

EN

Original Instructions
Version 4 – May 2025



20V BRUSHLESS 1/4" HEX. **IMPACT DRIVER**

55375 & 86958



These are the original product instructions. This document is part of the product; retain it for the life of the product, passing it on to subsequent holders. Read this manual in full before attempting to assemble, operate or maintain this product.

This Draper Tools manual describes the purpose of the product and contains all the necessary information to ensure its correct and safe use. Following all the instructions and guidance in this manual will ensure the safety of both the product and the operator and increase the lifespan of the product.

All photographs and drawings within this manual are supplied by Draper Tools to help illustrate correct operation of the product.

Every effort has been made to ensure the information contained in this manual is accurate. However, Draper Tools reserves the right to amend this document without prior warning. Always use the latest version of the product manual.

1.1 Product Reference

User Manual for: 20V Brushless 1/4" Hex Impact Driver

Stock No: 55375 & 86958

Part No: D20ID180 & D20ID180SET

1.2 Revisions

Version 1: November 2018

First release

Version 2: January 2020

Version 3: October 2023

Version 4: May 2025

As our manuals are continually updated, always ensure that the latest version is used.

Please visit [drapertools.com/manuals](https://www.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.

1.4 Copyright © Notice

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3. Product Introduction

3.1 Intended Use

This brushless impact driver is designed for use with insert bits and sockets for fastening bolts and screws into materials requiring a high torque.

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.	55375 (Bare)	86958 (Kit)
Part No.	D20IB180	D20ID180SET
Speed (No Load)	0 – 2200rpm	0 – 2200rpm
Drive spindle	¼" Female Hex	¼" Female Hex
Maximum torque	180Nm	180Nm
Impact rate	0 – 3300bpm	0 – 3300bpm
Noise emissions		
Sound pressure level	74.98dB (A)	74.98dB (A)
Sound power level	85.98dB (A)	85.98dB (A)
Uncertainty	3dB (A)	3dB (A)
Vibrations	6.369m/s ²	6.369m/s ²
Uncertainty	1.5m/s ²	1.5m/s ²
Net weight (machine only)	1.1kg	1.1kg

Charger (55375 sold separately)

Part No.	D20BCS
Rated voltage	230V/50Hz
Rated DC output voltage	20V
Rated DC output current	2.4A
Protective device rated current	8A
Construction	Class II

Battery (55375 sold separately)

Part No.	D20B2.0AH
Type	Li-ion
Rated voltage	20V
Rating	2.0Ah

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.

4.1 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.

4. Health and Safety Information

- **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 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 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 Impact Drivers

- **Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord.**
 - Fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- Always be sure you have a firm footing.
- Ensure no one is below when using the tool in high locations.
- Hold the tool firmly.
- Wear ear protectors.
- **DO NOT** touch the bit or the workpiece immediately after operation. They may be extremely hot and could burn your skin.
- Keep hands away from rotating parts.
- 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

- 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

- 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.

4. Health and Safety Information

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 BS 1362 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

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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

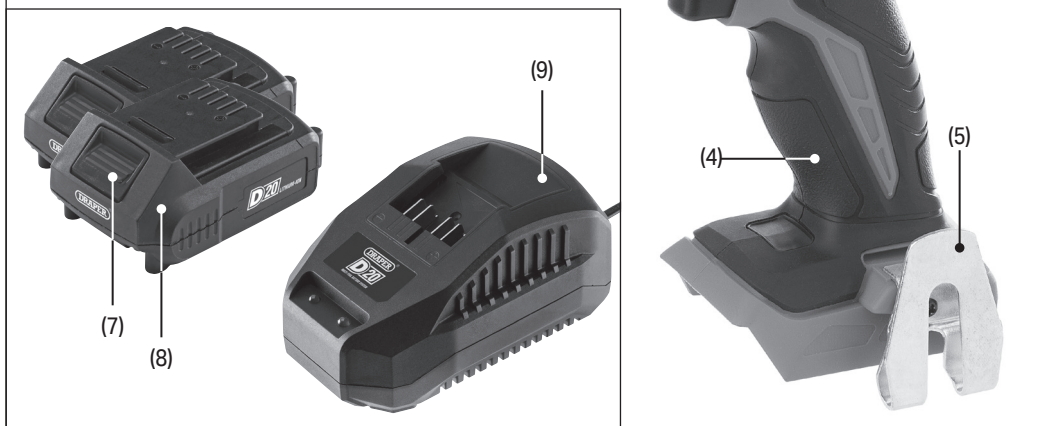
missing, do not attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.

