



230V GARDEN

VACUUM, BLOWER & MULCHER

93165



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.

TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR: 230V 3200W Garden Vacuum, Blower & Mulcher

Stock No: 93165 Part No: BV3200

1.2	REVISIONS:
Date	first published October 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

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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.

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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 Help Line (023) 8049 4344.

A proof of purchase **must** be provided with the tool.

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 12 months 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

This machine is designed to blow and vacuum leaves and other debris.

4.2 SPECIFICATION

Stock No	93165
Part No	BV3200
Rated Voltage	230V~50Hz
Rated input	
No load speed	
Air flow speed (Blowing)	
Max Air Volume	
Mulching ratio	
Collection bag capacity	45 ltr
Sound pressure level	88.7 dB(A) K=3dB(A)
Sound power level	100.5 dB(A) k=1.99dB(A), LWA=103dB(A)
Vibration level	
Front handle	2.685m/s², K=1.5m/s²
Rear	2.702m/s ² , K=1.5m/s ²
Weight (machine only)	4.6kg

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 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

Power tool use and care

second.

Do not force the power tool. Use the correct power tool for your application. The correct

5. HEALTH AND SAFETY INFORMATION

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 GARDEN BLOWER/VACUUM SAFETY WARNING

- 1) Training
 - a) Read the instructions carefully. be familiar with the proper use of the appliance.
 - b) Never allow children to use the appliance.
 - c) Never allow people unfamiliar with the instructions to use the appliance. Local regulations may restrict the age of the operator.
 - d) Never operate the appliance while people, especially children or pets are nearby.
 - e) The operator or user is responsible for accidents or hazards occurring to other people or their property.
- 2) Preparation:
 - a) While operating the appliance, always wear substantial footwear and long trousers.
 - b) Do not wear loose clothing or jewellery that can be drawn into the air inlet. Keep long hair away from the air inlets.
 - c) Wear protective goggle while operating.
 - d) to prevent dust irritation, the wearing of a face mask is recommended.
 - e) Before using, check the supply and extension cord for signs of damage and aging. Do not use the appliance if the cord is damaged or worn.
 - f) Never operate the appliance with defective guards or shields, or without safety devices, for example debris collector in place
 - g) Only use a weather proof extension cable fitted with a coupler according to IEC 60320-2-3.
- 3. Operation:
 - a) Always direct the cable to the rear away from the appliance.
 - b) If a cord becomes damaged during use, disconnect the supply cord from the main immediately.
 - DO NOT TOUCH THE CORD BEFORE DISCONNECTING THE SUPPLY.

5. HEALTH AND SAFETY INFORMATION

- c) Do not carry the appliance by the cable.
- d) Disconnect the appliance from the main supply:
 - Whenever you leave the machine.
 - Before cleaning a blockage.
 - Before checking, cleaning or working on the appliance.
 - If the appliance starts to vibrate abnormally.
- e) Operate the appliance only in daylight or in good artificial light.
- f) Do not overreach and keep your balance at all times.
- g) Always be sure of your footing on slopes.
- h) Walk, never run.
- i) Keep all cooling air inlets clear of debris.
- j) Never blow debris in the direction of bystanders.
- 4. Maintenance & Storage:
 - a) Keep all nuts, bolts and screws tight to be sure the appliance is in safe working condition.
 - b) Check the debris collector frequently.
 - c) Replace worn or damaged parts.
 - d) Use only genuine replacement parts and accessories.
 - e) Store the appliance only in a dry place.

5.3 RESIDUAL RISK

Important note: Although the safety instructions and operating manuals for our space heater contain extensive instructions of safe working with space heaters, every space heater involves a certain residual risk which can not be completely excluded by safety mechanisms. Space heaters must therefore always be operated with caution!

5.6 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.



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 [iii]: 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 Intake adjustable chute handle.
- ② Rear handle.
- ③ On/Off switch.
- 4 Power regulator.
- S Blowing aperture
- 6 Exhaust chute.

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

- (7) Collection bag.
- (8) Intake chute top.
- (9) Intake chute bottom.
- (10) Blower tube top.
- (11) Intake chute wheels.
- (12) Intake cover.
- (13) Blower tube bottom.
- (14) Shoulder strap.



