

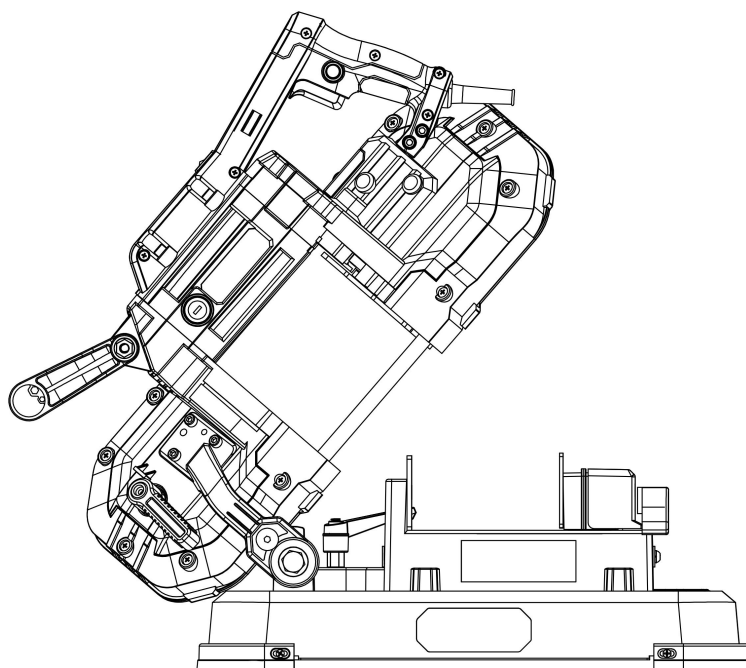
POWER SMART[®]

INSTRUCTION MANUAL

PORTABLE BAND SAW

Model # PS3051

Model#HM1141B



Have product questions or need technical support? Please scan the QR code to enter our official website and contact us!

Website: www.powersmartusa.com

Toll free: 1-872-314-0005 M-F 9-5 EST

Email: support@amerisuninc.com/support@powersmartusa.com



Website

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TECHNICAL DATA

Portable Band Saw:	Model # PS3051
Voltage:	120 V, 60 Hz
Power:	10A
Saw Band Speed:	0.7~ 2.4m/s
Blade Dimensions:	44-7/8"(L)x1/2"(W)x0.025"(Thick)
Cutting Width 90°:	5"x 5"
Cutting Width 45°:	5"x1.63"
Pivot Range:	0~45°
Package Dimensions (L x W x H):	15.4x14.2x22 inch
Weight:	30 lb.

INTRODUCTION

Thank You for Purchasing a PowerSmart® Product. This manual provides information regarding the safe operation and maintenance of this product. Every effort has been made to ensure the accuracy of the information in this manual. PowerSmart® reserves the right to change this product and specifications at any time without prior notice.

Please keep this manual available to all users during the entire life of the power tool.



This manual contains special messages to bring attention to potential safety concerns, power tool damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

QUESTIONS? PROBLEMS?

Please contact our Customer Service Dept. with any questions and/or comments, either by Email: support@amerisuninc.com/ support@powersmartusa.com, or Toll Free at (872)314-0005. We are available Mon-Fri 9am-5pm EST to help solve any issues that you might encounter.

SAFETY INFORMATION

Before operating this power tool, read and observe all warnings, cautions, and instructions on the power tool and in this Owner's Manual.

NOTE: The following safety information is not meant to cover all possible conditions and situations that may occur. Read the entire Owner's Manual for safety and operating instructions. Failure to follow instructions and safety information could result in serious injury or death.

This safety alert symbol is used to identify safety information about hazards that can result in personal injury.



A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol may be used to represent the type of hazard.

DANGER Indicates a hazard, which, if not avoided, will result in death or serious injury.

WARNING Indicates a hazard, which, if not avoided, could result in death or serious injury.

CAUTION Indicates a hazard, which, if not avoided, might result in minor or moderate injury.

CAUTION Without the alert symbol, indicates a situation that could result in damage.

GENERAL SAFETY RULES

Safety is a combination of common sense, staying alert, and knowing how your power tool works.

SAVE THESE SAFETY INSTRUCTIONS.



WARNING: Do not operate this unit until you read this instruction manual for safety, operation and maintenance instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

WORK AREA SAFETY

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

ELECTRICAL SATETY

Grounding instructions

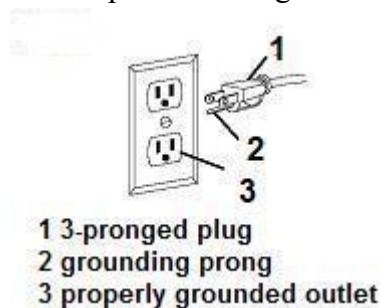
IN THE EVENT OF A MALFUNCTION OR BREAKDOWN, grounding provides the path of least resistance for electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug **MUST** be plugged into a matching outlet that is properly installed and grounded in accordance with ALL local codes and ordinances.

DO NOT MODIFY THE PLUG PROVIDED. If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

IMPROPER CONNECTION of the equipment grounding conductor can result in electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electric cord or plug is necessary, **DO NOT** connect the equipment grounding conductor to a live terminal.

CHECK with licensed electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure if the tool is properly grounded.

USE ONLY THREE-WIRE EXTENSION CORDS that have 3-pronged plugs and outlets that accept the tool's plug as shown in Fig. A. Repair or replace a damaged or worn cord immediately.



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



WARNING: Do not expose to rain or use in damp locations.

Guidelines for using extension cords

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The table below shows the correct size to be used according to cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Minimum Gauge for Extension Cords (AWG)
(When using 120 V only)

Ampere Rating		Total Length of Cord in feet			
More Than	Not More Than	25	50	100	150
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Recommended	

Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your tools. This circuit must not be less than a #12 wire and should be protected with a 15 A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.



WARNING: This tool must be grounded while in use to protect the operator from electric shock.

PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating the tool. Do not use the tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating tools may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
- Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- Avoid accidental starting. Be sure switch is off before connecting to power source and/ or battery pack, pick up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the power tool in unexpected situations.
- Do not stand on tool or its stand. Serious injury may occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials on or near the tool such that it is necessary to stand on the tool or its stand to reach them.

