

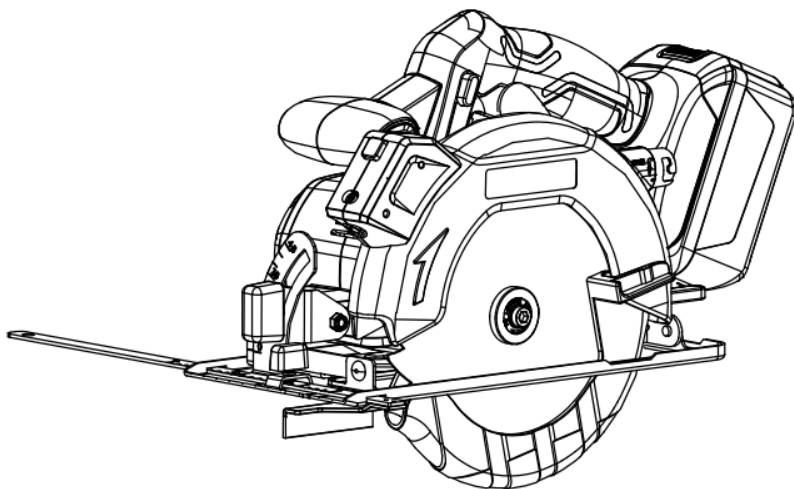
POWERSMART[®]

INSTRUCTION MANUAL

20V Cordless Circular Saw

Model # PS76130A

Item#97615L



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: 1-800-791-9458 M-F 9-5 EST

Email: support@amerisuninc.com



Website

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TECHNICAL DATA

Cordless Circular Saw	Model # PS76130A
Rated Voltage:	20 V
No Load Speed:	0~4300 rpm
Blade Diameter:	6-1/2 inch, 18 Teeth
Arbor:	4/5 inch
Cutting Capacity:	2-1/25 inch at 90°, 1-7/10 inch at 45°
Battery type:	20V Lithium-ion, 4.0 Ah
Battery model:	PS76440B
Charge time:	2.5 hours
Charger model:	PS76018C
Package dimensions (L x W x H):	13 x 8.5 x 7.7 inches
Weight:	8.9 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, or Toll Free at (800)791-9458. 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 SAFETY

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

PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 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.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- 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.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

POWER TOOL USE AND CARE

- Do not force power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it is designed.
- Do not use the power tool if switch does not turn it on or off. Any power 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 power tool. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of reach of children and other untrained persons. Power tools are dangerous in the hands of untrained users.
- Maintain power tools with care. Keep cutting tools sharp and clean. Properly maintained power tools, with sharp cutting edges are less likely to bind and are easier to control.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tools operation. If damaged, have the power tool serviced before using.
- 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.

BATTERY TOOL USE AND CARE

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. Use of any another battery packs may create a risk of injury and fire. Use only POWERSMART battery (Model#PS76440B)
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention. Following this rule will reduce the risk of serious personal injury.

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.

SPECIFIC SAFETY RULES FOR CORDLESS CIRCULAR SAW

- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- When not in use, place tool on its side on a stable surface where it will not cause a tripping or falling hazard. Some tools with large battery packs will stand upright but may be easily knocked over.
- Keep hands away from cutting area. Never reach underneath the material for any reason. Hold front of saw by grasping the contoured gripping area. Do not insert fingers or thumb into the vicinity of the reciprocating blade and blade clamp. Do not stabilize the saw by gripping the shoe.
- Keep blades sharp. Dull blades may cause the saw to swerve or stall under pressure.
- Use extra caution when cutting overhead and pay particular attention to overhead wires which may be hidden from view. Anticipate the path of falling branches and debris ahead of time.
- When cutting pipe or conduit ensure that etc.



WARNING: Always wear proper personal hearing protection that conforms to ANSI S12.6 (S3.19) during use. Under some conditions and duration of use, noise from this product may contribute to hearing loss.



