

THE TOOL COMPANY

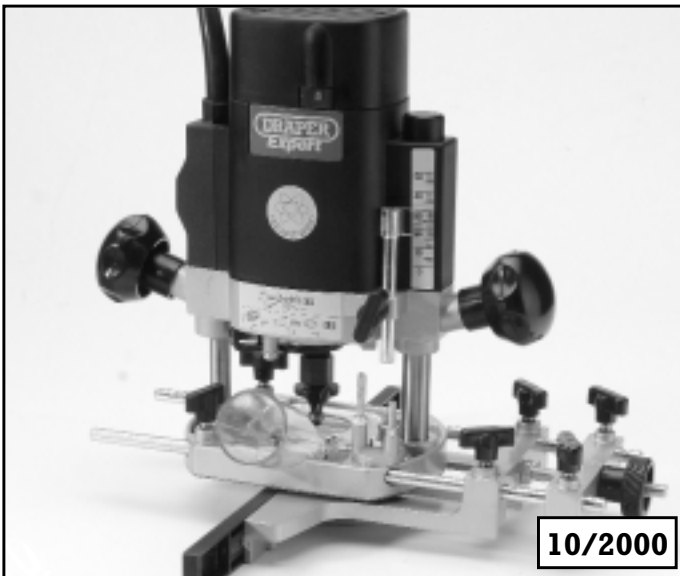
ROUTER

■ STOCK No.57852 - 230V
63173 - 110V

■ PART No.R850V
R850V

• INSTRUCTIONS •

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



GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of the power tool equipment, which should be kept with the machine.

This manual describes the purpose for which this tool has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation of the machine, before performing any kind of adjustment to the machine, and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both machine and operator safety, together with longer life of the tool itself.

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

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



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DECLARATION OF CONFORMITY

We

Draper Tools Ltd. Hursley Road, Chandler's Ford, Eastleigh, Hampshire.
SO53 1YF. England.

Declare under our sole responsibility that the product:

Stock Number:- 57852 - 63173.

Part Number:- R850V.

Description:- Router 1/4".

To which this declaration relates is in conformity with the following directive(s)
73/23/EEC & 89/336/EEC.

JOHN DRAPER
Managing Director

Issue Date: 03/10/2000



SPECIFICATION

Part No.	R850V
Stock No.....	57852
	63173
Input	850W
Cutting capacity	40mm
Speed (no load).....	9000-27000rpm
Plunge stroke	0-50mm
Sound pressure level	85dbA
Sound power level.....	98dbA
Vibration level	4.6 MS ²
Weight.....	2.8kg

WEAR EAR PROTECTION



GUARANTEE

Draper hand held professional electric power tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should the machine develop any fault where warranty applies, arrangements will be made for the tool to be returned free-of-charge to the Service Centre at Draper Tools Limited.

Please contact: **DRAPER HELPLINE - (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 the product will be repaired and tested as soon as possible free of charge, normally within five working days. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted by any personnel other than the Service Centre at Draper Tools Limited or other authorised agent.

Note: If the tool is found not to be within the Terms of Warranty, repair 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 authorised.



Your Draper guarantee is not effective unless you produce a dated receipt or invoice to verify your proof of purchase within the 12 month period.

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

Draper Tools Limited.

POWER SUPPLY

CONNECTING YOUR MACHINE TO THE POWER SUPPLY: (240V)

To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewirable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced an  approved BS1362 fuse must be used of the same rating, marked thus . The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist.

If the fitted plug is not suitable, it should be cut off and destroyed. *The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.

