DRAPER PT1202VSF 1200W 230V Variable Speed Router Instruction Manual

PT1202VSF 1200W 230V Variable Speed Router
Instruction Manual

STORM
INSTRUCTIONS FOR
1200W 230V Variable Speed Router
Stock No.83612

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.

Contents

GENERAL INFORMATION

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. Following all the general safety instructions contained in this manual will ensure both product and operator safety, together with the longer life of the product itself. Ali 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 the 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:
1200W 230V VARIABLE SPEED ROUTER
Stock no. 83612 Part no. PT1202VSF
1.2 REVISIONS:
Date first published March 2016
As our user manuals are continually updated, users should make sure that they use the very latest version.
Downloads are available from: **http://www.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 +44
GENERAL FAX: (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:

GUARANTEE

3.1 GUARANTEE

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. 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 guarantee period covering parts/labor is 12 months from the date of purchase except where tools are hired out when the guarantee period is 90 days from the date of purchase. The guarantee is extended to 24 months for parts only. This guarantee does not apply to 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 person other than the authorized Draper warranty repair agent. Note: If the tool is found not to be within the terms of the warranty, repairs and carriage charges will be quoted and made accordingly. This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorized. Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period. Please note that this guarantee is an additional benefit and does not affect your statutory rights. Draper Tools Limited.

INTRODUCTION

4.1 SCOPE

This handheld power tool is ideal for shaping woodwork, cabinetry, architrave, morticing and other associated routing work. It is intended for domestic and light commercial use only. Any other application is considered misuse.

4.2 SPECIFICATION

Stock No. …….. 83612
Part No. …… PT1202VSF
Rated voltage ……. 230V~50Hz
Rated input …… 1200W
Collets …….. 6.35mm (1/4″) & 8mm (5/16″)
Cutter Capacity ……. 30mm Plunge Stroke:
with Dust Extraction …….. 0-38mm without
Dust Extraction …….. 0-50mm
Speed (no load) ……. 10,000-30,000r/min
Sound Pressure Level …….. 84±3dB(A)
Sound Power Level …… 95±3dB(A)
Vibration Level …… 3.6m/s²
Weight ……. 3.63kg

4.3 HANDLING & STORAGE

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.

HEALTH & SAFETY INFORMATION

5.1 GENERAL POWER TOOL SAFETY WARNINGS

WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions 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.

1) Work area safety

a) Keep the 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 that may ignite 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 the 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. The 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. The 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 dust masks, nonskid safety shoes, hard hats, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off position before connecting to a power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing 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.

f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, 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. The use of these devices can reduce dust-related hazards.

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 battery pack 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. 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.

5) Service

a) 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 ROUTER USE.

1. 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.
2. Always wear a dust mask and ear protection when using this powerful tool.
3. Use only bits, which are designed for this router.
4. Use only sharp bits that are not chipped or cracked. Blunt bits will cause stalling.
5. Secure small pieces of wood firmly before working. Never hold them in your hand.
6. Danger. Keep hands away from the cutting area.
7. Secure the workpiece by means of the clamping equipment.
8. Before starting up, check that the bit is firmly positioned and secured into the collets.
9. The maximum indicated limit rotation speed of the milling bit must not be exceeded.
10. Routing must always be carried out against the direction of rotation (bit-rotation) of the bit.
11. The bit must be running at full speed before lowering into the workpiece.
12. 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.
13. Beware of the reaction torque of the machine, particularly if the bit becomes jammed in the workpiece.
14. On completion of work, allow the machine to slide back to its initial position by releasing the handle.
15. Make yourself familiar with your working area and be alert for possible hazards, which you might not hear due to machine noise.
16. Caution: Allow for a run-down time of a bit after turning the router off. Wait for the machine to come to a complete stop before removing it from the workpiece.
17. Never slow the router down with your hands.
18. Do not touch the bit immediately after the operation; it may be extremely hot and could burn you.
19. Never stop the router by applying lateral pressure to the bit.
20. Do not force the router. Your router will do a better job if you take it slowly.
21. Avoid cutting nails and screws. Inspect timber and remove all nails and screws before cutting.
22. 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.