WARNING: ALWAYS use safety glasses. Everyday eyeglasses are NOT safety glasses. Also use face or dust mask if cutting operation is dusty. ALWAYS WEAR CERTIFIED SAFETY EQUIP- MENT:

- ANSI Z87.1 eye protection (CAN/CSA Z94.3),
- ANSI S12.6 (S3.19) hearing protection,
- NIOSH/OSHA/MSHA respiratory protection.



WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

- Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.



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: 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.

- 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 following table shows the correct size to use depending on 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 Cord Sets			
Volts		Total Length of Cord in Feet			
120v		0-25	26-50	51-100	101-150
		(0-7.6m)	(7.6-15.2m)	(15.2-30.4m)	(30.4-45.7m)
Ampere Rating					
>	≤	American Wire Gauge			
0	6	18	16	16	14

Cutting Procedures



WARNING: Keep hands away from the cutting area and the saw blade.

- Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.
- Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- Hold power tool by the insulated gripping surfaces, when performing an operation where the cutting tool may run into hidden wiring. Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator.
- When ripping always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.
- Always use blades with correct size and shape (diamond versus round) of arbor holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.
- Kickback causes and related warnings
 - Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
 - When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
 - If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.
- Maintain a firm grip on the saw and position your arms to allow you to resist kickback force. Always stay to the side of the saw blade, never putting the saw blade in line with your body. The saw can jump backwards in the event of kickback, but the operator can control kickback force if proper precautions are taken.
- When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.

- When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
- Use extra caution when sawing into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

Lower Guard Function

- Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- The lower guard may be retracted manually only for special cuts such as “plunge cuts and angle cuts”. Raise the lower guard by retracting the handle and as soon as the blade enters the material, release the lower guard. For all other sawing operations, the lower guard should operate automatically.
- Always observe that the lower guard is covering the blade before placing saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

Safety Rules for Laser Lights

The laser light/laser radiation used in the system is Class 2 with maximum 1mW and 650nm wavelengths. These lasers do not normally present an optical hazard, although staring at the beam may cause flash blindness.



WARNING: Do not stare directly at the laser beam. A hazard may exist if you deliberately stare into the beam, please observe all safety rules as follows;










- The laser shall be used and maintained in accordance with the manufacturer’s instructions.
- Never aim the beam at any person or an object other than the workpiece.
- The laser beam shall not be deliberately aimed at personnel and shall be prevented from being directed towards the eye of a person for longer than 0.25s.
- Always ensure the laser beam is aimed at a sturdy workpiece without reflective surfaces. I.e. wood or rough coated surfaces are acceptable. Bright shiny reflective sheet steel or the like is not suitable for laser use as the reflective surface could direct the beam back at the operator.
- Do not change the laser light assembly with a different type. Repairs must be carried out by the laser manufacturer or an authorized agent.



