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SIP 12” Compound Sliding Mitre Saw with Laser

SIP Code 01505

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CONTENTS

SAFETY INSTRUCTIONS

Danger / Caution: This image indicates risk of personal injury and/or the possibility of damage.

Warning: This image indicates risk of electrical injury or damage!

Note: This image indicates supplementary information.

Important: Please read the following instructions carefully, failure to do so could lead to serious personal injury and / or damage to the item.

When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.
Read all these instructions before operating the tool and save this user manual for future reference.
SIP recommends that this tool should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us and we will be more than happy to advise you.

1. KNOW YOUR SAW: Read and understand the owner's manual and labels affixed to the tool. Learn its applications and limitations, as well as the potential hazards specific to this tool.
2. KEEP WORK AREA CLEAN AND WELL LIT: Cluttered work benches and dark areas invite accidents; Floors must not be slippery due to oil, water or sawdust etc.
3. DO NOT OPERATE THE SAW IN DANGEROUS ENVIRONMENTS: Do not operate the saw in damp or wet locations, or expose it to rain. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.
4. KEEP CHILDREN AND UNTRAINED PERSONNEL AWAY FROM THE WORK AREA: All visitors should be kept at a safe distance from the work area.
5. STORE TOOLS SAFELY WHEN THEY ARE NOT IN USE: All tools should be stored in a dry,locked cupboard wherever possible and out of the reach of children.

6. WEAR THE CORRECT CLOTHING: Do not wear loose clothing, neck-ties, 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. Roll long sleeves up above the elbow.
7. USE SAFETY GOGGLES AND EAR PROTECTION ETC: Wear CE approved safety goggles at all times, Normal spectacles only have impact resistant lenses, they are NOT safety glasses. A face or dust mask should be worn if the operation is dusty and ear protectors (plugs or muffs) should be worn, particularly during extended periods of operation.
8. PROTECT YOURSELF FROM ELECTRIC SHOCK: When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). It is advisable wherever possible to use an RCD (residual current device) at the mains socket.
9. STAY ALERT: Always watch what you are doing and use common sense. Do not operate the saw when you are tired or under the influence of alcohol or drugs.
10. DISCONNECT THE SAW FROM THE MAINS SUPPLY: When not in use, before servicing and when changing accessories such as blades etc.
11. AVOID UNINTENTIONAL STARTING: Make sure the switch is in the OFF position before connecting the tool to the mains supply.
12. NEVER LEAVE THE TOOL RUNNING / CONNECTED WHILST UNATTENDED: Turn the saw off and disconnect it from the mains supply between jobs; Do not leave machine until it comes to a complete stop.
13. DO NOT ABUSE THE MAINS LEAD: Never carry the saw by the mains lead or pull it to remove the plug from the mains socket. Keep the mains lead away from heat, oil and sharp edges. If the mains lead is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid unwanted hazards.
14. CHECK FOR DAMAGED PARTS: Before every use of the saw, a guard or other part that is damaged should be carefully checked to determine that it will operate correctly and per-form its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, and any other conditions that may affect its operation. A guard or other part that is damaged should be correctly repaired or replaced by an authorized service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service agent. Do not use the tool if the switch does not turn it on and off.
15. KEEP ALL GUARDS IN PLACE: And in full working order.
16. MAINTAIN THE SAW WITH CARE: Keep the saw clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grip on the tool clean, dry and free of oil and grease.

17. USE ONLY RECOMMENDED ACCESSORIES: Consult this user manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards and will invalidate any warranty you may have.
18. REMOVE ADJUSTING KEYS AND WRENCHES: Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before every use.
19. SECURE THE WORK-PIECE: Use clamps or a vice to hold the work-piece . This frees up both hands to operate the tool.
20. DO NOT OVERREACH: Keep proper footing and balance at all times.
21. DO NOT FORCE THE SAW: It will do the job better and more safely at the rate which it was designed.
22. DO NOT OPERATE THE SAW IN EXPLOSIVE ATMOSPHERES: Do not use the tool in the presence of flammable liquids, gases, dust or other combustible sources. The motor may create sparks during normal operation which can ignite the dust or fumes.
23. HAVE YOUR SAW REPAIRED BY A QUALIFIED PERSON: The saw is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

This saw contains surfaces which may reach a high temperature during operation. Never operate with any housing, cover or guard removed.

Wear safety goggles when using this saw.

- If the work-piece or blade becomes jammed, turn the mitre saw off. Wait for all moving parts to stop and disconnect the plug from the power source. Then work to free the jammed material. Continued sawing with a jammed work-piece could cause loss of control or damage to the mitre saw.
- Hold the handle firmly when making an incomplete cut or when releasing the switch before the saw head is completely in the down position. The braking action of the saw may cause the saw head to be suddenly pulled downward, causing a risk of injury.
- Let the blade reach full speed before contacting the work-piece. This will reduce the risk of the work-piece being thrown.
- After finishing the cut, release the switch, hold the saw head down and wait for

the blade to stop before removing the cut-off piece. Reaching with your hand near the coasting blade is dangerous. Do not use another person as a substitute for a table extension or as additional support. Unstable support for the work-piece can cause the blade to bind or the work-piece to shift during the cutting operation pulling you and the helper into the spinning blade.

- Always use a clamp or a fixture designed to properly support round material such as rods or tubing. Rods have a tendency to roll while being cut, causing the blade to “bite” and pull the work with your hand into the blade.
- Inspect your work-piece before cutting. If the work-piece is bowed or warped, clamp it with the outside bowed face toward the fence. Always make certain that there is no gap between the work-piece, fence and table along the line of the cut. Bent or warped work-pieces can twist or shift and may cause binding on the spinning saw blade while cutting. There should be no nails or foreign objects in the work-piece.
- The cut-off piece must not be jammed or pressed by any means against the spinning saw blade. If confined, i.e. using length stops, the cut-off piece could get wedged against the blade and thrown violently.
- Cut only one work-piece at a time. Stacked multiple work-pieces cannot be adequately clamped or braced and may bind on the blade or shift during cutting.
- Do not use the saw until the table is clear of all tools, wood scraps, etc., except for the work-piece. Small debris or loose pieces of wood or other objects that contact the revolving blade can be thrown with high speed.
- Provide adequate support such as table extensions, saw horses, etc. for a work-piece that is wider or longer than the table top. Work-pieces longer or wider than the mitre saw table can tip if not securely supported. If the cut-off piece or work-piece tips, it can lift the lower guard or be thrown by the spinning blade.
- Never cross your hand over the intended line of cutting either in front or behind the saw blade. Supporting the work-piece “cross handed” i.e. holding the work-piece to the right of the saw blade with your left hand or vice versa is very dangerous.
- Do not reach behind the fence with either hand closer than 100 mm from either side of the saw blade, to remove wood scraps, or for any other reason while the blade is spinning. The proximity of the spinning saw blade to your hand may not be obvious and you may be seriously injured.
- Ensure the mitre saw is mounted or placed on a level, firm work surface before use. A level and firm work surface reduces the risk of the mitre saw becoming unstable.
- The work-piece must be stationary and clamped or held against both the fence and the table. Do not feed the work-piece into the blade or cut “freehand” in any way. Unrestrained or moving work-pieces could be thrown at high speeds, causing injury.