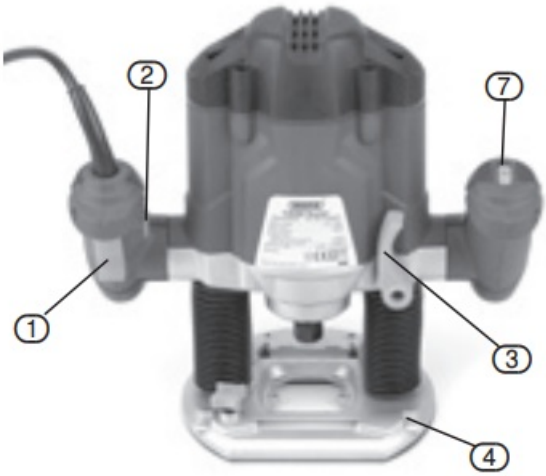
5.3 CONNECTION TO THE POWER SUPPLY

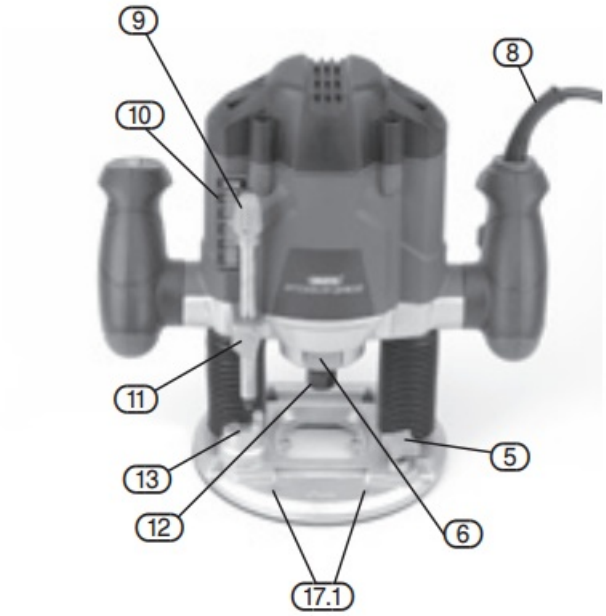
Make sure the power supply information on the machine’s rating plate is compatible with the power supply you intend to connect it to. This product comes supplied with a UK standard 3-pin plug fitted. It is designed for connection to a domestic power supply rated at 230V AC. This appliance is Class II and is designed for connection to a power supply matching that is 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. Apart from replacing the fuse in the plug, no other electrical work is recommended on this machine.

TECHNICAL DESCRIPTION

6.1 IDENTIFICATION





1. On/off trigger switch 2. Trigger the safety button 3. Plunge lock lever 4. Additional rod locking point (used in conjunction with 16) 5. Rod Locking's point 6. Spindle lock button 7. Variable speed dial	8. Molded plug & cable 9. Fine height adjustment control 10. Height adjustment scale 11. Height adjustment lock 12. Collet nut 13. Turret 14.Face shield anchor points

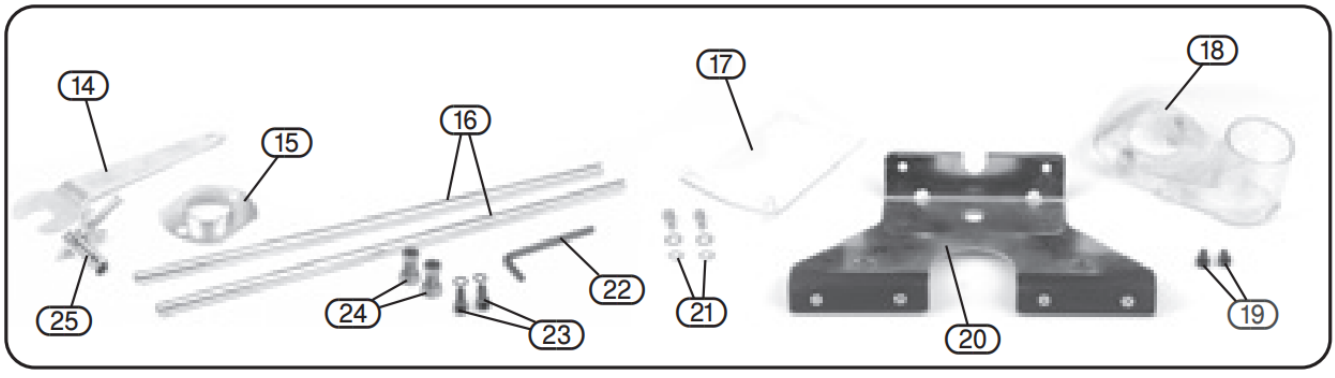
UNPACKING & CHECKING

7.1 PACKAGING

Carefully remove the router 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 router. 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 packagings 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 router; there are several parts not fitted or attached to it.