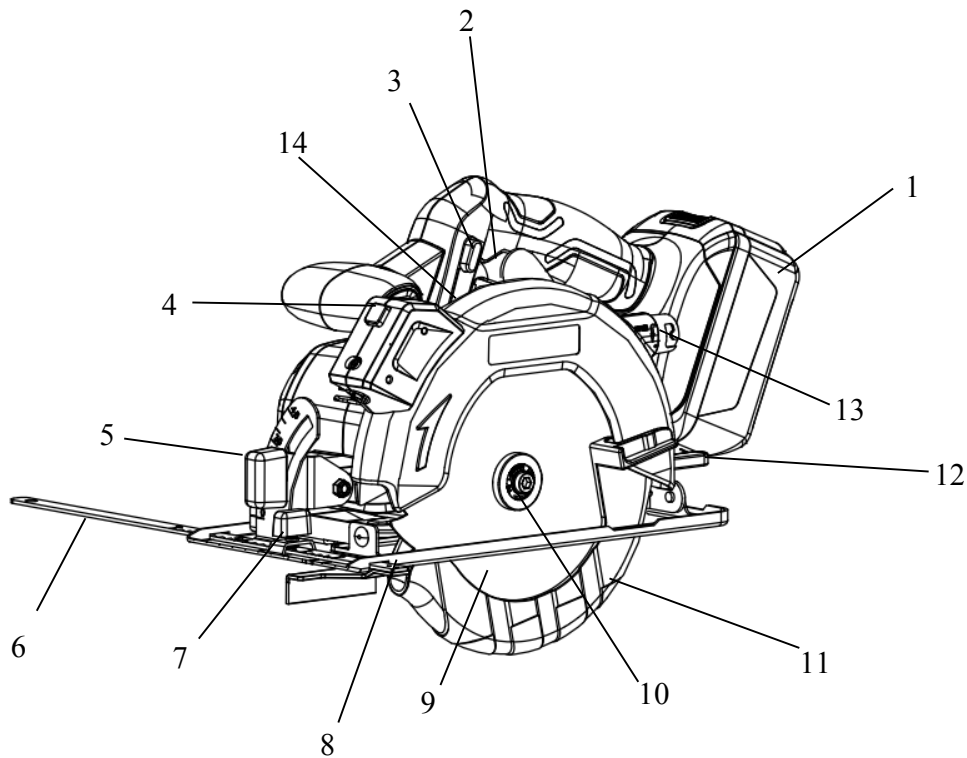
CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watts	Power
MIN	Minutes	Time
	Safety Alert	Precautions that involve your safety.
	Li-ion RBRC seal	Designates Li-ion battery recycling program
	Read the user's manual	To reduce the risk of injury, user must read and understand user's manual before using this product.
	Eye protection	Wear eye protection when operating this equipment.
	Hearing protection	Use proper hearing protection when operating this equipment.
	Respiratory protection	Use proper respiratory protection when operating this equipment.
	Wet conditions alert	Do not expose to rain or use in damp locations.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	Electric shock alert	Beware of electric shock hazard.

KNOWING YOUR CORDLESS CIRCULAR SAW



- | | | | |
|----|------------------------------|----|------------------------------------|
| 1 | Battery | 2 | Trigger switch |
| 3 | Lock-Off button | 4 | Laser switch |
| 5 | Lock knob for angle | 6 | Parallel guide |
| 7 | Lock knob for parallel guide | 8 | Base plate |
| 9 | Saw blade | 10 | Clamping bolt with clamping flange |
| 11 | Movable guard | 12 | Lock lever for depth |
| 13 | Dust port | 14 | Spindle lock button |

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 1-800-791-9458 or E-mail us at support@amerisuninc.com if any parts are damaged or missing.

Including: Cordless circular saw/ Saw blade / Parallel guide/ Hex key/ Battery and Charger /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 attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible 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.

REPLACING SAW BLADE



WARNING: Before any work on the power tool, remove the battery.

When mounting the saw blade, wear protective gloves. Danger of injury when touching the saw blade. Use only saw blades suitable for the material being worked. Never use a blade that is too thick to allow outer blade washer to engage with the flats on the spindle.

- Remove the battery first, then place the saw on its side on a flat surface. Rotate the saw blade by hand whilst depressing the spindle lock button until the blade locks.
- Whilst depressing the spindle lock button turn the blade bolt clockwise using the blade wrench provided.
- Remove the outer blade flange and the blade bolt.
- Raise the lower blade guard using the blade guard lever. Remove the saw blade from the inner flange and pull it out.
- Clean the saw blade flange thoroughly before mounting the new saw blade. Wipe a drop of oil onto the inner and outer flange where they will touch the blade.
- Mount the new saw blade onto the spindle and against the inner flange.
- Replace the outer flange and tighten the blade bolt.



WARNING: The direction in which the blade rotates has to be the same as the direction of the arrow marked on the upper blade guard. Ensure that the spindle lock button is released. Before using the saw again, check that the safety devices are in good working order.

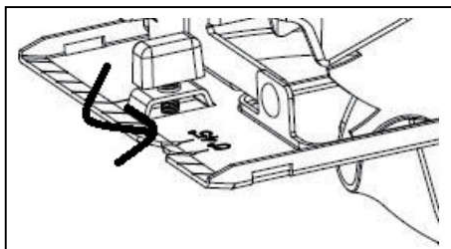


WARNING: After replacing the saw blade, make sure that the saw blade runs freely by turning the blade by hand. Plug the battery and run the saw under no load to check that it runs smoothly before using it to cut any material.