- Plan your work; Every time you change the bevel or mitre angle setting, make sure the adjustable fence is set correctly to support the work-piece and will not interfere with the blade or the guarding system. Without turning the tool “ON” and with no work-piece on the table, move the saw blade through a complete simulated cut to assure there will be no interference or danger of cutting the fence.
- Mitre saws are intended to cut wood or wood-like products, they cannot be used with abrasive cut-off wheels for cutting ferrous material such as bars, rods, studs, etc. Abrasive dust causes moving parts such as the lower guard to jam. Sparks from abrasive cutting will burn the lower guard and other plastic parts.
- Use clamps to support the work-piece whenever possible. If supporting the work-piece by hand, you must always keep your hand at least 100 mm from either side of the saw blade. Do not use this saw to cut pieces that are too small to be securely clamped or held by hand. If your hand is placed too close to the saw blade, there is an increased risk of injury from blade contact.
- Push the saw through the work-piece. Do not pull the saw through the work-piece. To make a cut, raise the saw head and pull it out over the work-piece without cutting, start the motor, press the saw head down and push the saw through the work-piece. Cutting on the pull stroke is likely to cause the saw blade to climb on top of the work-piece and violently throw the blade assembly towards the operator.
- Use only the blade flange specified for this saw.
- Before each use; Ensure that the blade retaining bolt is fully secure.
- Be careful not to damage the arbour or flange (especially the installing surface); Damage to these parts could result in blade breakage and / or operator injury.
- Ensure that the table base is properly secured so it will not move during operation.
- Make sure that all keys and wrenches are removed before switching on the saw.
- Keep hands out of path of saw blade, never reach around saw blade.
- Be sure that the blade does not come into contact with the table and / or table insert when the blade is in operation.
- Make sure the blade is clear of the work-piece before the switch is turned on.
- Stay alert at all times, especially during repetitive, monotonous operations. Don’t be lulled into a false sense of security - Blades are extremely unforgiving.
- Before making the first cut using the saw, turn the blade by hand to ensure nothing is catching, then turn the saw on and let it run for a while; Watch for vibration or wobbling that could indicate poor installation or a poorly balanced blade. Adjust or re-place as necessary.
- Stop operation immediately if you notice anything abnormal.
- Do not modify the saw to do tasks other than those intended.
- Turn off the saw and wait for it to complete stop before moving work-piece or

changing settings.

- Wait for the saw blade to stop completely and remove from mains supply before servicing or adjusting tool.
- Understand the operating environment; Before each use the operator should assess, understand and where possible reduce the specific risks and dangers associated with the operating environment. Bystanders should also be made aware of any risks associated with the operating environment.
- This laser complies with class 2 according to EN 60825-1:2007.
- 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.
- Do not stare directly at the laser beam, never aim the beam at any person or an object other than the work-piece.
- Do not deliberately aim the beam at personnel and ensure that it is not directed towards the eye of a person.
- Always ensure the laser beam is aimed at a sturdy work-piece without reflective surfaces. Wood or rough coated surfaces are acceptable. Bright shiny reflective surfaces are not suitable for laser use as the reflective surface could direct the beam back at the operator.
- Always remember to switch off the laser on / off switch (2) after finishing a job, only turn the laser beam on when the work-piece is on the mitre saw table.

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.

ELECTRICAL CONNECTIONS

WARNING: Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

This saw is for use with a 230v UK domestic socket and should be grounded/earthed. Make sure that the product is connected to an outlet that has the same configuration as the plug (see Figure 1). If an extension lead is used, make sure the cable size is sufficient as to be able to take the current of the saw.

Check with a qualified electrician if the grounding instructions are not understood or there is doubt as to whether the product is properly grounded. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

Improper installation of the grounding plug will result in a risk of electric shock. If repair or replacement of the cable or plug is necessary, consult a qualified electrician.

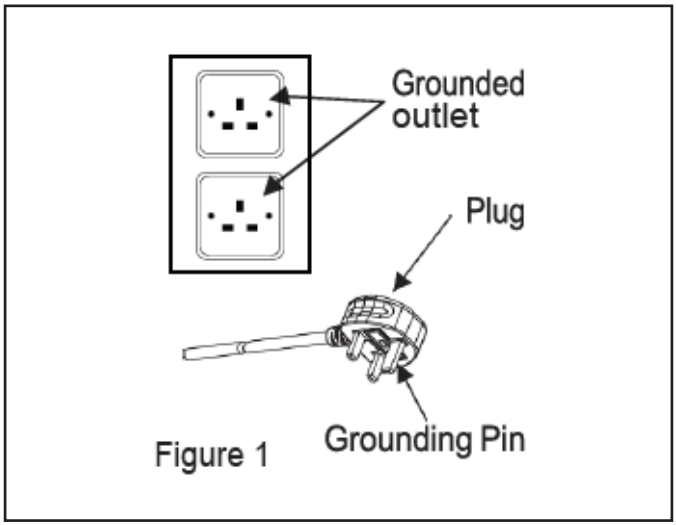


Figure 1

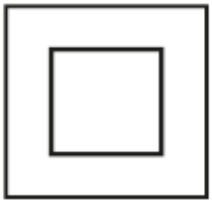
We strongly recommend that this machine is connected to the mains supply through a Residual Current Device (RCD).

If you are not sure, consult a qualified electrician. DO NOT try to do any repairs.

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 replace the fuse with the same value as the original.

WARNING: Improper use of extension leads may cause inefficient operation of the item which can result in overheating and motor damage.

WARNING: The wires in the power cable of this product are coloured in accordance with the following code:
Blue = neutral / Brown = live / Yellow and Green = earth



This mitre saw is double insulated; This means the operator is 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.

