

EN

Original Instructions
Version 2
May 2025



STORMFORCE

20V

RECIPROCATING SAW

89459



1. Preface

1.1 Product Reference

User Manual for: 20V Reciprocating Saw

Stock No: 89459

Part No: RCRS20SF

1.2 Revisions

Version 1: June 2018

First release

Version 2: May 2025

Updates

Please visit drapertools.com/manuals for the latest version of this manual and the associated parts list, if applicable.

1.3 Understanding the Safety Content of This Manual

 **WARNING!** – Situations or actions that may result in personal injury or death.

 **CAUTION!** – Situations or actions that may result in damage to the product or surroundings.

Important: – Information or instructions of particular importance.

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3.1 Intended Use

This reciprocating saw is designed to cut wood, plastic and metal, including sheet materials, branches/logs and window surrounds. This product is intended for domestic and infrequent light-duty trade use.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

3.2 Specification

Stock No.	89459
Part No.	RCRS20SF
Cutting capacities:	
Wood:	115mm
Aluminium:	10mm
Mild steel:	6mm
Stroke length:	22mm
Strokes (No Load):	0 – 3,000s/min
Noise emissions:	
Sound pressure level:	82.3dB (A)
Sound power level:	93.3dB (A)
Uncertainty:	3dB (A)
Vibrations:	19.68m/s ²
Uncertainty :	1.5m/s ²
Net weight (tool only):	1.7kg

Battery (sold separately)

Stock No.	89437	89433
Part No.	B202LISF	B20LISF
Type	Li-ion	Li-ion
Rated voltage	20V	20V
Rating	2.0Ah	4.0Ah

Charger (sold separately)

Stock No.	89425	23793
Part No.	CB20	CB203.5
Rated voltage	230V/50Hz	230V/50Hz
Rated output:	65W	85W
Rated DC output voltage:	21.5V	21.5V
Rated DC output current:	2.4A	3.5A
Construction:	Class II	Class II

Charging time (approx.):

2.0Ah battery:	60mins	60mins
4.0Ah battery:	120mins	80mins

Important: The declared vibration total values and noise emissions values have been measured in accordance with a standard test method and may be used for comparing one tool with another. These values may also be used in a preliminary assessment of exposure.



WARNING! The vibration and noise emissions during actual use of the product can differ from the declared values depending on the type of work and the area upon which it is used. Before each use, estimate the likely exposure resulting from the actual conditions of use. Take into account all parts of the operation cycle in order to identify any safety measures required to protect the operator.

4. Health and Safety Information

4.1 General Power Tool Safety Warnings



WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work Area Safety

- **Keep work area clean and well lit.**
 - Cluttered or 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 children and bystanders 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 residual current device (RCD) protected supply.**
 - Use of an RCD reduces the risk of electric shock.

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 personal protective equipment. Always wear eye protection.**
 - Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the 'OFF' position before connecting to power source, picking up or carrying the tool.**
 - Carrying power tools with your finger on the switch or energising 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.**
 - This enables better control of the power tool in unexpected situations.
- **Dress properly. DO NOT wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.**
 - Loose clothes, jewellery or long hair can be caught in moving parts.
- **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.

- **DO NOT let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.**
 - A careless action can cause severe injury within a fraction of a second.

Power Tool Use and Care

- **DO NOT force the 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 was designed.
- **DO NOT use the power tool if the switch does not turn it on and off.**
 - Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool, before making any adjustments, changing accessories or storing power tools.**
 - Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.**
 - Power tools are dangerous in the hands of untrained users.
- **Maintain power tools and accessories. 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.
- **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.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.**
 - Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Service

- **Have your power tool serviced by a qualified repair person using only identical replacement parts.**
 - This will ensure that the safety of the power tool is maintained.
- **NEVER service damaged battery packs.**
 - Service of battery packs should only be performed by the manufacturer or authorized service providers.

