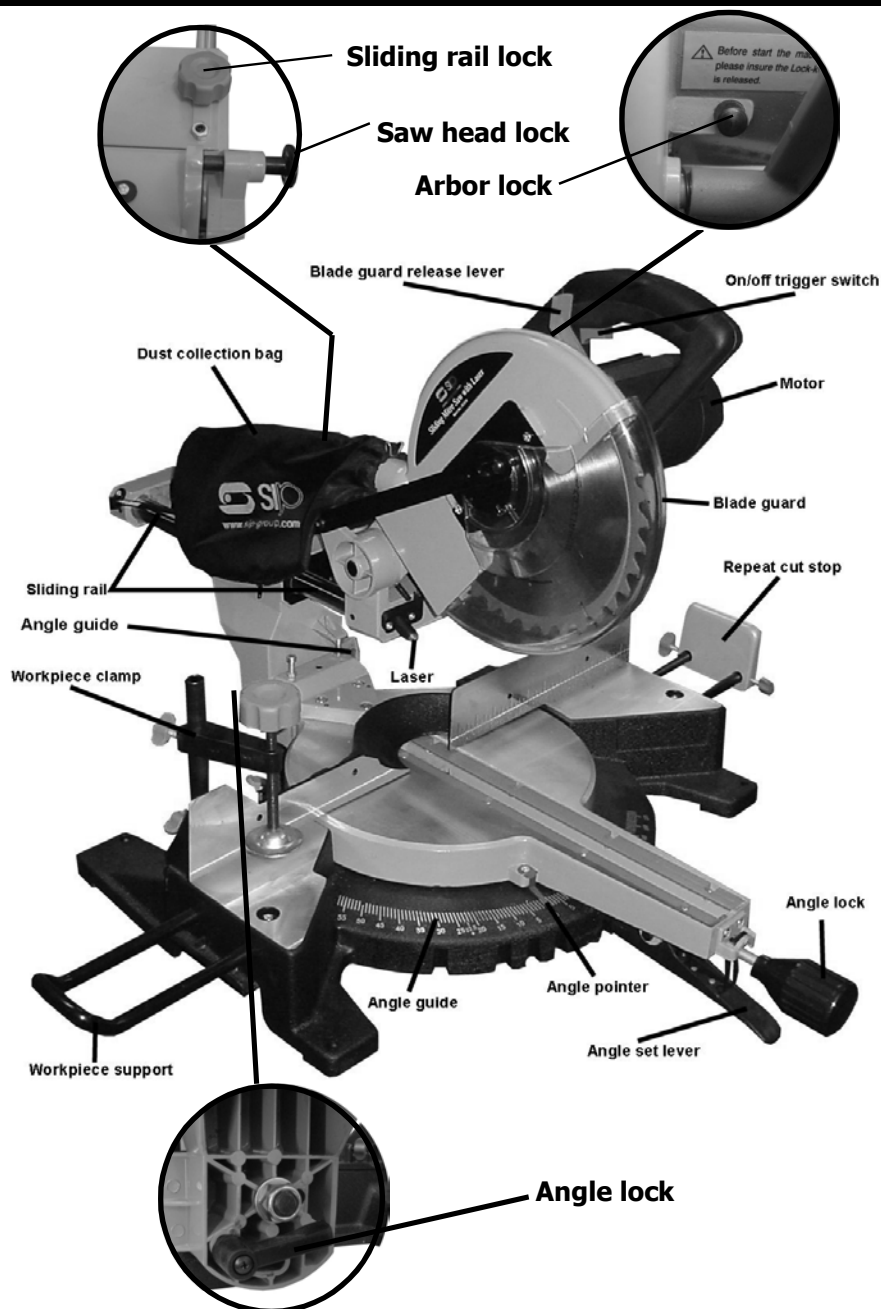
Part number	01314	01324
Input voltage	230v / 50hz	110v / 50hz
Power	2000 watts	1600 watts
Maximum speed (no load)	4200rpm	4200rpm
Blade size	255mm x 16mm	255mm x 16mm
Mitre range	- 55° to +55°	- 55° to +55°
Cross cut capacity (mm) @ 90° x 90°	90(h) x 300(d)	90(h) x 300(d)
Mitre cut capacity (mm) @ 90° x 45°	90(h) x 200(d)	90(h) x 200(d)
Bevel cut capacity (mm) @ 45° x 90°	55(h) x 300(d)	55(h) x 300(d)
Compound mitre cut capacity (mm) @ 45° x 45°	55(h) x 200(d)	55(h) x 200(d)