GUARANTEE

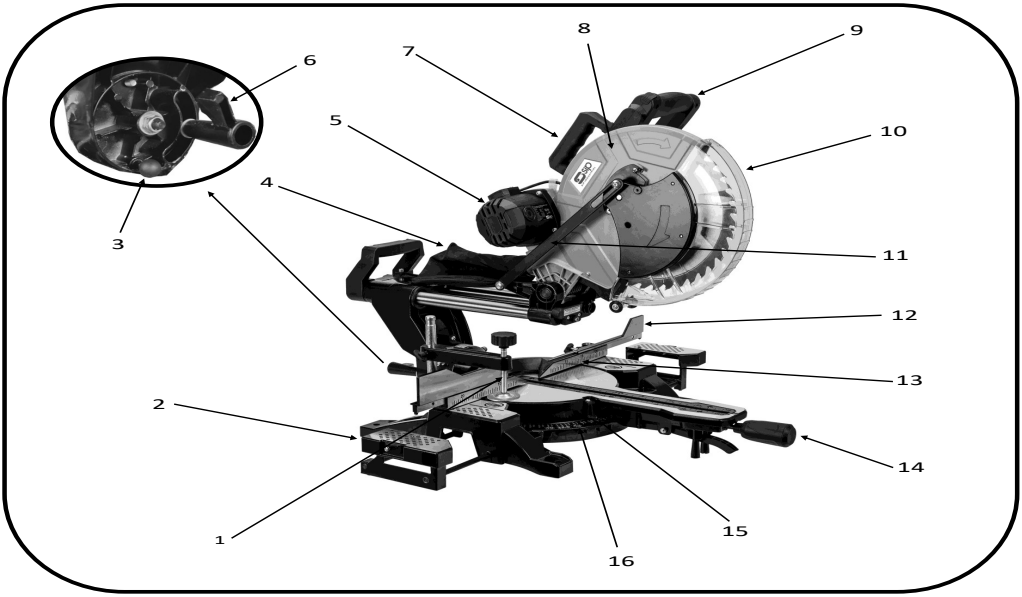
This item is covered by a 24 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the item outside the scope of this manual - any claims deemed to be outside the scope of the warranty may be subject to charges Including, but not limited to parts, labour and carriage costs.

Consumable items such as fuses, blades etc are not covered by the warranty.

NOTE: Proof of purchase will be required before any warranty can be honoured.

TECHNICAL SPECIFICATION

Model No.	01505
Input Voltage	220-240V / 50Hz
Power	1800 W
Speed	3800 rpm
Blade ø	305 mm
Blade Bore	30 mm
Blade Teeth	40 TCT
Minimum Blade Thickness	1.8 mm
Maximum Blade Thickness	2.8 mm
Mitre Table Angles	-45° / 0° / +45°
Bevel Angles	Up to 45° (Left & Right)
Straight Cut at 0°x 0°	330 mm x 105 mm
Mitre Cut at 45°x 0°	230 mm x 105 mm
Left Bevel Cut at 0°x 45°	330 mm x 60 mm
Right Bevel Cut at 0°x 45°	230 mm x 33 mm
Left Compound Mitre Cut at 45°x 45°	230 mm x 60 mm
Right Compound Mitre Cut at 45°x 45°	230 mm x 33 mm
Ingress Protection	IPXO
Protection Class	Class II
Noise	95dB(A)
Weight	20.4 Kg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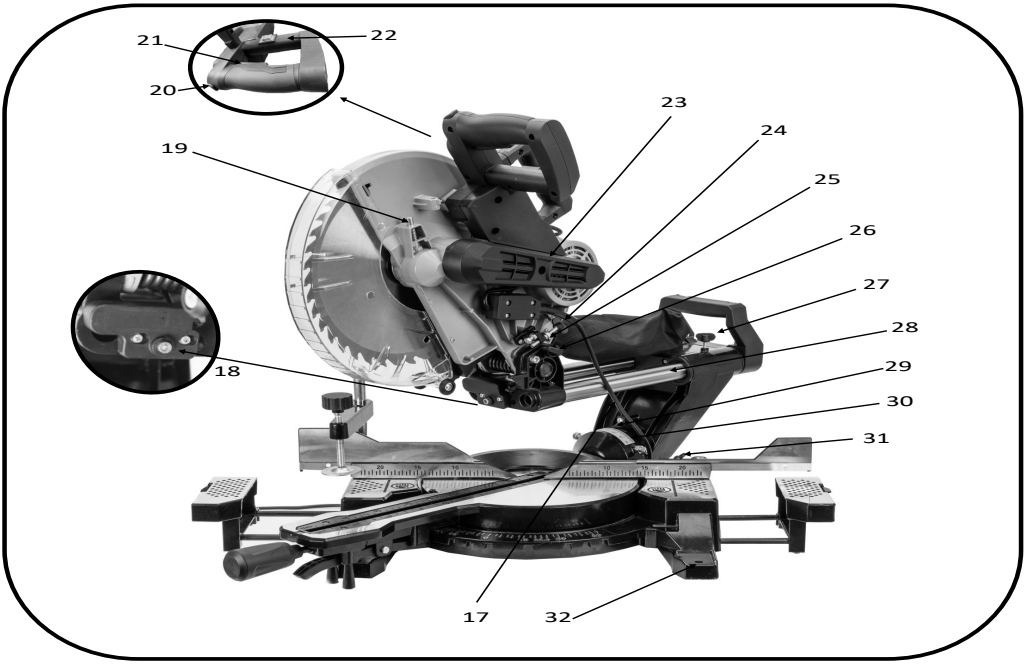
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Item	*Description*	*Item*	*Description*
1	Workpiece Clamp	17	Mains Lead
2	Adjustable Side Support	18	Laser
3	Bevel Lock 0^{o}	19	Spindle Lock
4	Dust Collector Bag	20	Trigger Safety Lock
5	Motor	21	Cutting Trigger
6	Bevel Lock Handle	22	Laser ON/OFF Switch
7	Carry Handle	23	Belt Cover
8	Fixed Guard	24	Depth Stop
9	Operating Handle	25	Depth Stop Adjusting Knob
10	Moving Guard	26	Head Lock
11	Guard Linkage	27	Sliding Rail Lock
12	Fence Extension	28	Sliding Rail
13	Fence	29	Bevel Pointer
14	Mitre Lock	30	Bevel Scale
15	Mitre Pointer	31	Adjustable Fence Lock
16	Mitre Scale	32	Mounting Holes

Contents & Accessories

» Mitre Saw
» Dust Collection Bag
» Work Clamp
» Blade Socket Wrench
» Instruction Manual

NOTE: If any parts are missing, please contact SIP Customer Service.

