

EN

Original Instructions
Version 3

DRAPER[®]

STORMFORCE

230V 480W

MINI PLUNGE SAW

57475



**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: 230V 480W Mini Plunge Saw

Stock No: 57475

Part No: MPSAW480SF

1.2 Revisions

Version 1: January 2019
First release

Version 2: January 2021

Version 3: September 2024

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

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 plunge saw is designed for sawing sheets of wood and cutting aluminium, mild steel and tiles. Fitted with a laser to allow for more accurate sawing operations.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts

no responsibility for improper use of this product.

This product is intended for domestic and infrequent light-duty trade use. 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.	57475
Part No.	MPSAW480SF
Rated Voltage:	230V/50Hz
Rated Input:	480W
Saw Blade:	
Diameter:	85mm
Bore Diameter:	10mm
Maximum Cut Depth at 90°:	
Aluminium:	3mm
Tile/Ceramics:	8mm
Wood:	27mm
Revolutions per minute (no load):	3,500rpm
Laser:	
Type:	Class 2
Output Power:	1mW
Wavelength:	650nm
Batteries:	2 X 1.5V LR44 alkaline button cells (supplied fitted)
Noise emissions:	
Sound Pressure Level (LpA):	87.1dB (A)
Sound Power Level (LWA):	98.1dB (A)
Uncertainty (K):	3dB (A)
Vibration Level:	
Cutting Wood:	3.145m/S ²
Cutting Metal:	3.356m/S ²
Net weight (machine only):	1.9kg

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 Health and Safety Precautions



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.

4.2 Safety Instructions for all Saws



DANGER! Keep hands away from the cutting area and the blade.

- If both hands are holding the saw, they cannot be cut by the 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 the workpiece in your hand or across your leg while cutting. Secure the workpiece to a stable platform.**
 - It is important to support the workpiece properly to minimise body exposure, blade binding or loss of control.
- **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting tool may contact hidden wiring or its own cord.**
 - Contact with a 'live' wire will also make exposed metal parts of the power tool 'live' and could give the operator an electric shock.
- **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 V round) of arbour holes.**
 - Blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.
- **NEVER use damaged or incorrect blade washers or bolts.**
 - The blade washers and bolts were specially designed for your saw, for optimum performance and safety of operation.

4.3 Kickback Causes and Related Warnings

- **Kickback Causes**
 - Kickback is a sudden reaction to a pinched, jammed or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece towards the operator.
 - When the blade is pinched or jammed tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back towards 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 towards the operator.
- **Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:**
 - **Maintain a firm grip on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, 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 workpiece or pull the saw backwards while the blade is in motion or kickback may occur.** Investigate and take corrective action to eliminate the cause of blade binding.
 - **When restarting a saw in the workpiece, centre the saw blade in the kerf so that the saw teeth are not engaged into the material.** If a saw blade binds it may walk up or kickback from the workpiece as the saw is restarted.
 - **Support large panels to minimise 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 the 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.

4.4 Guard Function Safety Warnings for Plunge Saws

- **Check the guard for proper closing before each use. DO NOT operate the saw if the guard does not move freely and enclose the blade instantly. NEVER clamp or tie the guard so that the blade is exposed.**
 - If the saw is accidentally dropped, the guard may be bent. Check to make sure that the guard moves freely and does not touch the blade or any other part, in all angles and depth of cut.
- **Check the operation and condition of the guard return spring. If the guard and the spring are not operating properly, they must be serviced before use.**
 - The guard may operate sluggishly due to damaged parts, gummy deposits or a build up of debris.
- **Assure the base plate of the saw will not shift while performing a 'plunge cut.'**
 - Blade shifting sideways will cause binding and likely kick back.
- **ALWAYS observe that the guard is covering the blade before placing the saw down on a 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 the switch is released.

4.5 Additional Health & Safety Warnings for Saw Blades

- Only use a saw blade with the diameter that is marked on the tool or specified in the manual.
- The maximum speed marked on the tool must not be exceeded.
- Only use saw blades that are marked with a speed equal or higher than the speed marked on the tool.
- Only use saw blades that are recommended by Draper Tools and that are suitable for the material being cut.
- **DO NOT** repair saw blades which are cracked or damaged, they should be scrapped.

