

DRAPER[®]
Expert

EN

Original Instructions
Version 3 – June 2023

230V 7KG

SDS MAX BREAKER

81077



UK
CA CE

1. Preface

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: Draper Expert 230V SDS Max Breaker, 7kg, 1,050W

Stock No: 81077

Part No: PHD1050MAX

1.2 Revisions

Version 1: July 2018
First release

Version 2: August 2022
Product marking updates

Version 3: June 2023
General content and formatting updates
Expansion of gearbox care instructions

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

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 Scope

This product is designed for breaking masonry materials, including brick, concrete, blockwork, hard earth and stone.

 **WARNING! DO NOT use this product to chisel into materials such as wood, metals and plastics.**

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

Part of our Expert range, this product is intended for frequent trade use, with the quality and features to meet and exceed expectations of the most demanding user.


 **WARNING! This product is not a toy and must be respected.**

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.	81077
Part No.	PHD1050MAX
Rated voltage	220-240V AC
Rated frequency	50Hz
Rated input	1,050W
Impact force	25J
Impact rate	4,300bpm
Chuck type	SDS MAX
Noise emissions	
Sound pressure level	92dB(A)
Sound power level	105dB(A)
Uncertainty	3dB(A)
Vibration levels (chiselling)	
Main handle	17.44m/s ²
Auxiliary handle	10.92m/s ²
Uncertainty	1.5m/s ²
Appliance Class	Class II
Net Weight (bare)	7.3kg

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 mode selected and the workpiece 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.**

Important: Read all the Health and Safety instructions before attempting to adjust, operate, maintain or repair this product.

4.1 General Power Tool Safety Warnings



WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions 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 and/or battery pack, 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

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 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.

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.

Hammer safety warnings

- Wear ear protectors.
 - Exposure to noise can cause hearing loss.
- Use auxiliary handle(s) if supplied with the tool.
 - Loss of control can cause personal injury.
- Hold the power tool by the 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.

4.2 Additional Safety Information for This Breaker



CAUTION! This product is NOT suitable for drilling operations or as a pry bar. DO NOT install a drill bit into the chuck.

- 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.
- 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.
- There is a risk that toxic or harmful materials may be released into the atmosphere from the work surface during operation.
 - Wear appropriate eye protection and ventilation equipment and consult the material supplier's safety guidelines.
- This tool exerts a high level of force during use.
 - Brace yourself appropriately for the impact force of the breaker and maintain a stable and balanced stance during operation.
- Ensure that the bit is secure before and never point the tool towards anything other than the intended workpiece.
 - If not properly secured, the bit may be ejected from the chuck during operation and cause injury.

- Do not touch the following areas of the tool during or immediately after use as they may be hot and cause burns:
 - The chisel bit and its surrounding parts
 - The gearbox access cover and its surrounding parts
- This tool vibrates heavily during operation.
 - Check the tightness of all assembly and housing screws before each operation to ensure that no part of the tool has become loose.
 - Wear thick, padded gloves during use to reduce exposure to vibrations and take frequent breaks.
- Do not overfill the gearbox with lubricant.
 - There must be a suitable air pocket in the gearbox to allow the lubricant to expand during use.
- Do not modify this breaker in any way and use only spare parts supplied by Draper Tools.

4.3 Connection to the Power Supply


This appliance is supplied with an approved plug and cable 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 cable, shall be disabled to prevent connection to a live electrical outlet.

This product 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, ensure the substitute is of the correct rating, approved to BS 1363/A and ASTA or BS Kite marked. This should only be performed by suitably qualified personnel.

ASTA 

BSI 

The fuse cover can be removed by using a small plain slot screwdriver.

If an extension lead is required, use an approved and compatible lead rated for this appliance. This product requires an extension lead with a 2.5mm² three-core cable. Follow all the instructions supplied with the extension lead.

Important: Always follow the extension lead instructions regarding maximum load while the cable is wound. If in doubt, unwind the entire cable. A coiled extension lead generates heat which could melt the lead and cause a fire.

†Double insulated: This product is double insulated and does not require an earth connection to protect against electric shock from accessible conductive parts should the basic insulation fail.

