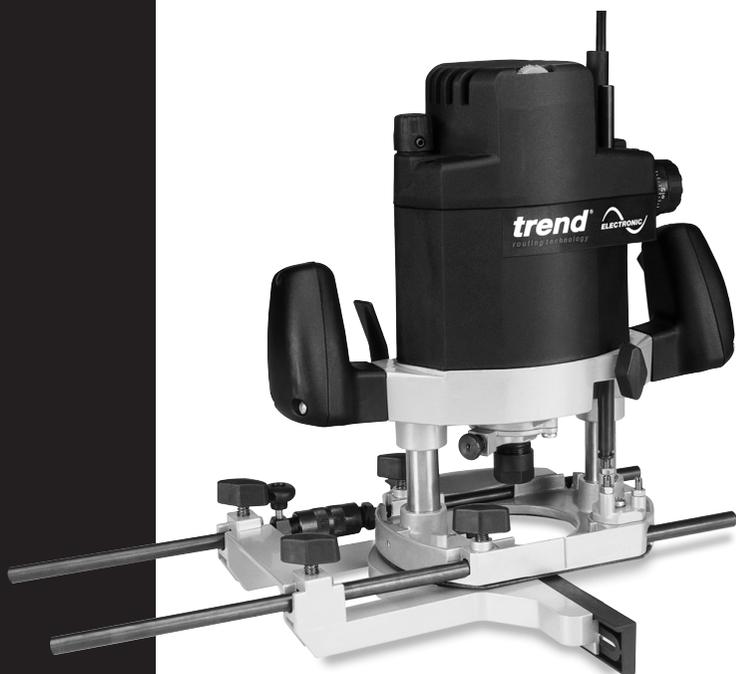




T9



trend[®]
routing technology

Dear Customer

Thank you for purchasing this Trend product, we hope you enjoy many years of creative and productive use.

Please remember to return your guarantee card within 28 days of purchase.

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TECHNICAL DATA

Voltage:	UK & Eire	230V
	UK & Eire only	110V
	Europe	230V
Power input		1800W
No load speed (min)		8,000-22,000 rpm
Router carriage		2 columns
Router carriage stroke		75mm
Revolver depth stop		3-step, turret stop adjustment with graduation
Collet size:	UK & Eire	1/4 inch (6.35mm) & 1/2 inch (12.7mm)
	Europe:	8mm & 12mm
Cutter diameter, max		75mm
Weight		5.2kg
Fuse:	UK & Eire	230V 13A in plug
	UK & Eire	110V 16A in mains
	Europe	230V 10A in mains

The following symbols are used throughout this manual:



Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.



Denotes risk of electric shock.

If you require further technical information or spare parts, please call our technical support department on 01923 224681.

SAFETY



Observe the safety regulations in the instruction manual of the Power Tool to be used or connected to this attachment. Also observe any applicable additional safety rules. Read the following safety instructions before attempting to operate this product.

PLEASE KEEP THESE INSTRUCTIONS IN A SAFE PLACE.

The attention of UK users is drawn to The Provision and Use of Work Equipment Regulations 1998, and any subsequent amendments.