8.1 INITIAL START-UP

Before operating the equipment, you must

- install the blower or suction pipes,
- install the collection bag for suctioning leaves,
- install the protective cover (suction intake) for blowing leaves.

Caution: Risk of Injury! During the assembly or disassembly of the blower pipe, suction pipe, protective cover or collection bag, the engine must be turned off and all moving parts must have come to a standstill.

Always disconnect the plug from the mains socket before working.

8.2 ASSEMBLING/DISMANTLING THE TWO-PIECE BLOW TUBE

Never use the leaf blower with only one blower tube section attached.

There is a risk of personal injury!

- Assemble the two-piece blow tube 10 13 as illustrated. The parts can be felt to lock into place. During assembly, make sure that the groove on the upper section of the blower tube is inserted into the recess provided on the lower section of the blower tube.
- 2. Now push the blow tube 10 on to the blowing aperture 5 of the motor housing as far as the locking device 5.1.
- Place the intake protective cover (12) of the suction opening on the underside of the motor housing.
 - Turn the intake protective cover (12) clockwise as far as it will go.
- Attach the intake protective cover (12) by tightening the screw with star grip (12.1) in the holder.
 - The screw with star grip has to be tightened as far as it will go by hand, as otherwise the leaf blower cannot be started later.
- 5. Remove the blow tube 10 by releasing the lock (5.1) and pulling off the blow tube forwards.

Assembling/dismantling the two-piece suction tube

Never use the leaf vacuum with only one suction tube section attached.

There is a risk of personal injury!

After the two-part suction tube has been assembled, it must not be divided up again into two parts!

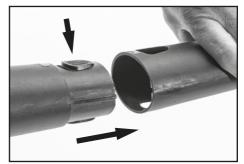


FIG.1

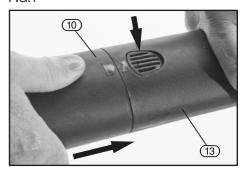


FIG.2

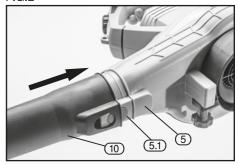


FIG.3

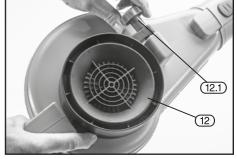


FIG.4

8.3 ASSEMBLING/DISMANTLING THE TWO-PIECE SUCTION TUBE

Never use the leaf vacuum with only one suction tube section attached.

There is a risk of personal injury!

After the two-part suction tube has been assembled, it must not be d ivided up again into two parts!

- 1. Remove the intake protective cover (12) of the suction opening by unscrewing the screw with star grip (12.1) and turning the protective cover anti-clockwise and removing it.
- 2. Assemble the two suction tubes (8) (9) as illustrated. The parts can be felt to lock into place.

During assembly, make sure that the groove on the upper section of the suction tube is inserted into the recess provided on the lower section of the suction tube.

- 3. Assemble the wheels (11) by sliding the wheel through the hole of the wheel retaining Bracket (7.1) with the bolt and turning the second wheel clockwise on the wheel bolt.
- 4. Place the suction tube (8) on the underside of the motor housing. Turn the suction tube clockwise as far as it will go.
- 5. Attach the suction tube by tightening the screw with star grip (12.1) in the holder.

Note: The screw with star grip has to be tightened as far as it will go by hand, as otherwise the leaf vacuum cannot be started later.

 Dismantle the suction tube (8) by releasing the screw with star grip (12.1) and turning the suction tube anti-clockwise.

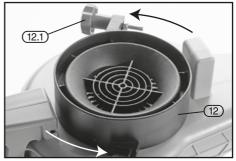


FIG.5

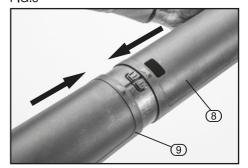


FIG.6

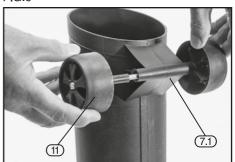


FIG.7

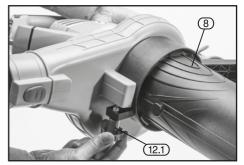


FIG 8

8.4 INSTALLING/REMOVING THE COLLECTION BAG FIGS 9 - 12

In suction mode the device can only be operated with the collection bag installed.