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 other battery packs may create a risk of injury and fire.
- **When the 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.
- **Always switch off the tool and remove the battery before changing accessories or adjusting the tool.**
- **DO NOT use a battery pack or tool that is damaged or modified.**
 - Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- **DO NOT expose a battery pack or tool to fire or excessive temperature.**
 - Exposure to fire or temperature above 130 °C may cause an explosion.
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.**
 - Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

4.2 Additional Safety Warnings for Reciprocating Saws

- **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.**
 - 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 workpiece by hand or against your body leaves it unstable and may lead to loss of control.
- **ALWAYS** wear a dust mask and suitable eye protection.
- **DO NOT** overreach while using the tool.
- When working on a bench, ensure sufficient space between blade and bench to avoid damage of both tool and bench.
- Ensure blade has come to a complete stop before putting tool down on a surface.
- When cutting pipes take care to ensure that the blade is long enough to remain in the workpiece during cutting and that the end does not go into the pipe as it may catch the other side of the pipe and transmit unexpected movement to the user or workpiece.
- When cutting into walls ensure that there are no electrical cables or pipes hidden within the wall.
- **DO NOT** remove tool from workpiece until tool has stopped moving and take care not to touch the blade after work until it has cooled.
- When cutting sheet material always ensure that three teeth are in contact with the workpiece to avoid excessive vibration and damage to the blade.
- Take care cutting pre-used wood as it may contain nails and fixings, this will damage a wood cutting blade.
- Be aware when the battery is attached that this tool is always in an operating condition, the only way to safely isolate this tool is to remove the battery.

4.3 Safety instructions for Mains Powered Chargers & Battery Packs

- Before using the battery pack or charger, read all instructions and cautionary markings on the battery, charger and the product using the battery.

Chargers (sold separately)

- The charger is for indoor use only. **DO NOT** expose to rain.
- Prior to plugging the charger in to the supply, check that the plug, cord and charger casing are in good condition. If any are damaged, have the defective part(s) replaced immediately by a suitably qualified person.
- Only use a correctly rated mains outlet to provide power, **DO NOT** plug into site generators, attach to engine generators or D.C. sources. **DO NOT** use a mains socket outlet that is not switched.
- Use the correct Draper charger in conjunction with its corresponding battery pack (Visit drapertools.com for more information).
- The charger must be disconnected from the power supply before removing the battery.
- **DO NOT** charge any other batteries with Draper chargers. Any other application is considered misuse.
- **DO NOT** attempt to charge non-rechargeable batteries
- **DO NOT** attempt to charge battery packs that are too hot (over 30°C) or too cold (under 5°C), if these conditions apply set the battery pack aside to “normalise” before proceeding with the charging operation.
- Set up the charger and cord in a safe place where they will not be knocked, tripped over, stepped on, etc. and where it is well ventilated. Make sure the ventilation slots in the charger case are not obstructed.
- Switch the charger on and check that the correct indicators illuminate, allow the battery pack to charge. Once charging is complete, switch the charger off, disconnect from power supply, remove the battery pack and store.

Battery Packs (sold separately)

- Only use Draper recommended battery packs with this tool.
- Inspect the battery pack for damage, if it is undamaged, plug it into the charger, ensuring the correct orientation.
- **DO NOT** short the battery pack:
 - **DO NOT** touch the terminals with any conductive material.
 - Avoid storing battery pack in a container with other metal objects such as nails, coins, etc.
 - **DO NOT** expose battery pack to water or rain.
- The battery must be removed from the tool before it is recycled.
- The battery is to be disposed of in-line with local authority procedures.
- **DO NOT** crush, open or burn the battery. Exposure to potentially harmful materials may occur.
- In case of fire use CO2 or dry chemical extinguisher.
- **DO NOT** expose to high temperatures >50°C. The battery may degrade at high temperatures.
- Charge battery in conditions between 5°C to 30°C with the designated charger for the battery.
- **DO NOT** use battery if it has been stored at 5°C or less. Allow it to "normalise" at room temperature before usage/charging.



WARNING! – Leaking battery packs

- The electrolyte in battery packs is corrosive. Avoid contact with the skin.
- If contact is made, flush the area with clean water, pat dry and seek medical attention at the earliest opportunity.
- Inform medical personnel that the contaminant is a 'high alkaline, corrosive liquid'.
- If electrolyte comes into contact with the eyes, flush with plenty of water only. Seek immediate medical attention, relaying the information above.

