

DRAPER[®]

230V

ROUTER

02519, 02520



UK
CA CE

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 Router

Stock No's: 02519, 02520

Part No's: R8/1200D, R12/1800D

1.2 REVISIONS:

Date first published July 2021.

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>

1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

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

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

1.4 COPYRIGHT © NOTICE:

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In all cases this copyright notice must remain intact.

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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: +44 (0) 8049 4333 or Product Help Line +44 (0) 23 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 parts/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. 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 hand held power tool is ideal for shaping woodwork, cabinetry, architrave, morticing and other associated routing work.

This product is suitable for enthusiasts and tradespersons alike. Any application other than that it was intended for is considered misuse.

4.2 SPECIFICATION

Stock No's.	02519.....	02520.....
Part No's.	R8/1200D.....	R12/1800D.....
Rated voltage	230V~50Hz	230V~50Hz.....
Rated input	1200W	1800W.....
Collets	6mm, 8mm and 1/4".....	1/4", 1/2", and 12mm.....
Plunge stroke.....	55mm.....	50mm.....
Speed (no load)	11,000 – 30,000r/min.....	6,000 – 22,000r/min.....
Sound Pressure Level	88dB(A)	96dB(A).....
Sound Power Level	99dB(A)	107dB(A).....
Uncertainty (K):	3dB(A).....	3dB(A).....
Vibration level	3.6m/s ²	3.6m/s ²
Uncertainty (K):	1.5m/s ²	1.5m/s ²
Weight	4kg.....	7.5kg.....

4.3 HANDLING AND 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 SAFETY INSTRUCTIONS FOR POWER TOOL USE

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 tools” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **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.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- a) **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.
- b) **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.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **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.
- e) **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.
- f) **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.

3) Personal safety

- a) **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.
- b) **Use personal protective equipment Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection use for appropriate conditions will reduce personal injuries.
- c) **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.
- d) **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.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

5. HEALTH AND SAFETY INFORMATION

- f) **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.
- g) **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.
- h) **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.

4) Power tool use and care

- a) **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.
- b) **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.
- c) **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.
- d) **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.
- e) **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.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **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.
- h) **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.

5) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacements parts.** This will ensure that the safety of the power tool is maintained.

5.2 SPECIFIC SAFETY INSTRUCTIONS FOR ROUTER USE.

- a) Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- b) Always wear a dust mask and ear protection when using this power tool.
- c) Use only bits, which are designed for this router.
- d) Use only sharp bits that are not chipped or cracked. Blunt bits will cause stalling.
- e) Secure small pieces of wood firmly before working. Never hold them in your hand.
- f) Danger. Keep hands away from the cutting area.

5. HEALTH AND SAFETY INFORMATION

- g) Secure the workpiece by means of the clamping equipment.
- h) Before starting up, check that the bit is firmly positioned and secured into the collets.
- i) The maximum indicated limit rotation speed of the milling bit must not be exceeded.
- j) Routing must always be carried out against the direction of rotation (bit-rotation) of the bit.
- k) The bit must be running at full speed before lowering into the workpiece.
- l) When operating the machine, take great care and always hold the router handles firmly with both hands. Always provide for a secure footing when working.
- m) Beware of the reaction torque of the machine, particularly if the bit becomes jammed in the workpiece.
- n) On completion of work, allow the machine to slide back to its initial position by releasing the handle.
- o) Make yourself familiar with your working area and be alert for possible hazards, which you might not hear due to machine noise.
- p) Caution: Allow for run down time of bit after turning router off. Wait for the machine to come to a complete stop before removing from the workpiece.
- q) Never slow the router down with your hands.
- r) Do not touch the bit immediately after operation; it may be extremely hot and could burn you.
- s) Never stop the router by applying lateral pressure to the bit.
- t) Do not force the router. Your router will do a better job if you take it slowly.
- u) Avoid cutting nails and screws. Inspect timber and remove all nails and screws before cutting.
- v) In the event of an electrical or mechanical malfunction, immediately switch off the router and disconnect the power lead from the mains supply, and contact Draper for assistance.