POWER TOOL USE AND CARE

- Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- Do not use the tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Inspect guards before using a tool. Keep guards in place. Check moving parts for binding or any other condition that may affect the normal operation or safety features of the tool. If damaged, have tool serviced before using the tool. Many accidents are caused by poorly maintained tools.
- Do not alter or misuse tool. Any alteration or modification is a misuse and may result in serious personal injury.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- The use of any other accessories not specified in this manual may create a hazard. Accessories that may be suitable for one type of tool, may become hazardous when used on an inappropriate tool.
- Store idle power tools out of reach of children and other untrained persons. Power tools are dangerous in the hands of untrained users.
- Use the power tool, accessories and tool bits etc., in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you lend this tool to someone else, also lend them these instructions.

SERVICE

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

GENERAL

- This tool should not be used by people under the age of 16 years
- This tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the tool by a person responsible for their safety

SPECIFIC SAFETY RULES FOR PORTABLE BAND SAW

- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessories contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- Never leave the Bandsaw unattended while it is running. Do not put the Bandsaw down until the blade comes to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- Before each use, make sure the tension handle is in the tightened position (making the blade taut).
- Cutting Material. Make sure cutting material is securely fastened down before operating the Bandsaw. Work slowly and carefully when cutting corners, sharp edges, ragged welds, etc., to avoid snagging.
- Cutting material and the motor housing can get very hot during operation. Stop work until unit cools down to safe temperature. Spray a coolant or water onto the blade.
- Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact us for a replacement.
- Noise can have serious effects on your health. The machine noise exceeds 85 dB (A), please wear suitable hearing protection.
- People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should: Avoid operating alone. Do not use with power switch locked on.
- Properly maintain and inspect to avoid electrical shock.
- The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of the work piece or of a broken accessory may fly away and cause injury beyond the immediate area of operation.
- Regularly clean the power tool’s air vents. The motor’s fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.
- Do not operate with any guard disabled, damaged, or removed. Moving guards must move freely and close instantly.



WARNING: Use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.



WARNING: VIBRATION SAFETY. Do not operate this tool for long periods of time. Vibration caused by the operating action of this tool may cause permanent injury to fingers, hands, and arms. Use gloves to provide extra cushion, take frequent rest periods, and limit daily time of use.



WARNING: The cord of this product contains lead and/or di (2-ethylhexyl) phthalate (DEHP), chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)

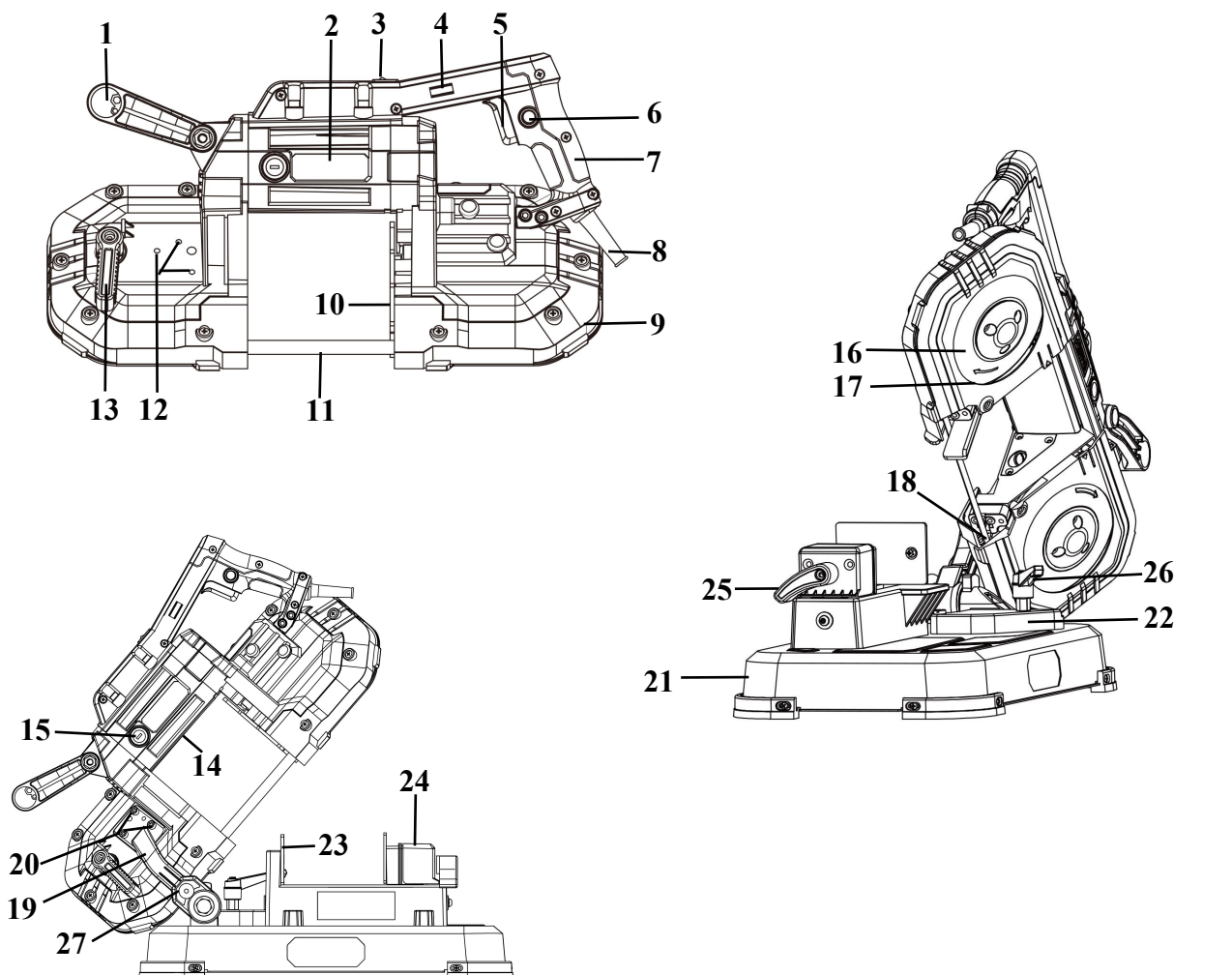
SYMBOLS

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Alternating voltage
Hz	Hertz	Frequency (cycles per second)
W	Watts	Power
rpm	Per minute	Revolutions per minute
KG	Kilogram	Weight
dB(A)	Decibel(A-rated)	Decibel(A-rated)
mm	Millimetre	Size
M/S ²	Meters per seconds squared	Speed
	Lock	To tighten or secure
	Unlock	To loosen
	Safety Alert	Precautions that involve your safety.
	Read the user's manual	To reduce the risk of injury, user must read and understand user's manual before using this product.
	Eye &Hearing&Respiratory protection	Wear eye protection when operating this equipment. Use proper hearing protection when operating this equipment. Use proper respiratory protection when operating this equipment.
	Beware of the fragments of the work piece	Keep bystanders a safe distance away from work area. Fragments of the work piece or of a broken accessory may fly away.
	Protective gloves	Wear protective gloves when operating this equipment.
	Protective, slip-resistant footwear	Wear protective, slip-resistant footwear when operating this equipment.
	Switch the product off	Switch the product off and disconnect it from power supply before assembly,cleaning,adjustments,maintenance,storage and transportation.