ACCESSORIES

Blade guard
 Work piece support x 2
 Work piece clamp
 Repeat cut stop
 Dust collection bag
 User manual
 Batteries (for laser) x 2
 Spare motor brushes x 2 (1 set)
 Box spanner

IF ANY OF THE ABOVE ITEMS ARE MISSING; CONTACT YOUR DISTRIBUTOR IMMEDIATELY.

GETTING TO KNOW YOUR SAW



MAINTENANCE....cont



NOTE: ALWAYS ENSURE THAT THE SAW IS TURNED OFF AND THE PLUG IS REMOVED FROM THE MAINS SUPPLY BEFORE ANY REPAIRS OR MAINTENANCE ARE CARRIED OUT.

Removing the carbon brushes:

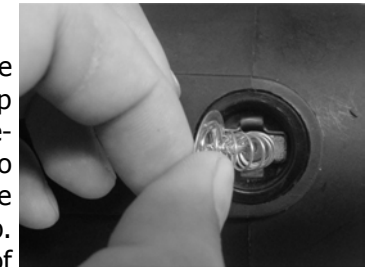


Take a flat blade screwdriver (not supplied) and locate it in the slot on the motor brush cap.

Turn anti-clockwise until the cap can be removed, take care when removing the cap as there is a spring under compression holding the brush in place.

Remove the brush and check the length; If the brush needs changing fit the new brush and tighten the cap to retain it.

If the brush is not worn but is sticking inside the holder there may be a carbon build up that needs removing. The best way to remove the carbon is by blowing dry air into the holder but a small stiff brush or pipe cleaner could be used to do the same job. The brush will also need cleaning as some of the build up may be stuck to it.



Caution: When removing or cleaning the brushes eye protection and a dust mask should be worn; particularly if using dry air.

Clean or change the brushes in a well ventilated area and ensure everyone in that area also wear the appropriate protection.

MAINTENANCE



NOTE: ALWAYS ENSURE THAT THE SAW IS TURNED OFF AND THE PLUG IS REMOVED FROM THE MAINS SUPPLY BEFORE ANY REPAIRS OR MAINTENANCE ARE CARRIED OUT.

Cleaning and maintenance of this saw is mainly common sense some points for guidance are as follows:

After each use brush off any wood chippings with a soft brush. Pay special attention to the inside of the dust extraction port (where the dust bag fits to the saw) as this is where there will be a large build up if left for extended periods.

The motor of the saw should be cleared of any wood chippings as there would be a risk of fire if they are allowed to build up over time (a soft brush or dry air could be used to clear the motor).

Empty the bag after each use; there is a zip on the bag to allow for easy disposal of wood chippings.

Ensure the blade guard is kept clean with a damp cloth (do not clean the guard or any part of the saw with a corrosive solvent) to reduce the risk of injury.

Periodically oil all the moving parts on the saw to extend the life of the saw.

Inspect the carbon brushes (in the motor) at frequent intervals (depending on the amount of use) and change them if the wear reaches the worn limit line or is below 10mm, they should also be checked to ensure that the brushes move in and out easily.

See over (page 18) for instructions on removing the carbon brushes.



Caution: As when using the saw cleaning can cause dust and debris to be thrown into the air. Always wear eye protection and a dust mask to prevent any injury.

SAFETY SYMBOLS



When using the saw always ensure the operator as well as those in the area wear ear protection.



When using the saw always ensure the operator as well as those in the area wear eye protection.

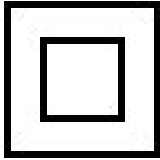


Some wood and wood composites have the potential to be highly toxic; always wear a face mask when operating saw.



This saw is fitted with a laser, never shine directly at the operator or any bystanders.