4.4 Connection to the Power Supply (Charger)



CAUTION! Risk of electric shock. DO NOT open.

This appliance is supplied with an approved plug and cord for your safety.

If the power supply cord is damaged, it must be replaced by Draper Tools, an authorised service agent or similarly qualified personnel in order to avoid a hazard.

The damaged or incomplete plug, when cut from the cord, shall be disabled to prevent connection to a live electrical outlet.

This appliance is Class II† and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, use a small plain-slot screwdriver to remove the fuse cover. Ensure the substitute is of the correct rating, approved to BS1362 and ASTA or BS Kite marked. This should only be performed by suitably qualified personnel.

ASTA



BSI



Important: If an extension lead is required, use an approved and compatible lead rated for this appliance.

Unwind the entire cable and follow all the instructions supplied with the extension lead.

†Double insulated : This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.

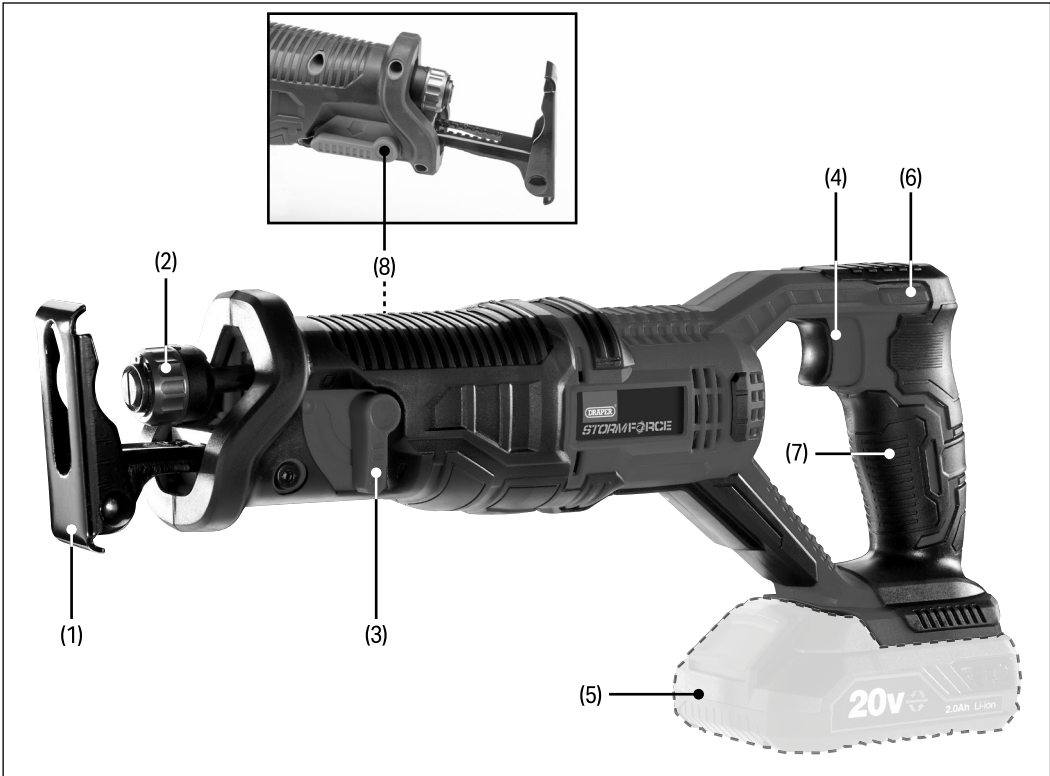
4.5 Residual Risk

The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.

5. Identification and Unpacking

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment. If any part is damaged or missing, do not attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.