SYMBOL	NAME	DESIGNATION/EXPLANATION
	WEEE Symbols	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.
	Wet conditions alert	Do not expose to rain or use in damp locations.
	Electric shock alert	Beware of electric shock hazard.
	Protection class II	This products is of protection class II. That means it is equipped with enhanced or double insulation.
	No touching	Do not touch the blade.
	Saw band direction	Saw band direction reminder

KNOWING YOUR PORTABLE BAND SAW



1	Handle	10	Guide bar	19	Support arm
2	Motor	11	Saw band	20	Support arm holes
3	LED on/off switch	12	Metal band saw holes	21	Saw table
4	Speed setting wheel	13	Tightening lever for saw band	22	Support arm base plate
5	On/off switch	14	Top saw band guard	23	Fixed clamping jaw
6	Release switch	15	Carbon brushes	24	Moving clamping jaw
7	Handle	16	Saw band drive unit	25	Work-piece clamping lever
8	Mains connection	17	Rubber belts	26	Locking handle (graduated scale)
9	Saw band guard (left/right)	18	Guide rollers	27	Safety bolt

Unpacking

Unpack the power tool and all its parts, and compare against the list below. Do not discard the carton or any packaging materials. Please call 1-872-314-0005 or E-mail us at support@amerisuninc.com / support@powersmartusa.com if any parts are damaged or missing.

Including: Portable Band Saw / Blade / Base /Support Arm Screw*3 / Support Arm Base Screw*1 / S4 Wrench / S5 Wrench / User Manual

ASSEMBLY INSTRUCTION



WARNING: Do not use this product if any parts on the packing list are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.



WARNING: If any parts are damaged or missing do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.



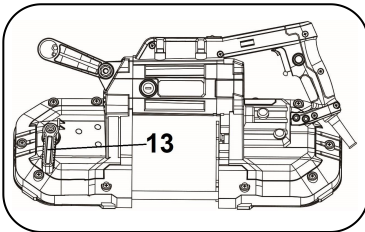
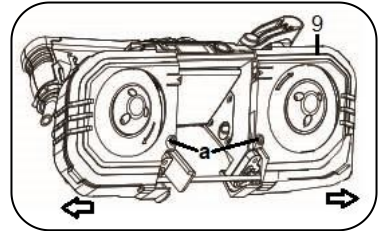
WARNING: Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

Fitting The Saw Band

NOTE: Do not operate the metal band saw without the saw band guard! Wear protective gloves when operating.

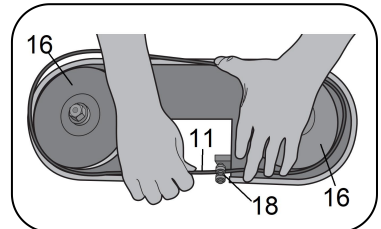
1. Loosen the two Phillips screws(a) from the saw band guard (left/right) (9). Remove the saw band guard (9) by sliding to left / right.

2. Turn the tension handle(13) clockwise to release blade tension.



3. Position the saw band (11) into both guide rollers(18) and push in, make sure that the teeth are on the base and angled in the direction of the work-piece stop.

4. Hold the saw band (11) in the guide rollers (18) and place it around both drive units (16) properly.

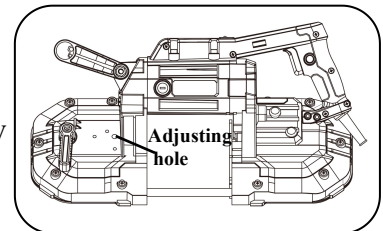


5. Tension the saw band (11) using the tightening lever(13) until the saw band is taut and the tightening lever “Tight”.

6. Push the saw band guard (left/right) (9) back on to the metal band saw and screw them tight again.

7. Switch the metal band saw on and off a few times to ensure that the saw band is sitting correctly.

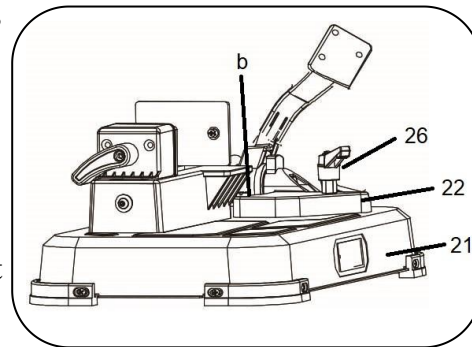
NOTE: We can insert the S5 wrench into the adjusting hole to adjust the saw band tightness if the saw band tightness is not appreciate to drive units.



CAUTION: Maintain physical distance from the saw band area during this test.

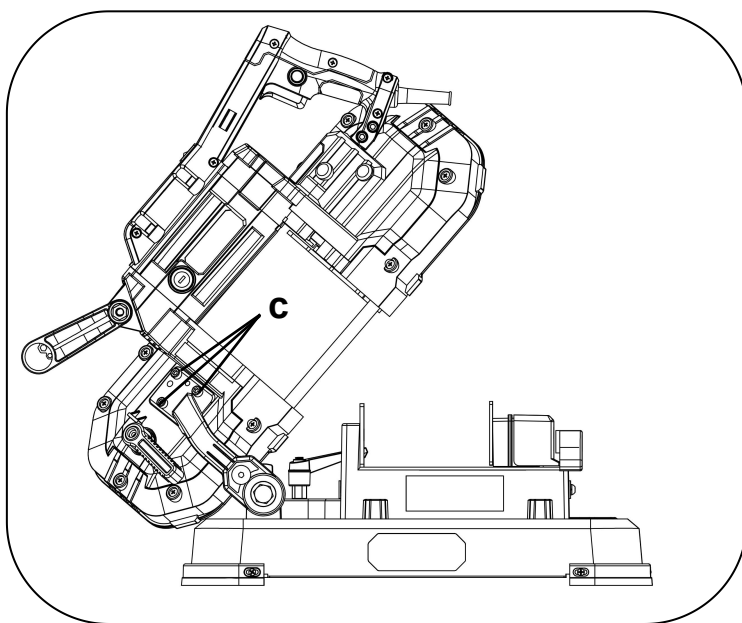
Fitting The Support Arm To The Saw Table

1. Release the support arm base plate (22) with locking handle (26), rotating the base plate until the support arm base plate hole aligns with the hole in the saw table.
2. Insert the support arm base screw(b) from above through the aligned holes in the saw table (21).
3. Tilt the saw table (21) on its side and fasten the provided support arm base screw(b) onto the base. Fix the screw in place using an open-ended spanner (not included in the scope of delivery).



