



230V

ROTARY MULTI-TOOL KIT

58300



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 Rotary Multi-tool Kit

Stock No:58300

Part No:MT180D111

1.2 REVISIONS:

Date first published December 2018.

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>

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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

For drilling, milling, grinding, engraving, cutting, polishing, sharpening, buffing and removing rust, etc. This tool is intended for domestic and light commercial use only. Any other application is considered as misuse.

4.2 SPECIFICATION

Stock no.....	58300
Part no.....	MT180D111
Rated voltage.....	230V~50Hz
Rated input.....	180W
Speed (no load).....	10,000-35,000min ⁻¹
Collet capacity.....	3 (1.6, 2.4 and 3.2mm)
Collet nut.....	M7
Sound pressure level (LpA)*:.....	.69.40, K=3dB(A)
Sound power level (LWA)**:.....	.80.40, K=3dB(A)
Vibration level.....	.83.40m/s ² -/+1.5m/s
Weight (Excluding Accessories).....	703g

* *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 AND STORAGE

Care must still be taken when handling and lifting. Dropping this machine will have an effect on the accuracy and may also result in personal injury. This machine is not a toy and must be respected.

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the machine will not perform at its best.

5. HEALTH AND SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE

When using any type of power tool there are steps that should be taken to make sure that you, as the user, remain safe.

Common sense and a respect for the tool will help reduce the risk of injury.

Read the instruction manual fully. Do not attempt any operation until you have read and understood this manual.

Most important you must know how to safely start and stop this machine, especially in an emergency.

Keep the work area tidy and clean. Attempting to clear clutter from around the machine during use will reduce your concentration. Mess on the floor creates a trip hazard. Any liquid spilt on the floor could result in you slipping.

Find a suitable location. If the machine is bench mounted, the location should provide good natural light or artificial lighting as a replacement. Avoid damp and dust locations as it will have a negative effect on the machine's performance. If the machine is portable do not expose the tool to rain. In all cases do not operate power tools near any flammable materials.

Keep bystanders away. Children, onlookers and passers by must be restricted from entering the work area for their own protection. The barrier must extend a suitable distance from the tool user.

Unplug and house all power tools that are not in use. A power tool should never be left unattended while connected to the power supply. They must be housed in a suitable location, away locked up and from children. This includes battery chargers.

Do not overload or misuse the tool. All tools are designed for a purpose and are limited to what they are capable of doing. Do not attempt to use a power tool (or adapt it in any way) for an application it is not designed for. Select a tool appropriate for the size of the job. Overloading a tool will result in tool failure and user injury: This covers the use of accessories.

Dress properly. Loose clothing, long hair and jewellery are all dangerous because they can become entangled in moving machinery: This can also result in parts of body being pulled into the machine. Clothing should be close fitted, with any long hair tied back and jewellery and neck ties removed. Footwear must be fully enclosed and have a non-slip sole.

Wear personal protective equipment (PPE). Dust, noise, vibration and swarf can all be dangerous if not suitably protected against. If the work involving the power tool creates dust or fumes wear a dust mask. Vibration to the hand, caused by operating some tools for longer periods must be protected against. Wear vibration reducing gloves and allow long breaks between uses. Protect against dust and swarf by wearing approved safety goggles or a face shield. These are some of the more common hazards and preventions, however, always find out what hazards are associated with the machine/work process and wear the most suitable protective equipment available.

Do not breathe contaminated air. If the work creates dust or fumes connect the machine (if possible) to an extraction system either locally or remotely. Working outdoors can also help if possible.

Move the machine as instructed. If the machine is hand held, do not carry it by the power supply cable. If the product is heavy, employ a second or third person to help move it safely or use a mechanical device. Always refer to the instructions for the correct method.

Do not overreach. Extending your body too far can result in a loss of balance and you falling. This could be from a height or onto a machine and will result in injury.

Maintain your tools correctly. A well maintained tool will do the job safely. Replace any damaged or missing parts immediately with original parts from the manufacturer. As applicable, keep blades sharp, moving parts clean, oiled or greased, handles clean and emergency devices working.