Danger / Caution: Before starting the machine, check that all covers and safety equipment are correctly fitted.

Assembly Instructions

Collection Bag

» Attach the dust collection bag by clamping it to the outlet. *Fig.1 & 2*
» Secure the machine in a stable position. You can bolt it onto a workbench or use a saw stand in order to ensure it cannot move.

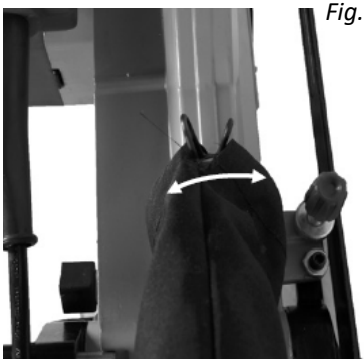


Fig.1


Fig.2

ASSEMBLY INSTRUCTIONS cont..

Work-piece Clamp

» The work-piece clamp can be fitted to either side of the saw blade depending on the work-piece size and the type of cut being performed. *Fig.3*
» Slide the post of the clamp into the clamp retainer and secure by tightening the thumb-screw. *Fig.4*

Fig.3

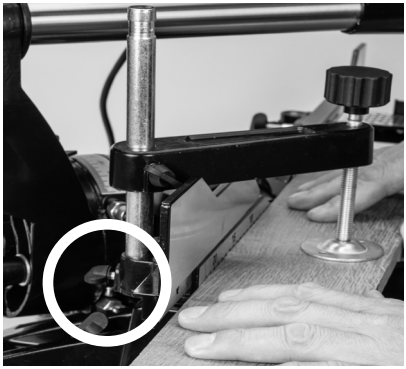


Fig.4

OPERATING INSTRUCTIONS

Overview

This machine is designed for cross cutting wood and plastic in sizes commensurate with the machine size. Use only blades which are suitable for the machine and material.

Danger / Caution: This saw contains surfaces which may reach a high temperature during operation. Never operate with the motor housing removed. Do not touch the compressor whilst it is running.

Danger / Caution: Wear safety glasses and appropriate PPE when opening the saw.

» Do not stare directly at the laser beam, never aim the beam at any person or an object other than the work-piece.
» Do not deliberately aim the beam at personnel and ensure that it is not directed towards the eye of a person.
» Always ensure the laser beam is aimed at a sturdy work-piece without reflective surfaces. Wood or rough coated surfaces are acceptable. Bright shiny reflective surfaces are not suitable for laser use as the reflective surface could direct the beam back at the operator.
» Always remember to switch off the laser on/off switch (page.18) after finishing a job, only turn the laser beam on when the work-piece is on the mitre saw table.

Danger / Caution: Do not stare into the laser beam as this is dangerous and will damage your eyes.

Making a Cross-Cut (Without Slide Action)

Note: When cutting a narrow piece of wood it is not necessary to use the slide mechanism. In these cases ensure that the saw head is pushed back and the slide lock (27) is tight to prevent the saw arm from sliding.

A crosscut is made by cutting across the workpiece, a 90˚crosscut is made with the mitre table set at 0˚. Mitre crosscuts are made with the table set at any other angle.

- Turn the release Lock Handle (26) and turn it through 90˚to lock it “open”
- lift the saw arm to its full height.
- Loosen the mitre lock (14).
- Rotate the mitre table until the pointer aligns with the desired angle.
- Re-tighten the mitre lock (14).

Danger: Be sure to tighten the mitre lock before making a cut. Failure to do so could result in the table moving during the cut and cause serious

- Place the workpiece flat on the table with one edge securely against the fence (13).
- Turn on the laser by pressing the laser On/Off switch (22).
- Use the clamp assembly (1) to secure the workpiece.

Note: It is possible to remove the clamp assembly (1) by loosening the clamp assembly lock and moving it to the other side of the table. Make sure the clamp assembly lock is tight before using the clamp.

Note: When cutting long pieces of timber, support the opposite end of the timber with the side support bars (2), a roller stand or a work surface that is level with the saw table.

- Press the safety button (20) using your thumb and squeeze the trigger switch (21) (Fig.5); allow the blade to reach maximum speed.

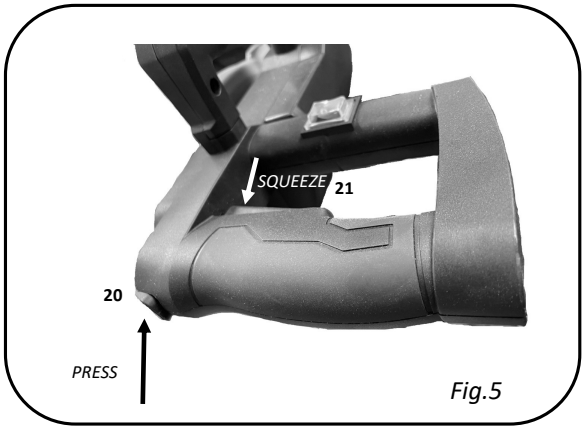


Fig.5

- Slowly lower the blade into and through the workpiece.
- Release the switch trigger (21) and allow the saw blade to stop rotating before raising the blade away from the workpiece.
- Ensure that the blade has stopped and that the saw head is returned to a position so that the guard is covering the blade before removing the workpiece.

Danger / Caution: Be sure to tighten the mitre lock before making a cut. Failure to do so could result in the table moving during the operation and cause a serious issue.

Making a Cross-Cut (With Slide Action)

- Unscrew the slide lock (27).
- Pull on the release handle (26), raise the saw arm to its highest position and slide (pull) it towards you.
- Loosen the mitre lock (14).
- Rotate the mitre table until the pointer aligns with the desired angle.
- Retighten the mitre lock (14).
- Place the workpiece flat on the table with one edge securely against the fence (13).
- Turn on the laser by pressing the laser On/Off switch (28).
- Use the clamp assembly (1) to secure the workpiece.
- Press the safety button (20) using yor thumb and squeeze the trigger switch (21); allow the blade to reach maximum speed.
- Slowly lower the blade onto and through the workpiece whilst sliding (pushing) it away from you at the same time until the workpiece is cut.
- Release the switch trigger (4) and allow the saw blade to stop rotating before raising the blade out of the workpiece.
- Ensure that the blade has stopped and that the saw head is returned to a position so that the guard is covering the blade before removing the workpiece.