Fitting The Machine Onto The Support Arm

1. Align the holes of the metal band saw to the holes in the support arm.
2. Screw three provided support arm screws(c) through the support arm into the metal band saw.
3. Tighten the hexagon socket screws with the wrench.



OPERATING INSTRUCTION



WARNING: This tool is for indoor use only. DO NOT expose to rain or use in damp locations.

Commissioning



CAUTION: Always make sure the device is fully assembled before commissioning!

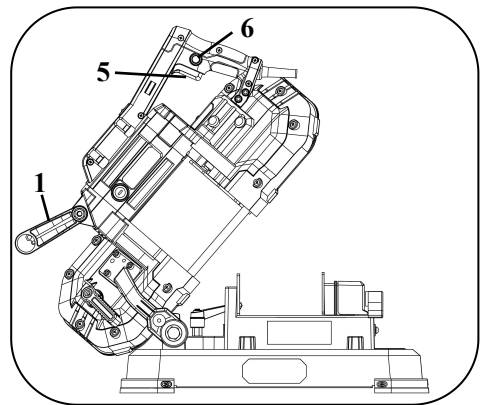
- Check all screws and connections for firm seating.
- Check that the saw band is in perfect condition.
- Remove all tools from the clamping jaw and the saw table.
 - The saw band must be able to run freely.
 - In case of previously machined wood, be aware of any foreign objects, such as nails or screws, etc.
 - Before pressing the on/off switch, make sure that the saw band is correctly fitted, and that moving parts run smoothly.
 - Before connecting the machine, make certain that the data on the type plate matches with the mains power data.

Switching The Machine On /Off



CAUTION: Before connecting the machine to the mains power supply, always make sure that the on/off switch (5) is functioning properly.

1. To switch the machine on, press release switch (6) and then the on/off switch (5) .
2. To switch off, release the on/off switch (5).



Adjust The Handle Angel

The handle (1) allows the user to maintain a firm hold during use. Put the handle (1) in a comfortable and secure working position.

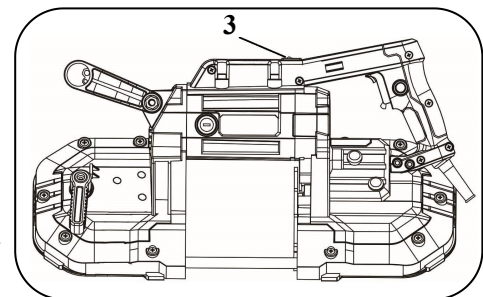
NOTE: There are four angles can be adjusted. We can adjust the handle angle by releasing the hex screw on the handle.

Switching The Led Lamp On/Off

1. To switch the LED on, set the on/off switch (3) to “I (ON)”.
2. To switch the LED off, set the switch to position “O (OFF)”.

NOTE:

- Wipe any dirt off the LED with a dry cloth. Be careful to avoid scratching the LED, because this can severely reduce the light intensity.
- Do not use thinners or spirit to clean the LED. Such solvents may damage the LED.
- Always switch the LED off after work.



Speed Setting Wheel

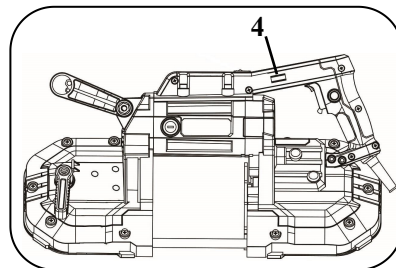


CAUTION: Never change the speed with the device running.

The machine speed can be set between 0.7 m/s and 2.4 m/s by turning the speed setting wheel(4).

By turning the speed setting wheel (4) towards the number 6 you increase the speed, whilst turning it towards 1 reduces the speed.

Choose a suitable speed for the work-piece to be cut.



CAUTION: The speed setting wheel (4) can only be turned up to 6 and back to 1. If it is forcibly turned past 6 or beyond 1, it may no longer be possible to adjust the speed.

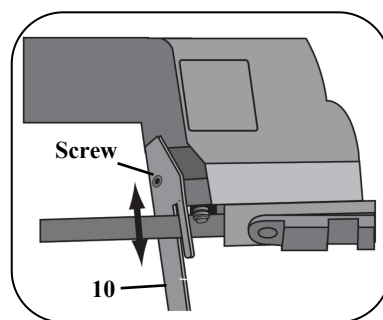
Adjusting The Work-Piece Stop

For safety reasons, please disconnect the power cable from the mains.

While using the metal band saw, the work-piece stop(10) must be secured in the lowest position.

If the work-piece stop (10) should butt against an obstacle at the end of a cut, e.g. a wall or similar, loosen the screw and slide the work piece stop (10) upwards. Secure the work-piece stop(10) after sliding by fixing the screws again.

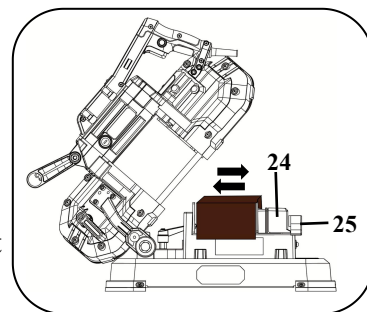
NOTE: Ensure that the metal band saw is switched off when adjusting the work-piece stop (10)!



Clamping The Work-Piece

1. Open the work-piece clamping lever (25) anti-clockwise. Pull the moving clamping jaw (24) back as shown in the below left figure.

2. Place the work-piece on the front fixed clamping jaw, slide the moving clamping jaw (24) toward the work-piece. Clamp the work-piece using work-piece clamping lever (25) anti-clockwise as shown in the below right figure.



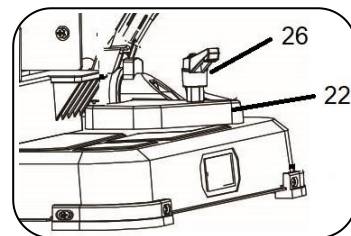
Mitre Cut 0°- 45°

Mitre cuts of 0°-45° to the working surface can be carried out using the metal band saw.