ELECTRICAL CONNECTION



This mitre saw is double insulated. This means you are separated from the tool's electrical system by two complete sets of electrical insulation. This extra layer of insulation is intended to protect the user from electrical shock due to a break in the wiring insulation. All exposed metal parts are isolated from the internal metal motor components with protecting insulation. Double insulated tools do not need to be grounded (earthed). Servicing of a tool with double insulation requires extreme care and knowledge of the system and should be performed only by a suitably qualified person.

This tool is fitted with a standard 230v ~ plug. Before using the tool inspect the cable and plug to ensure that neither are damaged. If any damage is visible have the tool inspected / repaired by a suitably qualified person. If it is necessary to replace the plug a heavy duty impact resistant plug would be preferable.

The wires in the plug are coloured in the following way:

Blue	Neutral
Brown	Live

As the colours of the wires may not correspond with the markings in your plug, proceed as follows: The wire which is coloured blue, must be connected to the terminal marked with N or coloured black. The wire which is coloured brown, must be connected to the terminal, which is marked L or coloured red.

Always secure the wires in the plug terminal carefully and tightly. Secure the cable in the cord grip carefully.

WARNING:

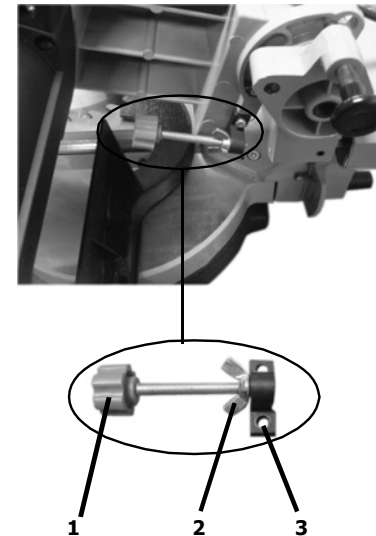
Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved BS1363/A plug and correct rated fuse, if in doubt consult a qualified electrician.

NOTE:

Always make sure the mains supply is of the correct voltage and the correct fuse protection is used. In the event of replacing the fuse always use a 13A fuse.

OPERATING INSTRUCTIONS....cont

Depth cut stop:



How to use:

1. Loosen the wing-nut (2).
2. Adjust knob (1) to the required depth.
3. Once set to the desired depth; Tighten the wing-nut (1) against the retaining bracket (3) to lock the depth stop and ensure there is no movement due to vibration etc.

Function:

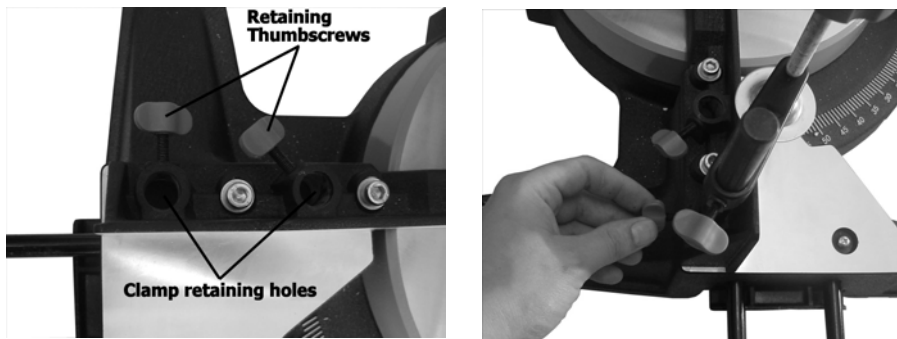
Once the depth stop is set; the blade will not cut all the way through the work-piece (depending on the depth that it is set to). This will allow the operator to easily cut slots out of the work-piece if used in conjunction with the sliding function of the saw, it is advisable to check the cut depth on a scrap piece of wood.

Make a cut as explained in the main instruction manual then raise the main saw head above the work-piece. Move the work-piece (left or right) slightly and make another cut until the desired amount of wood is removed and the slot is complete.

Note: It may be necessary to clean the slot with a sharp chisel or by sanding.