Making a Bevel Cut

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

- Loosen the bevel lock handle (6) which is situated at the rear of the saw.
- Pull the positive head lock (3) whilst pushing the saw head to the left or right, depending on the angle required.

- Use the bevel scale (31) and pointer to set the head to the desired angle.
- Tighten the bevel lock handle (6) to secure the head at the desired angle.

Follow the previous instructions to perform the cut depending on the dimensions of the workpiece (see “cross cut with sliding action” or “cross cut without sliding action”).

Making a Mitre Cut

A mitred angle of 45° left or right can be obtained using the following method.

- Loosen the mitre lock (14).
- Turn the table until the desired angle is indicated by the mitre scale (16).
- Tighten the mitre lock (14) to hold the desired angle.

Follow the previous instructions to perform the cut depending on the dimensions of the workpiece (see “cross cut with sliding action” or “cross cut without sliding action”).

Making a Compound Mitre Cut

Note: A compound mitre cut can also be performed by adjusting both angles (bevel and mitre) away from 90°.

A compound mitre cut involves using a mitre angle and a bevel angle at the same time. It is used in making picture frames, to cut mouldings, making boxes with sloping sides and for roof framing. It is a good idea to make a test cut on a piece of scrap wood before cutting into the good material. Use the slide action when cutting wide workpieces.

Using the Depth Stop

Fig.6

- Position the saw head until the depth stop screw makes contact with the stop bracket.
- Loosen the lock-nut.
- Adjust screw to the required depth.
- Once set to the desired depth; Tighten the lock-nut against the retaining brack-et to lock the depth stop and ensure there is no movement due to vibration etc. *RE:Fig.6*

Function:

Once the depth stop is set; the blade will not cut all the way through the workpiece (depending on the depth that it is set to). This will allow the operator to easily cut slots out of the workpiece 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 workpiece. Move the workpiece (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.

MAINTENANCE

Danger / Caution: Always ensure that the saw is turned off and that the plug is disconnected from the mains supply before carrying out any adjustments, repairs or maintenance.

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

CHECKING AND SETTING THE MITRE ANGLE

- Loosen the slide lock (27); push the saw head back as far as it will go and re-tighten the slide lock (27).
- Loosen the mitre lock (14); turn the main table until the positive stop for 0° engages and the angle guide pointer is close to 0°.
- Re-tighten the mitre lock.
- If the pointer is not exactly set to 0° loosen the pointer screw and turn the pointer until it is.
- Loosen the moving fence bolt(on each side) and remove the fences. *Fig.7*
- Loosen the 4 (2 on each side of the saw) rear fence locking bolts (Fig.8) and lower the blade to its lowest point; lock the saw head down with the head lock lever (26).

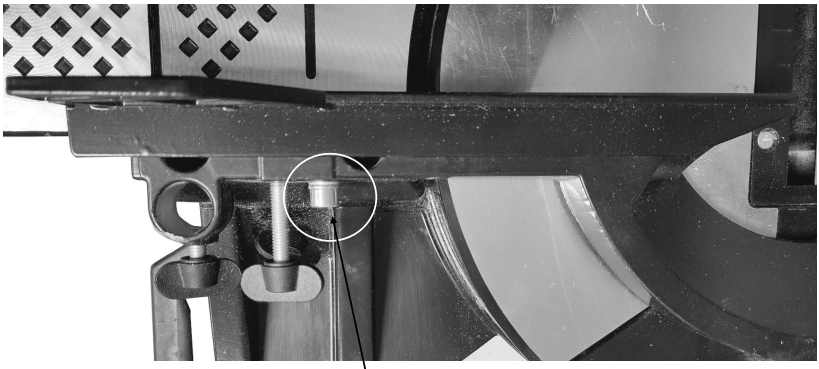


Fig.7

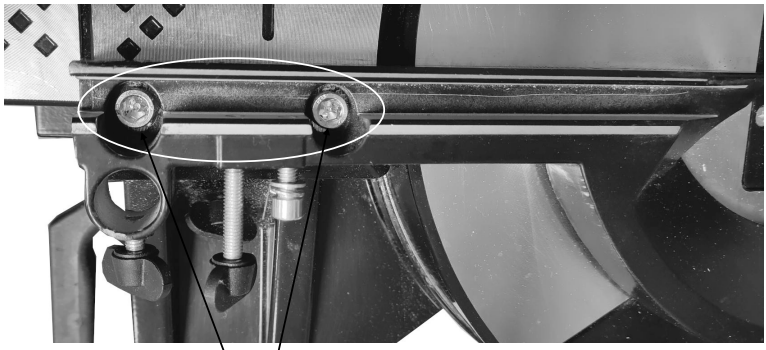


Fig.8

Fence Locking Bolts

- Place a square against the blade and rear fence and adjust the fence 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.
- Re-fit moving fences.

CHECKING AND SETTING THE BEVEL ANGLE

- Loosen the slide lock (27); push the saw head back as far as it will go and re-tighten the slide lock (27).
- Loosen the mitre lock (14); turn the main table until the positive stop for 0° engages and the angle guide pointer is close to 0°.
- Re-tighten the mitre lock.
- Loosen the locking nut on one of the bevel adjustment screws.
- Loosen the bevel lock.
- Pull out the bevel positive stop knob whilst pushing the saw head to 45° either left or right depending on which adjustment screw has been loosened.
- Place a set square with an accurate 45° angle against the main table of the saw and the blade.
- Use a hex wrench to adjust the screw until the blade is at 45°.
- Re-tighten the locking nut ensuring that the angle is kept.
- If required loosen the screw on the angle pointer and adjust so that it reads 45°. Re-tighten the screw.

- If required loosen the screw on the angle pointer and adjust so that it reads 45°. Re-tighten the screw.

Follow these instructions on the opposite side to ensure that the blade is set to 45° in both directions.

CHANGING THE BLADE

Danger / Caution: Always ensure that the replacement blade matches the specifications. Never fit a blade which is smaller or bigger than that stated.

Danger / Caution: Only fit saw blades that are marked with a speed equal or higher than the speed marked on the saw.

