



DRAPER[®]

230V

MINI BELT SANDER

56490



These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

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

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR: 230V Mini Belt Sander

Stock No: 56490

Part No: BS400D13

1.2 REVISIONS:

Date first published April 2019.

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://drapertools.com/manuals>

Draper Tools Limited

Hursley Road

Chandler's Ford

Eastleigh

Hampshire

SO53 1YF

UK

Website: drapertools.com

Product Helpline: +44 (0) 23 8049 4344

General Fax: +44 (0) 23 8026 0784

1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

WARNING! – Information that draws attention to the risk of injury or death.

CAUTION! – Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

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3. WARRANTY

3.1 WARRANTY

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact:

Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.

Telephone Sales Desk: (023) 8049 4333 or:

Product Helpline (023) 8049 4344.

A 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 covering labour is 12 months from the date of purchase except where tools are hired out when the warranty period is 90 days from the date of purchase. The warranty is extended to 24 months from the date of purchase for parts only. This warranty does not apply to any consumable parts, any type of battery 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 warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This warranty applies in lieu of any other warranty expressed or implied and variations of its terms are not authorised.

Your Draper warranty is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the warranty period.

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

Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

A narrow belt sander designed to access “hard to reach” areas where a traditional sander could not access.

As part of our core range, this product is suitable for enthusiasts and tradespeople alike. Any application other than that it was intended for, is considered misuse.

4.2 SPECIFICATION

Stock No.	56490
Part No.	BS400D13
Motor:	
Rated voltage	230V~
Rated frequency	50Hz
Rated input	400W
Belt speed (no load)	300-1700M/min
Belt width	13mm
Belt length	457mm
Sound pressure level (LpA)*:	80.2dB(A)
Sound power level (LWA)**:	91.2dB(A)
Vibration level†:	1.215m/s ² , K=1.5m/s ²
Weight (machine only)	2kg

†When sanding in wood.†

* *Continuous A-Weighted Sound Pressure Level at the workstation in accordance to and declared according to EN60745.*

** *The typical A-weighted noise level determined according to EN60745.*

4.3 HANDLING & STORAGE

- Care must be taken when handling this product.
 - Dropping this power tool could have an effect on its accuracy and could also result in personal injury. This product is not a toy and must be respected.
- Environmental conditions can have a detrimental effect on this product if neglected.
 - Exposure to damp air can gradually corrode components.
 - If the product is unprotected from dust and debris, components will become clogged.
 - If not cleaned and maintained correctly or regularly, the machine will not perform at its best.

5. HEALTH AND SAFETY INFORMATION

5.1 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 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 and clothing 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.*

5. 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, 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.*

5.2 SPECIFIC SAFETY INSTRUCTIONS FOR BELT SANDERS

Some materials may contain toxic chemicals that sanding operations would disturb e.g. lead painted surfaces. Exposure to these compounds can endanger the health of the operator or bystanders. It is important that you wear appropriate safety equipment to protect yourself from exposure to these substances. If in doubt, consult a professional.

Take care to adequately ventilate the work area and take steps to exclude or protect anybody working in the vicinity.

Ensure that you don't wear any loose clothing or anything else that could get caught in the machine during operation.

5.3 RESIDUAL RISK

Important: Although the safety instructions and operating manuals for our tools contain extensive instructions of safe working with power tools, every power tool involves a certain residual risk which

can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

5. HEALTH AND SAFETY INFORMATION

5.4 CONNECTION TO THE POWER SUPPLY

Caution: Risk of electric shock. Do not open.

This appliance is supplied with a moulded 3 pin mains plug for your safety. 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 BS1362 and ASTA or BS Kite marked.

ASTA 

BSI 


The fuse cover is removable with a small plain slot screwdriver. Ensure the fuse cover is replaced before attempting to connect the plug to an electrical outlet. If the cover is missing, a replacement must be obtained or the plug replaced with a suitable type.

If a replacement plug is to be fitted this must be carried out by a qualified electrician.

The damaged or incomplete plug, when cut from the cable should 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.

If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instructions supplied with the extension lead.