To do this:

1. Open the locking handle (26) by rotating the handle anticlockwise.
2. Set the support arm base plate (22) to the desired angle.
3. Re-tighten the locking handle (graduated scale) (26) by rotating the handle clockwise.

NOTE: If you can't lock/unlock the handle once, pull the handle up as for a effective rotate travel, release and rotate the handle clockwise/anticlockwise again.



Cutting Operations

The following recommendations should be applied as a guideline:

- Never twist the saw band during the cutting process.
- Never use liquid coolant for the metal band saw. The use of liquid coolants causes deposits on the rubber belts and reduces the cutting performance.
- If severe vibrations arise during the cutting process, make sure that the sawn work-piece is securely clamped. If the vibrations continue, replace the saw band.

Sawing Process With The Saw Table



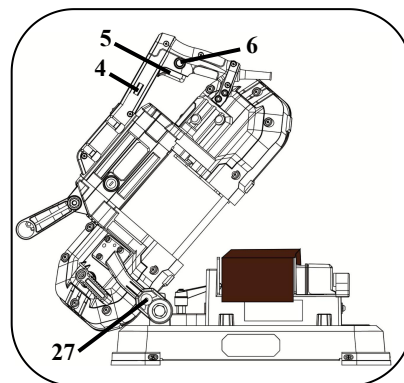
CAUTION: Keep the mains cable away from the sawing area during the sawing process.

Risk of injury! Keep your hands away from the sawing area.

Mitre cuts of 0°- 45° to the working surface to the left can be carried out using the metal band saw.

1. Set the desired angle as described under point “**Mitre Cut 0°- 45°**”.
2. Clamp your work-piece as described under point “**Clamping The Work-Piece**”.
3. Turn on the LED light for better view.
4. Switch the metal band saw on. To do this, press the on/off switch (5) and the release switch (6) at the same time under point “**Switching The Machine On /Off**”.
5. Once the metal band saw has reached the desired speed, pull the safety bolt (27) and tilt the main body of the metal band saw slowly and cautiously downwards so that the saw band comes into contact with the work-piece. If the speed is not suitable, switch off the band saw, adjust the speed by by turning the speed setting wheel(4) under “**Speed Setting Wheel**”.

Do not apply any additional pressure. Be careful to avoid the saw band coming suddenly and abruptly into contact with the surface of the work-piece. This results in serious damage to the saw band. In order to achieve the maximum service life of the saw band, ensure that no sudden impacts arise at the start of the sawing process.



NOTE: If the band saw becomes jammed or stuck in the work-piece material during sawing, release the on/off switch (5) immediately to avoid damage to the saw band and engine. The net weight of the metal band saw delivers the most efficient cutting pressure. If the pressure is increased by the operator, the saw band becomes slower and the service life of the band is reduced.

6. Swivel the metal band saw back into the initial position after the sawing process. Make sure that the metal band saw does not tilt back down again.



WARNING: Wait until the saw band has come to a complete standstill before removing the work-piece.

MAINTENANCE



WARNING: Always turn the switch OFF, and unplug the power cord from the outlet before maintaining portable band saw.



WARNING: When servicing, use only identical replacement parts. Use of any other parts could create a hazard or cause product damage.

Cleaning

- Keep protective devices, air vents and the motor housing as free of dust and dirt as possible. Rub the device clean with a clean cloth or blow it off with compressed air at low pressure. We recommend that you clean the device directly after every use.
- Clean the device at regular intervals using a damp cloth and a little soft soap. Do not use any cleaning products or solvents; they could attack the plastic parts of the device. Make sure that no water can penetrate the device interior. Water entering a power tool will increase the risk of electric shock.

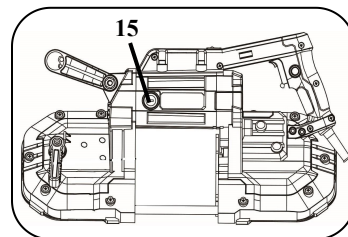
General Maintenance Tasks

- Wipe swarf and dust off the machine from time to time with a cloth.
- Do not oil the motor.
- Do not use corrosive cleaning agents for cleaning the plastic.

Brush Inspection

If the machine is new, check the carbon brushes(15) after the first 50 operating hours or if a new brush has been mounted. After the initial check, check every 10 operating hours. If the carbon is worn down to a length of 6 mm, or the spring or the shunt wire is burnt or damaged, both brushes must be replaced. If the brushes are found to be usable after removal, they can be reinstalled.

1. To service the carbon brushes, open both locks counterclockwise.
2. Then remove the carbon brushes and check it.
3. Re-insert the carbon brushes.



Replacing The Saw Band

NOTE: Saw bands are sharp. wear protective gloves when handling them.

1. Rotate the tightening lever for the saw band in a clockwise direction up to the stop, in order to relieve the saw band tension.
2. Turn the metal band saw over and place it down on a workbench or table.
3. Loosen the two Phillips screws (a) counterclockwise and remove the saw band guard (left/right) by sliding to the left or right as per “**Fitting The Saw Band**” in page 11.
4. Start to remove the saw band at the top part of the saw band guard (14) and continue right around the drive unit of the saw band.

CAUTION! When removing the saw band, the tension may be relieved and the saw band may jump off.

5. Check the guide rollers and remove all coarse chips that may be in here. Jammed chips may prevent the guide rollers from turning and lead to flat spots.

6. Rubber belts are located on the pulleys. The rubber belts should be checked for looseness or damage when changing the saw band. Wipe chips off the rubber belts (17).

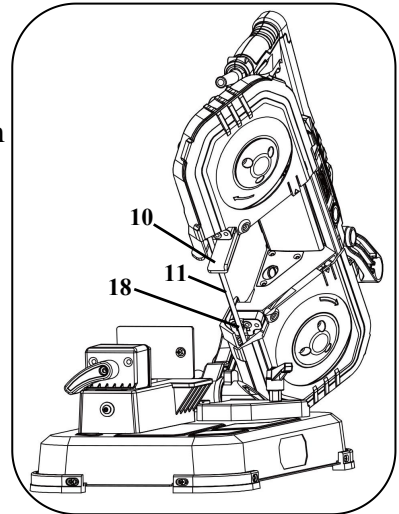
7. Position the saw band (11) such that the teeth are on the base and are angled in the direction of the work-piece stop (10).