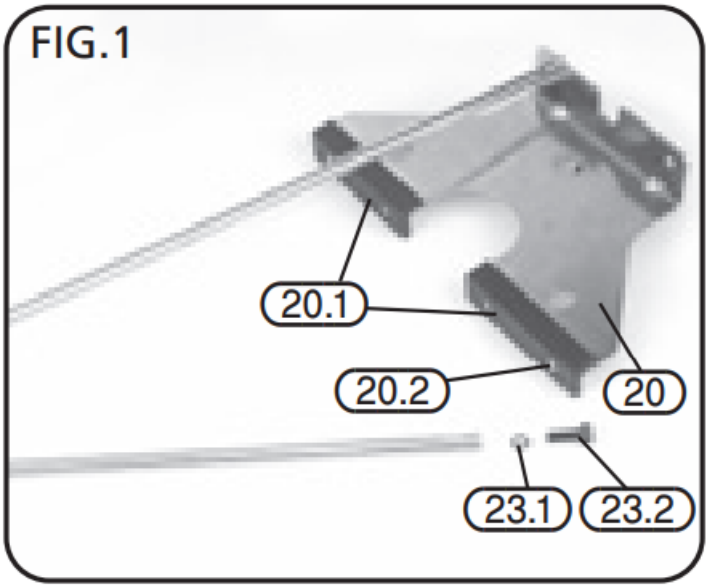


14. Spanner 15. 30mm template follower 16.Rods 17. Shield 18. Dust extraction port 19. Dust extraction port machine screws	20. Parallel guide fence 21. Shields nuts, washer, and bolt 22. 4mm hex. key 23. Rods to guide fence washers and bolts. 24. Collets 1 x 6.35mm (1 ⁄4″),1 x 8mm (5 ⁄16″) 25. Pivot rod trammel

PREPARING THE ROUTER

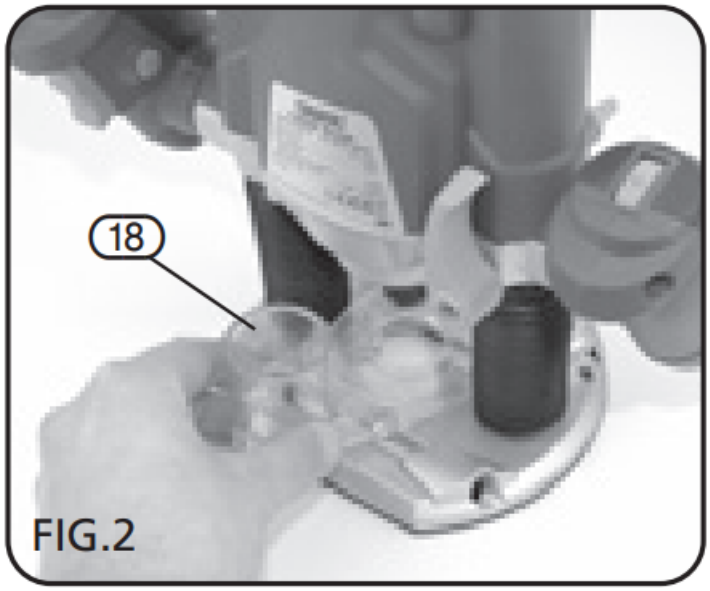
NOTE: Remove the plug from the socket before carrying out adjustment, servicing, or maintenance.

8.1 PARALLEL GUIDE FENCE – FIG. 1



Attach the two face plates 20.1 to the parallel guide fence 20 with the four machine screws 20.2 supplied. Insert screw 23.2 through the washer 23.1. Secure the rods onto guide fence 20 with the screw assembly.

8.2 DUST EXTRACTION PORT – FIGS. 2 – 3



The majority of operations will require the dust extraction to be fitted, however, some operations will be impossible with the port fitted. These require appropriate safety equipment to be worn. Fit the dust extraction port into the recess. Pass the two machine screws up through the base and into the nuts in the port. Secure the port without damaging the plastic parts by over-tightening the machine screws. **NOTE:** With the dust extraction port fitted, the plunger stroke is slightly reduced.