- Pull on the release lever (26) and turn it through 90˚to lock it “open”.
- Lift the saw arm to its full height. *Fig.9*
- Slide the blade guard above the blade.
- With the blade guard held in place; remove the blade guard screw. *Fig.10*
- Slide the black plate up to reveal the blade retaining bolt and flange.
- Press and hold the spindle lock button whilst slowly turning the blade until the lock locates and stops the blade from spinning.*Fig.11*
- Turn the blade retaining bolt clockwise (the bolt has a left handed thread) to loosen and remove.
- Slide the flange and the blade from the spindle and fit the new blade. *Fig.12*
- Follow these instructions in reverse to secure the blade. Ensure that the blade direction is correct and the contact surfaces of the blade and flange are clean.

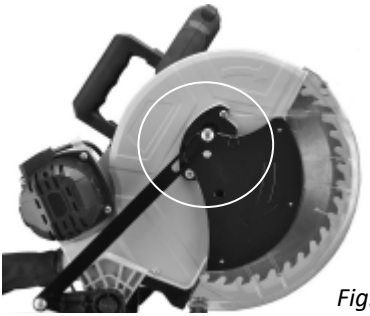


Fig.9

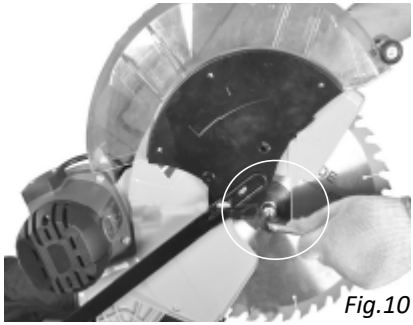


Fig.10

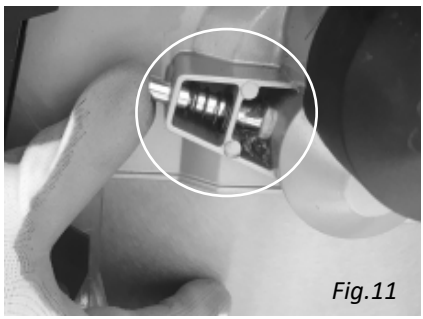


Fig.11

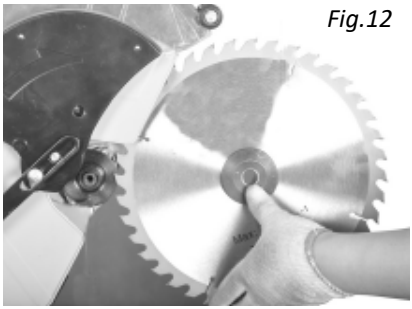
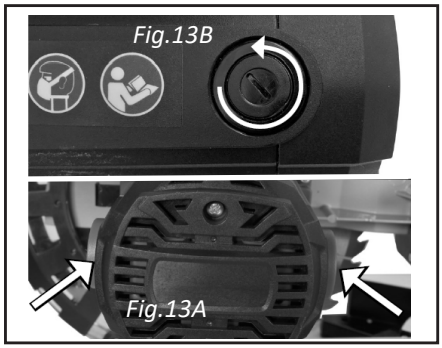


Fig.12

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

REPLACING THE MOTOR BRUSHES

- Unscrew the retaining cap (one on each side) *Fig.13A & B*.
- Change the carbon brush assembly. *Fig.14.*
- Screw and tight the retaining cap.



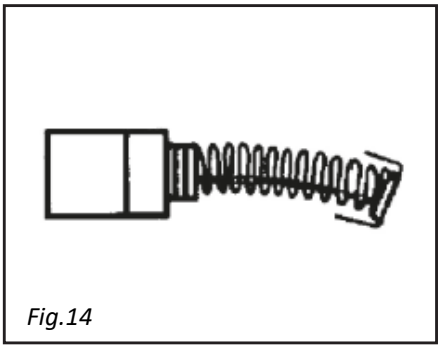


Fig.14

GENERAL INSPECTION

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

- Regularly check that all the fixing screws are tight, particularly the outer flange. They may vibrate loose over time.
- The mains lead of the saw and any extension cord used should be checked fre-quently for damage. If damaged, have the mains lead replaced by an authorised service facility. Replace the extension cord if necessary.
- Keep the air vents of the saw clear at all times.
- 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 at least after each use; the bag should be emptied before it gets half full to ensure its efficiency. 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.

MAINTENANCE cont..