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 an approved plug and cable 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.

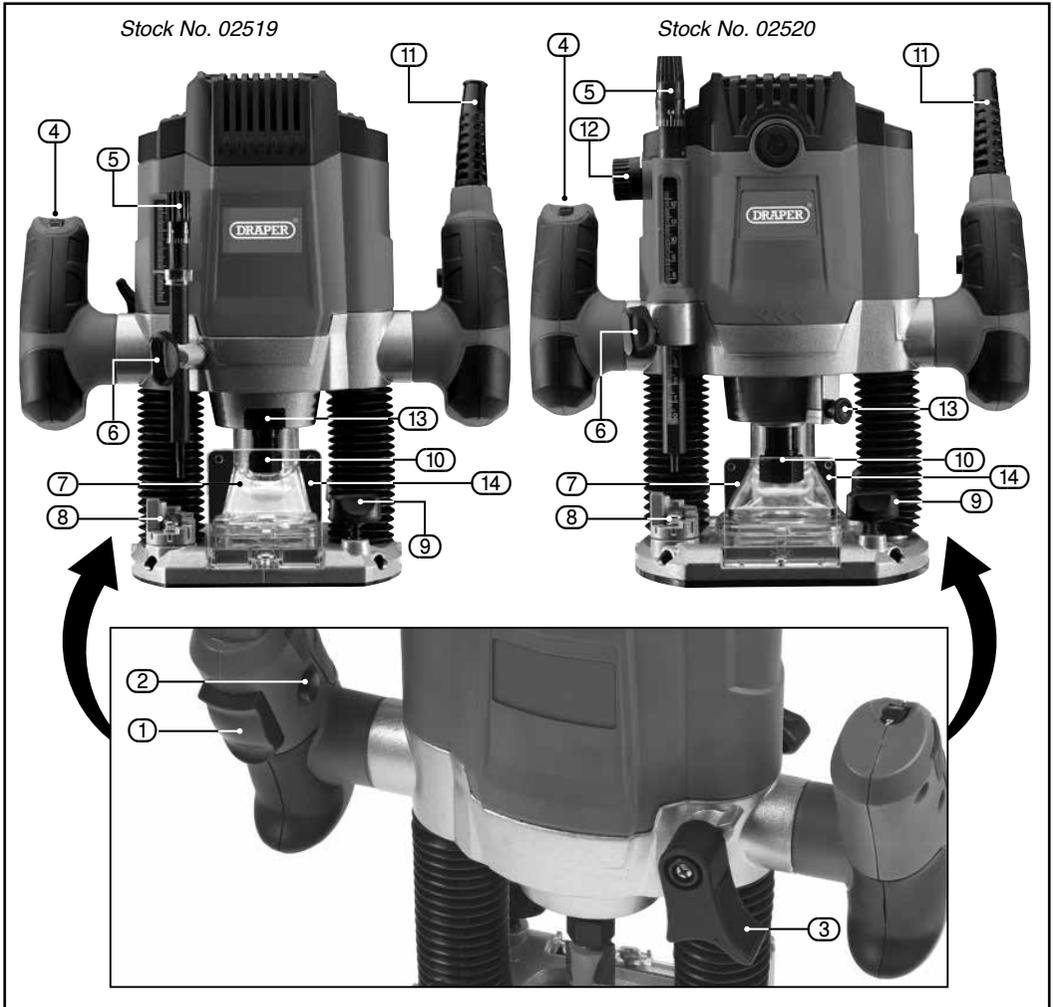
[†]*Double insulated : This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.*

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 ON/OFF trigger switch.
- ② Trigger safety button.
- ③ Plunge lock lever.
- ④ Variable speed control.
- ⑤ Fine height adjustment.
- ⑥ Depth guide locking screw.
- ⑦ Dust extraction adaptor.
- ⑧ Adjustable turret depth stop.