General

- n Disconnect power tool, when not in use. Before servicing and when changing accessories such as cutters. Disconnect power tool and attachment from power supply. Ensure the machine is switched off before plugging tool in or connecting to a power supply.
- n Always mount the power tool, accessory or attachment in conformity with the present instructions.
- n Keep children and visitors away. Do not let children or visitors touch the tool, accessory or attachment. Keep children and visitors away from work area.
- n Make the workshop child proof with padlock and master switch.
- n Dress properly. Do not wear loose clothing or jewellery, they can be caught in moving parts. Rubber gloves and non-skid footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
- n Consider working environment. Do not use the product in the rain or in a damp environment. Keep work area well lit. Do not use power tools near gasoline or flammable liquids. Keep workshop at a comfortable temperature so your hands are not cold.
- n The accessory or attachment must be kept level and stable at all times.
- n Keep work area clean. Cluttered workshops and benches can cause injuries
- n Use the attachment with the power tools and accessories specified in this manual only. Do not force the tool or attachment to do a job for which it is not designed.
- n Secure idle tools. When not in use, tools should be stored in a dry and high or locked up place, out of reach of children.
- n For best control and safety use both hands on the power tool and attachment. Keep both hands away from cutting area. Always wait for the spindle and cutter to stop rotating before making any adjustments.
- n Always keep guards in place and in good working order.
- n Remove any nails, staples and other metal parts from the workpiece.
- n Maintain tools and cutters with care. Keep cutters sharp and clean for better and safer performance. Do not use damaged cutters. Follow instructions for lubricating and changing accessories. Keep handles dry, clean and free from oil and grease.
- n Maintain accessories. Do not use damaged accessories. Only use accessories recommended by the manufacturer.
- n Check damaged parts. Before operation inspect the attachment, the power tool, the cable, extension cable and the plug carefully for signs of damage. Check for alignment of moving parts, binding, breakage, mounting and any other conditions that may effect its operation. Have any damage repaired by an Authorised Service Agent before using the tool or accessory.
- n Do not use tool if switch does not turn it on or off. Have defective switches replaced by an Authorised Service Agent.
- n Don't over reach. Keep proper footing and balance at all times.
- n Don't abuse the cable. Never carry power tool or accessory by cord or pull it to disconnect from the socket. Keep cord from heat, oil and sharp edges. Always trail the power cord away from the work area.
- n Connect dust extraction equipment. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.
- n Check all fixing and fastening nuts, bolts and screws before use to ensure they are tight and secure. Periodically check when machining over long periods.
- n Stay alert. Watch what you are doing. Use common sense. Do not operate tools when you are tired, under the influence of drugs or alcohol.
- n Personal Protective Equipment (PPE). All PPE must meet current UK and EU legislation.
- n Do not leave tools running unattended. Do not leave tool until it comes to a complete stop.
- n Always clamp workpiece being machined securely.
- n Only use cutting tools for woodworking that meet EN847-1/2 safety standards, and any subsequent amendments.

Routing Safety

- n Disconnect router power tool. When not in use, before servicing and when changing accessories such as cutters, disconnect router and attachment from power supply.
- n Ensure router cutter has stopped rotating before changing it. Never use the spindle lock as a brake.
- n Remove adjusting keys and spanners. Form the habit of checking to see that keys and adjusting spanners are removed from the router tool, cutter and attachment before turning router on. Make sure cutter can rotate freely.
- n Check all ball bearing and blade fixing screws before use to ensure they are tight and secure. Periodically check when machining over long periods.
- n When using a template guide bush ensure it cannot come into contact with collet and nut.
- n Noise. Take appropriate measures for the protection of hearing if the sound pressure of 85dB(A) is exceeded. Routing sound pressure may exceed 85dB(A), so ear

protection must be worn.

- n Eye protection. Wear safety goggles, spectacles or visors to protect the eyes from ejected waster particles.
- n Respiratory protection. Wear a face or dust mask, or powered respirator. Dust masks/filters should be changed regularly.
- n Do not switch router on with the cutter touching the workpiece.
- n The direction of routing must always be opposite to the cutter's direction of rotation.
- n After work, release the router plunge and allow spindle to stop rotating before putting machine down.
- n Check before cutting that there are no obstructions in the path of the router. When cutting through the full thickness of the workpiece, ensure there are no obstacles beneath workpiece, and that a sacrificial work surface is used.

Additional Safety Rules For Router Cutters

- n Cutting tools are sharp. Care should be taken when handling them.
- n Always use cutters with a shank diameter corresponding to the size of the collet installed in your tool.
- n Always run router cutters at the spindle speed recommended and marked accordingly. Ensure cutter has reached correct speed before entering workpiece. Recommended speeds can be found on the packaging, in cutter instructions or in the Trend Routing Catalogue.
- n Always use router cutters in a router. Router cutters must not be used in a drill. Drill and boring bits must not be used in a router. Router cutters must only be used for the material cutting application for which they are designed. Do not use on metal or masonry.
- n Never use cutters with a diameter exceeding the maximum diameter indicated in the technical data of the power tool or attachment used.
- n Do not drop cutters or knock them against hard objects. Do not use cutters that are damaged.
- n Cutters should be kept clean. Resin build up should be removed at

regular intervals with Resin Cleaner[®]. The use of a dry lubricant (Trendicote[®] PTFE) will act as a preventative. Do not use PTFE spray on plastic parts.