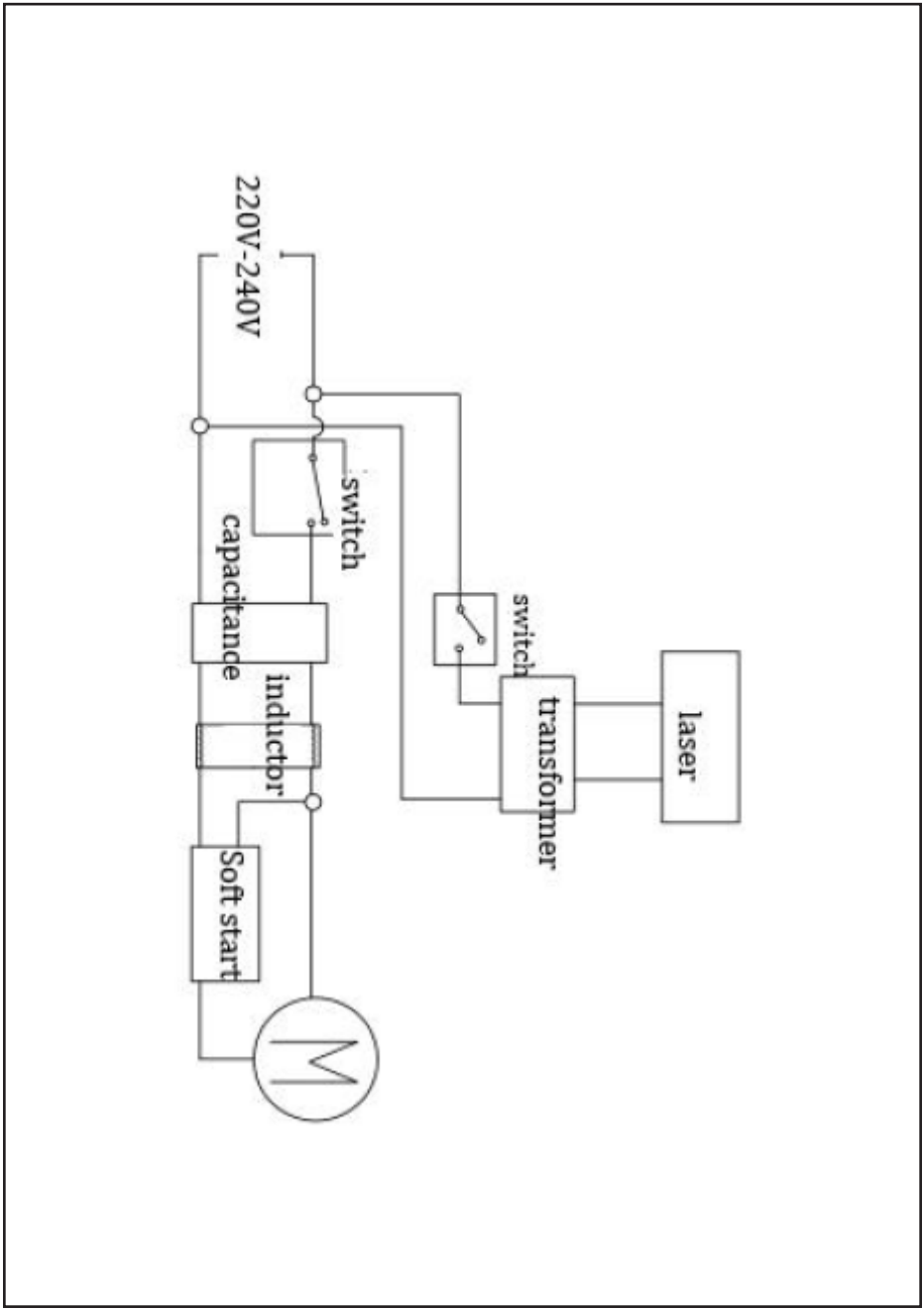
GENERAL INSPECTION

Caution: Water must never come into contact with the saw.

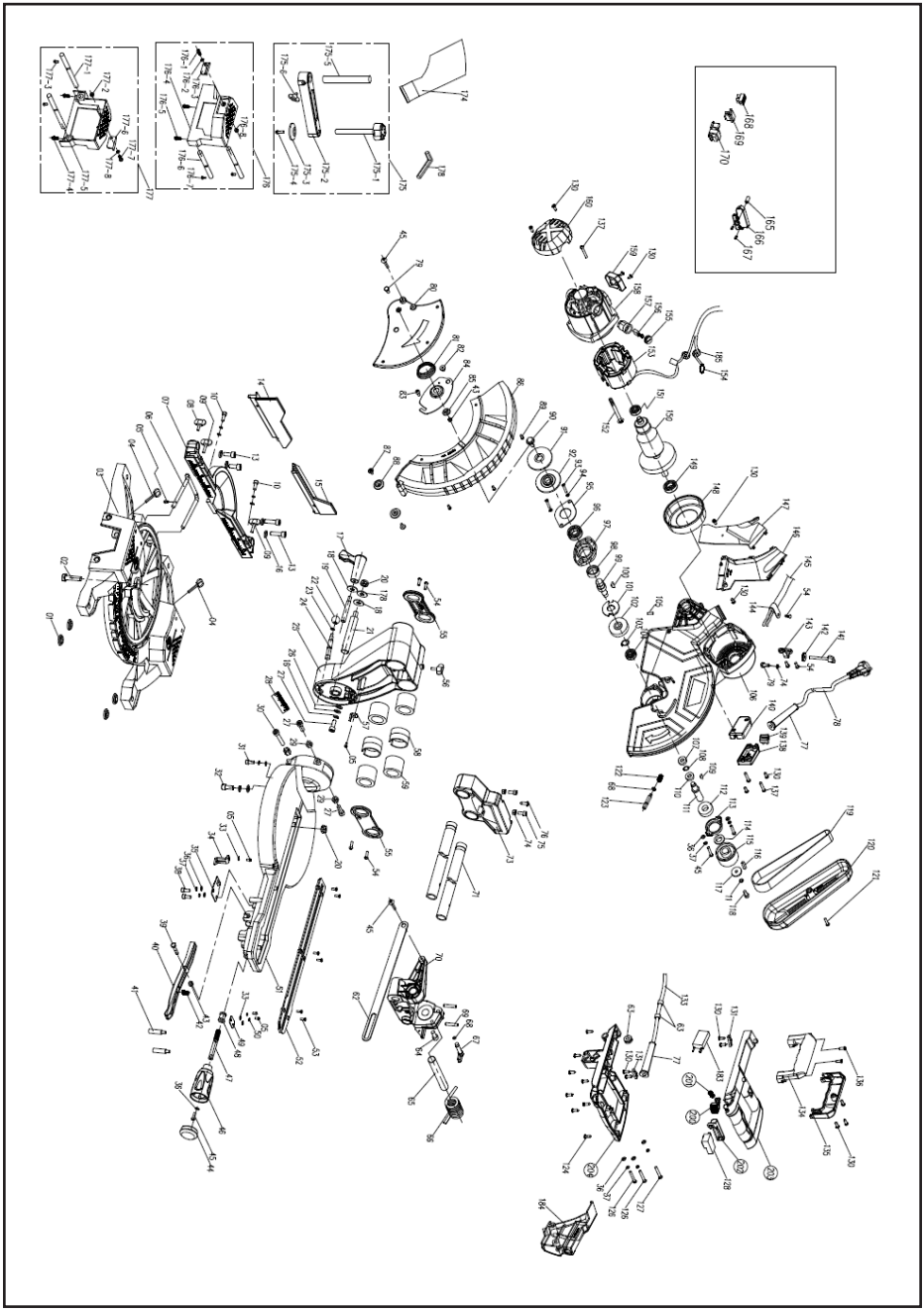
LUBRICATION

As well as oiling the moving parts regularly, the grease in the gearbox will require replacement after extensive use of the saw. Refer to an authorised service agent to provide this service.