- ⑨ Parallel guide locking screw.
- ⑩ Collet nut.
- ⑪ Power cable and plug.
- ⑫ Depth adjustment dial (*02520 only*).
- ⑬ Spindle lock button.
- ⑭ Protective safety screen.

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.

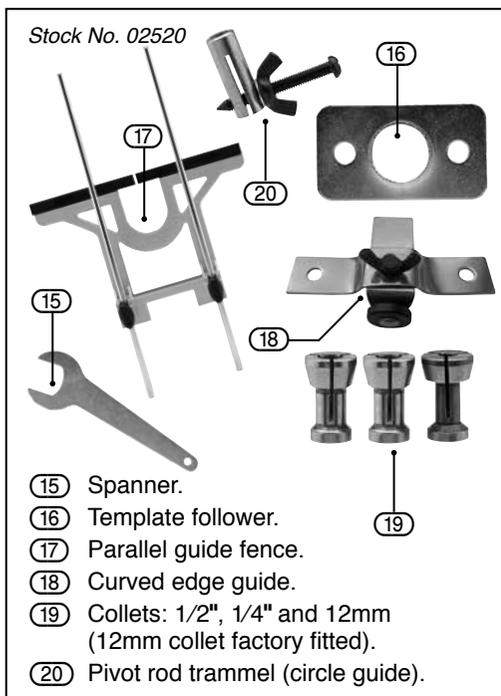
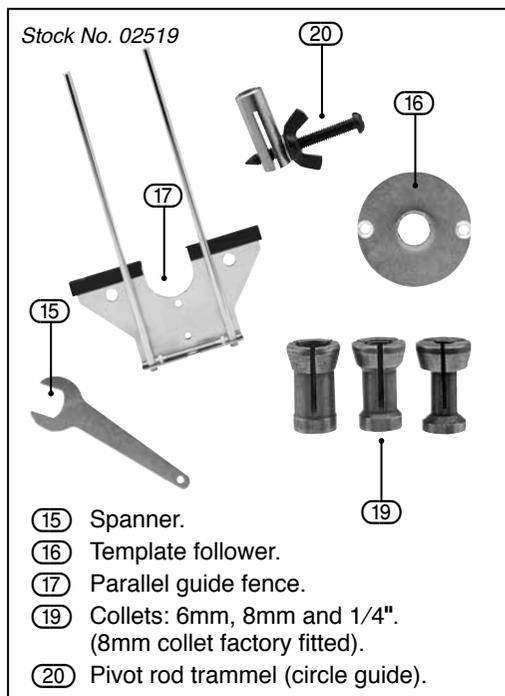
The packaging material should be retained at least during the warranty period, in case the machine needs to be returned for repair.

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 several parts not fitted or attached to it.



Note: For details of our full range of accessories and consumables, please visit drapertools.com

8. PREPARING THE ROUTER

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

8.1 PARALLEL GUIDE FENCE – FIG. 1

- If not already assembled, loosen the 2 fence locking screws (17.1) on the parallel guide body and slide the 2 guide rods (17.2) through the mounting holes.
- Tighten the fence locking screws to hold the rods in place to the parallel guide fence.
- Loosen the 2 parallel guide locking screws (9) located on the base of the machine.
- Feed the parallel guide fence and rods through the locating holes and channels on the base of the machine (9.1).
- Adjust the cutting distance according to the job in hand and then tighten the parallel guide locking screws (9) to secure.

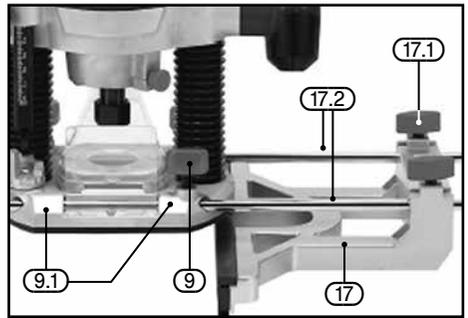


FIG.1

8.2 DUST EXTRACTION PORT ADAPTOR – FIG. 2

Note: The majority of operations will require the dust extraction port to be fitted. However, some operations will be impossible with the port fitted. These require appropriate safety equipment to be worn.