8. Slide the saw band (11) into the guide rollers (18).

9. Hold the saw band (11) in the guide rollers (18) and place it around both drive units.

10. Tension the saw band by using the tightening lever for the saw band.

11. Push the saw band guard (left/right) back on to the metal band saw and screw it tight again.



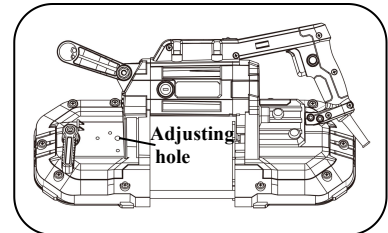
Attention! Do not operate the metal band saw without the saw band guard!

12. Switch the metal band saw on and off a few times, to ensure that the saw band is sitting correctly.

NOTE: We can insert the S5 wrench into the adjusting hole to adjust the saw band tightness if the saw band tightness is not appreciate to drive units.



CAUTION: Maintain physical distance from the saw band area during this test.



Service Information

With this product, it is necessary to note that the following parts are subject to natural or usage-related wear, or that the following parts are required as consumables.

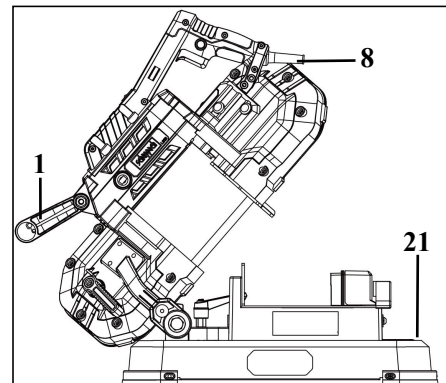
Wearing parts: **Carbon brushes, saw band**

Storage

- Store the device and its accessories in a dark, dry and frost-free place that is inaccessible to children. The optimum storage temperature lies between 5~30 °C(41~86°F).
- Store the power tool in its original packaging.
- Cover the electric tool to protect it from dust or moisture.
- Store the operating manual with the power tool.

Transport

Transport the metal band saw by holding it with both hands by the handles (1) and Mains connection (8). Carry the machine on the saw table (21) with the metal band saw mounted to the saw table.



RECYCLING AND DISPOSAL



The device is supplied in packaging to avoid transport damages. This packaging is raw material and can thus be used again or can be reintegrated into the raw material cycle.



The device and its accessories are made of different materials, such as metals and plastics. Take defective components to special waste disposal sites. Check with your specialist dealer or municipal administration!

Old devices must not be disposed of with household waste!



This symbol indicates that this product must not be disposed of together with domestic waste in compliance with the Directive (2012/19/EU) pertaining to waste electrical and electronic equipment (WEEE).

This product must be handed over at the intended collection point. This can be done, for example, by returning it when purchasing a similar product or delivering it to an authorized collection point for the recycling of old electrical and electronic devices. Improper handling of waste equipment may have negative consequences for the environment and human health due to potentially hazardous substances that are often contained in electrical and electronic equipment. By properly disposing of this product, you are also contributing to the effective use of natural resources. You can obtain information on collection points for waste equipment from your municipal administration, public waste disposal authority, an authorized body for the disposal of waste electrical and electronic equipment or your waste disposal company.