- **DO NOT** use abrasive wheels
- **DO NOT** use composite (tipped) saw blades where the tip dimension is reduced to less than 1mm.
- **NEVER** use loose rings or bushes to 'make up' the bore sizes on the saw blades.

4.6 Health & Safety Instructions for Lasers



WARNING! Class II Laser product. DO NOT STARE INTO THE BEAM.

- Viewing the laser output with certain optical instruments (for example: eye loupes, magnifier and microscopes) with a distance of 100mm may pose an eye hazard.
- Viewing the laser output with certain optical instruments designed for use at a distance (for example: telescopes and binoculars) may pose an eye hazard.



CAUTION! Use of controls or adjustments or performing procedures other than specified may result in hazardous radiation exposure.

- **NEVER** direct the beam towards a person's eyes.
- Avoid positioning the laser such that it may lead to unintentional eye exposure to any potential pedestrians/traffic.
- **DO NOT** direct the beam towards animals.
- **DO NOT** use in the vicinity of children.
- **DO NOT** direct the beam onto reflective surfaces.
- **ALWAYS** switch off when not in use and do not leave unattended.
- Remove the batteries from the laser before storing the tool.
- This laser product has no serviceable parts. **DO NOT** attempt to disassemble or repair.

4.7 Battery Button Health & Safety



BATTERY WARNING! KEEP OUT OF REACH OF CHILDREN

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed in any part of the body, seek immediate medical attention.

Battery swallowed - No obvious symptoms

- Unfortunately, it is not obvious and there are no specific symptoms when a button or coin battery is stuck in a child's oesophagus (food pipe).
 - The child might: cough, gag or drool alot;
 - appear to have a stomach upset or virus;
 - be sick;
 - point to their throat or stomach;
 - have a pain in their abdomen, chest or throat;
 - be tired or lethargic;
 - be quieter or more clingy than usual or 'not themselves';
 - loss of appetite or reduced appetite; and
 - not wanting to eat solid food/be unable to eat solid food.
- These sorts of symptoms will vary or fluctuate, as the pain increases or subsides.
- A specific symptom to button or coin battery ingestion is vomiting fresh bright red blood. If the child does this seek immediate medical help.
- The lack of clear symptoms is why it is important to be vigilant with 'flat' or spare button or coin batteries in the home and the product that contains them.

4.8 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.

4.9 Connection to the Power Supply

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 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 

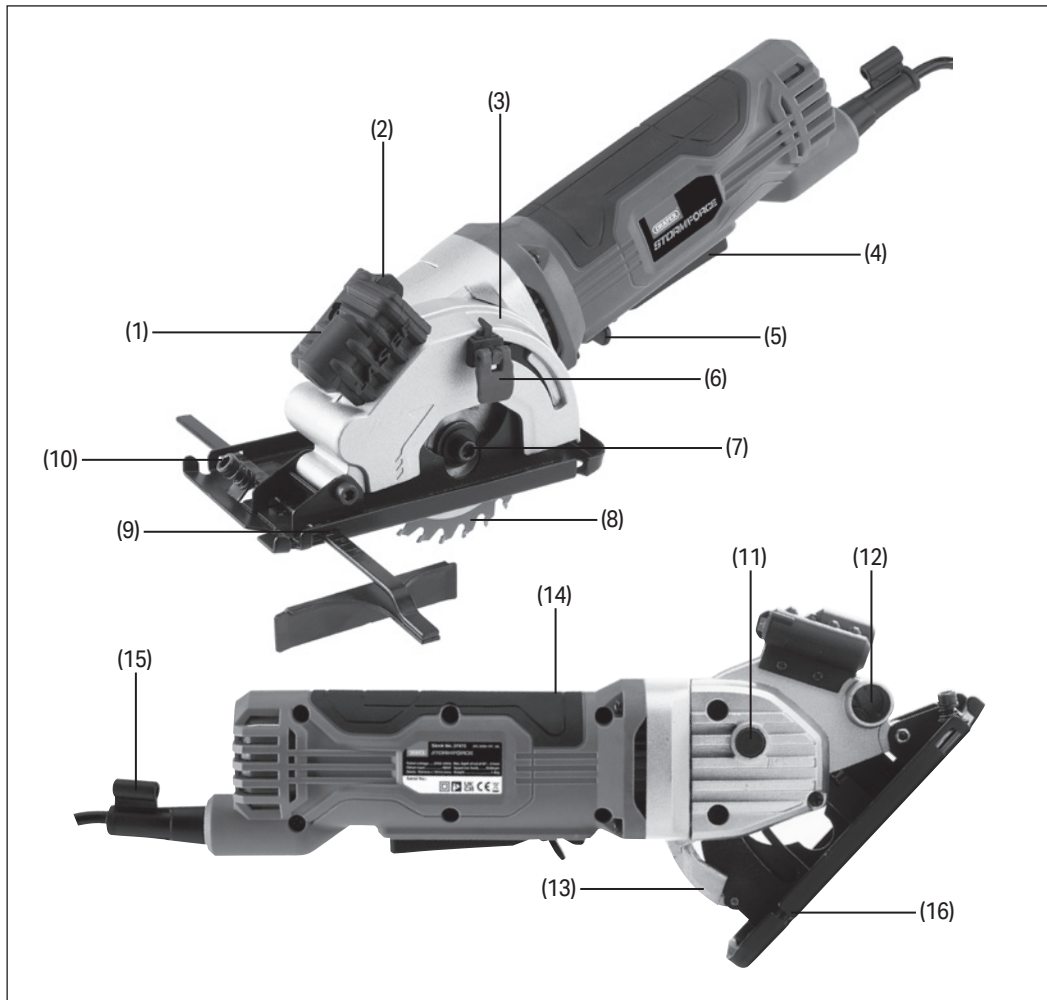
The fuse cover can be removed by using a small plain slot screwdriver.