8.3 DUST EXTRACTION

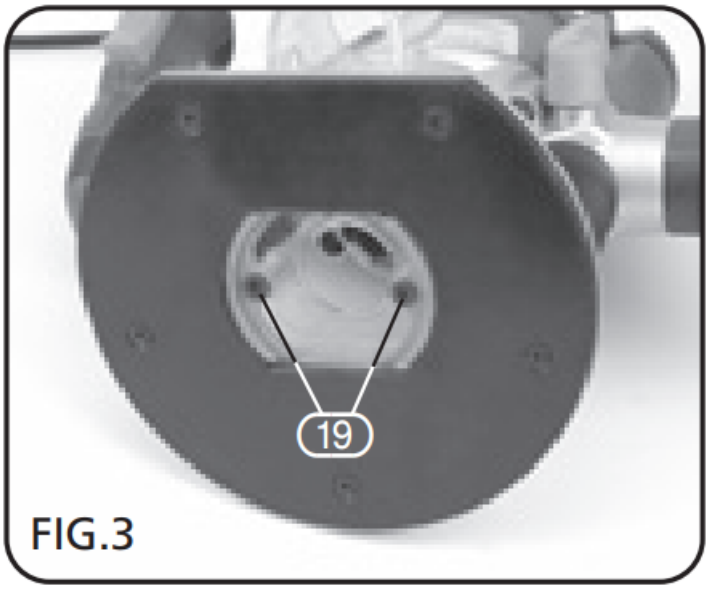


FIG.3

Inhalation of dust particles can be detrimental to health. The dust outlet must be connected with a dust extraction machine. **NOTE:** Due to the outlet diameter, a size adaptation may be necessary. All wood dust (including dust from composites like chipboards and fiber 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.

8.4 FITTING THE FACE SHIELD – FIG. 3b

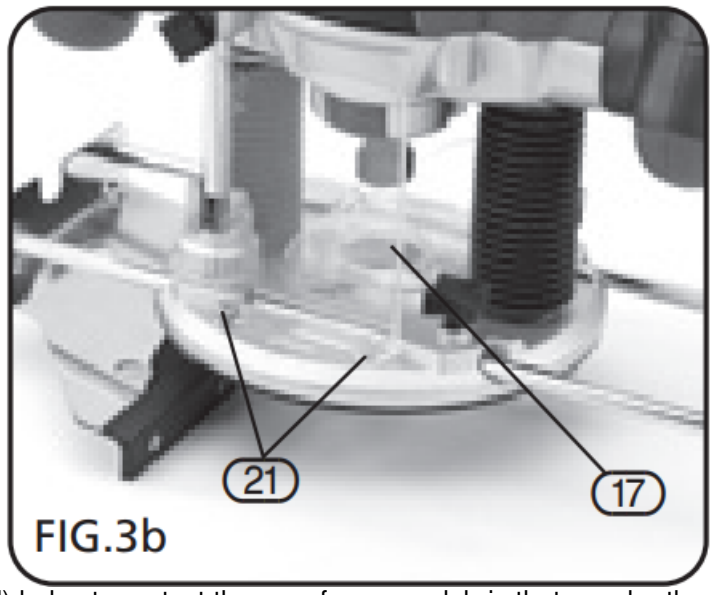
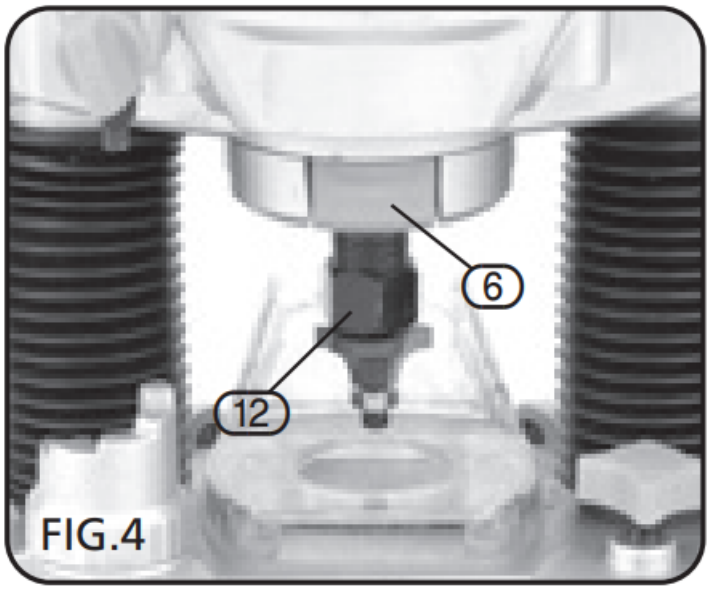


FIG.3b

The face shield (chip guard) helps to protect the user from any debris that may be thrown from the workpiece. Fix face shield 17 onto the sole plate using nuts, bolts and washers 21 making sure the fixings are facing the outside of the machine.