*WARNING:

A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

WARNING: THIS APPLIANCE IS DOUBLE INSULATED. (CLASS II) 

Blue – Neutral, Brown – Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

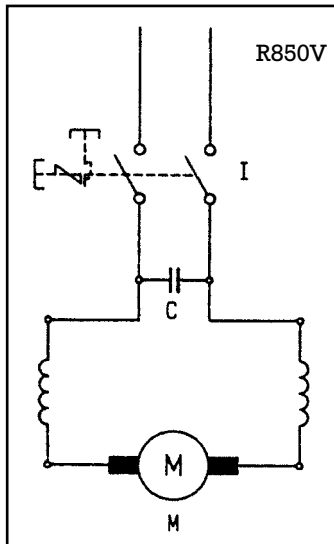
The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

CONNECTING YOUR MACHINE TO THE POWER SUPPLY (110V)

To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, rewirable plug and cable. If the fitted plug is not suitable, it should be removed, the end of the cable should be suitably prepared and the correct type of plug fitted. See below.

WIRING DIAGRAM



GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

WARNING

Please read the following instructions carefully, failure to do so could lead to serious personal injury.

IMPORTANT

Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

1. KNOW YOUR POWER TOOL

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

2. KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floors must not be slippery due to oil or sawdust.

3. AVOID DANGEROUS ENVIRONMENTS

Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.

4. KEEP CHILDREN AWAY

All visitors should be kept a safe distance from work area.

5. STORED TOOLS

When not being used, all tools should be stored in a dry, locked cupboard or out of the reach of children.

6. WEAR PROPER CLOTHING

Do not wear loose clothing, neckties or jewellery (rings, wristwatches) to catch in moving parts. NONSLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

7. USE SAFETY GOGGLES (Head Protection)

Wear CE approved safety goggles at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also, use face or dust mask if application is dusty and ear protectors (plugs or muffs) during extended periods of operation.

8. NOISE LEVELS

Some types of machines may have high noise levels when working. In such cases ear protection must be worn.

9. VIBRATION LEVELS

Hand held power tools produce different vibration levels. You should always refer to the specifications and relevant Health and Safety guide.

10. DUST EXTRACTION

If your tool is fitted with a dust extraction fitting, always ensure that it is connected and being used with a dust extractor. Vacuum cleaners can be used if suitable for the material being extracted.

11. PROTECT YOURSELF FROM ELECTRIC SHOCK

When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). If you are using a power tool in extreme conditions (e.g. high humidity or generating metal dust), always use an RCD (residual current device) at the power socket.

12. STAY ALERT

Always watch what you are doing and use common sense. Do not operate a power tool when you are tired or under the influence of alcohol or drugs.

13. WHEN WORKING OUT OF DOORS

Only use extension leads designed for that purpose.

14. ACCESS TO MAINS SOCKET

If a stationary machine is fitted with a moulded plug and cable, the machine should not be positioned so that access to the mains socket is restricted.

15. DISCONNECT POWER TO THE TOOL

When not in use, before servicing and when changing accessories such as cutters, etc.

16. AVOID ACCIDENTAL STARTING

Make sure the switch is in the OFF position before plugging the machine into the power supply.

17. NEVER LEAVE MACHINE RUNNING UNATTENDED

Turn power off. Do not leave machine until it comes to a complete stop.

18. DO NOT ABUSE THE CORD

Never carry the tool by the power cable or pull it from the socket. Keep the power cable away from heat, oil and sharp edges.

19. NEVER STAND ON TOOL

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool, so that it is necessary to stand on the tool to reach them.

20. CHECK DAMAGED PARTS

Check for damage to parts, breakage of parts, mountings and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

21. KEEP GUARDS IN PLACE

And in working order.

22. MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grips on the tool clean, dry and free of oil and grease.

23. USE RECOMMENDED ACCESSORIES

Consult the owners manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

24. REMOVE ADJUSTING KEYS AND WRENCHES

Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

25. SECURE WORK

Use clamps or a vice to hold work. This frees both hands to operate the tool.

26. DO NOT OVERREACH

Keep proper footing and balance at all times.

27. USE RIGHT TOOL

Do not force the tool or attachment to do a job for which it was not designed.

28. DO NOT FORCE TOOL

It will do the job better and safer at the rate for which it was designed.