4.4 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

5.1 Product Overview



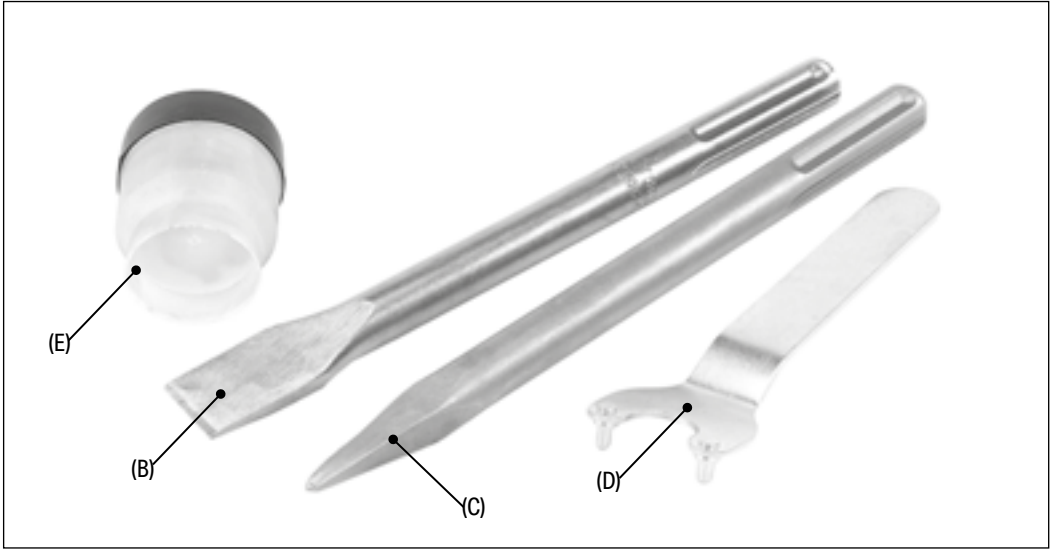
- | | |
|--------------------------|------------------------|
| (1) Auxiliary handle | (6) SDS MAX chuck |
| (2) Dust protection cap | (7) Switch lock button |
| (3) Gearbox access cover | (8) Trigger switch |
| (4) Main handle | |
| (5) Power cable and plug | |

5. Identification and Unpacking

5.2 What's in the Box?

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment.

Before assembling the product, lay the contents out and check them against the parts shown below. 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.



- (A) 1 × Breaker (*not shown*)
- (B) 1 × Ø18mm × 280mm SDS MAX flat chisel bit
- (C) 1 × Ø18mm × 280mm SDS MAX pointed chisel bit

- (D) 1 × Two-pin spanner
- (E) 1 × Grease pot

5.3 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.

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

6. Preparation Instructions

Important: Read and understand all the safety instructions listed in this manual before making any adjustments to this product. **ALWAYS** ensure that the drill is switched off and disconnected from mains power before making any adjustments to the tool.

6.1 Positioning the Auxiliary Handle

! **WARNING! NEVER operate the drill without the auxiliary handle installed.**

To adjust the position of the auxiliary handle (1), twist the auxiliary handle grip anticlockwise to loosen the clamp. Rotate the handle to the desired position and twist it clockwise to secure it.

1. To remove the auxiliary handle:
 - a. Twist the auxiliary handle grip (1) anticlockwise until it detaches from the bolt.

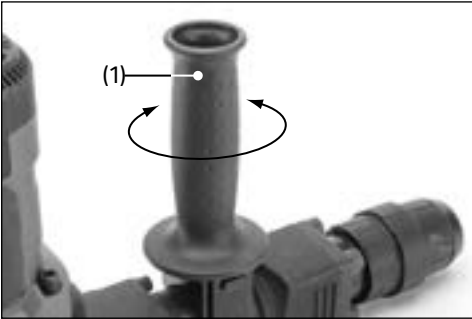


Fig. 1

- b. Slide the lower bracket (10) and washers off the bolt.

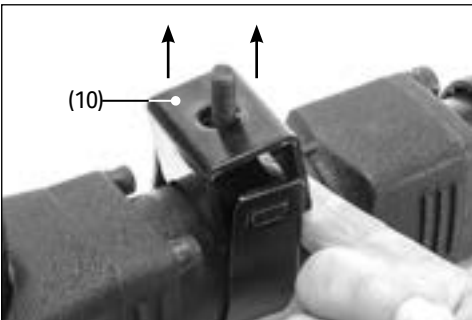


Fig. 2

- c. Manoeuvre the locking bar (11) out of the U-bracket (12) and remove the U-bracket from the tool shaft.