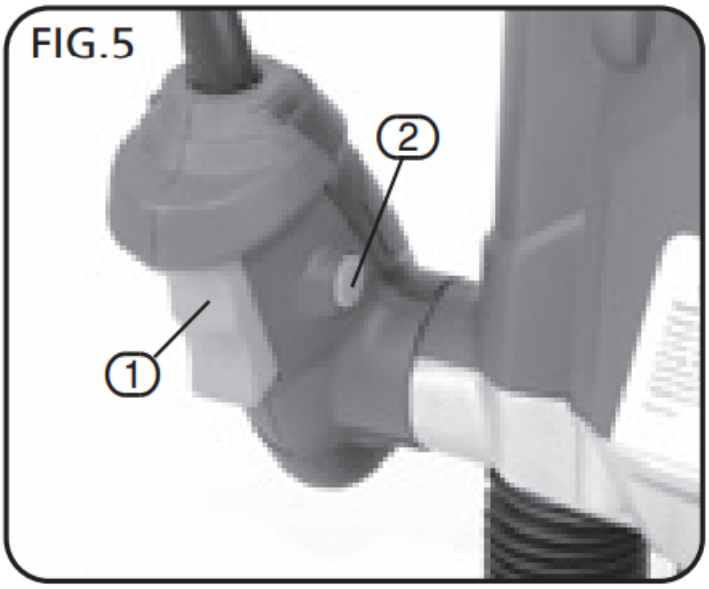
8.5 FITTING & REPLACING ROUTER BITS FIG. 4



This router is designed for use with ¼" and 8mm 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 6 and unscrew the collet nut using 12 of the spanner supplied.
NOTE: Take care not to lose the spring behind the collet. Choose from the collets provided, the appropriate size for the shank of the cutter (¼") is 6.35mm or 8mm (5/16″). 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 12.
Slide in the bit allowing approx. 5-10mm overhang before tightening the collet nut (observe the router bit's manufacturer's 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 overtighten 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.

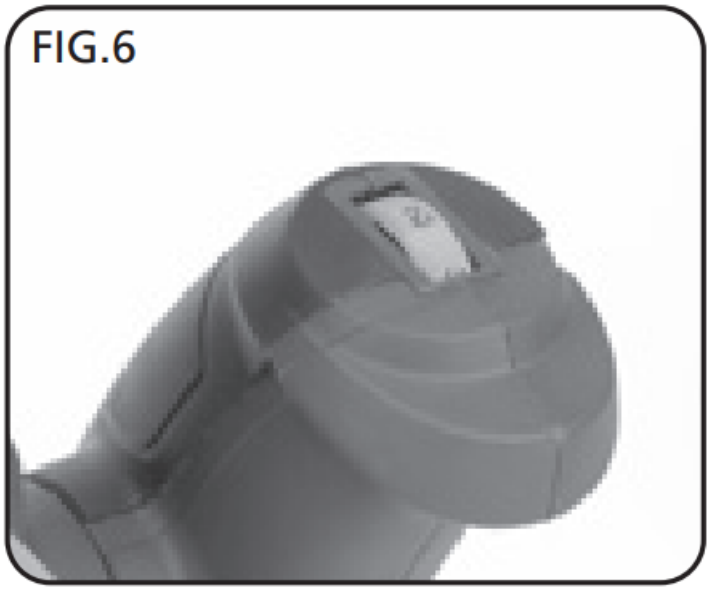
BASIC ROUTER OPERATIONS

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 the lock button. Pull the trigger and the router will start.



9.2 VARIABLE SPEED DIAL – FIG. 6

The variable speed dial is marked 1 to 7 and corresponds:



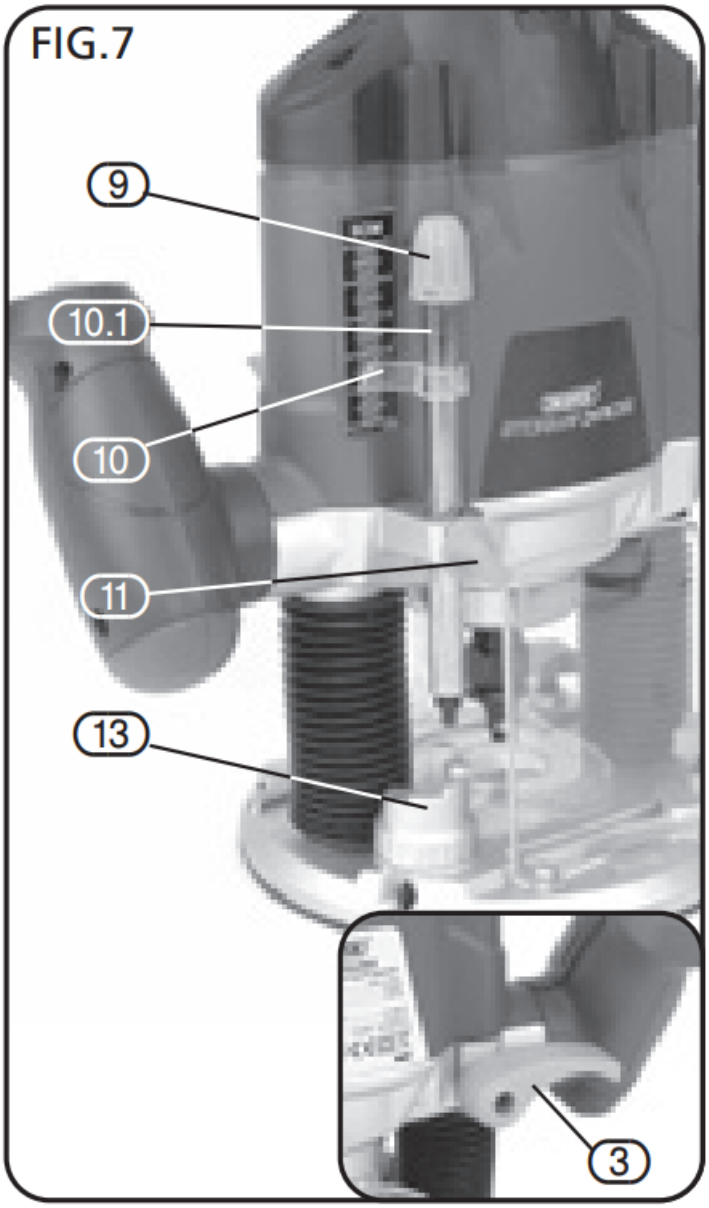
SETTING	APPROX.SPEED (r/min)
1	10,000
2	14,000
3	18,000
4	22,500
5	24,500
6	28,000
7	30,000

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

9.3 SETTING THE CUTTING DEPTH – FIGS. 7 – 9

With a suitable router bit fitted place the router onto the workpiece. Rotate turret 13 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 height adjustment lock 11 is not tight and lower the rod 10.1until it touches the turret. If necessary turn the fine height adjustment control 9 to align the nearest digit on the scale against the pointer 10.



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 height adjustment lock 11. eg. scale reads 23. After adjustment reads 33, the plunge depth will be 10mm.

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

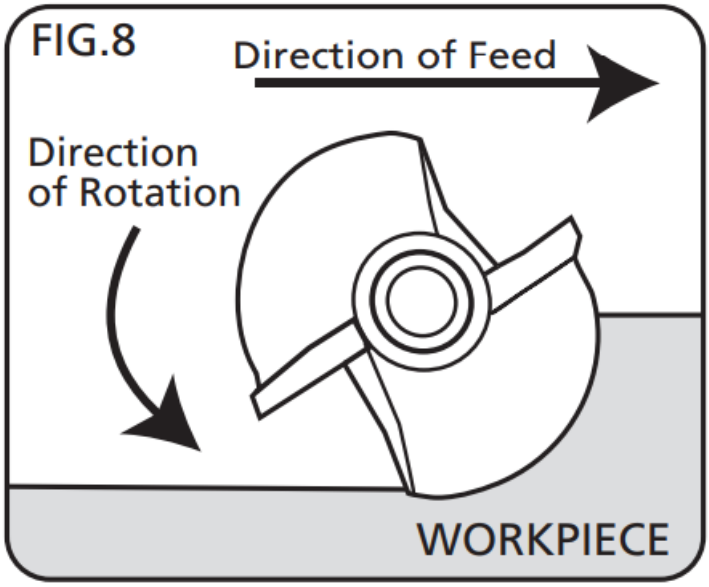
When beginning to cut, plunge the cutter slowly to the first depth and proceed with the cut. Take a second pass at the next step down on the turret and continue until the full depth is achieved.