- If necessary, remove the blower tube see section 8.2 assembling/dismantling the two-piece blow tube.
- 2. Push the collection bag (7) on to the blower outlet of the motor housing (5) until this snaps into place in the locking device (5.1).
- 3. Hang the fastening hook (7.1) of the collection bag (7) on the holding points (8.1) (9.1) provided on the suction tube.

The additional handle ① can be locked in various positions. In order to change the handle position, release the screw with star grip ①1.1, change the handle position and tighten the screw again.

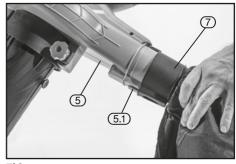


FIG.9

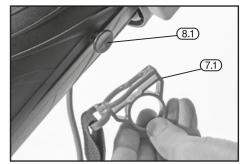


FIG.10

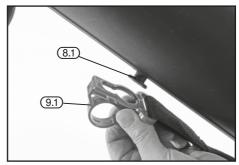


FIG.11

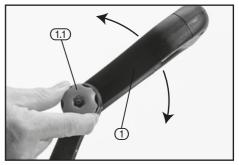


FIG.12

8.5 PUTTING ON THE CARRYING STRAP FIGS 13 - 15

- Place the carrying strap (14) across your shoulder and chest.
- 2. Adjust the length of the strap so that the snap hook is approximately 10cm below your hip.
- 3. Attach the snap hook on the eyelet to insert the strap: in blow mode (14.1).
 - in suction mode (14.2).



FIG.13

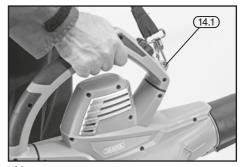


FIG.14



FIG.15

9. BASIC LEAF BLOWER OPERATIONS

9.1 OPERATING THE LEAF BLOWER

Danger of injury.

Wear suitable clothing and work gloves when working with the device.

Make sure that the device is functioning properly before every use.

Make sure that the collection bag and the tube are assembled correctly and the carrying strap is adjusted correctly for work.

After releasing the switch, you must turn off the motor. Do not use the device if a switch is damaged. Personal protective equipment and a fully functional appliance reduce the risk of injuries and accidents.

After switching off the device, the impeller wheel continues to rotate for some time. Danger of injury due to rotating tool.

Note: Noise protection laws and local regulations.



Before switching on device, make sure it is not in contact with any objects.

Ensure stable positioning.

- Make a loop from the end of the extension cable and attach this to the strain relief.
- 2. Connect the machine to the power supply.
- 3. To turn on, slide the on/off switch (3):
- 4. In order to regulate the suction/blowing power, turn the power regulator (4).
- 5. To turn off, slide the on/off switch 3:



FIG.16



FIG.17



FIG. 18



FIG.19

9. BASIC LEAF BLOWER OPERATIONS

9.3 WORKING WITH THE LEAF BLOWER

The leaf blower may only be used for the following purposes:

- As a blower to pile up dry leaf material or to blow material out of places that are hard to access (e.g. under cars)
- As a suction device to suck up dry leaf material. The device also functions as a shredder in the suction function. The dry leaves are shredded and their volume is reduced, preparing the material for later composting if so desired. The shredding intensity depends on the size of the leaf material and its residual moisture. Uses other than those described here may damage the machine and put the operator at risk.

During work, ensure that the device is not struck against hard objects, which can cause damage. Do not suck up any solid bodies such as stones, branches or pieces of branch, fir cones or similar, since these can damage the device, in particular the shredding mechanism.

Repairs of this type are not covered by the guarantee.

BLOWING OPERATING MODE:

For safety reasons, make sure that the protective cover (12) is mounted on the suction opening.

- You get optimal results when you use the blower with a separation distance to the ground of 5 -10 cm.
- Begin work with the highest blowing power, in order to rapidly pile up the leaves lying around.
 Select a lower blowing power to compact the previously piled up leaves.
- Before blowing, loosen leaves adhering to the ground with a broom or rake.
- The guide rollers at the end of the tube make it easier to work on flat surfaces.