5.1 Product Overview

- (1) Hex drive collet
- (2) LED worklight
- (3) Variable speed control
- (4) Soft grip
- (5) Belt clip
- (6) Forward/Reverse switch

86958 only

- (7) Battery pack release button
- (8) 2 x 2.0Ah Li-ion battery
- (9) D20 Battery charger



5.2 Packaging

Keep the product packaging for the duration of the warranty period for reference should the product need 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.

D20 multi-Tool interchangeable battery system –

Please visit drapertools.com for our full range of batteries, chargers, accessories and consumables.

6. Preparation Instructions

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

6.1 Battery Pack Charging

- This power tool is either supplied; **'Bare' (55375)** without battery pack or charger. **'Kit' (86958)** with charger and battery packs.
- The battery pack supplied must be charged before initial use.

Important: Only use D20 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.

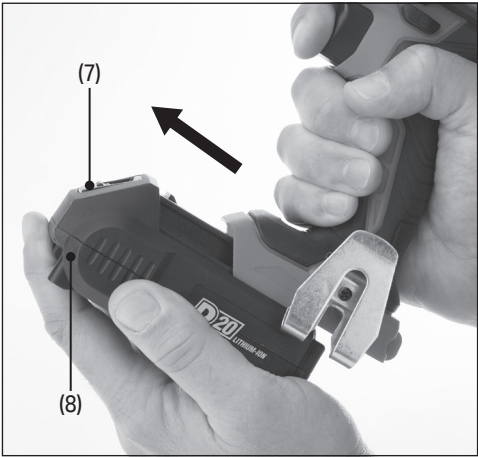


Fig. 1

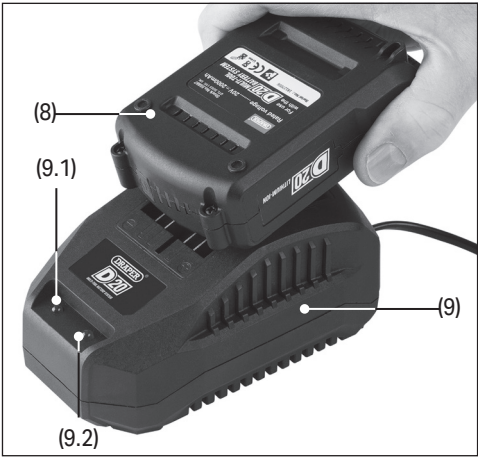


Fig. 2

To charge the battery pack (8):

1. First remove the battery from the tool by pressing the battery release button (7). Then slide the battery pack off the tool.
2. Plug in the charger (9) and the red LED (9.1) 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 (9.2)	Red (9.1)
Charger plugged in	OFF	ON
Battery charging started	OFF	Flashing
Battery charging	Flashing	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

Charge level indicator	Amount of charge remaining
	0 – 10%
	10 – 25%
	25 – 50%
	50 – 75%
	75– 100%

Fig. 4

- To check the amount of charge left in the battery pack, press the charge level indicator button (8.1).

6.3 Battery Pack Protection Features

- Overcharging protection:** This ensures that the battery pack can never be overcharged. When the battery pack reaches full charge capacity, the charger will automatically shut off, protecting the internal components from being damaged.
- Over-discharging protection:** This stops the battery pack from discharging beyond the recommended lowest safety voltage.
- Overheating protection:** The battery pack contains an internal thermistor cut-off sensor which shuts off the battery pack should it become too hot during operation. This can happen if the tool is overloaded or being used for extended periods. Up to 30 minutes cooling time may be required, depending on the ambient temperature.
- Current protection:** Should the battery be overloaded and the maximum current draw be exceeded, the battery will shut off to protect the internal components. The battery pack will resume working once excessive current draw has returned to normal, safe level.
- Short circuit protection:** If, for any reason, the battery pack was to short circuit, the short circuit protection would immediately stop the battery pack from operating.