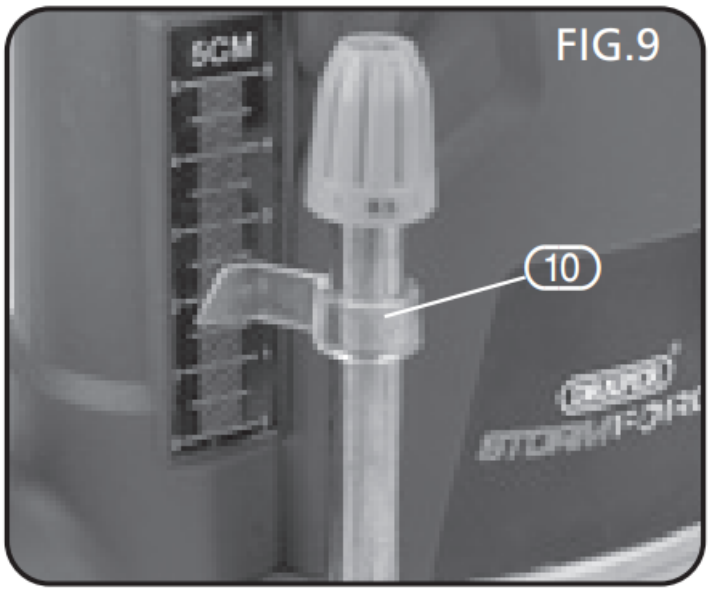
Regulate the depth of the cut and speed of feed to ensure no strain is put on to the cutter or motor, however, if the speed is too slow, burn marks may appear on the workpiece.

NOTE: The direction of rotation is marked on the metal casting above the spindle stop mechanism. Traveling 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 10. Turning the fine adjustment 10 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. 10

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

Pass the parallel guide rods through the four points in the router's base and secure them in place with lock knobs 5.

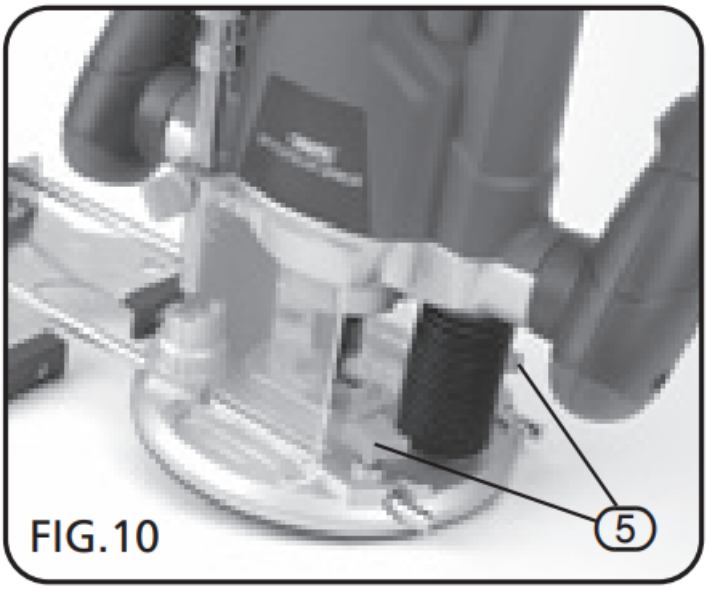
When using the parallel guide an even pressure should be applied to each face except on a leading/trailing edge of a workpiece. When leading onto a workpiece apply the pressure to the forward face until both faces are on. When trailing off a workpiece apply the pressure to the rear face until the cut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

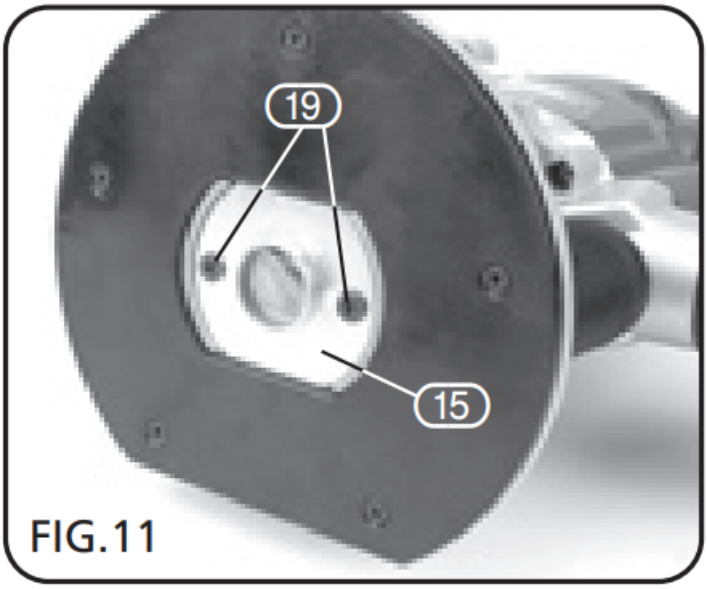
9.5 28mm INNER – 30mm OUTER DIAMETER TEMPLATE FOLLOWER – FIG. 11

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

Lay the template follower 15 into the recess. Ensure the template follower faces downward and is secure with the two countersunk screws 19.