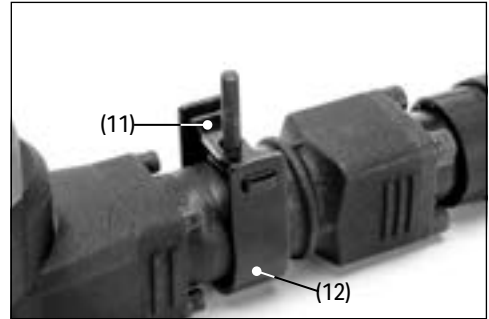


Fig. 3

2. To install the auxiliary handle:
 - a. Slide the U-bracket onto the tool shaft and insert the locking bar.
Important: Pass the bolt through the locking bar before inserting it into the U-bracket.
 - b. Place the lower bracket onto the bolt so that the curved edges are seated against the tool shaft.
 - c. Place the two washers onto the bolt and twist the auxiliary handle clockwise onto the bolt.
 - d. Position the auxiliary handle as required and tighten it securely.




Fig. 4

Important: The auxiliary handle should **ONLY** be removed for maintenance purposes. **ALWAYS** ensure that the handle is installed before connecting the drill to the power supply.

6.2 Inserting and Removing Bits

The keyless chuck accommodates SDS MAX drill bits and chisels (Ø18mm).

 **WARNING!** If the tool has been recently used, **ALWAYS** ensure that the installed bit has sufficiently cooled before attempting to remove it.

Important: **ALWAYS** clean and lightly grease the bit shank before inserting it into the tool. During periods of extended use, take regular breaks, allow the bit to cool and reapply the lubricant. When removing the bit, **ALWAYS** clean shank of any grease to prevent dust and debris from accumulating.

Important: Before **EVERY** use, ensure that the rubber dust protection cap (2) is not damaged in any way. Dust or dirt in the chuck or clamp can obstruct the mechanism and cause damage or injury.

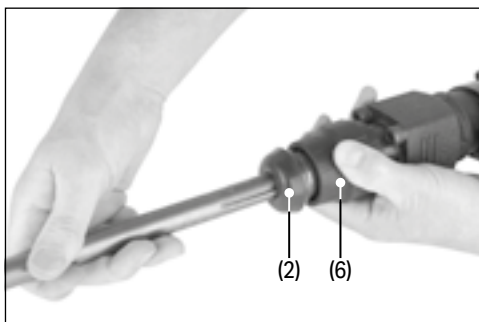


Fig. 5

To install and remove a bit:

1. Pull back the chuck collar (6).
2. Insert the bit shank into the chuck.
Important: The bit cannot be inserted unless it is correctly aligned with the ball bearings inside the chuck. Rotate the bit shank until it can slide fully into the chuck.
3. Release the collar back into place and test that the bit cannot be removed.
Important: The bit will slide a limited amount once installed; this is normal.
4. To remove the bit, pull the collar back and slide the bit out of the chuck.

6.3 Checking the Work Surface



WARNING! Before beginning any chiselling operation, carefully check the work surface for the presence of hidden electric cables, gas and water pipes and any other dangerous or damaging objects in its interior that may cause an obstruction. If you are unsure, **DO NOT** continue with the operation.

7. Operating Instructions

Important: Before attempting to use this product, read and understand all the safety information and instructions listed in this manual. Ensure that the operation will not interfere or coincide with dangerous or damaging objects hidden within the workpiece.

In cold weather or after extended periods of disuse, operate the tool with no load for a brief period before operating on the workpiece. This loosens the lubrication and prevents damage to the internal mechanisms.

Important: The lower the temperature or the longer the period of disuse, the longer the tool must be operated before the lubricant has warmed sufficiently.

7.1 Holding the Tool

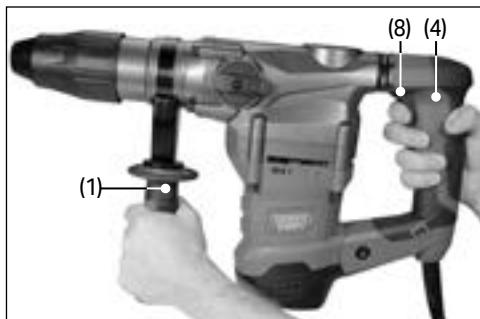


Fig. 6
Hold the drill securely with your dominant hand around the main handle (4) and the other around the auxiliary handle (1). This will help to brace against the rotation action.

Important: Your grip on the auxiliary handle should serve as additional support and a guide **ONLY**. **DO NOT** use the auxiliary handle to provide additional pressure against the workpiece.