Installing the Parallel Guide

To install the rip guide on the machine, perform as the following steps:

- Insert the rip guide through the slots on the base plate at the front of the saw, starting with slot in the left side edge of the base.
- Slide the left guide through the slots until it extends out the right side of the base plate.
- Adjust the rip guide for the desired width of cut and then securely tighten the rip guide locking screw.



Supporting large panels/Securing workpiece

- Support large panels to minimize the risk of blade pinching and kickback. Large panels tend to sag under their own weight.
- Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- Never hold piece being cut in your hands or across your leg.
- Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.

CONNECTING AND REMOVING BATTERY

IMPORTANT!

The battery pack is not charged when it is purchased. Before using the power tool for the first time, place the battery pack in the battery charger and charge. Make sure to read all safety precautions, and follow the instructions in the battery charger section.

To install the battery pack

To install the battery pack into the bottom of the handle, align the rails of the battery pack with the rails in the handle and push the battery into the handle. To connect the battery, slide the battery pack fully forward. Until the latch locks into place.

To remove the battery pack

Press the battery release button ,Slide the battery pack backward, and then pull or lift the battery out of the tool .



WARNING:

Follow these instructions in order to avoid injury and to reduce the risk of electric shock or fire:

- Replace the battery pack or the charger immediately if the battery case or charger cord is damaged.
- Verify that the battery pack is removed before inspecting, adjusting, or performing maintenance on any part of the power tool.
- Read, understand, and follow the instructions.

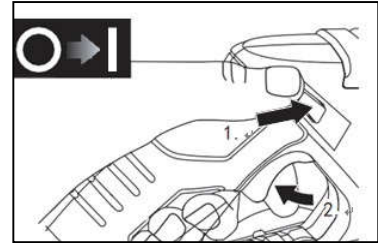
OPERATING INSTRUCTION

STARTING/ STOPPING THE SAW



WARNING: Before engage the switch trigger, check that the saw blade is properly fitted and run smoothly, the blade clamp bolt is well tightened.

- The tool is equipped with a lock-off button to avoid unintentional starting.
- To switch on, depress the lock-off button and squeeze the trigger switch.
- To switch off, release the trigger switch.



WARNING: After release the switch trigger, allow the blade to come to a complete stop. Do not remove the saw from the workpiece while the blade is moving.

ADJUSTMENTS

Adjusting the cutting speed

The speed is increased by increasing pressure on the trigger. Release the trigger to stop.

Adjusting the bevel angle

- Loosen the bevel locking lever located at the front of the base plate.
- Tilt the body of the saw until the required angle is reached using the bevel scale as a guide.
- Tighten the bevel locking lever to secure the base plate.

NOTE: Always make a trial cut in a scrap piece of material along a guideline to determine how much you should offset the blade from the guideline to make an accurate cut.



Adjusting the cutting depth

- Remove the battery first, then ensure that the saw is facing away from you.
- Loosen the depth locking lever.
- Hold the base plate flat against the edge of the work-piece and lift the body of the saw until the blade is at the right depth. Use the depth scale to determine the cutting depth.
- Tighten the depth locking lever.

NOTE: Always use the correct blade depth setting. The correct blade depth setting for all cuts should not be more than 6.35mm (1/4") below the material being cut. Allowing more depth will increase the chance of kickback and result in a rough cut.



Dust extraction

For optimum dust extraction, connect the dust extraction port to a suitable vacuum cleaner or workshop dust extraction system.



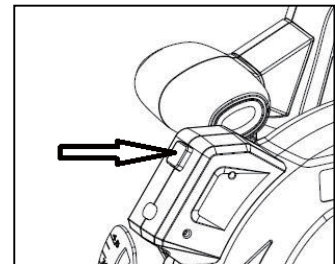
Pressing the laser button



WARNING: Laser light can cause severe eye damage. Never look directly into the laser beam. Do not point the laser beam at other people or animals, either directly or through reflective surfaces.

The laser feature on your saw is powered by two LR44 1.5V button batteries (installed). The Laser feature clearly shows you an extended cut-line, even over debris on the work piece.