If not already fitted in place:

- Locate the dust extraction port adaptor (7) into position on the machine base.
- Thread the two supplied fixings up through the base and into the nuts set into the port.

Note: Be careful to secure the port without damaging the plastic parts by over tightening the machine screws.

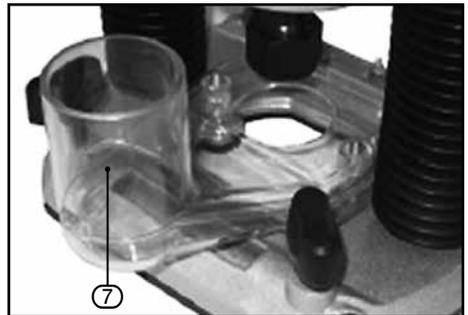


FIG.2

8.3 DUST EXTRACTION

Inhalation of dust particles can be detrimental to health. The dust outlet (7) must be connected with a dust extraction machine.

Note: Due to the outlet diameter, a size adaptation may be necessary.

Warning! All wood dust (including dust from composites like chipboards and fibre boards 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 measures a correctly fitted dust mask, suitable for the activity and in accordance to the relevant standard, must be worn. For work activities involving exposure to fine wood dust a mask rated to at least FFP2 should be used.

8. PREPARING THE ROUTER

8.4 PROTECTIVE SAFETY SCREEN – FIG. 3

If not already in place, slot the screen (14) into the recess and fasten, using the screw provided.

8.5 FITTING & REPLACING ROUTER BITS – FIG. 4

- **Stock No.02519** is designed for use with 6mm, 8mm and 1/4" shank router bits only.
- **Stock No.02520** is designed for use with 1/4", 1/2", and 12mm shank router bits only.

Warning! Use bits of the correct shank diameter suitable for the speed of the tool.

Selection of the correct router bit, suitable for the intended application is vital. Seek guidance if uncertain of selection.

Press the spindle lock button (13) and unscrew the collet nut (10) using the spanner (15) supplied.

Note: Take care not to loose the spring behind the collet.

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

Replace the spring and place the collet into the spindle before loosely replacing the nut (10).

Slide in the bit allowing approx. 5-10mm overhang before tighten the collet nut (observe the router bit's manufacturers instructions for more specific information).

Note: Ensure at least 75% of the shank is inside the collet. Do not tighten the collet with no bit fitted as this will cause damage.

Do not over-tighten the collet nut.

Warning! Take care when handling the cutter bits as they are extremely sharp.

When cutting is complete remove the bit before cleaning and storing it in a safe place.

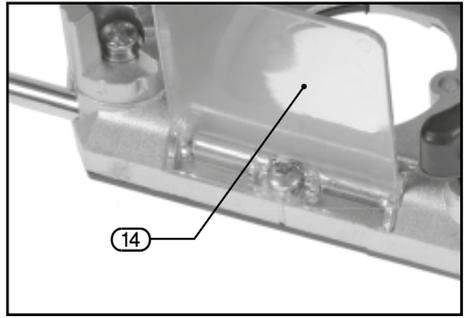


FIG.3

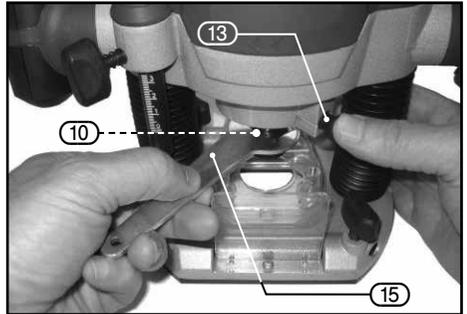


FIG.4

9. BASIC ROUTER OPERATIONS

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

9.1 TRIGGER SWITCH – FIG. 5

The router is fitted with a safety lock off switch to prevent accidental starting. Press and hold lock button (2). Pull trigger (1) and the router will start.