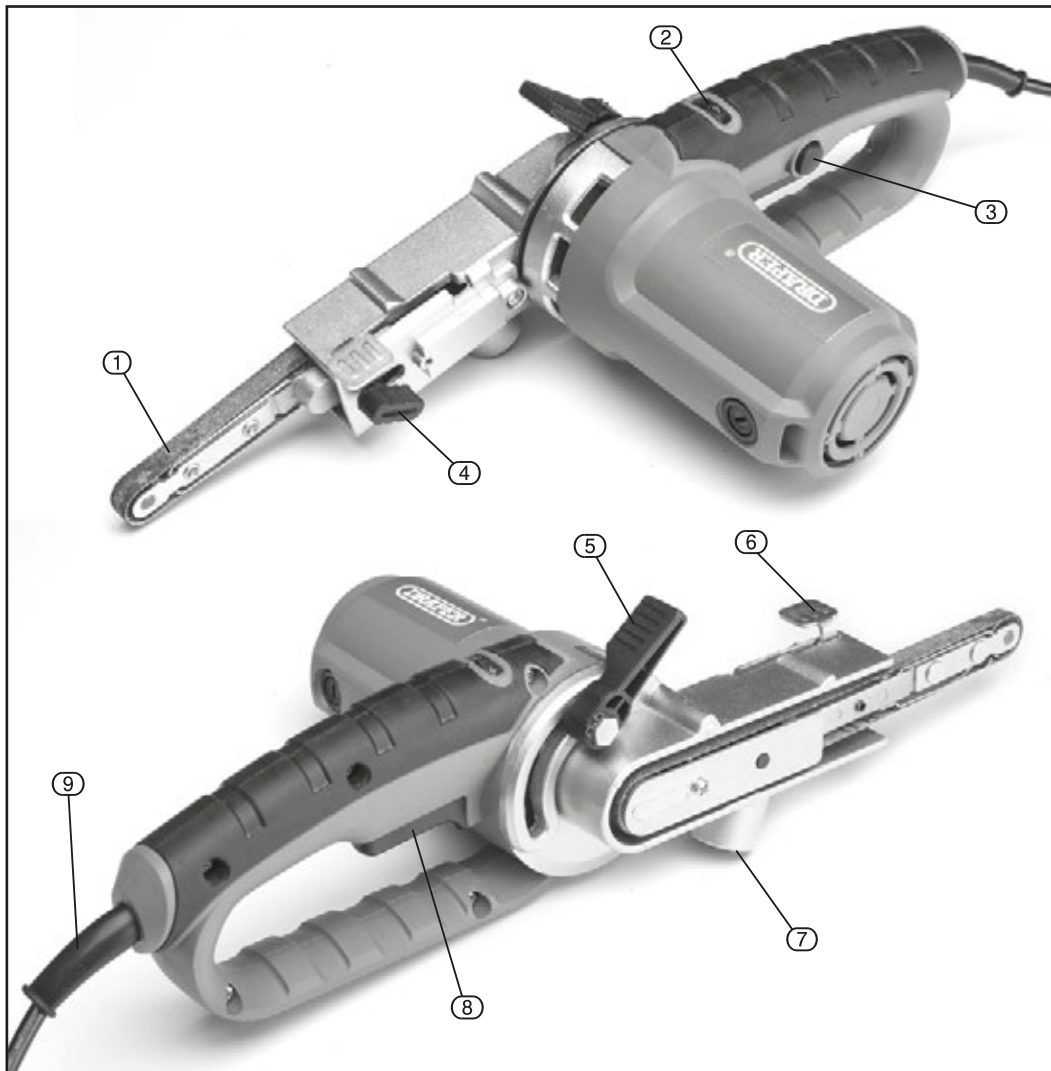
†*Double insulated* : This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.

IMPORTANT

If using an extension lead, follow the instructions that came with your lead regarding maximum load while cable is wound. If in doubt, ensure that the entire cable is unwound. Using a coiled extension lead will generate heat which could melt the lead and cause a fire.

6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- ① Sanding belt (80 grit).
- ② Variable speed.
- ③ Switch lock button.
- ④ Belt tracking adjustment.
- ⑤ Adjustable locking arm.

- ⑥ Belt tension release.
- ⑦ Dust extraction port.
- ⑧ Trigger switch
- ⑨ Power cable.

7. UNPACKING AND CHECKING

7.1 PACKAGING

Carefully remove the product from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing, please contact the Draper Help Line (the telephone number appears on the Title page) and do not attempt to use the product.

The packaging material should be retained at least during the warranty period, in case the machine needs to be returned for repair.

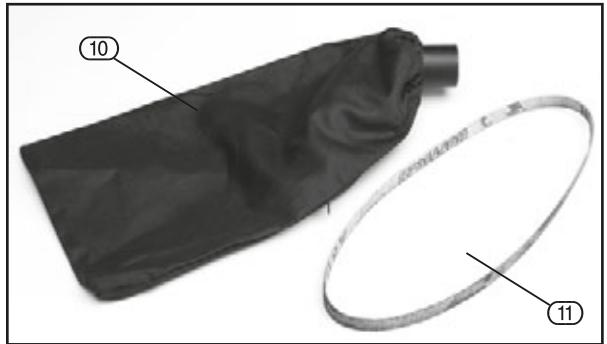
Warning!

- Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.
- If any of the packaging is to be thrown away, make sure they are disposed of correctly, according to local regulations.

7.2 WHAT'S IN THE BOX

As well as the sander, there are several parts not fitted or attached to it.