7. Operating Instructions

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

Note:

- This tool is equipped with an electric brake.
- **NEVER** use any bits or accessories that are not hardened for impact use.
- If the fastening is heavily corroded, or extremely tight, it may be necessary to release the fixing by hand before continuing with the driver.

7.1 Installing and removing Bits

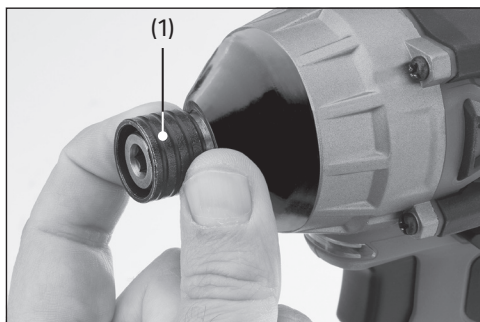


Fig. 5

- Hold and pull the Hex drive quick release collet (1) out. Insert the bit and release the collet.

7.2 Rotational Drive Selection

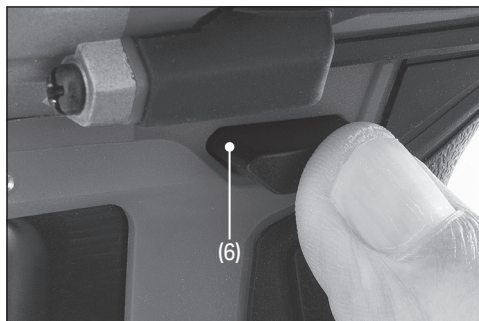


Fig. 6

- The forward/reverse drive selector switch (6) determines the direction of rotation of the drive.

To change the direction of rotation:

1. Stop the tool and push the switch (6) either to the left or right.

Left – the drive will rotate clockwise.

Right – the drive will rotate anticlockwise.

2. Before operation, check that the switch is set in the required position. **DO NOT** change the direction of rotation until the driver comes to a complete stop.
3. When the driver is not in use move the direction switch to the neutral position (the middle setting) to lock the trigger.

Note: Failure to use the neutral position may activate the trigger inadvertently causing damage to the driver.

7.3 Variable Speed Trigger

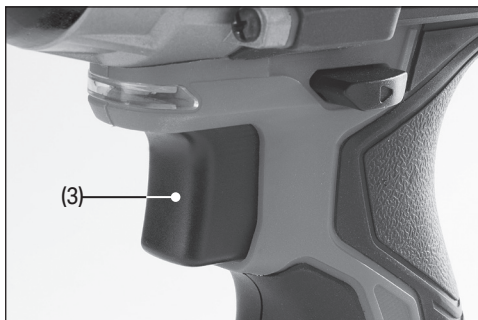


Fig. 7

- Press and hold the trigger (3) to start the driver.
- The speed will increase depending on how far the trigger is pressed in.

7.4 Belt Clip



Fig. 8

- The belt clip (5) is convenient for hanging the drill temporarily. The clip can be fitted on either side of the tool.

To fit the clip:

- Locate the clip (5) in position and fasten with the screw supplied, take care to not overtighten and strip the thread.

7.5 Worklight



Fig. 9

- Use in confined and poorly lit spaces.
- The light (2) will come on automatically when the trigger is pressed.

8. Maintenance and Troubleshooting

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
Motor does not start.	Battery not charged.	Check battery charge level and recharge if required.
	Battery fault or damaged.	Replace battery.
Mot 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.



36 months extended warranty registration required -
Visit drapertools.com/warranty for more information.

11. Explanation of Symbols



Read the instruction manual



Warning!



Do not incinerate or throw onto fire



Do not abandon in the environment



Wear face mask and safety glasses



Wear ear defenders



Wear protective gloves



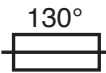
Keep out of the reach of children



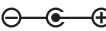
Direction of rotation



For indoor use only;
do not expose to rain



Fuse protective device



Polarity indication



Class II construction
(Double insulated)



Li-ion

Lithium-ion product



WEEE –
Waste Electrical & Electronic Equipment

Do not dispose of Waste Electrical & Electronic Equipment
in with domestic rubbish



European conformity



UK Conformity Assessed

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