- n Cutter shanks should be inserted into the collet to the mark line on the shank. This ensures that at least 3/4 of the shank length is held in the collet. Do not over-tighten the collet nut as this will score the shank and create a weakness and fracture point.
- n Observe the correct assembly instructions in the router instruction manual for fitting the collet and nut. Observe the router power tool manual instructions on fitting cutters correctly.
- n It is advisable to periodically check the collet and collet nut. A worn, distorted or damaged collet can cause vibration and damage the shank, and should be replaced. Worn collet nuts should be replaced.
- n Do not take deep cuts in one pass; take several shallow or light passes to reduce the side load applied to the cutter. Too deep a cut in one pass can stall the router.
- n Very small diameter cutters must be handled and used with care.
- n Always return cutter to its packaging after use.
- n Should you experience excessive vibration during use stop immediately. Have the eccentricity of the router, router cutter and clamping system checked.
- n All fastening screws and nuts should be tightened using the appropriate spanner or key in accordance with the manufacturers instructions.

Using Routers In A Fixed Position

- n After work, release the router plunge to protect the cutter.
- n Always use a push-stick or push-block for last 300mm of the cut.
- n Whenever possible use a work holding device or jig to secure component being machined.
- n Ensure attachment is securely fitted to the workbench, with table surface at approximately hip height.

n Ensure a No-Volt Release Switch is fixed to or adjacent to the attachment and that it is used correctly.

- n Check the direction of the workpiece is always opposite to the cutter's direction of rotation.
- n Do not use awkward or uncomfortable hand positions.
- n Do not reach underneath table or put your hands or fingers at any time in the cutting path while tool is connected to a power supply.

Useful Advice When Routing

- n Judge your feed rate by the sound of the motor. Feed the router at a constant feed rate. Too slow a feed rate will result in burning.
- n Take many light passes rather than one deep cut to reduce the side load applied to both router and router cutter.
- n Trial cuts should be made on waste material before starting any project.
- n When using some attachments including a router table or dovetail jig, the use of a fine height adjuster is highly recommended.

n When using a template guide bush, ensure there is sufficient clearance between cutter tip and inside edge of bush. Ensure cutter and guide bush are concentric.

Router Cutter Maintenance

- n Composite cutting tools (brazed tip) must be maintained by a competent person i.e. a person of training and experience, who has knowledge of the design requirements and understands the levels of safety to be achieved.
- n The design of composite tools must not be changed in the process of maintenance.
- n Replacement parts must meet Trend specification.
- n Tolerances which ensure correct clamping by the collet shall be maintained.
- n When re-grinding the tool, care must be taken not to cause weakening of the body or the connection between the cutting edge and the body.

ELECTRICAL SAFETY



Power Supply

The electric motor has been designed for one voltage only. Always check that the power supply corresponds to the voltage on the rating plate. Machines marked for 230 volt can also be operated from a 220 volt supply.



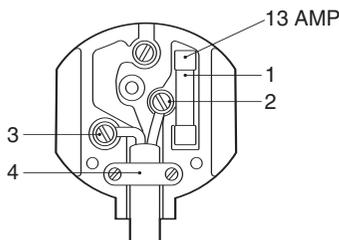
The T9 is double insulated in accordance with EN 50144; therefore no earth wire is required.

Mains Plug Replacement (UK & Ireland only)

Always check the condition of the cable and plug before starting with your work.

Should your mains plug need replacing and you are competent to do this, proceed as instructed below. If you are in doubt, contact an authorised Trend repair agent or a qualified electrician.

- n Disconnect the plug from the supply.
- n Cut off the plug and dispose of it safely; a plug with bared copper conductors is dangerous if engaged in a live socket outlet.
- n Only fit 13 Amperes BS 1363A approved plugs fitted with a 13 Amp A.S.T.A approved BS 1362 fuse (1).
- n The cable wire colours, or a letter, will be marked at the connection points of most good quality plugs. Attach the wires to their respective points in the plug (see below). Brown is for Live (L) (2) and Blue is for Neutral (N) (3).
- n Before replacing the top cover of the mains plug ensure that the cable restraint (4) is holding the outer sheath of the cable firmly and that the two leads are correctly fixed at the terminal screws.



Never use a light socket. Never connect the live (L) or neutral (N) wires to the earth pin marked E or ⚡.

Using an Extension Cable

- n If an extension cable is required, use an approved triple core extension cable suitable for the power input of this tool (see technical data).
- n When using a cable reel, always unwind the cable completely.
- n Also refer to the table below.