- Turn it on with the laser light ON/Off switch right before cutting.
- Turn it off immediately after use to conserve battery and laser life.



WORKING ADVICE

Protect saw blades against impact and shock.

Guide the machine evenly and with light feed in the cutting direction. Excessive feed significantly reduces the service life of the saw blade and can cause damage to the power tool.

Sawing performance and cutting quality depend essentially on the condition and the tooth form of the saw blade. Therefore, use only sharp saw blades that are suited for the material to be worked.

General Cuts



WARNING: To reduce the risk of injury, remove the battery, and follow all assembly, adjustment and set up instructions.

Make sure lower guard operates. Select the proper blade for the material to be cut.

- Measure and mark work for cutting.
- Support and secure work properly (See Safety Rules).
- Use appropriate and required safety equipment (See Safety Rules).
- Secure and maintain work area (See Safety Rules).
- With battery inserted, make sure switch turns saw on and off.

Sawing Wood

The correct selection of the saw blade depends on the type and quality of the wood and whether length way or Cross way cuts are required.

When cutting spruce lengthways, long spiral chips are formed. Beech and oak dusts are especially detrimental to health. Therefore, work only with dust extraction.

TEMPERATURE CONTROL /OVERLOAD PROTECTION

When the temperature of battery is too high and the machine switches off automatically.

- Switch the power tool off.
- Allow the battery to cool down before continuing to work.

When the power tool is blocked and switches off automatically.

- Remove the power tool from the workpiece.
- As soon as the blockage is corrected, the power tool will continue to work at the set stroke rate.

IMPORTANT CHARGING NOTES



WARNING: Battery packs are shipped in a low charge condition to prevent possible problems. Therefore, you should charge them before first use.

- Use only POWERSMART battery charger (Model#PS76018C)
- Charge time is approximately 2.5hours, and is dependent upon the type of battery pack.
- Make sure the power supply is normal household voltage, 120V, AC only, 60Hz.
- Attach the battery pack to the charger by aligning the raised ribs on the battery pack with the grooves in the charger, then slide the battery pack onto the charger.
- Press down on the battery pack to be sure contacts on the battery pack engage properly with contacts in the charger. Latches should snap into ensure charger is correctly connected.
- Do not place the charger in an area of extreme heat or cold. It will work best at normal room temperature.
- The battery pack may become slightly warm to the touch while charging. This is normal and does not indicate a problem.
- The red LEDs will remain on while charging.
- When the green LEDs is light, this indicates the battery is fully charged.
- To remove the battery pack from the charger, depress latches and pull up on the battery pack.
- When the battery pack is fully charged, remove it from the charger.

MAINTENANCE



WARNING: In order to avoid personal injury and the risk of fire and electric shock, remove the battery pack before adjusting, inspecting, or cleaning the power tool.



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

- Be alert for battery packs that are nearing their end of life. If you notice decreased tool performance or significantly shorter running time between charges then it is time to replace the battery pack. Failure to do so can cause the tool to operate improperly or damage the charger.
- Clean the saw blade holder preferably with compressed air or a soft brush. Remove the saw blade from the power tool for this. Ensure proper operation of the saw blade holder by applying a suitable lubricant.
- Ventilation openings and switch levers must be kept clean and free of foreign matter. Do not attempt to clean by inserting pointed objects through opening.
- Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean clothes to remove dirt, oil, grease, etc.