29. DIRECTION OF FEED

Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

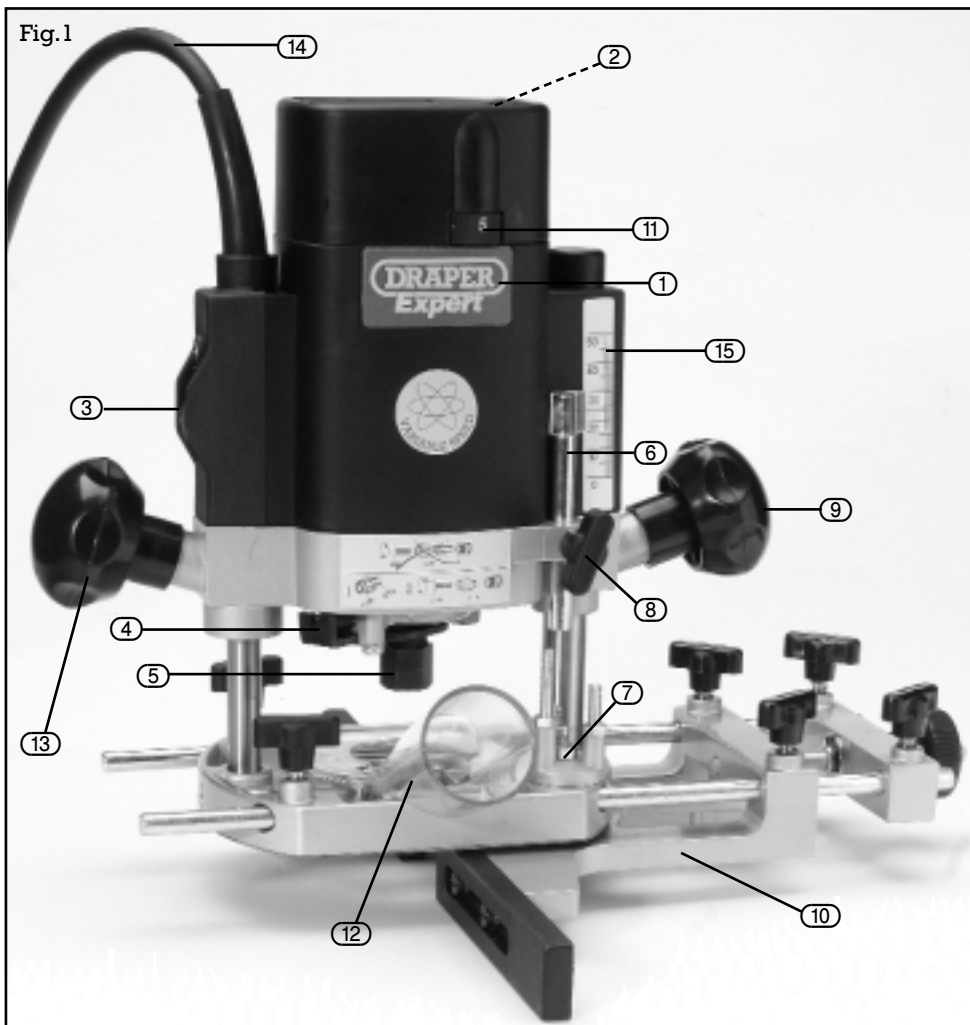
30. WHEN DRILLING OR SCREWING INTO WALLS

Always make sure there is no danger of hitting any hidden power cables, water or gas pipes in the wall.

IMPORTANT NOTE

Residual Risk. Although the safety instructions and operating manuals for our tools contain extensive instructions on 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!