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

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

5.1 Product Overview



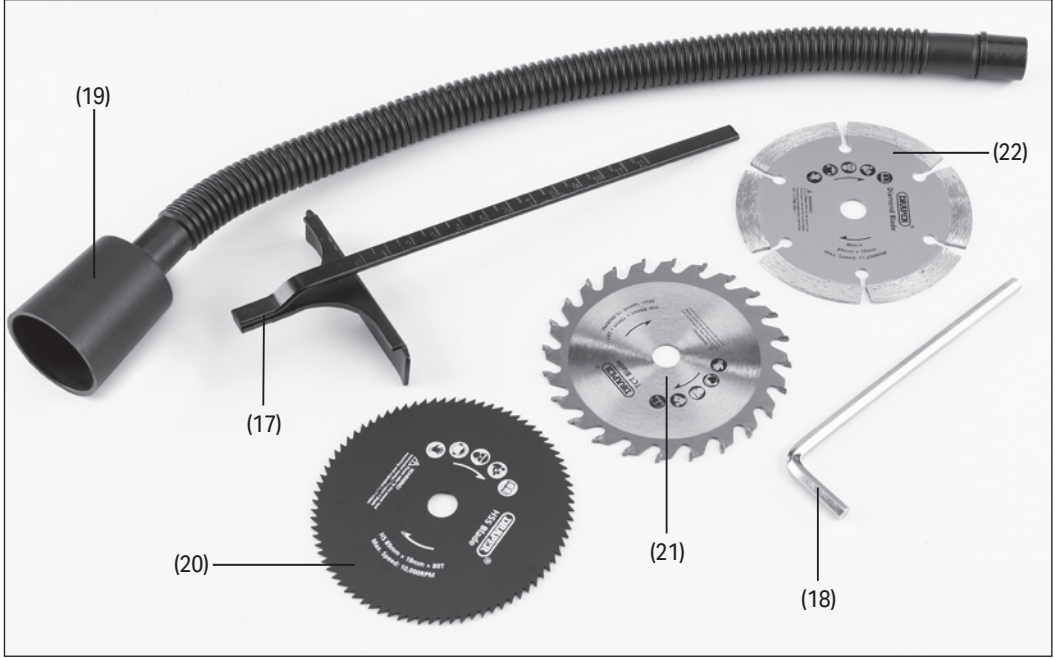
- | | |
|-------------------------------------|-----------------------------------|
| (1) Laser guide | (9) Parallel guide slot |
| (2) Laser ON/OFF switch | (10) Parallel guide locking screw |
| (3) Cutting depth gauge | (11) Spindle lock button |
| (4) Safety ON/OFF trigger | (12) Dust extraction outlet |
| (5) Lock off lever | (13) Plunge guard lock |
| (6) Cutting depth adjustment & lock | (14) Soft grip |
| (7) Saw blade locking flange bolt | (15) Power cord and plug |
| (8) Saw blade | (16) Base plate |

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.