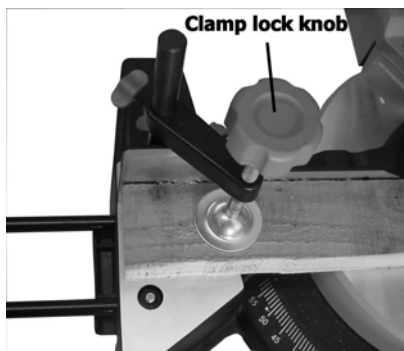
OPERATING INSTRUCTIONS....cont

Fitting the work-piece clamp:



To fit the clamp; locate the clamp into one of the retaining holes (there are 2 on each side of the saw, it depends what sort of cut is required as to which one is used).

1. Tighten the retaining thumbscrew on the saw.
2. Put the work-piece onto the saw bed.
3. Lower the clamp towards the wood and tighten the thumbscrew that is on the clamp.
4. Turn the clamp lock knob on the clamp until it is tight and has secured the work-piece.



Note: A small piece of scrap wood can be used between the clamp and the work-piece to spread the load, this will reduce the risk of marking the wood (particularly softer woods) with the clamp.

WARRANTY

Guarantee:

This saw is covered by a 24 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the machine outside the scope of this manual.

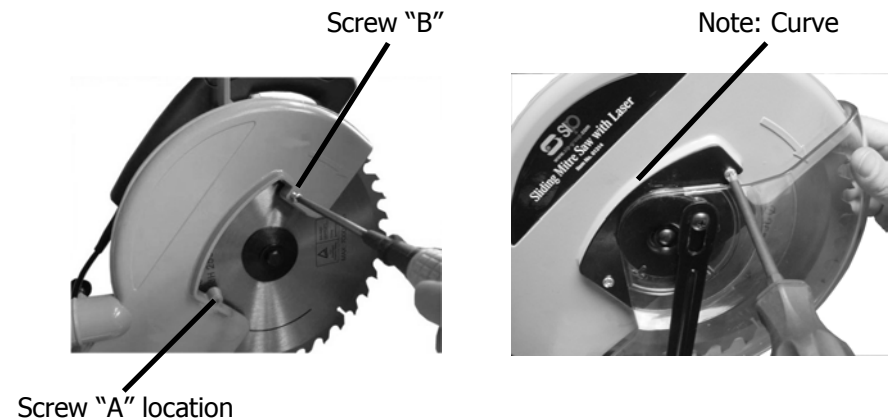
In the unlikely event of warranty claims, contact your distributor or contact our help line on the back page of this manual. Proof of purchase will be required before any warranty can be honoured.

INSTALLATION / ASSEMBLY



Before operating this saw ensure all guards are in place and working correctly

Fitting the blade guard:



Release the head lock (see page 8) and allow the saw head to rise to its highest point. Locate and loosen screw B and take note of where screw A (supplied with the accessories) should be located (see pic) .

Fit the guard around the blade and hook the guard bracket over screw B, **NOTE:** the curve on the bracket should follow the curve on the main saw body.

Fit screw A and tighten (with a standard flat blade screwdriver), then tighten screw B.

Note: Once fitted, screw A should only be removed by a suitably qualified person.

INSTALLATION / ASSEMBLY....cont

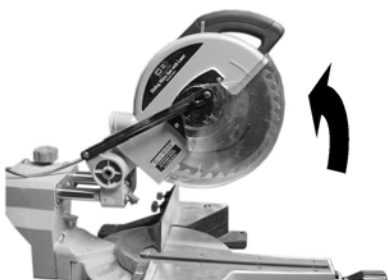


Now pull the connecting bar backwards and use the screw on the saw's pivot point to fix the bar to the saw (see pic) **NOTE:** the saw head may need to be lifted up and down slightly in order to locate the screw correctly.

Changing the blade:

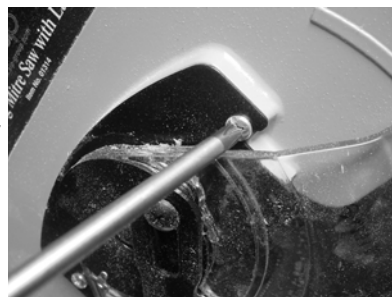


NOTE: ALWAYS ENSURE THAT THE SAW IS TURNED OFF AND THE PLUG IS REMOVED FROM THE MAINS SUPPLY BEFORE ANY REPAIRS OR MAINTENANCE ARE CARRIED OUT.