GETTING TO KNOW YOUR ROUTER



- | | | |
|------------------|--|---------------------|
| 1. Draper logo | 7. Depth stop turret | 12. Dust extraction |
| 2. Rating plate | 8. Depth stop knob
(for quick adjustment) | 13. Hand grip |
| 3. On/Off switch | 9. Depth lock | 14. Power cable |
| 4. Spindle lock | 10. Parallel Guide | 15. Depth scale |
| 5. Collet nut | | |
| 6. Depth stop | 11. Speed control | |

OPERATION AND USE

IMPORTANT

Check before plugging in that the mains voltage agrees with the voltage specified on the rating plate of the machine.

Before operating the router fit the dust extraction outlet (A) (Fig.2). Push the front edge of the dust extraction outlet into the base (B) and press downwards until the back edge clips into place (Fig.2).

SWITCH

The machine is fitted with a slide switch (E). The slide is pushed upwards to start (I = on) and downwards (O = off) to stop (Fig.3).

WARNING

Make sure the switch is in the off position before connecting to the mains.

SPEED CONTROL

In order to improve the machines performance and provide maximum working efficiency on all types of material, the R850V model has an electronic speed control knob.

The knurled knob (X) is mounted on the body of the machine and is marked with numbers from 1 to 5. Minimum speed is at position 1 and the speed progressively increases to maximum speed at position 5.

Carefully choose the ideal speed for the work that has to be performed by carrying out preliminary tests (Fig.4).

The router must always be held by both hand grips (F) (Fig.3). The on/off switch (E) must be operated with your left hand.

Fig.2

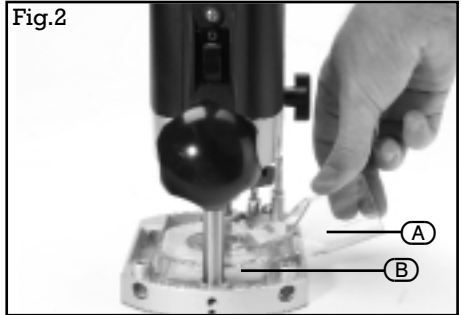


Fig.3

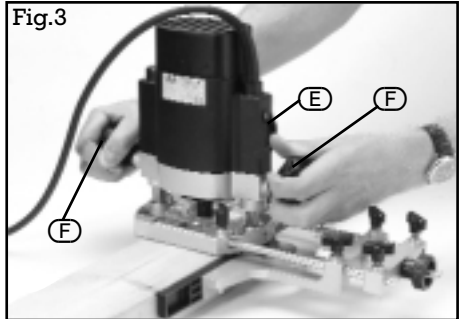


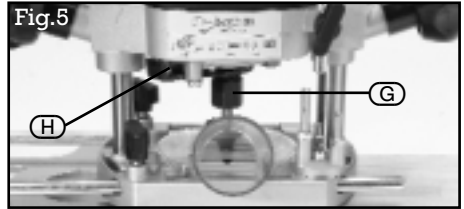
Fig.4



FITTING OR CHANGING THE CUTTER

Disconnect the machine from the power supply. The machine is fitted with a 1/4" collet. To fit the cutter ensure that the collet nut (G) is loose. If not push in the spindle locking plate (H) until it slides over the flats on the spindle and using a 17mm open ended spanner loosen the nut. Insert the cutter into the collet nut (G) and with the spindle lock engaged tighten the collet nut (G) (Fig.5).

Before starting the machine ensure that the spindle locking plate (H) is disengaged from the spindle. To remove the cutter is the reverse procedure.



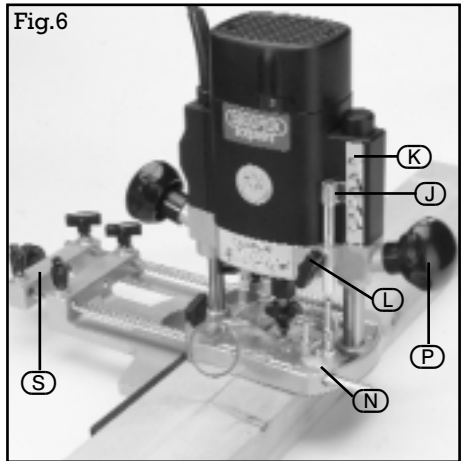
SETTING THE DEPTH STOP

The router is fitted with a depth stop (J) that can be adjusted to the required depth and indicated on the scale (K). The depth stop can be adjusted by unscrewing knob (L) which will allow the depth stop to move freely up and down. (Fig.6).