WIRING DIAGRAM



EXPLODED DRAWING



PARTS LIST

Item.	Description	Item.	Description
1	Washer	63	Cable Jacket
2	Hex. Screw	64	Allen Hex. Screw
3	Mounting Base	65	Connection Axle
4	Wing Screw	66	Torsion Spring
5	Cross Screw	67	Locking Pin
6	Rear Support Frame	68	Circlip
7	Back frame	69	Spring Pin
8	Wing Screw	70	Bracket Support
9	Wing Screw	71	Guide Rod
10	Allen Hex. Screw	73	Rod End Brace
11	Washer	74	Nut
12	Washer	75	Allen Hex. Screw
13	Allen Hex. Screw	76	Self Tapping Screw
14	Left Fence	77	Cable Sleeve Cover
15	Right Fence	79	Hex. Screw
17	Angle Lock Handle	80	Movable Cover
18	Washer	81	Spring
19	Handle Axle	82	Flat Head Screw
20	Locking Nut	83	Cross Screw
21	Locking Axle	84	Bracket
22	Ball Nut	85	Fixed Spacer
23	O-ring	86	Main Cover
24	Dowel Pin	87	Self Tapping Screw
25	Support Base	88	Pulley
27	Allen Hex. Screw	89	Cross Screw
28	Scale Plate	91	Outer Retaining disc
29	Nut	92	Inner Retaining disc
30	Allen Hex. Screw	93	Screw
31	Allen Hex. Screw	94	Washer
32	Allen Hex. Screw	95	Front Cover Lid
34	Pointer	96	Bearing
38	Allen Hex. Screw	97	Front Cover
39	Hex. Screw	98	Bush
40	Locking Arm	99	Output Shaft
41	Support Rod	100	Shaft key
42	Spring	101	Locking Plate
43	Locking Nut	102	Gear
44	Handle Cap	103	Cir-clip
45	Cross Screw	104	Bearing
46	Plastic Handle	105	Screw
47	Locking Rod	106	Plastic Motor Cover
48	Centre Nut	107	Bearing
49	Bracket	108	Cir-clip
51	Movable Base	109	Shaft key
52	Groove Plate Insert	110	Gear
53	Screw	111	Connection Axle
54	Cross Screw	112	Bearing
55	End Cover Bracket	113	Bearing Holder
56	Wing Screw	114	Epoxy Gasket
57	Pointer	115	Belt Pulley
59	Bearing	116	Square Key
62	Connecting Lever	117	Washer

PARTS LIST

Item.	Description	Item.	Description
118	Allen Hex. Screw	170	Control Board
119	Belt	171	Transparent cover coat
120	Belt Cover	174	Dust Collection Bag
121	Cross Screw	175	Workpiece Clamp Assembly
122	Locking Spring	176	Left Support
123	Locking Pin	177	Right Support
124	Self Tapping Screw	178	Allen key
126	Cross Screw	183	0.22uf Capacitor
127	Cross Screw	184	Pivot Bracket
128	Trigger Switch	185	Magnet Ring
130	Cross Screw	200	Lock Button Switch
131	Clamp Cable	201	Lock Button Spring
133	Cable	202	Button Switch
134	Carry Handle Left Assembly	203	Upper Handle Assembly
135	Carry Handle Right Assembly	204	Lower Handle Assembly
136	Cross Screw	175-1	Hand wheel
137	Cross Screw	175-2	Clamping Block
138	Junction Box Lid	175-3	Washer
139	Terminal Block	175-4	Screw
140	Junction Box	175-5	Pin
141	Wing Screw	175-6	Wing Screw
142	Nut	175-7	The clamping block
143	Stopper	175-8	The clamping piece of spring
144	Clamp Cable	176-1	Screw
145	Cable Line	176-2	Washer
146	Dust Collector Right Assembly	176-3	Left Support tab
147	Dust Collector Left Assembly	176-4	Left Support Block
148	Motor Back Cover	176-5	Screw
149	Bearing	176-6	Left Sliding Rod
150	Rotor	176-7	Screw
151	Bearing	176-8	Nut
152	Self Tapping Screw	177-1	Right Sliding Rod
153	Stator	177-2	Locking Pin
154	Tension Spring	177-3	Screw
155	Brush Holder Lid	177-4	Screw
156	Carbon Brush	177-5	Right Sliding Rod
157	Brush Guide	177-6	Right Support tab
158	Motor Cover	177-7	Screw
159	Junction Box	177-8	Washer
160	Plastic Rear Cover	90A	Hex. Screw
165	Laser	NA.	Left Work-piece Support Assembly
166	Laser Box	NA.	Right Work-piece Support Assembly
167	Cross Screw	NA.	Work-piece clamp Assembly
167	Cross Screw	NA.	Gearbox Assembly
168	Terminal Block	NA.	Motor Assembly
169	Microchip	NA.	Guard Assembly

Declaration of Conformity

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed
Loughborough
Leicestershire
LE12 9NH
England

As the manufacturer within the UK, England, Scotland & Wales,
declare that the

SIP 12” Compound Sliding Mitre Saw with Laser 230V - SIP Part No. 01505

Conforms to the requirements of the following regulation(s), as indicated.

Supply of Machinery (Safety) Regulations 2008
Electromagnetic Compatibility - Directive 2014/30/EU
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

And the relevant harmonised standard(s), including

BS EN 55014-1:2017+A11:2020
BS EN IEC 61000-3-2:2019
BS EN 61000-3-3:+A1:2019
BS EN 55014-2:2015
BS EN 62841-1:2015
BS EN 62841-3-9:2015+A11:2017

Signed: 

Mr P. Ippaso - Managing Director - SIP (Industrial Products) Ltd
Date: 28/02/2022

Declaration of Conformity

We

SIP (Machinery Europe) Ltd
ASM Chartered Accountants
First Floor Block One
Quayside Business Park
Dundalk
County Louth
Republic of Ireland

As the manufacturer's authorised representative within the EC
declare that the

SIP 12" Compound Sliding Mitre Saw with Laser 230V - SIP Part No. 01505

Conforms to the requirements of the following directive(s), as indicated.

2006/42/EC - Machinery Directive
2014/30/EU - EMC Directive
2011/65/EU & 2015/863/EU - RoHS Directive

And the relevant harmonised standard(s), including

EN 55014-1:2017+A11:2020
EN IEC 61000-3-2:2019
EN 61000-3-3:+A1:2019
EN 55014-2:2015
EN 62841-1:2015
EN 62841-3-9:2015+A11:2017

Signed: 

Mr P. Ippaso - Managing Director - SIP (Industrial Products) Ltd
Date: 28/02/2022

CE

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 a recognised recycling agent. This will allow the recycling of raw materials and help protect the environment.

FOR HELP OR ADVICE ON THIS PRODUCT PLEASE CONTACT YOUR DISTRIBUTOR, OR SIP DIRECTLY ON:
TEL: 01509 500400
EMAIL:
sales@sip-group.com
or
customerservice@sip-group.com
www.sip-group.com

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