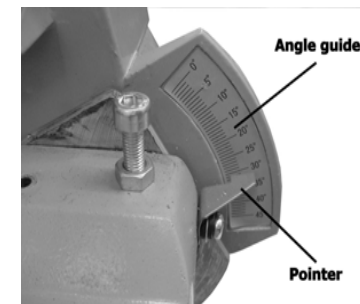
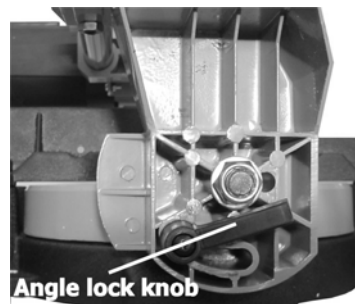
Release the saw head lock, and allow the saw head to raise to its highest point.

Loosen (there is no need to completely remove) screw B



OPERATING INSTRUCTIONS....cont

Making a bevel cut:



A bevel cut of up to 45° (to the left) can be achieved by using the following method.

1. Loosen the angle lock knob (turn anticlockwise) which is situated at the back of the saw.
2. Pull the saw head to the left.
3. Use the angle guide and pointer to set the desired angle.
4. Tighten the angle lock knob (turn clockwise).

Fitting the work-piece support:



1. Loosen the support retaining screw.
2. Locate the work-piece support into the retaining holes.
3. Tighten the retaining screw.

Note: The support can be fitted to either or both sides of the saw depending on which type of cut and work-piece is being used.

OPERATING INSTRUCTIONS

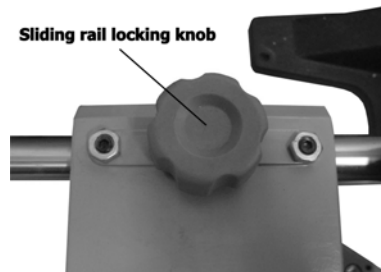


NOTE: Always ensure that the blade is not touching the work-piece before the trigger is pressed.

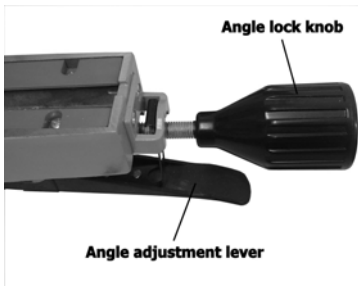
Making a sliding cut:

A work-piece up to 300mm depth x 90mm high can be cut using the sliding cut function.

1. Loosen the sliding rail locking knob.
2. pull the saw handle towards you and hold the blade above the work-piece.
3. Start the saw and allow it to reach its full speed; slowly push the saw downwards and away from you to make the cut.



Making a mitre cut:



A mitred angle of 55° left or right can be obtained using the following method.

1. Loosen the angle lock knob.
 2. Pull up the angle adjustment lever.
 3. Turn the table until the desired angle is indicated by the angle pointer (see page 8).
 4. Tighten the angle lock knob to hold the desired angle.
- Start the saw and allow it to reach its full speed before commencing cut.



Always allow the saw to do the cutting; never force the saw as this could result in damage to the saw and / or injury to the operator or those in the area.

INSTALLATION / ASSEMBLY....cont



Press the blade guard release lever, and pull the blade guard above the saw head.

Press the arbor lock and turn the blade by hand until the arbor lock locates and the blade cannot be turned.



With the arbor lock still pressed (and the blade locked), use the spanner supplied to loosen (turn clockwise) and remove the blade retaining bolt and the outer blade flange. The blade can now be removed.

Follow these instructions in reverse to re-fit the new blade.

NOTE: Ensure all screws / bolts are completely tight and that the blade guard works correctly before re using the saw.

All screws / bolts should be checked and tightened prior to every use of the saw, failure to do so could result in the guard contacting the blade.