- (17) Parallel guide
- (18) Hex key
- (19) Dust extraction hose

Saw Blades

- (20) 1 X HSS (For brass, copper, lead and aluminium and mild steel)
- (21) 1 X TCT wood (For softwood, hardwoods and all board types)
- (22) 1 X Diamond (For ceramics, tiles and slate)

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

5.3 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.

6. Preparation Instructions

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

6.1 Setting the Cutting Depth (Fig.1)

Important: It is recommended that the cutting depth is set to approximately 2mm deeper than the thickness of the material being cut to ensure a cleaner cut.

1. Release the cutting adjustment locking lever (6).
2. Use the cutting depth gauge (3) to set the required cutting depth. Then re-clamp the locking lever.

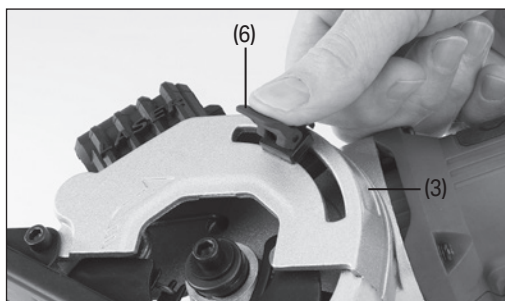


Fig. 1

6.2 Changing the Saw Blade (Fig. 2- Fig.4)

⚠ WARNING! Incorrect positioning of the saw blade can permanently damage the plunge saw.

1. **Ensure the saw is unplugged from the mains supply before changing the blade.**
2. Press and hold the spindle lock button (11) and release the locking flange bolt (7) by turning clockwise using the hex key supplied (18). Remove the bolt. Fig.2 & Fig.3.
3. Set the cutting depth to the maximum – refer to section 6.1.
4. Release the plunge guard by pressing the plunge guard lock (13) and pushing the base plate (16) up to expose the saw blade. Fig.4.
5. Remove the fitted saw blade.
6. Install the new blade in the reverse order.
7. Press the spindle lock button (11) until it engages. Then replace the saw blade locking bolt (7) and tighten.

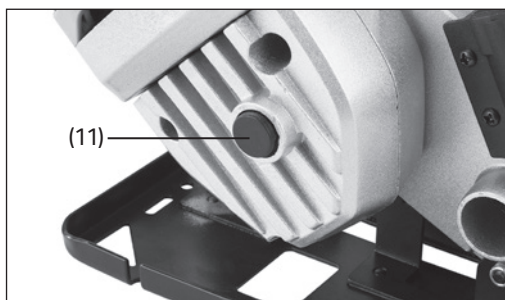


Fig. 2

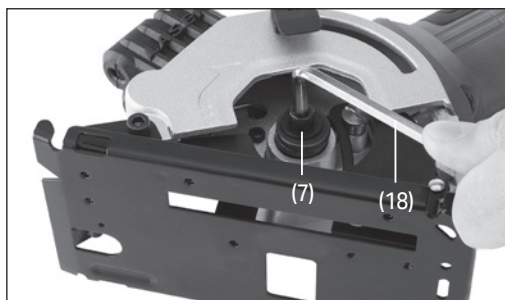


Fig. 3

Note: the directional arrow on the saw blade must match the rotational direction arrow on the tool.

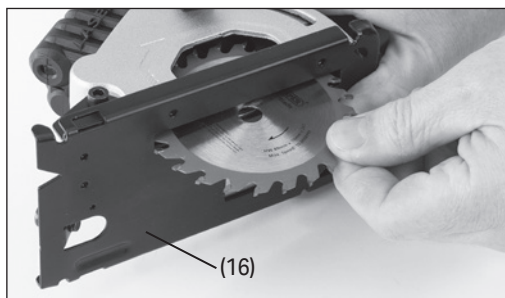


Fig. 4

7. Operating Instructions

Important: Before operating this tool, read and understand all the safety instructions listed in this manual. Ensure that the product is fully assembled and correctly prepared for use.

7.1 Switching on the Plunge Saw

(Fig.5 – Fig.6)



WARNING! Before switching the saw on, check that the saw blade is fitted correctly and the saw blade locking flange bolt (7) is securely tightened.