Wait for the machine to stop. Unless the machine is fitted with a safety brake, some parts may continue to move due to momentum. Wait for all parts to stop, then unplug it from the power supply before making any adjustments, carrying out maintenance operations or just finishing using the tool.

5. HEALTH AND SAFETY INFORMATION

Remove and check setting tools. Some machinery requires the use of additional tools or keys to set, load or adjust the power tool. Before starting the power tool always check to make certain they have been removed and are safely away from the machine.

Prevent unintentional starting. Before plugging any machine in to the power supply, make sure the switch is in the OFF position. If the machine is portable, do not hold the machine near the switch and take care when putting the machine down, that nothing can operate the switch.

Carefully select an extension lead. Some machines are not suitable for use with extension leads. If the tool is designed for use outdoors, use an extension lead also suitable for that environment. When using an extended lead, select one capable of handling the current (amps) drawn by the machine in use. Fully extend the lead regardless of the distance between the power supply and the tool. Excess current (amps) and a coiled extension lead will both cause the cable to heat up and can result in fire.

Concentrate and stay alert. Distractions are likely to cause an accident. Never operate a power tool if you are under the influence of drugs (prescription or otherwise), including alcohol or if you are feeling tired. Being disorientated will result in an accident.

Have this tool repaired by a qualified person. This tool is designed to conform to the relevant international and local standards and as such should be maintained and repaired by someone qualified, using only original parts supplied by the manufacturer. This will ensure the tool remains safe to use.

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.

5.2 ADDITIONAL SAFETY INSTRUCTIONS FOR MULTI-TOOL USE

Safety warnings common for grinding, sanding, wire brushing, polishing, carving and cutting off operations:

This power tool is intended to function as a grinder, sander, wire brush, polisher, carving or cut-off tool. 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.

Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.

The rated speed of the grinding accessories must be at least equal to the maximum speed marked on the power tool. Grinding accessories running faster than their rated speed can break and fly apart.

The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately controlled.

The arbour size of wheels, sanding drums or any other accessory must properly fit the spindle or collet of the power tool. Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

Mandrel mounted wheels, sanding drums, cutters or other accessories must be fully inserted into the collet or chuck. If the mandrel is insufficiently held and/or the overhang of the wheel is too long, the mounted wheel may become loose and be ejected at high velocity.

Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, sanding drum for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory.

5. HEALTH AND SAFETY INFORMATION

5.3 RESIDUAL RISK

Important note: Although the safety instructions and operating manuals for our tools contain extensive instructions for 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!

5.4 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 BSI 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.

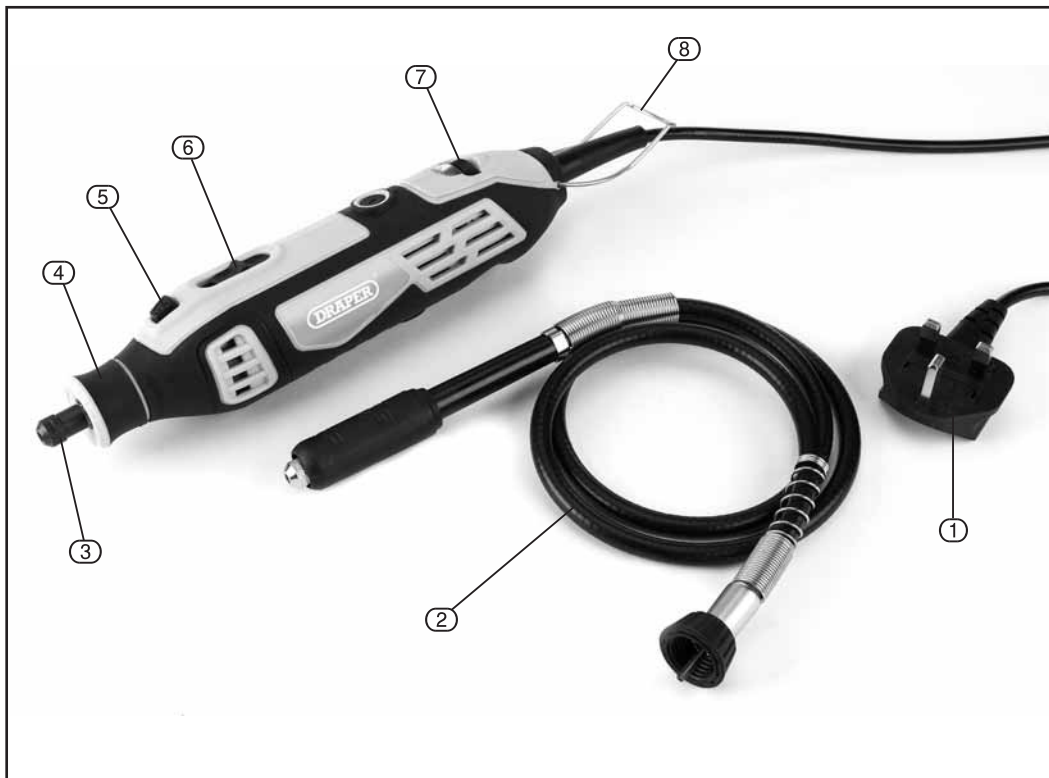
[†]*Double insulated* : This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.