9.2 VARIABLE SPEED DIAL – FIG. 6

• Stock No.02519

The variable speed dial is marked 1 to MAX and corresponds to the table below:

Setting	Speed
1	Low speed
2	
3	Medium speed
4	
5	High speed
6	
MAX	

Note: Cutting speed depends on material, cutter size, cutting depth etc. Larger router bits will require a slower speed. For more detailed information refer to routing/woodworking reference material.

9.3 SETTING THE CUTTING DEPTH – FIGS. 7 – 8

- With a suitable router bit fitted place the router on to the workpiece. Rotate the turret (8) to the lowest position. Slowly plunge the router until the bit just touches the workpiece. Lock the router in this position with the plunge lock lever (3).
- Ensure the depth guide locking screw (6) is not tight and lower the rod (6.1) until it touches the turret. If necessary turn the fine height adjustment control (5) to align the nearest digit on the scale against the pointer (6.2).
- Take note of the setting before raising the rod upward to set the plunge depth (the difference between the two measurements) and securely tighten the depth guide locking screw (6).

Example: The scale reads 23. After adjustment reads 33 – the plunge depth will be 10mm.

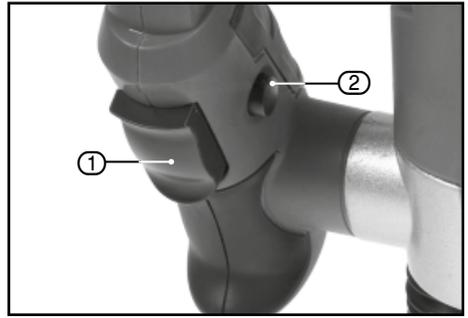


FIG.5



FIG.6

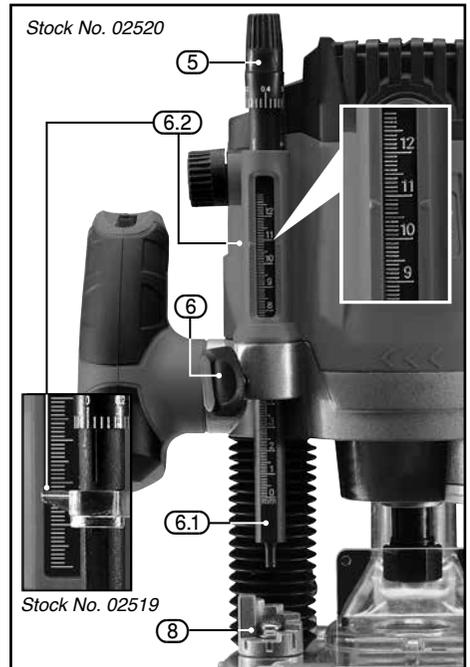


FIG.7

9. BASIC ROUTER OPERATIONS

Release the plunge lock lever and raise the router back to full height. Rotate the turret round several positions and the router is set up ready to begin work.

When beginning to cut, plunge the cutter slowly to the first depth and proceed with the cut. Take a second pass at the next step down on the turret and continue until the full depth is achieved.

Regulate the depth of the cut and speed of feed to ensure no strain is put on to the cutter or motor, however if the speed is too slow, burn marks may appear on the workpiece.

Note: The direction of rotation is marked on the machine housing above the spindle stop mechanism. Travelling along a workpiece in the wrong direction will cause the bit to pull and bounce, leading to a poor finish and possible damage.

- If, after the full depth has been routed, further material removal is necessary lock the router in the plunged position.
- Rotate the fine height adjustment control (5).
- Turning the fine adjustment anti-clockwise will increase the plunge depth. One complete turn is equivalent to 1mm plunge depth. When set, take another pass along the cut.

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

9.4 PARALLEL GUIDE ROUTING – FIG. 9

Ensure the edge along which the guide is going to travel is smooth and true as any inconsistencies will translate into the cut.

- See section 8.1 **PARALLEL GUIDE FENCE** on page 12 for assembly instructions.