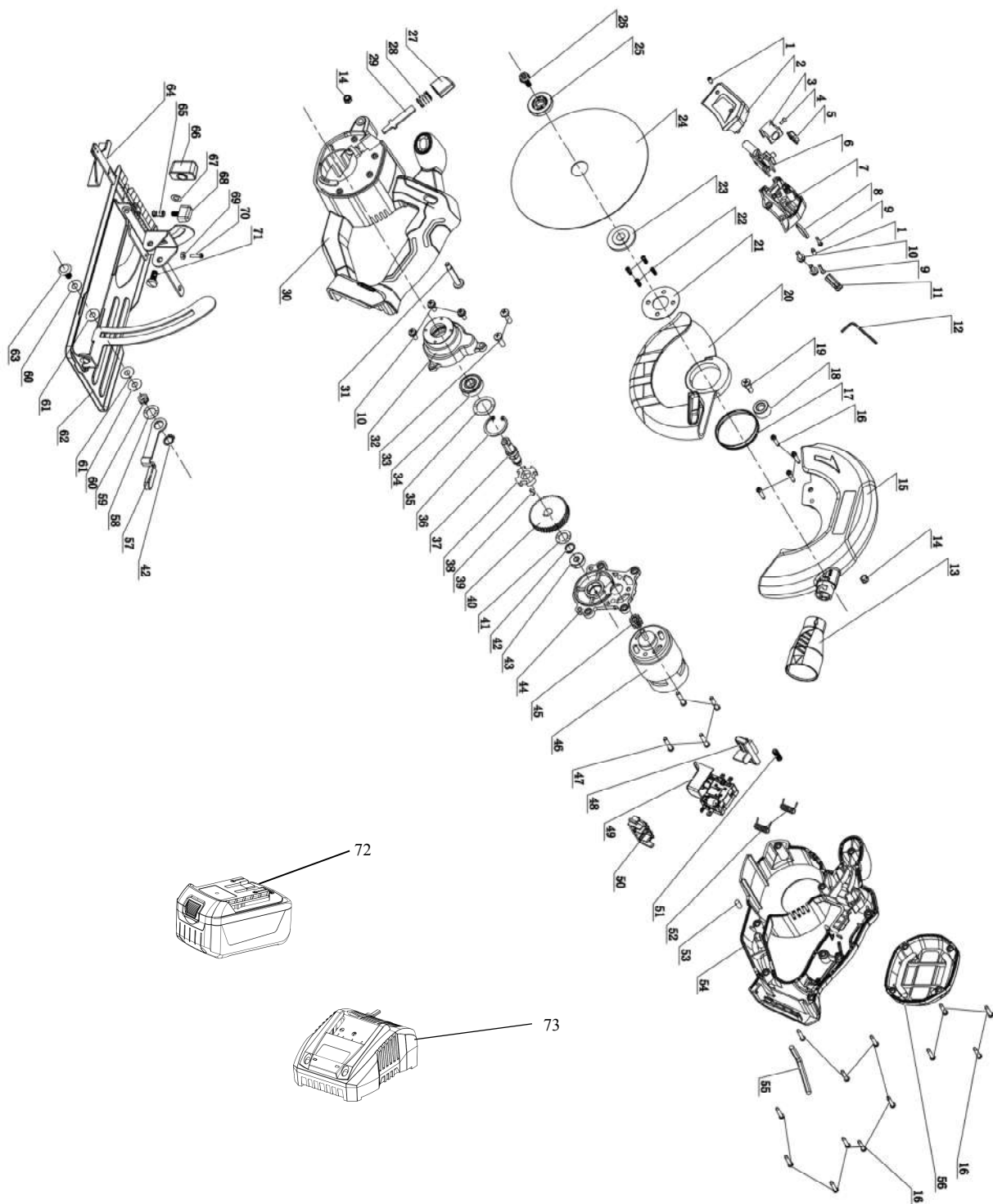
TROUBLE SHOOTING



WARNING: Read instruction manual first! Remove battery pack from the tool before making adjustments or assembling accessories.

Problem	Possible Cause	Possible Solution
Unit will not start	Battery pack not installed properly	Check battery pack installation.
	Battery pack not charged.	Check battery pack charging requirements.
Battery pack will not charge.	Battery pack not inserted into charger.	Insert battery pack into charger until LED appears
	Charger not plugged in	Plug charger into a working outlet. Refer notes “for more details.
	Surrounding air temperature too hot or too cold	Move charger and battery to a surrounding air temperature of above 40 degrees F(4.5°C) or below 105 degrees F(+40.5°C)
Unit shuts off abruptly	Battery pack has reached its maximum thermal limit.	Allow battery pack to cool down
	Out of charge. (To maximize the life of the battery pack, it is designed to shutoff abruptly when the charger is depleted	Place on charger and allow to charge