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 Plug and Cable
- ② Flexible shaft
- ③ Collet nut
- ④ Collar
- ⑤ Spindle Lock

- ⑥ On/Off Switch
- ⑦ Variable Speed Dial
- ⑧ Hook

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.

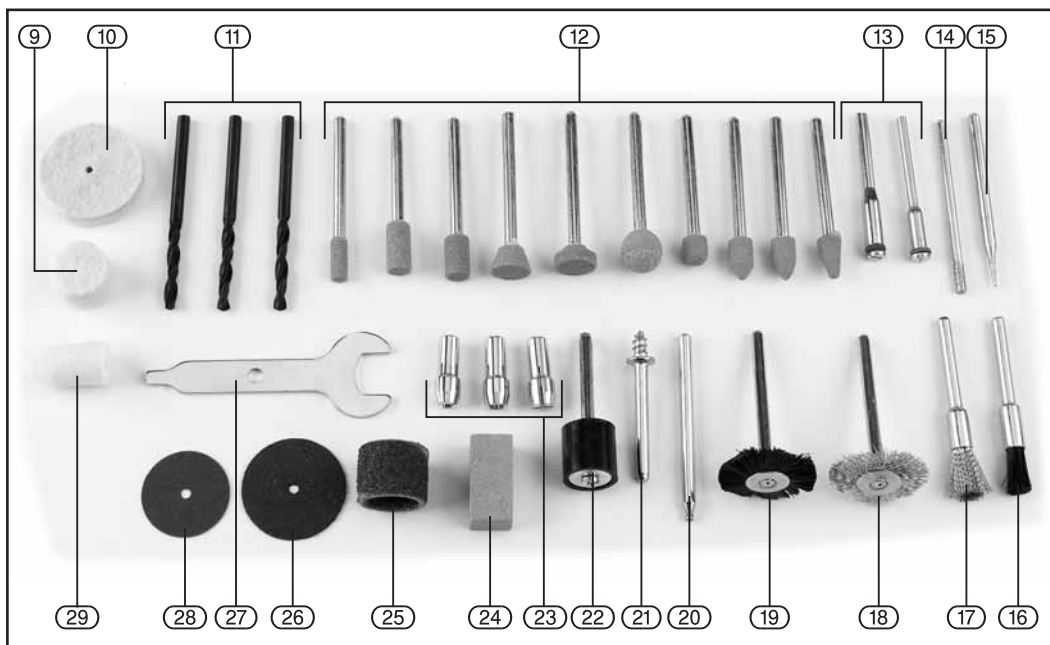
The packaging material should be retained at least during the guarantee period: in case the machine needs to be returned for repair.