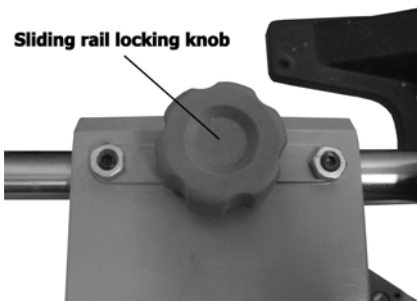
ADJUSTMENTS



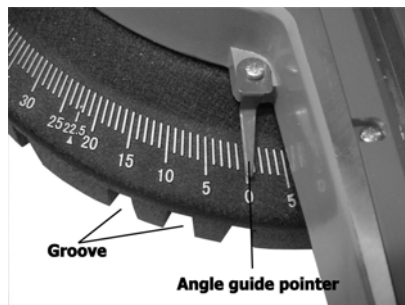
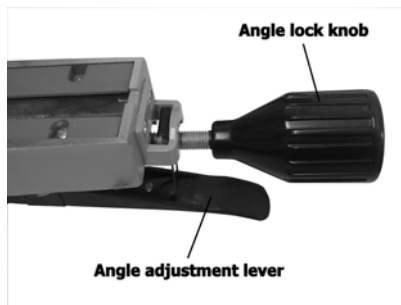
NOTE: ALWAYS ENSURE THAT THE SAW IS TURNED OFF AND THE PLUG IS REMOVED FROM THE MAINS SUPPLY BEFORE ANY REPAIRS OR MAINTENANCE ARE CARRIED OUT.

Adjustment of the cutting angles: This saw is set up at the factory and should need no adjustment; however time and careless use can effect the angles and some adjustment may be required.

Mitre angle:

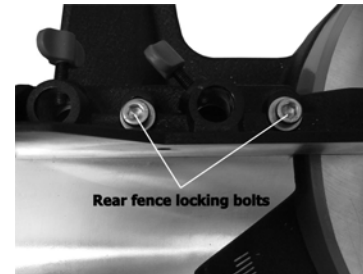


Loosen the sliding rail locking knob; push the saw handle back as far as it will go and lock the handle again



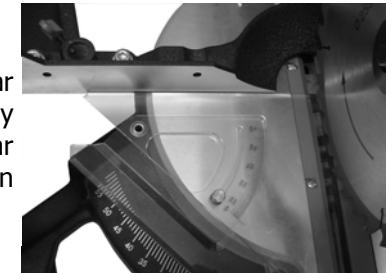
Now loosen the angle lock knob; pull up the angle adjustment lever and turn the main table until the angle guide pointer is close to 0° (ensure the table is locked in the groove) and tighten the lock knob. If the pointer is not set to 0° loosen the screw and turn the pointer until it is.

ADJUSTMENTS.....cont

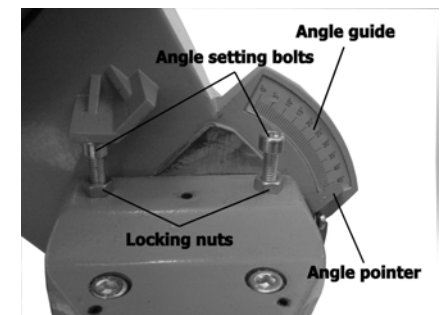


Loosen the 4 (2 on each side of the saw) rear fence locking bolts and lower the blade to its lowest point; lock the saw head down with the saw head lock knob (see page 8).

Place a square against the blade and rear fence and adjust until an angle of exactly 90° is achieved. Proceed to tighten the rear fence locking bolts whilst ensuring that an angle of 90° is maintained.



Bevel angle:



With the blade at its lowest point place a square against the blade and the base. If the blade is not at 90°. Loosen the lock nut on the right hand angle setting bolt and proceed to move the bolt up/down until an angle of 90° is achieved; tighten the lock nut ensuring an angle of 90° is maintained. The angle pointer should now be pointing at 0; if it is not loosen the screw and turn the pointer until it points at 0. Pull the handle to the left (45°) and make sure the pointer is indicating an angle of 45°, if not follow the previous instructions but with the left hand bolt until the pointer is set to 45°.