EXPLODED VIEW



PARTS LIST

Item	Stock#	Description	Qty.
1	PS76130A-001	Pan head screw\M4x8	2
2	PS76130A-002	Laserleft housing	1
3	PS76130A-003	Laser seat	1
4	PS76130A-004	Screw\M2.5X5	1
5	PS76130A-005	laser button	1
6	PS76130A-006	laser board	1
7	PS76130A-007	laser right housing	1
8	PS76130A-008	laser battery	1
9	PS76130A-009	Tapping screw\ST2.6x12	2
10	PS76130A-010	Screw M4X12	5
11	PS76130A-011	laser seat cover	1
12	PS76130A-012	Spanner 2mm	1
13	PS76130A-013	dust port	1
14	PS76130A-014	Hex. Nut\M5X8	2
15	PS76130A-015	Upper guard	1
16	PS76130A-016	Pan head screw\ST3.5X16	17
17	PS76130A-017	spring	1
18	PS76130A-018	Movable hood retaining ring	1
19	PS76130A-019	Locking screw M5X18	1
20	PS76130A-020	Lower guard	1
21	PS76130A-021	flange	1
22	PS76130A-022	Screw M3X8	4
23	PS76130A-023	Inner flange	1
24	PS76130A-024	Saw blade\φ165xφ20x24T	1
25	PS76130A-025	Outer flange φ20	1
26	PS76130A-026	Screw\M6x14	1

Item	Stock#	Description	Qty.
27	PS76130A-027	Spindle lock button	1
28	PS76130A-028	lock spring	1
29	PS76130A-029	Self locking piece	1
30	PS76130A-030	Housing (Left)	1
31	PS76130A-031	Hex.Bolt\M5x38.7	1
32	PS76130A-032	gear box	1
33	PS76130A-033	Screw M5X16	1
34	PS76130A-034	Ball bearing\6000.2Z	1
35	PS76130A-035	Washer φ19xφ25x0.5	1
36	PS76130A-036	Circlip for hole\φ26	1
37	PS76130A-037	Output shaft	1
38	PS76130A-038	Gear positioning block	1
39	PS76130A-039	key 3X3.7X10	1
40	PS76130A-040	Big Gear	1
41	PS76130A-041	Washer φ10.5xφ15x0.5	1
42	PS76130A-042	Circlip forshaft\φ12	2
43	PS76130A-043	Ball bearing\606.2Z	1
44	PS76130A-044	Front Cover	1
45	PS76130A-045	gear	1
46	PS76130A-046	Motor	1
47	PS76130A-047	Tapping screw\SST4x16F	1
48	PS76130A-048	Switch button	1
49	PS76130A-049	Switich	1
50	PS76130A-050	connection metal	1
51	PS76130A-051	Button spring	1
52	PS76130A-052	inducance	2

Item	Stock#	Description	Qty.
53	PS76130A-053	rubber ring φ5X10.2	1
54	PS76130A-054	Housing (Right)	1
55	PS76130A-055	Spanner	1
56	PS76130A-056	rear housing cover	1
57	PS76130A-057	Locking screw	1
58	PS76130A-058	Washer φ12xφ16x0.3	1
59	PS76130A-059	Nut\M6	1
60	PS76130A-060	Washer φ16xφ6.4x0.5	2
61	PS76130A-061	Washer φ16xφ6.4x0.5	2
62	PS76130A-062	Base plate assembly	1
63	PS76130A-063	Screw\M6x14	1

Item	Stock#	Description	Qty.
64	PS76130A-064	Guide gauge	1
65	PS76130A-065	lock spring φ7x13x0.5	1
66	PS76130A-066	Angular lock knob	1
67	PS76130A-067	Washer φ11xφ6.4x0.5	1
68	PS76130A-068	Locking screw M5	1
69	PS76130A-069	Hex. Nut\M4	1
70	PS76130A-070	Pan head screw\M4x16	1
71	PS76130A-071	Screw\M6x14	1
72	PS76440B	Battery pack	1
73	PS76018C	Charger	1

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