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 main product, there are also several other parts not fitted or attached to it:



- | | | |
|--|---------------------------------------|------------------------------|
| (9) 3x Wool polishing tips. | (15) 1x Diamond gringing Taper point. | (22) 1x Sanding drum holder. |
| (10) 3x Large wool polishing wheels. | (16) 1x Bristle brush. | (23) 3x Assorted collets. |
| (11) 3x HHS Drill bits. | (17) 1x Brass brush. | (24) 1x Whetstone stone. |
| (12) 10x Grinding points. | (18) 1x Brass wheel. | (25) 18x Sanding drums. |
| (13) 2x Disc holders. | (19) 1x Bristle wheel. | (26) 23x Cut-off wheels. |
| (14) 1x Diamond gringing cylinder point. | (20) 1x Diamond gringing Ball point. | (27) Spanner. |
| | (21) 1x Polishing wheel holder. | (28) 31x Sanding discs. |
| | | (29) 1x Wool polishing tips. |

8. BASIC MULTI-TOOL OPERATION

8.1 SWITCHING ON AND OFF - FIG. 1

Press switch (6) into the 'I' position. This will start the machine. Press switch to the 'O' position - this will stop the machine.

Using the variable speed dial (7) will enable you to alter the speed of the collet chuck:

Position 1 - SLOW

Position 3 - MEDIUM

Position 6 - FAST

Select the correct speed for the work and type of bit you are using.

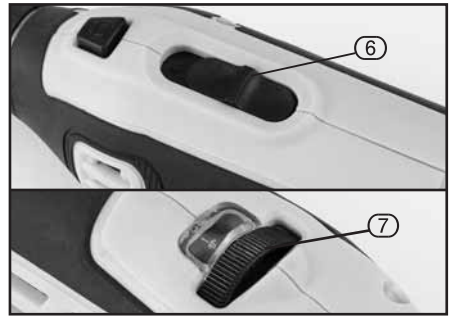


FIG.1

8.2 APPLICATIONS

Your multi-tool can be used for drilling, grinding, polishing, milling and brushing. Other jobs like engraving, cutting and removing rust are also possible. It can be used on most wood, metal, glass and ceramics.

It is a good idea to practice on a scrap piece of material. Best results are achieved by an even speed and pressure (not too hard). Use lower speeds for larger tools and higher speeds for smaller tools.

Warning: Excessive force on this machine will cause the motor to overheat and fail. This is not covered by the guarantee.

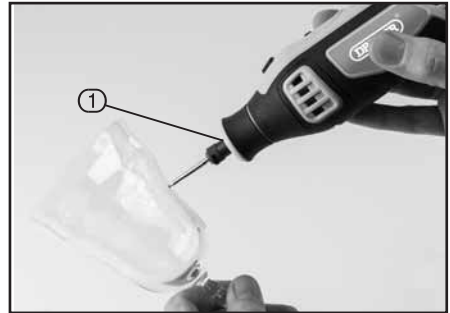


FIG.2

8.3 HOLDING THE TOOL - FIGS. 2 - 3

For jobs such as milling or engraving where precision is required, hold the multi-tool like a pen.

Care should be taken not to fully cover exhaust vents. Covering the vents will cause the machine to overheat and fail.

For heavier work like cutting or grinding hold the multi-tool in the palm of your hand.



FIG.3

8.4 CHANGING BITS - FIG. 4

Note: Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

Choose from the three collets provided, the appropriate size for the bit shank. If the size is not known, insert the bit into the collet. The collet which offers a machine fit to the bit is the correct one to use. Do not force the bit into a collet.

Press spindle locking button (5) to stop the spindle from rotating. Using the spanner (27), loosen the collet nut (3).

Place the collet into the spindle and loosely replace the nut.

Note: Do not over tighten the collet nut (5).