- (10) Dust collection bag.
- (11) Extra spare sanding belt (120 grit).



8. BASIC SANDER OPERATIONS

Note: Remove the plug from the socket before carrying out adjustment, servicing or maintenance. Prior to connecting this machine to the power supply ensure the trigger lock is disengaged.

8.1 TRIGGER SWITCH – FIG. 1

Ensure the sander is raised off the workpiece.

- Press trigger (8) to start the sander.
- To operate the sander for a prolonged period;
 - Press and hold trigger (8).
 - Press and hold locking button (3).
 - Release trigger (8). Release button (3).

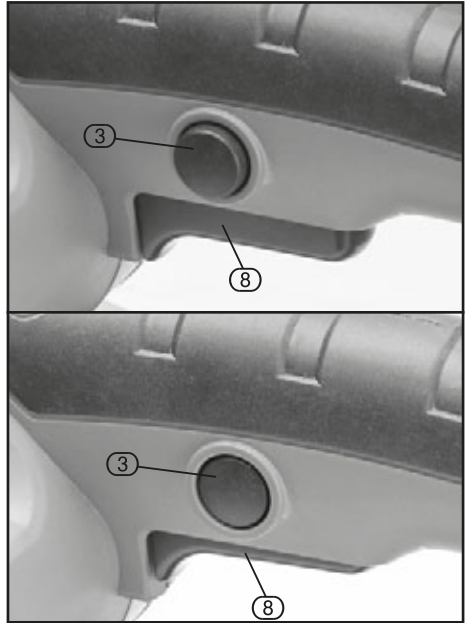
The sander will now continue to run until trigger (8) is pressed, automatically releasing button (3).

- Wait for complete run-down before putting the tool aside.

This machine is intended for sanding wood only.

Replace abrasive belts when clogged with material or when surface/edge has rips, cracks or worn areas.

Warning: Hearing protection should be worn when using belt sanders.



8.2 FITTING OR REPLACING THE SANDING BELT – FIGS. 2 – 3

Warning: Always ensure that the machine is disconnected from its power source before attempting to change or replace the sanding belt.

- Pull the belt release lever (6) (located just above the belt tracking control knob) upwards to release the tension on the belt. (Fig.2)
- Slide out the belt to be replaced.
- Refit the required belt over the rear and front rollers. (Fig.3)

Note: Always ensure that the direction of rotation arrows found on the inside of the belt match the direction of rotation arrow found on the body of the machine.

Return the belt release lever to its original position.

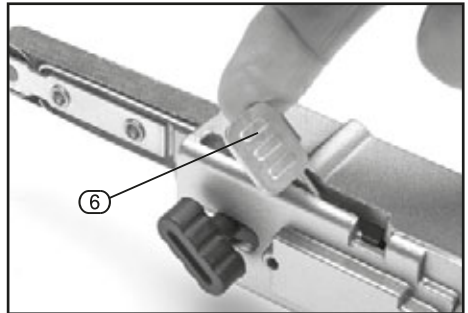


FIG.2

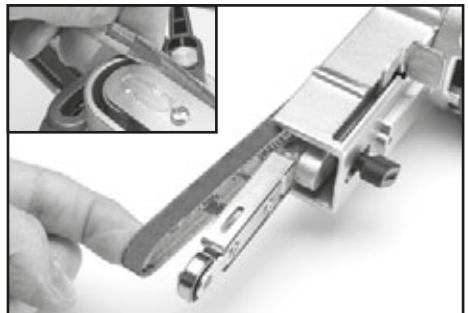


FIG.3

8. BASIC SANDER OPERATIONS

8.3 SANDING BELT TRACKING AND ADJUSTMENT – FIG. 4

- Plug the machine back into the power supply and operate the sander while observing the belt.
- The new belt will have a tendency to track more to one side. To centre the belt on the rollers and over the sanding base, rotate belt tracking control knob (4). This pivots the front roller slightly causing the belt to track across the roller. Only slight adjustments are needed.

When the belt runs centrally on the rollers it is adjusted correctly.

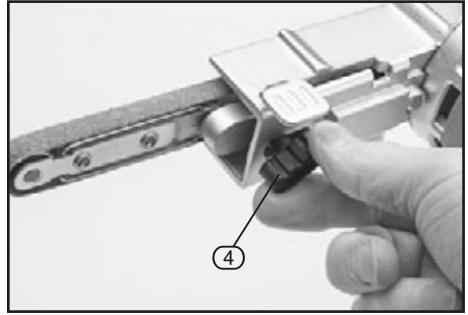


FIG.4

8.4 VARIABLE SPEED CONTROL - FIG. 5

Use the variable speed control dial (2) to adjust working speed as appropriate.