When using the parallel guide an even pressure should be applied to each face except on a leading/trailing edge of a workpiece. When leading on to a workpiece apply the pressure to the forward face until both faces are on. When trailing off a workpiece apply the pressure to the rear face until the cut is complete.

9.5 TEMPLATE FOLLOWER – FIG. 10

For detailed information on templates refer to a routing/woodworking book.

- Lay the template follower (16) into the recess. Ensure the template follower faces downward and secure with the two countersunk screws (16.1).

Warning! Whilst this router is capable of cutting kitchen worktops, it should be noted that this is not a professional machine and therefore its tolerances and performance are not as accurate as a professional machine.

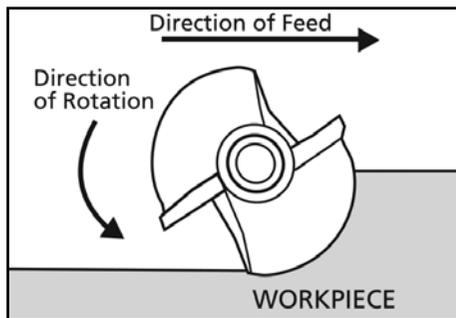


FIG.8

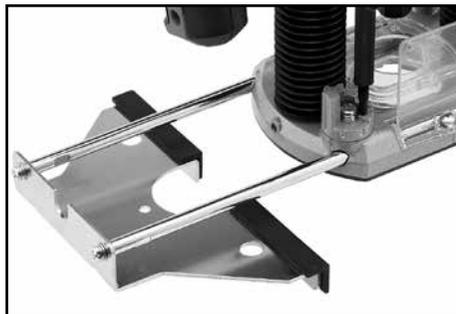


FIG.9

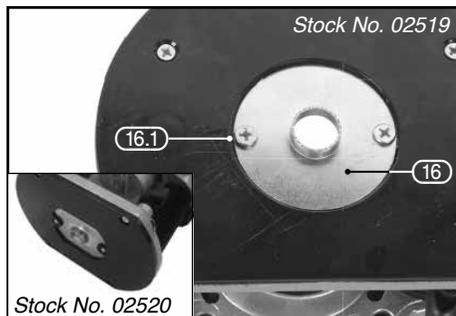


FIG.10

9. BASIC ROUTER OPERATIONS

9.6 PIVOT ROD TRAMMEL – FIG. 11

- Remove one of the 2 rods (17.2) from the parallel fence guide (17).
- Loosen the parallel fence guide locking screw (9) from the front channel.
- Insert the rod into the rod channel.
- Loosen the trammel wing nut (20.1) and slide the trammel (20) on to the end of the rod.
- Adjust the point height to suit before locking the trammel wing nut (20.1).
- Adjust the distance between the router bit and pivot point by sliding the rod to suit the diameter of the circle/hole required.
- Tighten the parallel fence guide locking knob to secure.

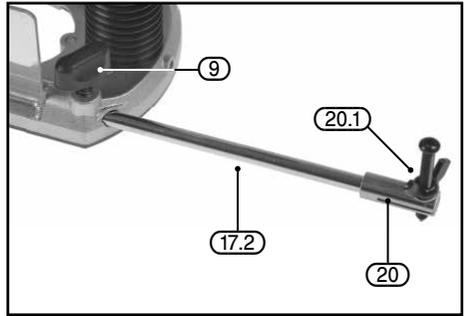


FIG.11

9.7 CURVED EDGE GUIDE (02520 only) – FIGS. 12 – 14

An optional attachment that attaches to the parallel fence guide, the curved edge guide (18) can be used to follow shaped contours of timber.

- Remove the black guards (17.1) from the parallel guide fence (17) by removing the 4 screws holding them in place.
- Retaining 2 of the above screws, use them to secure the curved edge guide (18) to the parallel fence guide (Fig.13).
- When cutting, ride the guide wheel along the contour of the workpiece to make the cut (Fig.14).

Note: It's essential that the guide wheel of the curved edge guide is kept free of dust and swarf to enable it to freely rotate. Use a suitable lubricant, if required.