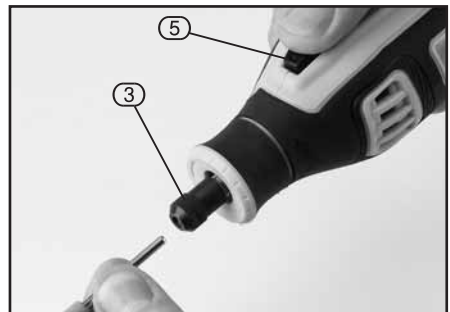


FIG.4

8. BASIC MULTI-TOOL OPERATION

8.5 FITTING A CUTTING/SANDING DISC - FIG. 5

With the disc holder (13) in the chuck, remove the screw using the plain slot screwdriver (27) (incorporated in the spanner handle tip). Leave one fibre washer on the screw, place the cutting disc on the screw and fit the second fibre washer, refit to the disc holder spindle. (Do not over tighten).

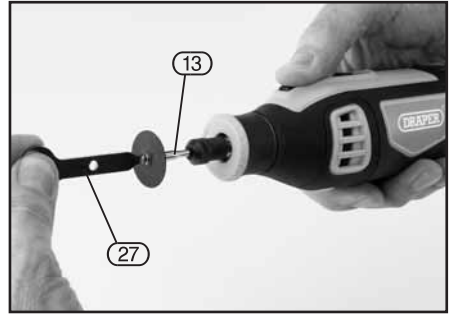


FIG.5

8.6 FITTING THE SANDING DRUMS - FIG. 6

To fit a drum (25), firstly loosen the small screw in the top of the holder (22). This will allow the rubber to relax. Slide the sanding drum onto the holder. To secure simply tighten the screw and the rubber drum will swell, gripping the drum. (Do not over tighten).

Warning: Excessive force on this machine will cause the motor to overheat and fail. This is not covered by the guarantee.

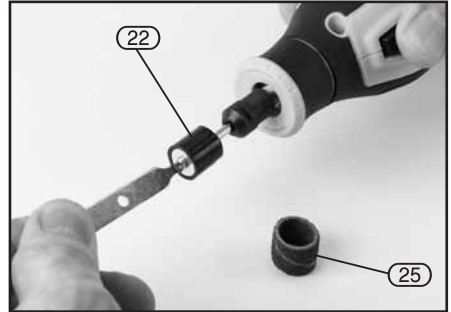


FIG.6

8. BASIC MULTI-TOOL OPERATION

8.7 ATTACHMENTS AND MACHINE SPEEDS

To fit a drum (25), firstly loosen the small screw in the top of the holder (22). This will allow the rubber to relax. Slide the sanding drum onto the holder. To secure simply tighten the screw and the rubber drum will swell, gripping the drum. (Do not over tighten).

Warning: Excessive force on this machine will cause the motor to overheat and fail. This is not covered by the guarantee.

Grinding points and discs (12)

MATERIAL	SPEED
Stone	1
Steel	5
Aluminium	2
Brass	2
Plastic	1

Polishing discs (9), (10), (29)

MATERIAL	SPEED
Steel	5
Aluminium	3
Brass	5

Diamond engraving and milling bits (14), (15), (20)

MATERIAL	SPEED
Stone	6
Steel	3
Aluminium	6
Brass	6
Plastic	1

Brass, steel and bristle brushes (16), (17), (18), (19)

Material	Speed
Stone	2
Aluminium	2
Brass	2

Cutting disc (26)

MATERIAL	SPEED
Stone	6
Steel	3
Aluminium	6
Brass	6
Plastic	1

9. OPTIONAL ACCESSORIES

9.1 OPTIONAL ACCESSORIES

A full range of accessories are available from Draper Tools.

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

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. Avoid blocking the air inlets and vacuum the ventilation slots regularly.

11. DISPOSAL

11.1 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.*

12. EXPLANATION OF SYMBOLS

12.1 EXPLANATION OF SYMBOLS



Read the instruction manual.



Wear face mask and safety glasses.



Wear ear defenders.



Do not abandon into the environment.



Keep out of the reach of children.



Warning!



Single value noise marking.
(Maximum declared A-Weighted sound power level in decibels).



Class II construction
(Double insulated).



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



For indoor use only.
Do not expose to rain.



Short-circuit-proof safety isolating transformer



Fuse.



Polarity indication.



Rated voltage.

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

TAKC1218

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