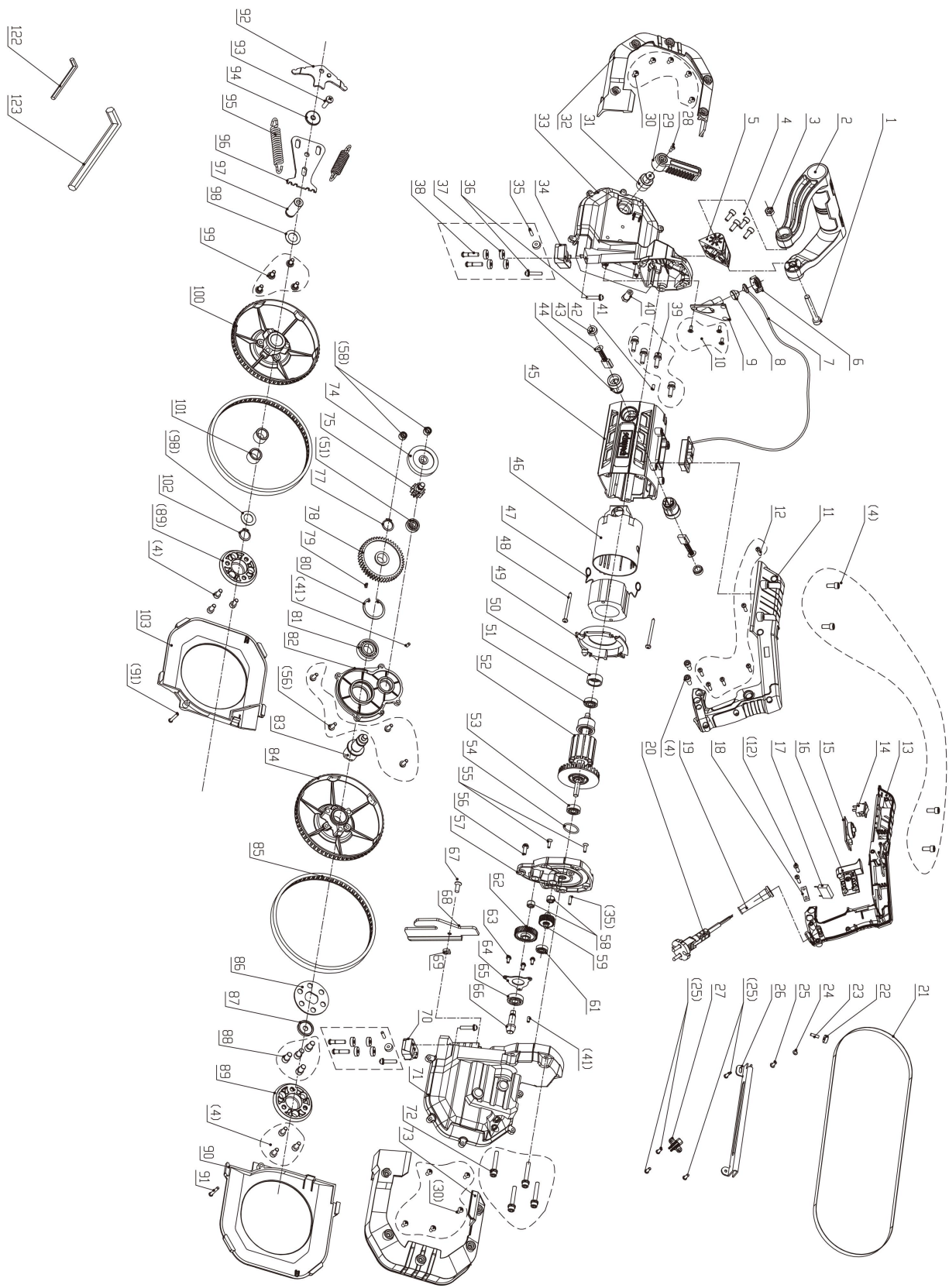
TROUBLESHOOTING



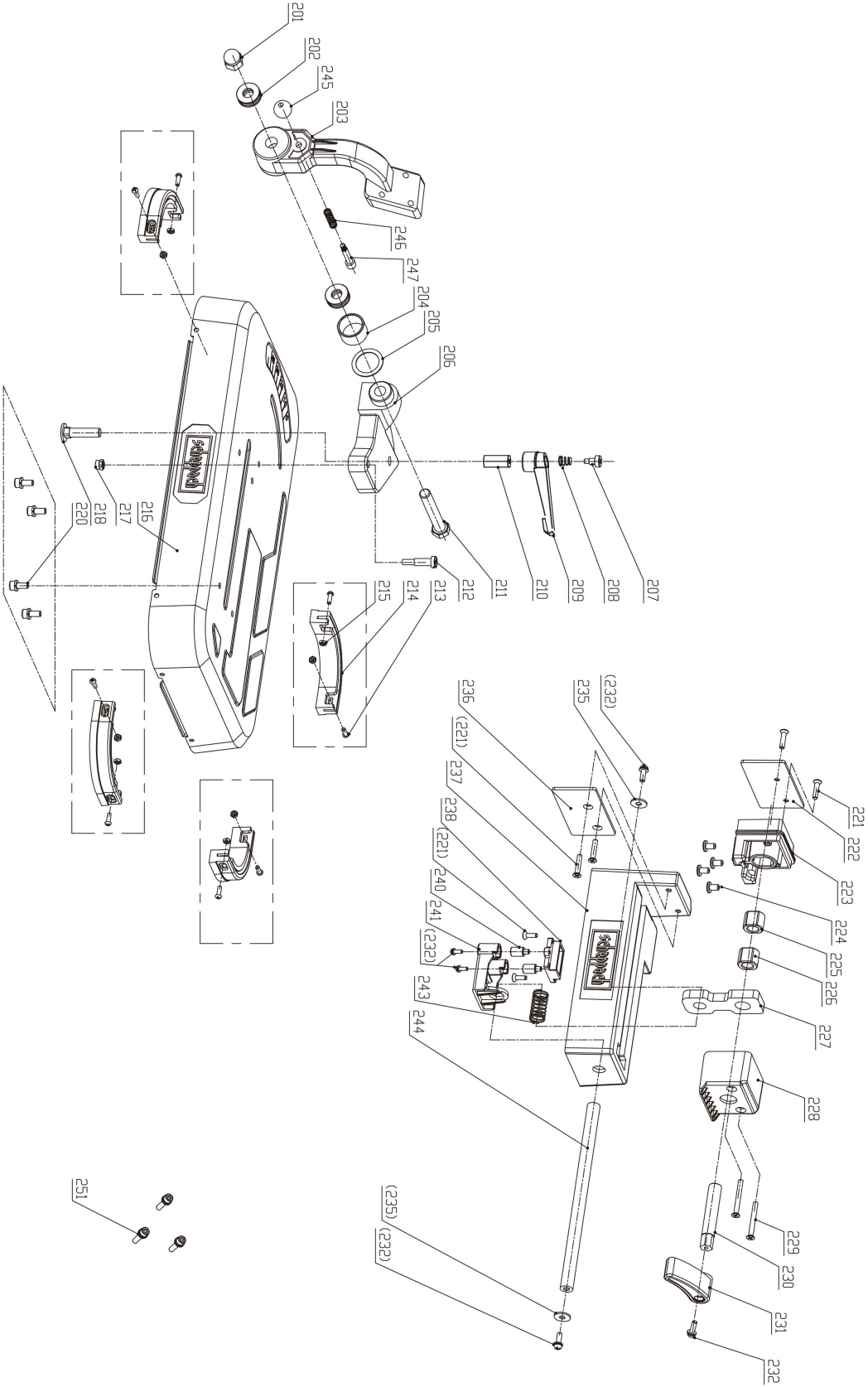
WARNING: Read instruction manual first! Remove plug from the power source before troubleshooting.

Problem	Possible Cause	Possible Solution
Motor does not working.	1) Wires in the main plug or in the socket are loose. 2) The switch is faulty. 3) Engine defective, fuses burnt.	1) Connect the main plug to the socket again. 2) Turn the switch ON again or change the switch. 3) Have the machine checked by a specialist. Never repair the engine yourself.
The engine runs slowly and does not reach the operating speed.	1) Voltage too low. 2) Coils damaged. 3) Capacitor burnt.	1) Have the voltage checked by a utility provider. 2) Have the engine checked by a specialist. 3) Have the capacitor replaced by a specialist.
Motor makes excessive noise	Coils damaged or motor defective.	Have the engine checked by a specialist.
The motor does not reach its full power.	Circuits in the network are overloaded (lamps, other motors, etc).	Do not use any other equipment or engines on the same circuit.
Motor overheats easily.	1) Overloading of the motor. 2) Insufficient cooling of the motor.	1) Avoid overloading the engine while cutting. 2) Remove dust from the engine in order to ensure optimal cooling of the engine.
Saw cut is rough or wavy.	1) Saw band dull. 2) Tooth shape not appropriate for the material thickness.	1) Sharpen the saw band. 2) Insert a suitable saw band.
Work-piece pulls away and/or splinters.	Excessive cutting pressure and/or saw band not suitable for use.	Insert a suitable saw band.
Burn marks on the wood when working.	1) Saw band blunt. 2) Incorrect speed.	1) Replace the saw band. 2) Choose a suitable speed for the work-piece to be cut.
Saw band jams when working.	1) Saw band blunt. 2) Saw band resinous.	1) Replace the saw band. 2) Clean the saw band.