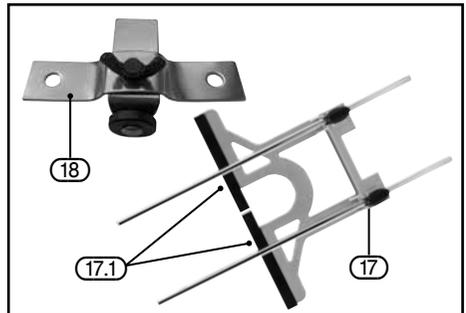


FIG.12

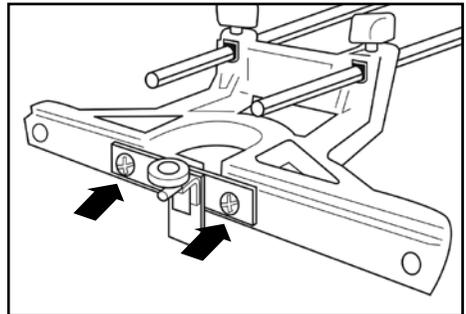


FIG.13

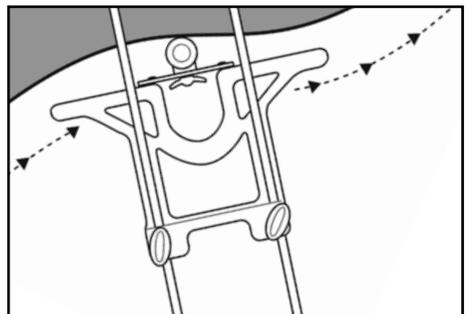


FIG.14

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.

10.2 TROUBLESHOOTING GUIDE

Problem	Possible Cause	Remedy
Motor does not start.	1. Fuse.	1. Replace/reset 13 amp time delay fuse or circuit breaker.
	2. Brushes worn.	2. Return to an authorised service agent for brushes replacement.
	3. Unsure.	3. Return to an authorised service agent for diagnosis.
Machine vibrates.	1. Router bit not suitable for application.	2. Seek guidance on bit selection.
	2. Router bit blunt.	2. When machine has stopped, replace bit.
	3. Incorrect direction of travel.	3. Change direction of travel.
Bit will not cut.	1. Attempting to remove excess material.	3. Reduce plunge depth.
	2. Router bit blunt.	2. When machine has stopped, replace bit.
	3. Incorrect direction of travel.	3. Change direction of travel.

Important: All repairs/servicing should be carried out by a qualified person.

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!



Rated wattage input.



No-load speed (revolutions per minute).



Max. plunge depth.



Electrical power supply cable length.



Net product weight.



Class II construction (Double insulated).



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



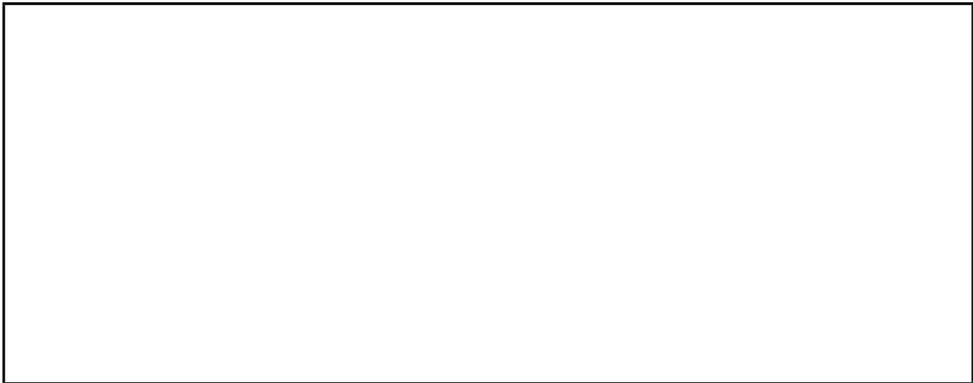
Continuous A-Weighted Sound Pressure Level (*example shown*).



UK Conformity Assessed.



European conformity.



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