DEEP CUTS

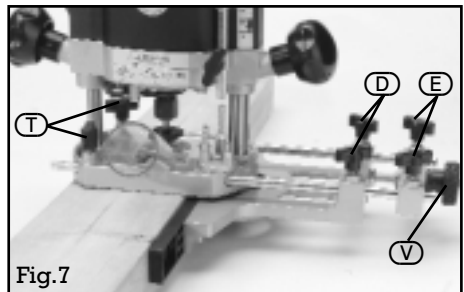
We recommend deep cuts are performed in three stages using the depth turret (N). The screws can be set in the required positions by rotating the turret (Fig.6).

When the required depth of cut is reached the router can be locked into position by turning hand grip (P) (Fig.6). (When using the router this should be the right hand grip).



PARALLEL GUIDE

The parallel guide (S) (Fig.6) can be fitted from either side of the router. When the required position is obtained the parallel guide can be secured into place by the two locking knobs (T) (Fig.7). To make any fine adjustment first loosen knobs (D) and tighten knobs (E) and (T). Turn the knurled knob (V) to the required position and then tighten knobs (D) (Fig.7).



OPERATION AND USE Cont'd.

DIRECTION OF CUT

When beginning to cut, insert the cutter slowly to the selected depth and start up in a forward motion, holding the machine with both hands. Starting the cutter in the wrong direction could cause the machine to ricochet, and this may lead to damage of the work piece (Fig.8).

IMPORTANT – DUST EXTRACTION FACILITY

Draper Tools recommends that the dust extraction facility is used in conjunction with a suitable vacuum cleaner or dust collector, see Fig.9.

Recommended Draper models: WDV24, WDV1100, SWD1100, DE2000, DE1045 & DE1030.

ALWAYS DISCONNECT FROM THE POWER SUPPLY BEFORE CLEANING OR MAINTAINING YOUR ROUTER.

IMPROPER USE

The functions and use of this tool are those exclusively indicated in this manual. **ANY OTHER USE OF THE TOOL IS EXPLICITLY FORBIDDEN.**

Fig.8

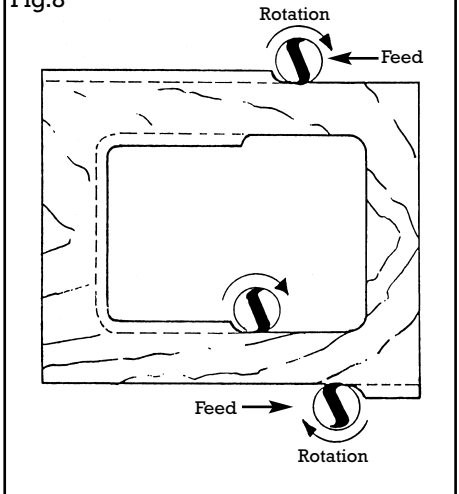
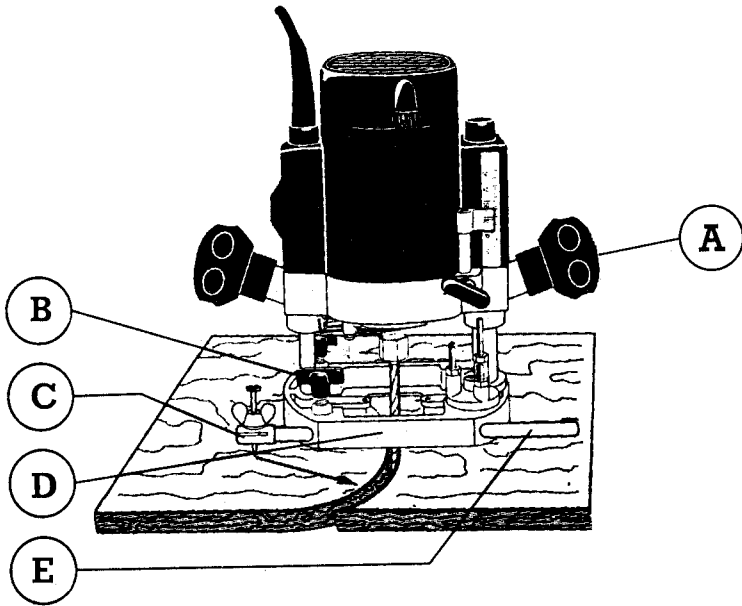