Cable Length (M)	Cable Rating (Amperes)	
	Voltage	
	110V	240V
7.5	15A	6A
15	15A	6A
25	20A	6A
30	25A	6A
45	25A	10A
60	25A	15A

Conductor size (mm ²)	Cable rating (Amperes)
0.75	6
1.00	10
1.50	15
2.50	20
4.00	25

For 115V units with a power rating exceeding 1500W we recommend to use a plug to BS4343 standard.

MANUFACTURERS DECLARATION



We declare under our sole responsibility that this product is in conformity with the following standards of standardised documents:

EN 50144, EN 55014, EN 60555, in accordance with the 73/23/EEC directives 98/37/EC, 73/23/EEC, 93/68/EEC, 89/336/EEC.

Level of sound pressure according to 86/188/EEC & 89/392/EEC, measured according to EN 50144:

Lpa (sound pressure) 85.5 dB(A)1

Lwa (acoustic power) 98.5 dB(A)2

Radio and TV suppression in compliance with 76/889/EEC and 82/499/EEC



INFORMATION ON NOISE/VIBRATION

The noise level when working can exceed 85 dB(A).

Wear ear protection!

Weighted root mean square acceleration value according to EN 50144:

< 2.5 (1.9) m/s² (hand arm method)

SJPhillips

Managing Director
Stephen Phillips

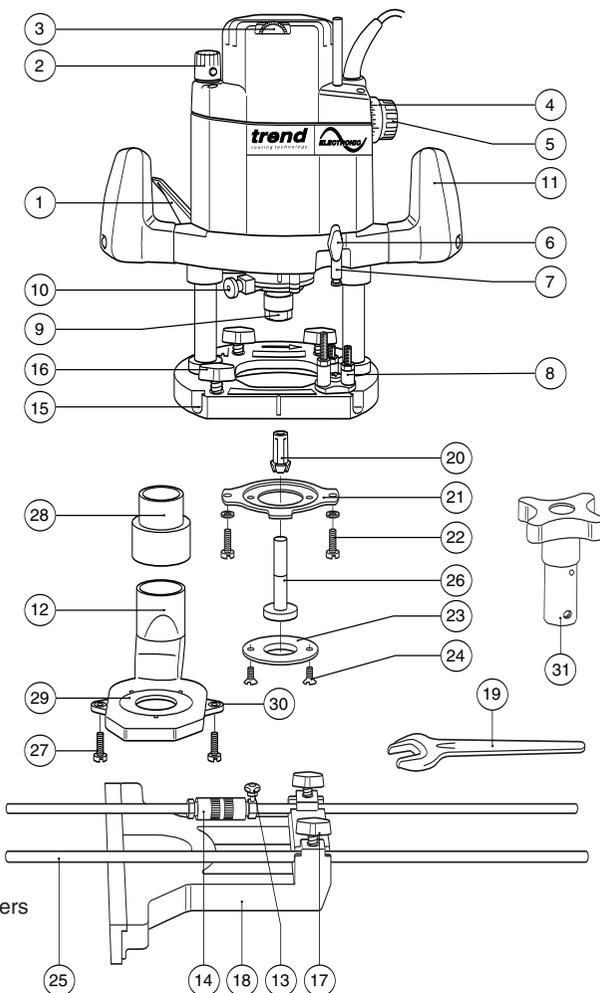
Trend Machinery & Cutting Tools Ltd.

ITEMS ENCLOSED

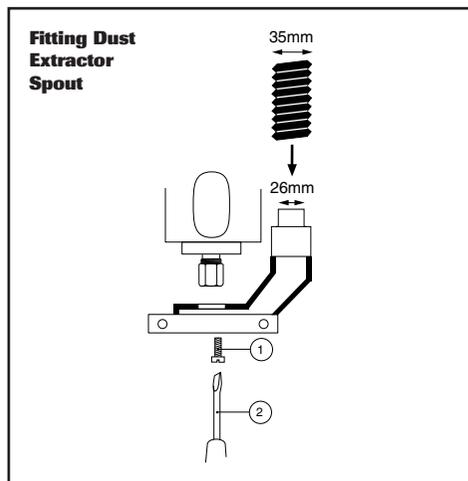
- 1 x Parallel side-fence
- 2 x Adjustable fence cheeks
- 1 x Micro fence adjuster
- 1 x Collet 1/4" (6.35mm) UK & Eire (Europe 8mm)
- 1 x Collet 1/2" (12.7mm) UK & Eire (Europe 12mm)
- 1 x Spanner (22mm A/F)
- 1 x Inner plate and fixing screws
- 1 x Line up pin 12mm/1/2"
- 1 x Guide bush 30mm and fixing screws
- 1 x Dust extractor spout with adaptor and fixing screws
- 1 x Fine height adjuster
- 1 x Instruction manual
- 1 x Guarantee registration card