5.1 Product Overview



- | | |
|---------------------------------|--|
| (1) Adjustable sole plate | (5) 20V battery pack (sold separately) |
| (2) Quick change blade function | (6) Safety switch |
| (3) Orbital selection switch | (7) Soft grip handle |
| (4) Variable speed switch | (8) Adjustable sole plate locking switch |

5.2 Packaging

Keep the product packaging for the duration of the warranty period in case the product needs to be returned for repair.



WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.

20V interchangeable battery system - Please visit [drapertools.com](https://www.drapertools.com) for our full range of chargers, batteries, accessories and consumables.

Important: Before preparing or adjusting this product, read and understand all the safety instructions listed in this manual.

6.1 Battery Pack Charging (Fig.1 – Fig.2)

- This power tool is supplied 'Bare' without battery pack or charger.
- The battery used must be charged before initial use.

Important: Only use 20V designated battery packs and chargers with this tool. Use of any other third party battery packs/chargers with this product is considered misuse and will invalidate the product's warranty.

To charge the battery pack (5):



Fig. 1

1. First remove the battery (5) from the tool by pressing the battery release button (5.1). Then slide the battery pack off the tool.

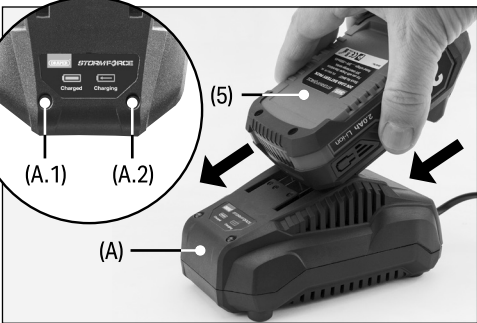


Fig. 2

2. Plug in the charger (A) and the green LED (A.1) light will illuminate.
3. Slide the battery into the charger (the battery is designed to fit into the charger one way only).

Status	Lights	
	Green (A.1)	Red (A.2)
Charger plugged in	ON	OFF
Battery charging	OFF	ON
Battery fully charged	ON	OFF
Battery/charger malfunctioning	OFF	Flickering

4. Once charging is complete, slide off the battery pack.

CAUTION! If the battery charger has been in continuous use it will be hot. Once charging has finished, leave the charger 15 minutes to cool before next use.

6.2 Battery Pack Charge Status – Fig.3

- To check the amount of charge left in the battery pack, press the charge level indicator button (5.2).

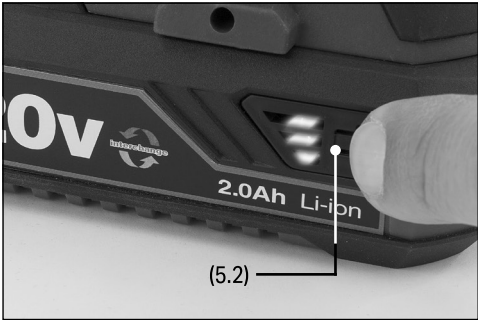
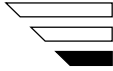


Fig. 3

Charge level indicator	Charge remaining
 GREEN ORANGE RED	75 – 100%
 ORANGE RED	25 – 50%
 RED	10 – 25%

7. Operating Instructions

Important: Before operating this product, read and understand all the safety instructions listed in this manual.

7.1 Switch and Variable Stroke Rate Control - Fig.4

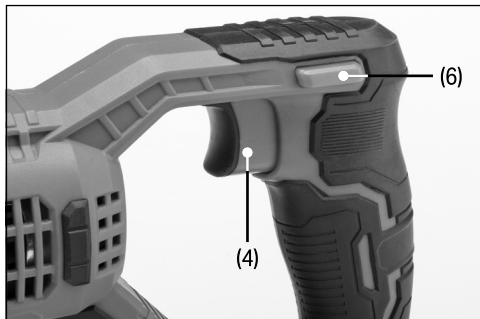


Fig. 4

- The reciprocating saw is equipped with a variable speed switch to turn the saw on and off, and to control the speed.
 - To start the saw, press in the safety switch (6) first, then press the variable speed switch (4).
 - To stop the saw, release the variable speed switch (4).
 - To vary the stroke rate, increase or decrease the pressure on the trigger switch.