WARNING! NEVER operate the tool without holding both the main and auxiliary handles. Loss of control of the tool can result in serious injury.

CAUTION! DO NOT cover any vents or openings on the tool and keep your hands away from moving parts during operation.

7.2 The Trigger Switch

The tool must be connected to an active power supply before use.

To operate the tool, press and hold the trigger switch (8). Release the trigger switch to stop the tool. The trigger switch is **NOT** pressure-sensitive and is either on or off.

Important: When the trigger switch is released, the tool will continue to operate for a moment as the mechanism slows down.

During extended use, the trigger switch can be locked into the **ON** position. This enables the tool to continue operating without the need to apply pressure to the trigger.

To lock the tool on, squeeze the trigger switch and press the switch lock button (7). The trigger switch will remain in the on position until it is manually released.

To release the trigger switch when locked, squeeze and release the trigger.

WARNING! NEVER let go of the tool or leave it unattended when the trigger switch is locked in the **ON** position. Maintain a firm grip on the tool at all times during operation.



Fig. 7

7.3 Dust Emissions

Drilling operations may produce large amounts of dust from the workpiece; **ALWAYS** wear a suitable dust mask and eye protection during operation and use appropriate dust collection equipment while working.

A dust mask rated at least FFP2 should be worn for operations involving exposure to fine dust.

7.4 Appropriate Materials

Important: This product is intended for work with masonry **ONLY**, including, brickwork, blockwork, concrete, hard earth and stone. It is **NOT** suitable for chiselling into wood, metal or plastic; other more suitable tools that afford a greater level of control are available.

7.5 Using the Tool

DO NOT force the bit into position; allow the breaker to do the work. Allowing the tool to guide itself will result in more efficient working and reduce the risk of snagging and damage to the bit.

DO NOT apply excessive pressure against the workpiece. Your grip on the tool should act as a support and a guide **ONLY**.

- Hold the tool firmly with both hands. Switch on and apply light pressure to reduce the bit jumping around.
 - Applying heavy pressure does not improve the performance and is likely to cause damage.



CAUTION! If the bit gets struck in the working surface do not try and lever or pull out. This will damage the tool. Break the surrounding material and then remove.

8. Maintenance and Troubleshooting

Important: Read and understand all the health and safety information before attempting to maintain or repair this product.

WARNING! ALWAYS ensure that the tool is switched off, disconnected from the power supply and that the bit has cooled before performing any maintenance or adjustment to this product.

Other than gearbox care, any servicing on the product should be carried out by authorised service agents **ONLY**.

8.1 General Maintenance

- Keep the tool body, chuck and bits clean and free from dust and debris.

Clean the tool body with a damp cloth **ONLY**.

Important: **DO NOT** allow moisture to pass inside the tool.

- Clean the chuck and dust cover with a dry cloth **ONLY** to prevent dust clogging in and around the opening.
- Clean the bits with a damp cloth and lightly grease the shaft before inserting it into the chuck.

CAUTION! **DO NOT** use solvents or other aggressive chemicals to clean the tool as it may damage plastic or insulated parts.

- Keep all air vents and openings free from dust and debris.
- Keep the bits sharp to reduce the workload of the tool.
- Store the tool in a clean and dry location, out of reach of children.

8.2 Gearbox Care

This product includes a greased gearbox. The grease should be changed at the same time that the carbon brushes are replaced to ensure that the gearbox remains well-lubricated. Loss of impact pressure may also indicate that the gearbox requires re-greasing. General lithium-based grease, such as the grease pot (E) supplied, should be used.

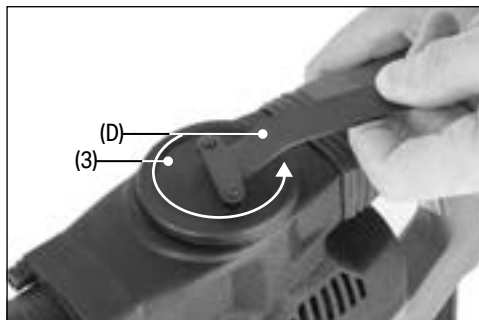


Fig. 8

1. Disconnect the power supply and ensure that the tool is completely cool.

WARNING! The area around the gearbox and its contents become hot during use. **ALWAYS** ensure that the tool has cooled thoroughly before maintaining the gearbox.

2. Use the two-pin spanner (D) to remove the gearbox access cover (3) by rotating it anticlockwise.
3. Carefully wipe out the old lubricant and apply no more than 30g of fresh lithium-based grease.