EXPLODED VIEW& PARTS LIST



Base Exploded View



Item	Stock#	Description	Qty
1	PS3051-001	soket head cap screw	1
2	PS3051-002	handle	1
3	PS3051-003	hexagon nut	1
4	PS3051-004	soket head cap screw	16
5	PS3051-005	The handle seat	1
6	PS3051-006	LED lamp holder cover	1
7	PS3051-007	Transformer assembly	1
8	PS3051-008	Led Lamp	1
9	PS3051-009	LED lamp holder	1
10	PS3051-010	cross recessed countersunk head screw	3
11	PS3051-011	Upper handle	1
12	PS3051-012	Cross recessed pan head tapping screws	8
13	PS3051-013	Bottom handle	1
14	PS3051-014	2309A little switch	1
15	PS3051-015	Speed control module	1
16	PS3051-016	switch	1
17	PS3051-017	capacitor	1
18	PS3051-018	press board	1
19	PS3051-019	sheath	1
20	PS3051-020	cable	1
21	PS3051-021	saw blade	1
22	PS3051-022	bearing	3
23	PS3051-023	straight pin	1
24	PS3051-024	flat gasket	1
25	PS3051-025	cross recess pan head screw	5
26	PS3051-026	Guide groove for saw blade	1
27	PS3051-027	Brush component	1
28	PS3051-028	cross recess pan head screw	1
29	PS3051-029	adjusting knob	1
30	PS3051-030	cross recess pan head screw	10
31	PS3051-031	eccentric shaft	1
32	PS3051-032	Right shield	1
33	PS3051-033	The right Box body	1
34	PS3051-034	Right positioning block	1
35	PS3051-035	cylinder pin	3

Item	Stock#	Description	Qty
36	PS3051-036	cross recess pan head screw	4
37	PS3051-037	bearing	8
38	PS3051-038	cross recess pan head screw	4
39	PS3051-039	soket head cap screw	4
40	PS3051-040	Support adjusting screw	1
41	PS3051-041	straight pin	3
42	PS3051-042	Brush cover	2
43	PS3051-043	brush	2
44	PS3051-044	brush holder	2
45	PS3051-045	main case	1
46	PS3051-046	The stator cover	1
47	PS3051-047	stator	1
48	PS3051-048	Cross recessed pan head tapping screws	2
49	PS3051-049	windshield	1
50	PS3051-050	bearing sleeve	1
51	PS3051-051	bearing	2
52	PS3051-052	rotor	1
53	PS3051-053	bearing	1
54	PS3051-054	O ring	1
55	PS3051-055	cross recessed countersunk head screw	2
56	PS3051-056	cross recess pan head screw	4
57	PS3051-057	The middle cover	1
58	PS3051-058	needle bearing	4
59	PS3051-059	Cross axle gear shaft	1
61	PS3051-061	bearing	1
62	PS3051-062	The level of gear	1
63	PS3051-063	cross recess pan head screw	3
64	PS3051-064	Bearing pressure plate	1
65	PS3051-065	bearing	1
66	PS3051-066	The secondary gear shaft	1
67	PS3051-067	Hexagon socket countersunk head screws	1
68	PS3051-068	Block frame	1
69	PS3051-069	square nut	1
70	PS3051-070	Locating piece left	1
71	PS3051-071	The left box body	1

Item	Stock#	Description	Qty.
72	PS3051-072	soket head cap screw	4
73	PS3051-073	The left cover	1
74	PS3051-074	The helical gear	1
75	PS3051-075	Triple gear shaft	1
77	PS3051-076	circlip for shaft	1
78	PS3051-077	rack wheel	1
79	PS3051-078	flat key	1
80	PS3051-079	circlip for hole	1
81	PS3051-080	bearing	1
82	PS3051-081	front cover	1
83	PS3051-082	output shaft	1
84	PS3051-083	The left saw blade plate	1
85	PS3051-084	rubber belt	2
86	PS3051-085	lower platen	1
87	PS3051-086	top board	1
88	PS3051-087	soket head cap screw	4
89	PS3051-088	Saw blade plate cover	2

Item	Stock#	Description	Qty.
90	PS3051-090	Left shield cover	1
91	PS3051-091	cross recess pan head screw	2
92	PS3051-092	spring support	1
93	PS3051-093	cross recess pan head screw	1
94	PS3051-094	Adjusting wheel	1
95	PS3051-095	extension spring	2
96	PS3051-096	Regulator mounting plate	1
97	PS3051-097	Tightener mounting column	1
98	PS3051-098	paper washer	2
99	PS3051-099	set screw	4
100	PS3051-100	right Saw blade plate	1
101	PS3051-101	steel bushing ø21	2
102	PS3051-102	circlip for shaft	1
103	PS3051-103	The right shield cover	1
104	PS3051-104	Grease	
122	PS3051-112	socket head wrench S4	1
123	PS3051-113	socket head wrench S5	1

Base parts list

Item	Stock#	Description	Qty
201	PS3051-201	Cap nut	1
202	PS3051-202	plane bearing	2
203	PS3051-203	rocker arm	1
204	PS3051-204	steel bushingø30	1
205	PS3051-205	flat gasket	1
206	PS3051-206	connecting base	1
207	PS3051-207	Hexagon socket step screw	1
208	PS3051-208	Tower type spring	1
209	PS3051-209	Fast lock knob	1
210	PS3051-210	hexagon prism	1
211	PS3051-211	outer hexagonal bolts	1
212	PS3051-212	Hexagon socket step screw	1
213	PS3051-213	cross recess pan head screw	8
214	PS3051-214	Plastic feet	4
215	PS3051-215	nut	8
216	PS3051-216	pedestal	1
217	PS3051-217	locknut	1
218	PS3051-218	Square neck bolt	1
220	PS3051-220	socket head cap screw	4
221	PS3051-221	cross recessed countersunk head screw	6
222	PS3051-222	knockout plate	1
223	PS3051-223	Activity block	1
224	PS3051-224	Friction pad	4
225	PS3051-225	inner nut	1

Item	Stock#	Description	Qty.
226	PS3051-226	outer nut	1
227	PS3051-227	Camshaft jacking block	1
228	PS3051-228	cover	1
229	PS3051-229	cross recessed countersunk head screw	1
230	PS3051-230	push rod	1
231	PS3051-231	Lock knob	1
232	PS3051-232	cross recess pan head screw	5
235	PS3051-235	flat gasket	2
236	PS3051-236	clamping piece	1
237	PS3051-237	Clamp mounting seat	1
238	PS3051-238	link block	1
240	PS3051-240	joint pin	2
241	PS3051-241	The activity base	1
241	PS3051-242	The activity base	1
243	PS3051-243	The clamping spring	1
244	PS3051-244	guide bar	1
245	PS3051-245	ball nut	1
246	PS3051-246	Locking disc spring	1
247	PS3051-247	Self locking pin	1
251	PS3051-251	socket head cap screw	3

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