7.2 Quick Change Blade Function – Fig.5

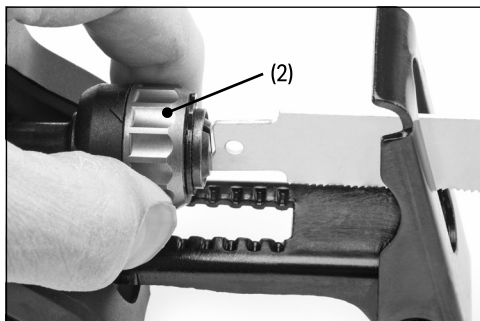


Fig. 5

- To release a blade turn the quick change blade knob (2) anticlockwise and pull the blade out.
- To install a blade, turn the knob a quarter turn anticlockwise and insert the blade, release the knob. Carefully pull on the blade to check that it is securely engaged.

7.3 Orbital Selection Switch – Fig.6

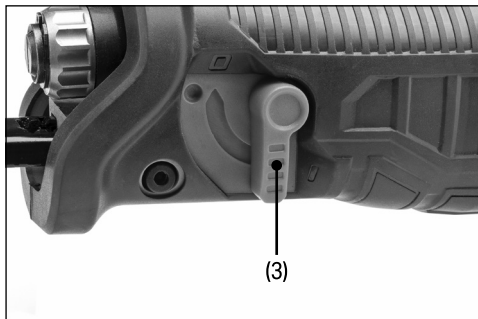


Fig. 6

- Orbital action makes the blade work in an elliptical motion (if viewed from the side), which in turn causes the tool to work harder and faster.
- Not recommended for accurate work, it is more suited to demolition tasks where the finish does not matter as much.

7.4 Adjustable Sole Plate Locking Switch – Fig.7

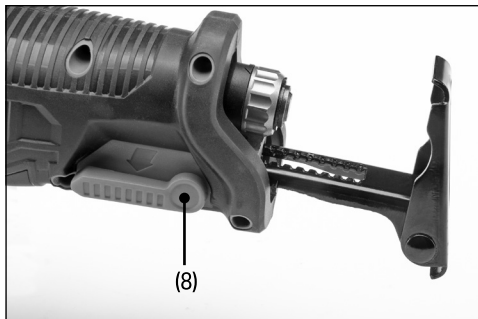


Fig. 7

- The sole plate can be adjusted to change the length of blade that projects from the front of the tool. This can be used where the cut needs to be adjusted to just a thin layer of material like cutting plasterboard without intruding into the wall cavity too far.
- To adjust, move the lever (8) in the direction of the arrow and then pull or push on the sole plate to move the mechanism.
- Once the desired position is reached, return the lever to its original position and verify the sole plate is locked by trying to move it back and forth.

7.5 Flush Cutting – Fig.8

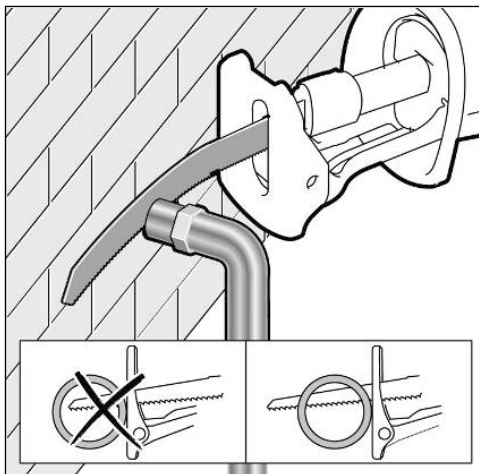


Fig. 8

- Use a flexible bimetal saw blade (not supplied) to saw, projecting items (i.e. water pipes, etc.) flush to the wall. Pay attention that the saw blade always extends beyond the diameter of the pipe being sawn. Danger of kickback.
- Position the saw blade sideways against the wall and apply some lateral pressure via the tool so the edge of the pivoting sole plate faces against the wall.
- Switch the tool on and make the cut, applying constant lateral pressure.

7.6 General Cutting



WARNING!