WARNING! **DO NOT** overpack the gearbox with grease. Overfilling may cause the tool to fail, overheat, or deliver reduced performance.

4. Replace the gearbox access cover and tighten it securely.

Important: **DO NOT** overtighten or apply excessive force to the gearbox cover as this may damage the cover thread. If the cover shows any signs of damage or wear, **DO NOT** use the tool until it has been replaced.

WARNING! **DO NOT** use grease aerosols with this product.

8.3 Troubleshooting

Problem	Possible cause	Remedy
The motor does not start when the trigger is squeezed.	The tool is not connected to an active power supply.	Check the mains power connection.
	The fuse has blown.	Check the fuse in the plug and replace if necessary. If the on-board fuse has blown, contact Draper Tools for support.
	The mode selector is not locked into an appropriate position.	Disconnect the mains power and adjust the position of the mode selector if necessary.
	The motor brushes are worn or binding.	Replace the motor brushes; contact Draper Tools for support.
Significant sparking can be seen through the air vents.	The motor brushes are worn.	Replace the motor brushes; contact Draper Tools for support. DO NOT continue to use the tool.
The drill emits a strong smell during first use or after replacing the motor brushes.	The motor brushes are being worn in.	This is normal; no action is required.

If the issue cannot be resolved, contact Draper Tools for details of your nearest authorised repair agent.

9. Spares, Returns and Disposal

For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

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.

Dispose of grease and other lubricants separately and in accordance with local regulations; **DO NOT** abandon them in the environment.



Draper Tools products are carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, return the complete tool to your nearest distributor or contact Draper Tools directly. Contact information can be found at the back of this manual.

Proof of purchase must be provided.

If, upon inspection, it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This warranty period covers parts and labour for 24 months from the date of purchase. Where tools have been hired out, the warranty period covers 90 days from the date of purchase.

This warranty does not apply to any consumable parts, batteries or normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper Tools repair agent.

FREE



Draper Tools Limited takes pride in the quality of its products and the services offered to our valued customers. As a result, we offer a free 3 year extended warranty for this product.

In all cases, to make a claim for faulty workmanship or materials within the standard warranty period, please contact or return the product to the place of purchase. Proof of purchase may be required.

If the place of purchase is no longer trading or if you experience any difficulties with your warranty, please contact Customer Services with the product details and your proof of purchase. Contact details can be found at the back of this manual.

If the tool is not covered by the terms of this warranty, repairs and carriage charges will be quoted and charged accordingly.

This warranty supersedes any other guarantees expressed or implied and variations of its terms are not authorised.

Your Draper Tools guarantee is not effective until you can produce, upon request, a dated receipt or invoice to verify your purchase within the guarantee period.

Please note that this warranty is an additional benefit and does not affect your statutory rights.

By registering your product, you will automatically become a Draper Club Member with the option to receive updates about our new products, offers, deals, competitions and more.

If you are unable to register online, please call our Customer Helpline. Full registration must be completed within 30 days from receipt of purchase. The 3 year extended warranty only applies to the original product purchased from an authorised Draper Tools stockist by permanent UK residents for use in their appropriate profession/trade. This warranty is not valid to purchasers reselling or hiring the product. This warranty is not transferable and is only available to the original product purchaser who has completed their registration and is a Draper Club Member. The 3 year extended warranty period starts from the date of purchase and is not extended by any inspection, repair or replacement.

Draper Tools Limited

11. Explanation of Symbols



Read the instruction manual



Warning!



Do not abandon in the environment



Wear suitable goggles and breathing protection



Wear suitable ear defenders



Wear protective gloves



Wear protective footwear



Rated input



Revolutions per minute (no load)



Impact force



Slotted drive shaft (Ø18mm)



Net weight



Class II construction
(Double insulated)



WEEE-

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



European conformity



UK Conformity Assessed

Contact Details

Draper Tools

Draper Tools Limited
Hursley Road
Chandler's Ford
Eastleigh
Hampshire
SO53 1YF
UK

Website: drapertools.com

Email: sales@drapertools.com

Product Helpline: +44 (0) 23 8049 4344

Telephone Sales Desk: +44 (0) 23 8049 4333

General Enquiries: +44 (0) 23 8026 6355

General Fax: +44 (0) 23 8026 0784

Delta International

Delta International BV
Oude Graaf 8
6002 NL
Weert
Netherlands

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