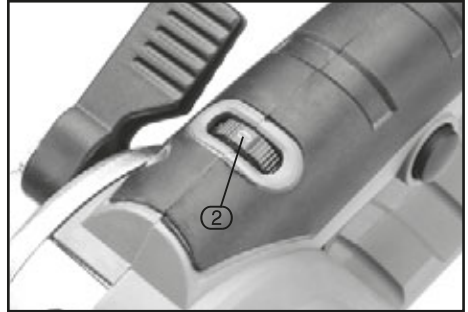


FIG.5

8.4 FITTING THE DUST EXTRACTION BAG – FIG. 5

Inhalation of dust particles can be detrimental to health. For this reason a dust extraction bag (12) has been provided and must be used with the machine at all times.

Warning! All wood dust (including dust from composites like chipboards and fibreboards, etc.) is hazardous to health; it can affect the nose, the respiratory system and the skin. For example MDF (medium density fibreboard) which contains formaldehyde is a known carcinogen. In addition to the above measure a correctly fitted dust mask, suitable for the activity and in accordance to the relevant standard, must be worn.

The dust bag (10) is fitted to the sander at the rear by pushing onto the dust extraction port (7).



FIG.6

EMPTYING THE DUST BAG

Disconnect the plug from the electricity supply.

Hold your sander vertically with the dust collector at the bottom.

Pull the bag gently off sander.

Empty the dust bag by shake out over a bin, then replace on the sander.

Do not wash the dust bag.

Empty the dust bag at regular intervals.

9. BASIC SANDER OPERATIONS

9.1 GENERAL SANDING INFORMATION

Select the correct belt grit to obtain the desired finish. The higher the grit number the finer the finish. For removing large amounts of material a 60/80 grit is ideal. When removing paint from a wood surface the belt grit will have a tendency to clog.

Replace abrasive belts when clogged with material or when surface/edge has rips, cracks or worn areas.

Note: Abrasive belts are a consumable item.

Always sand along the grain of a workpiece.

Occasionally check the belt alignment and adjust as necessary.

10. MAINTENANCE AND TROUBLESHOOTING

10.1 MAINTENANCE

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition.

The motor must be correctly ventilated during tool operation. For this reason avoid blocking the air inlets. After use disconnect the tool from the power supply and vacuum the ventilation slots.

If the housing requires cleaning, do not use any solvents, just a moist soft cloth. Never let any liquid inside the tool. Never immerse in liquid.

When the carbon brushes wear out the tool will stop. The brushes should be replaced prior to wearing out fully. Take the tool to a qualified person to repair.

Important: Please note all repairs/service should be carried out by a qualified person.

10.2 TROUBLESHOOTING

Warning: For your own safety, turn the switch off and remove the plug from the power supply socket.

Problem	Possible Cause	Required Action
<ul style="list-style-type: none">• Motor does not start.	<ul style="list-style-type: none">• Fuse.• Brushes worn.• Other.	<ul style="list-style-type: none">• 5 amp time delay fuse or circuit breaker.• Have brushes replaced.• Contact an authorised service centre.
<ul style="list-style-type: none">• Reduced sanding efficiency.	<ul style="list-style-type: none">• Abrasive sheet worn, clogged or cracked.	<ul style="list-style-type: none">• Replace abrasive sheet †

11. OPTIONAL ACCESSORIES

11.1 OPTIONAL ACCESSORIES

A full range of accessory abrasive sheets are available from Draper Tools.

Please visit our website for details: www.drapertools.com

†Abrasive belts are considered consumable items.

12. DISPOSAL

12.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not dispose of WEEE* as unsorted municipal waste.



* *Waste Electrical & Electronic Equipment.*

13. EXPLANATION OF SYMBOLS

13.1 EXPLANATION OF SYMBOLS



Read the instruction manual.



Wear face mask and safety glasses.



Wear ear defenders.



Wear protective gloves.



Long and loose hair must be contained or securely tied back.



Do not abandon into the environment.



Keep out of the reach of children.



Warning!



Class II construction
(Double insulated).



WEEE –
Waste Electrical &
Electronic Equipment.
*Do not dispose of Waste Electrical
& Electronic Equipment in with
domestic rubbish.*



Lithium-ion product.

Li-ion



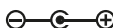
Do not incinerate or
throw onto fire.



For indoor use only.
Do not expose to rain.



Fuse.



Polarity indication.



Rated voltage.

NOTES

NOTES

CONTACTS

Draper Tools Limited, Hursley Road,
Chandler's Ford, Eastleigh, Hampshire. SO53 1YF. U.K.

Helpline: (023) 8049 4344

Sales Desk: (023) 8049 4333

Internet: drapertools.com

E-mail: sales@drapertools.com

General Enquiries: (023) 8026 6355

Service/Warranty Repair Agent:

For aftersales servicing or warranty repairs, please contact the Draper Tools Helpline for details of an agent in your local area.

YOUR DRAPER STOCKIST

TAKC0419

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