- Before use, always check to see that the trigger operates correctly and returns to the off position when released.
- When sawing into walls or floors you may encounter electrical wiring. Sawing into a 'live' wire will cause an electric shock. Always check with a metal/voltage detector that there are no hidden hazards such as electrical cables, water or gas pipes running below the surface.
- Ensure the workpiece is firmly anchored. Clamp the workpiece to prevent slipping or moving while cutting.
- Use the appropriate type and size of blade for the workpiece material and size.
- Check for clearance beyond the workpiece so the blade will not impact another surface.
- Mark the line of cut clearly. If cutting metal, apply cutting oil on the line.
- Press the trigger switch to start the saw and bring it to maximum desired cutting stroke rate before applying the blade to the workpiece.
- **DO NOT** force the tool. Place the sole plate firmly on the workpiece while cutting. Use only enough steady pressure on the blade to keep the saw cutting. Reduce pressure as the blade comes to the end of the cut.
- Cutting stroke rates should vary with the workpiece. Hard materials such as metals require lower stroke rates, for softer materials use higher stroke rates.
- Check wood, chipboards, building materials etc. for foreign objects (nails, screws, etc.) before sawing and remove them, if necessary.
- Position the pivoting sole plate onto the surface of the work and saw through the work applying uniform contact pressure of feed.
- If the saw blade jams, switch off the tool immediately. Widen the saw cut with a suitable tool and pull out the saw blade.

ALWAYS switch off and remove the battery pack from the tool before carrying out any cleaning, servicing or maintenance.

DO NOT use solvents or abrasives to clean the tool.

Keep the ventilation slots clean free from debris.

Store the tool in a safe dry area, out of the reach of children.

8.1 Troubleshooting

Problem	Possible Cause	Remedy
Blade does not locate.	Problem with blade retention.	Switch off remove the battery. Then remove blade, fully open retaining mechanism and re-insert blade.
	Swarf or debris in retaining mechanism.	Clean inside mechanism with cleaning fluid.
Motor does not start.	Battery not charged.	Check battery charge level and recharge if required.
	Battery fault or damaged.	Replace battery.
Motor runs slowly/losing power.	Battery not charged.	Check battery charge level and recharge if required.
	Battery fault or damaged.	Replace battery.
Battery pack not charging/no lights on charger or battery.	Charger plug fuse blown.	Check and replace fuse.
	Charger faulty.	Replace charger.
	Battery too hot.	Allow to cool before charging.
Red indicator light on charger flickering rapidly (0.2 second intervals).	Foreign object in charger's battery slot.	Unplug the charger and check and removing any foreign object/debris.
	Battery or charger malfunctioning.	Allow temperature of battery to normalise (5 to 30°c). If still faulty contact Draper Tools for advice.

9. Disposal

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

- **DO NOT** dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.



- **DO NOT** incinerate.

Battery Pack disposal



WARNING!

- **DO NOT** burn or mutilate batteries; this may release toxic or corrosive substances.



- **DO NOT** short circuit cells, may cause burns.
- The battery pack must be removed from the tool before it is scrapped and disposed of safely.
- **DO NOT** dispose of batteries in a charged condition.
- Expired batteries must be recycled/disposed of in accordance with the appropriate regulation or legislation. They should be returned to your local warranty agent/stockist.

10. Warranty

EN

24 months from date of purchase

Visit [drapertools.com/warranty](https://www.drapertools.com/warranty) for more information.

	Read the instruction manual		Continuous A-weighted sound power level
	Warning!		Lithium-ion product.
	Do not incinerate or throw onto fire		Class II construction (Double insulated)
	Wear face mask and safety glasses		WEEE – Waste Electrical & Electronic Equipment Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish
	Wear ear defenders		European conformity
	Wear protective gloves		UK Conformity Assessed
	Keep out of the reach of children		
	Direction of rotation		
	For indoor use only; do not expose to rain		
	Fuse protective device		
	Polarity indication		

Contact Details

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Please contact the Draper Tools Product Helpline for repair and servicing enquiries.