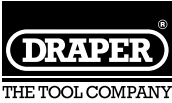
Fig.9



OPERATION AND USE Con'd



- Place the router on the part that is to be worked on.
- Adjust the cutting depth.
- Fix the guide bar **E** in the base plate **D** using wing screws **B**.
- Fit the dividers **C** and lock using the "butterfly" nut.
- Determine the radius and set the required length, then lock the wing screw **B**.
- Take the dividers to the pivoting point.
- Start the machine.
- Loosen the plunge lock **A** and move the machine vertically to the stop, then retighten the plunge lock **A**.
- Holding the router by both handles, you can now start work. The router is fed in an anti-clock direction.
- When you have finished working, unscrew Plunge lock **A** to raise the machine.
- Switch off machine



MAINTENANCE AND PARTS REPLACEMENT

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition. The tool bearings are life-long lubricated. The motor must be correctly ventilated during tool operation. For this reason avoid blocking the air inlets with hands. After use disconnect the tool from the power supply and clean carefully, use compressed air through ventilation slots.

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 the standard regulations of the country in which it is being used, and that the disposal operation is carried out by specialized personnel following authorized guidelines. In all circumstances:

- Do not abandon in the environment;
- Do not dispose of together with solid urban waste products;
- Contact the special recycling centres.

WARNING – Disconnect the plug from the power supply socket before replacing any parts.

BRUSHES

The brushes must be replaced after approximately 150-200 working hours, or if they are less than 5-6mm in length.

WARNING – For correct tool operation always change the brushes in pairs, not separately. The use of original Draper Tool spare parts is recommended. After having fitted new brushes run the motor without load for at least five minutes for the brushes to bed in.

IMPORTANT – This operation should only be performed by an authorized person.

REPLACING THE POWER SUPPLY CABLE

Check that the power supply cable is in good condition, if not have it replaced by an authorized person.



OPTIONAL ACCESSORIES

Description: **12 Piece T.C.T. Router Bit Set**

Stock No. **56834**

Part No. **DRB1**

Description: **Spare Collets**

Size **6mm**

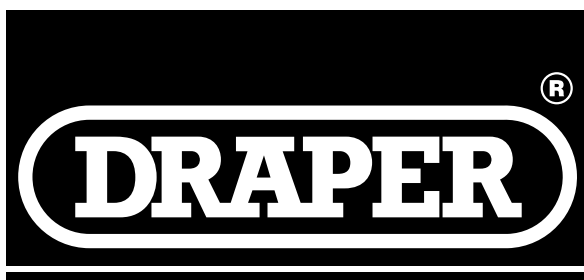
Stock No. **60562**

Size **1/4"**

Stock No. **59044**

Description: **Fine Adjustment Accessory**

Stock No. **60487**



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DRAPER TOOLS LIMITED,
Hursley Road, Chandler's Ford, Eastleigh, Hants. SO53 1YF. U.K.
Helpline: (023) 8049 4344.
Sales Desk: (023) 8049 4333.
General Enquiries: (023) 8026 6355.
Fax: (023) 8026 0784.



www.draper.co.uk

e-mail: sales@draper.co.uk

YOUR DRAPER STOCKIST

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