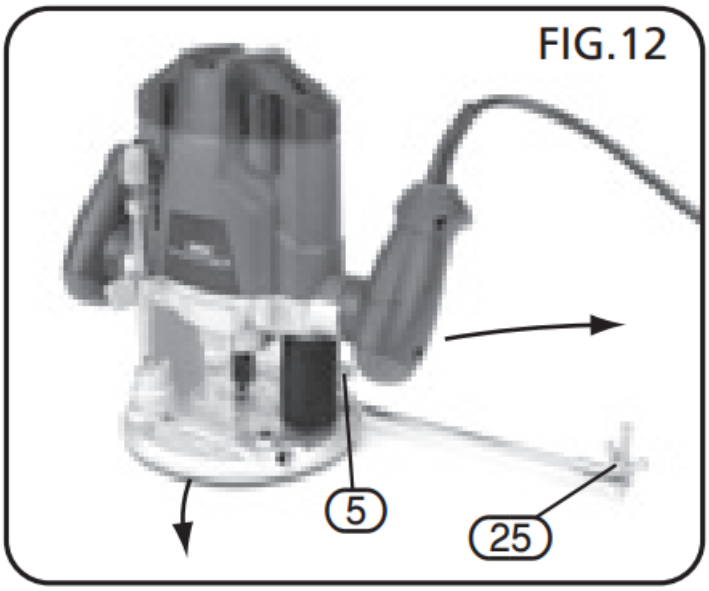
WARNING: Whilst this router is capable of cutting kitchen worktops, it should be noted that this is not a professional machine and therefore its tolerances and performance are not as accurate as a professional machine.





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

9.6 PIVOT ROD TRAMMEL – FIG. 12



Secure one of the parallel guide rods into the rear channel. Remove the rod locking knob 5 from the front channel and secure it into the additional rod locking point. Loosen the wing nut and slide the trammel 25 onto the rod end. Adjust the point height to suit before locking the wing nut. Adjust the distance between the router bit and pivot point.

TROUBLESHOOTING

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

PROBLEM	POSSIBLE CAUSE	REMEDY
The motor does no t start	1. Fuse	1. Replace/reset the time delay fuse or circuit breaker
	2. Brushes worn	2. Have brushes replaced by an authorized s ervice agent
	3. Other	3. Return to an authorized service agent
Machine vibrates	1. Router bit not suitable for application	1. Seek guidance on bit selection
	2. Router bit blunt	2. Stop the machine. When stopped, replace with a sharp bit
	3. Incorrect direction of travel	3. Change the direction of travel
The bit will not cut	1. Attempting to remove excess material	1. Reduce plunge depth
	2. Router bit blunt	2. Stop the machine. When stopped, replace with a sharp bit
	3. Incorrect direction of travel	3. Change the direction of travel

MAINTENANCE

Regular inspection and cleaning reduce 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 disconnects the tool from the power supply and vacuums the ventilation slots. If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard. Remove the plug from the socket before carrying out adjustment, servicing, or maintenance.

EXPLANATION OF SYMBOLS

12.1 EXPLANATION OF SYMBOLS

 **Warning!** Wear a dust mask.

 **Warning!** Wear suitable eye/face protection.

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

 Class II construction (Double insulated).

 **Warning!** Read the instruction manual


Warning! Wear ear defenders.

DISPOSAL

13.1 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 abandon the environment.
- Do not dispose of WEEE* as unsorted municipal waste.


* Waste Electrical & Electronic Equipment.

CONTACTS
– DRAPER TOOLS LIMITED, Hursley Road, Chandler's Ford, Eastleigh, Hampshire. SO53 1YF. U.K.
– **Help Line:** (023) 8049 4344
– Sales Desk: (023) 8049 4333
– 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
RDCH0816
drapertools.com

Documents / Resources

	DRAPER PT1202VSF 1200W 230V Variable Speed Router [pdf] Instruction Manual PT1202VSF 1200W 230V Variable Speed Router, PT1202VSF, 1200W 230V Variable Speed Router, Speed Router, Router

References

- Draper Tools Official Website | Hand Tools, Power Tools and Accessories
- Manuals | Draper Tools