1. Press and hold the lock off lever (5) on and then at the same time depress the 'ON/OFF' trigger (4).
- When the lock off lever is released the saw will continue to run but the guard will be locked in place. This allows the cut to be lined up before releasing the plunge guard to commence cutting.
- When the 'ON/OFF' trigger is released the tool will automatically switch off.



WARNING! The saw blade will continue to rotate for a few moments after the tool is switched off.



WARNING! Always cut in a forward direction. NEVER draw the tool backwards.

7.2 Releasing the Plunge Stop (Fig.7)

- Press the lock off lever (5) down and hold.
- **Note:** Pressing the lock off lever unlocks the plunge cutting mechanism so that the motor can be moved downwards.

7.3 Setting the Parallel Guide (Fig.8)

1. Release the parallel guide locking screw (10) on the base plate.
2. Then locate the parallel guide into the guide slot (9).
3. Set the require width and then retighten the locking screw (10).



Fig. 5



Fig. 6

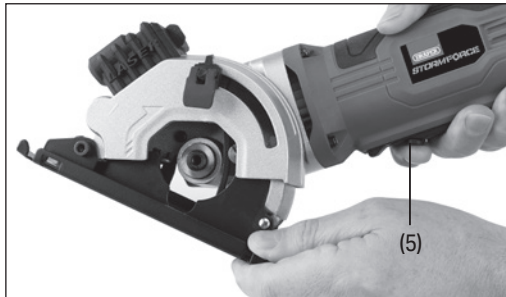


Fig. 7

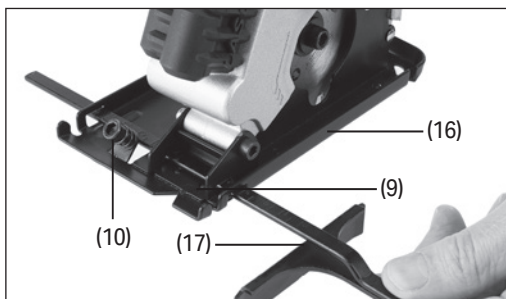


Fig. 8

7.4 Laser Line Generator (Fig.9)

 **WARNING! Laser radiation. DO NOT stare into beam.**

To Turn the Laser On or OFF

- Move the 'ON/OFF' switch (2) to the 'I' position to turn on the laser.
- To turn off the laser return the switch to the 'O' position.

To Use the Laser

1. Ensure the line of the cut is marked on the workpiece.
2. Adjust the depth of the cut as required.
3. Plug into the mains supply and switch the tool on.
4. Switch on the laser beam if required.
5. When the saw blade is at maximum speed (approx. 5 seconds), place the saw on the workpiece.
6. Align the beam with the mark on the workpiece and slowly plunge the saw blade into the workpiece.
7. Push the saw forward using both hands, keeping the beam on the mark.
8. When cutting is finished, raise the saw and switch it off.
9. Switch off the laser.

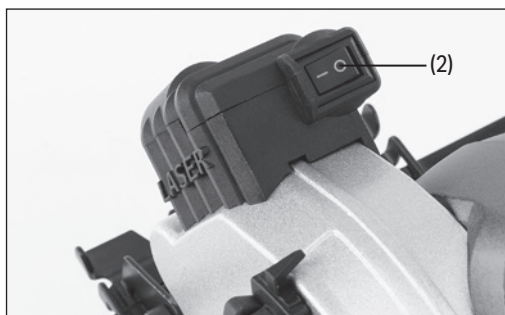


Fig. 9

7.5 Line Following (Fig.10)

- A V-shaped pointer is located at the front of the base plate (16) to indicate where a line can be followed when cutting.

7.6 Laser Battery Replacement

1. To replace the laser batteries, ensure the tool and laser are both switched off.
2. Unscrew the battery compartment and lift off.
3. Replace the exhausted batteries with two new LR44 (1.5V) button cell batteries. Check that batteries are fitted in the correct +/- orientation.
4. Refit the compartment cover and secure with the screw.

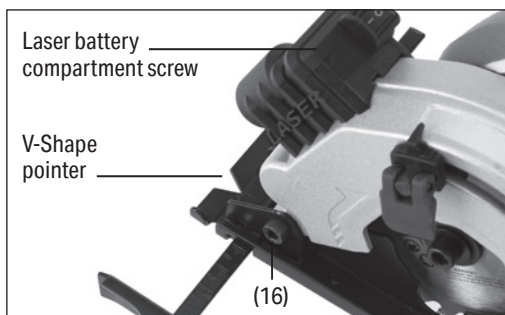



Fig. 10

7. Operating Instructions

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7.7 Dust Extraction (Fig.11)

 **WARNING!** As the saw has a fully enclosed blade, forced dust extraction is important, and use of dust extraction is recommended.