FIG.20

9. BASIC LEAF BLOWER OPERATIONS

SUCTION OPERATING MODE:

For safety reasons, both suction tube sections and the collection bag must be correctly mounted before you can start the device.

- Always hold the device tight with both hands during operation: use the handle (3) and the additional handle (1) for this.
- Make sure the volumes of leaf material sucked in at one time are not too large. This will avoid clogging of the suction tube and blockage of the impeller wheel.

To reduce wear on the collection bag, do not drag it along the ground while working.

Blocked suction tube:

Overload protection: The motor will cut out immediately if overloaded.

Turn the leaf vacuum off and remove the mains plug. Then check whether the impeller is blocked or the collection bag clogged and remove the obstacles if they are.

The tool cannot be used until it has completely cooled down again.

Emptying the collection bag:

With full collection bag, the suction pumping capacity decreases considerably and the collection bag must be

emptied when the bag is full or interferes with the suction capacity of the device.

- Turn off the device and wait until the impeller has stopped.
- 2. Unplug the device.
- Remove the attachment eyes from the holding points. Release the collection bag
 By pressing the locking button.
- Open the zip-fastener on the collection bag and empty it completely.
- Mount the emptied collection bag again.
 Composting material does not belong with domestic waste!



FIG.21



FIG.22

10. MAINTENANCE

10.1 CLEANING AND MAINTENANCE

Always clean the device immediately after working with it, as otherwise dirt will become hardened and firmly attached with leaf residues and might prove impossible to remove without dismantling the motor housing.

Such cleaning work is not covered by the warranty.

Cleaning

Do not spray the appliance with water and do not immerse it in water.

Electric shock hazard!

Keep clean the ventilation slots, motor housing and handles of the appliance.
 Use a damp cloth or a brush Do not use cleaning agents or solvents. You may otherwise irreparably damage the appliance.

General maintenance

- Prior to every use, check the appliance for obvious defects such as loose, worn or damaged parts. Check that the screws in the cutting disk are tight.
- Check covers and safety devices for damages and correct installation. Replace as necessary.

10.2 REMOVAL OF CLOGGING AND BLOCKAGE

Leaf material and fresh plant parts may clog / block the device.

Cleaning the impeller wheel:

Pull out the mains plug!

There is a risk of injury!

- 1. Remove the protective cover (12) and/or the suction tube (9).
- 2. Carefully remove residues or clogging materials from the impeller wheel.
- 3. Check to make sure the impeller wheel is easier to turn and is in undamaged condition.

Have our Service Centre replace a defective impeller wheel.

4. Re-tighten the protective cover (12) and/ or the suction tube (9).

If the protective cover (12) and/or the suction tube (9) is not correctly screwed into place by hand, it is not possible to operate the device.

10.3 STORAGE

- For storage purposes you can remove the blow tube (9) and/or the suction tube (10) from the
 motor housing (see the corresponding installation instructions in the preparing the blower
 vac).
- Store the device in a dry place well out of reach of children.

11. TROUBLESHOOTING

Problem	Possible Cause	Remedy
Motor does not start.	No mains power supply.	Check the socket, cable, line, plug and fuse and have them repaired by a qualified electrician if necessary
	 Worn out carbon brushes. Motor faulty. On/Off switch defective 	Send in to Service Centre for repair
	The suction tubes and collection bag and/or blower tubes and protective cover are not correctly mounted.	1. See the section 8.3
Intermittent operation.	 Internal loose contact. Power cable damaged On/Off switch defective 	Send in to Service Centre for repair.
Weak or no suction power/	1. Collection bag is full.	Empty collection bag.
throughput.	1. Collection bag is dirty.	Clean collection bag.
	Impeller, blower or suction pipe is clogged or blocked	1. See 10.2.
Impeller does not move	Foreign body blocking the impeller	Remove the blockage, see 10.2.

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.



Class I construction (Must be earthed).



WEEE -

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

NOTES

NOTES

CONTACTS

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

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General Enquiries: (023) 8026 6355

Service/Warranty Repair Agent:

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

YOUR DRAPER STOCKIST		

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