1. Ensure the tool is unplugged and switched off before connecting the hose.
2. Connect the connection hose (19) onto the dust extraction outlet (12).
3. Connect a suitable vacuum or extraction device approved for use with the plunge saw and the material being cut.
4. Then switch on.
 - Powered dust extraction is recommended when a lot of cutting is being carried out.
 - Powered dust extraction should **ALWAYS** be used in the process of cutting hazardous materials such as hardwoods, MDF or ceramics.
 - **NOTE:** Wearing of a suitable mask is recommended.
 - **NOTE: ONLY** use a vacuum cleaner or dust extractor specifically designed for the job being carried out.

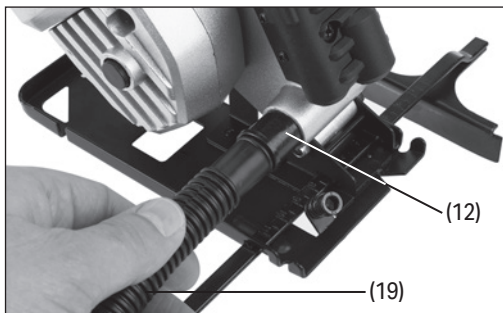


Fig. 11

8. Cutting Operations

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 **WARNING!** Before using the saw, check that the plunge guard is secured and functions correctly.

- Always cut in a forward direction. Never draw the saw backwards.
- If unfamiliar with the saw function, then test it first by cutting some thin wood.



Fig. 12

8.1 Basic Cutting (Fig.12)

1. Check the material specification to ensure suitable for cutting.
2. Fit the correct saw blade, ensuring it is sharp, undamaged and fit for purpose.

Blade		Material suitable for cutting
(20)	HSS	Brass, copper, lead, aluminium and mild steel (max. 3mm)
(21)	TCT	Softwood, hardwood and, boards of all types
(22)	Diamond	Ceramics, tiles and slate

1. Set the depth of the cut – refer to section 6.1.
 2. Place the material to be cut on a flat level surface such as a workbench, table or floor. The material needs to be held in a firm fixed position.
 3. Plug the saw in and switch on the laser guide (1) if required.
- WARNING!** Take care not to damage the blade or supporting surface beneath the material being cut.
4. Grip the tool firmly and rest the base plate (16) onto the surface of the material to be cut. Ensure the rear of the base plate overhangs the worksurface.
 5. Operate the lock off lever (5), then turn on the tool and allow the blade to run up to speed. Then release the lock off lever.
 6. Check the cutting alignment is correct, then operate the lock off lever to release the plunge guard. Plunge the blade into the material gently and push forward along the line to be cut.
 - **DO NOT** use excessive force as this will cause wear to the blade/ tool and may cause the tool to cut out due to overheating.
 7. Ensure the base plate (16) is always held flat on top of the material being cut.
 8. Once cutting is finished, lift the tool from the worksurface before switching off.
 - If excessive dust is present after operation, keep the tool on for a few seconds before switching off to allow the dust to clear via the extraction outlet (12).

8.2 Cutting Out Tips (Fig.13)

- Make sure the front indication pointer on the base plate aligns with the start line/mark of the cut.
- If the cut is to be covered (for example by a vent), the corners can overlap to ensure the waste material is completely detached.
- If the cut will be seen, do not overlap the corners. As the cutting blade is circular the waste material will not be fully detached. The corner will require finishing with a knife.
- Where there is access to the back surface of the material being cut, the cut can be marked out with an over cutting allowance. The cut can then be made from the back surface to give perfect corners on the front surface.

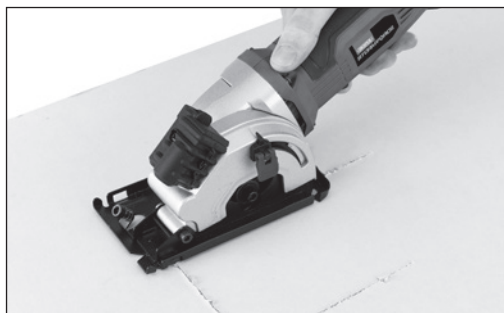


Fig. 13

8.3 Cutting Tough or Abrasive Materials

⚠ WARNING! NEVER cut materials that produce toxic fumes or dust such as PTFE and asbestos.

NOTE: When cutting tougher materials such as metals, additional clamping may be required to hold the workpiece securely in place.

Sheet Metal (HSS Blade) (Fig. 14)

- The HSS blade is only suitable for cutting brass, copper, lead, aluminium or mild steel (max.3mm).
- Always set the depth adjustment to at least 1mm deeper than the actual thickness of the material, to avoid the saw blade riding up over the surface.
- Remove any burrs and rust as this will hinder the feed across the material when cutting.
- Add polish to the base plate or material surface to allow more efficient cutting.

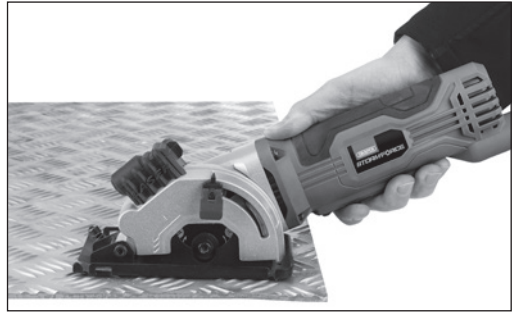


Fig. 14

Ceramics, Tiles & Slate (Diamond Blade) (Fig. 15)

- Only use the diamond blade for cutting this type of material.
- Always connect a suitable vacuum cleaner or dust extractor as the dust can be hazardous and prevent the guard operating correctly.



Fig. 15

Wood (TCT Blade) (Fig. 16)

- Only use the TCT blade for cutting this type of material.
- Always connect a suitable vacuum cleaner or dust extractor as the dust can be hazardous and prevent the guard operating correctly.



Fig. 16

Important:

- Regularly inspect and clean the tool to keep it in good working condition and reduce the need for maintenance procedures.
- The motor must be correctly ventilated during operation. Avoid blocking the air inlets and clean the slots regularly.

9.1 Blade Care

- Always use a sharp blade and check before each use.
- If the blade is not working efficiently replace with a new blade.
- Take care when changing a blade as it can become hot during use. Allow to cool before replacing and follow the steps in **section 6.2 Changing the blade.**

9.2 Troubleshooting

Problem	Possible Cause	Remedy
Tool does not start.	Fuse blown.	Replace the plug fuse or reset circuit breaker.
	Motor overheated.	Unplug and allow tool motor to cool down before restarting.
	Brushes worn.	Have brushes replaced by an authorised service centre. Contact Draper Tools for advice.
	Other causes.	Contact Draper Tools for advice.
Poor cutting performance.	Saw blade blunt.	Replace saw blade – Refer to section 6.2.
	Saw blade incorrectly fitted.	Remove and refit correctly – Refer to section 6.2.
	Incorrect saw blade selected.	Fit correct blade – Refer to section 8.1.
Saw vibrates.	Saw blade damaged or distorted.	Stop tool immediately and replace blade.
Laser not operating.	Batteries dead.	Replace batteries – Refer to section 7.6.
	Laser damaged.	Check for damage. Contact Draper Tools for advice.

10. 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.
- **DO NOT** burn or mutilate batteries; this may release toxic or corrosive substances.



Do not incinerate or throw onto fire

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 12 months from the date of purchase. Where tools have been hired out, the warranty period covers 90 days from the date of purchase. The warranty is extended to 24 months for parts only.

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.

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.

Draper Tools Limited

12. Explanation of Symbols



Read the instruction manual



Wear face mask and safety glasses



Wear ear defenders



Wear protective gloves



Keep out of the reach of children



Warning!



Warning!
Laser product.

WARNING: LASER RADIATION – DO NOT STARE INTO BEAM
Class 2 LASER PRODUCT
Maximum Output Power _____ 1mW
Emitted Wavelength _____ 650nm
EN60825-1:1994 Safety of Laser Products



Do not incinerate or throw onto fire



For indoor use only;
do not expose to rain



Class II construction
(Double insulated)



WEEE –

Waste Electrical & Electronic Equipment

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



Single value noise marking

Maximum declared A-Weighted sound power level in decibels



European conformity



UK Conformity Assessed

Contact Details

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