DESCRIPTION OF PARTS`

- ① Plunge locking lever
- ② Plunge depth adjustment knob
- ③ Variable speed control dial
- ④ Graduated ring
- ⑤ Depth stop adjustment knob
- ⑥ Thumb knob - depth stop
- ⑦ Depth stop
- ⑧ 3 way turret stop
- ⑨ Collet nut
- ⑩ Spindle lock
- ⑪ Handle with on/off switch
- ⑫ Dust extractor spout (internal dia. 35mm)
- ⑬ Micro fence adjuster thumb knob
- ⑭ Micro fence adjuster
- ⑮ Micro fence adjuster base location
- ⑯ Thumb knob with anti-vibration springs to secure side-fence rods
- ⑰ Thumb knob with anti-vibration springs for side-fence
- ⑱ Side-fence
- ⑲ Spanner (22mm A/F)
- ⑳ Collet
- ㉑ Inner plate
- ㉒ Inner plate fixing screws and washers
- ㉓ Template guide bush dia 30mm
- ㉔ Template guide bush fixing screws
- ㉕ Fence rods dia 10mm x 450mm long
- ㉖ Template guide bush line up pin
- ㉗ Dust spout fixing screw
- ㉘ Dust spout adaptor (internal dia 26mm)
- ㉙ Dust spout insert
- ㉚ Dust spout fixing nut
- ㉛ Fine height adjuster



ASSEMBLY & ADJUSTMENT



Fitting and Removing the Dust Extractor Spout

- n Insert the extractor spout in the routing base. The extractor spout is suitable for dust extractors with a hose diameter of 35mm. A separate adaptor is supplied for use with hose Ø 26mm.
- n Gently fit the two machine screws (1) into the captivated nuts in the spout from the underside of the router. Using a screwdriver (2), tighten the screws.

Dismantle in reverse order.

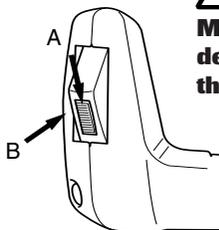


Whenever possible use the dust extraction spout with a suitable extractor when routing.

Switching On & Off



- n The router is provided with a safety device to prevent the tool being switched on accidentally. Before squeezing the switch trigger (B), it is necessary to move the slide downwards (A). To switch off release trigger.

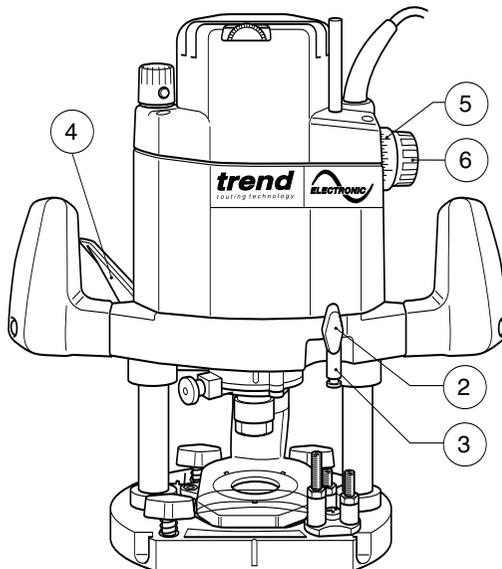


Make sure the trigger is not depressed before connecting it to the power supply!

Adjusting the Depth of Cut



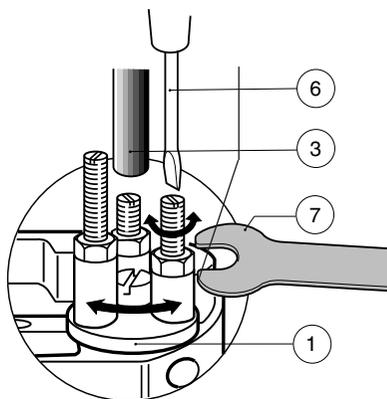
- n Place the machine on the workpiece.
- n Pre-set the 3-way turret stop (1) as required.
- n Undo the thumb knob (2) for securing the depth stop (3).
- n Lift up the plunge locking lever (4) for fixing the depth.
- n Lower the machine slowly until the cutter touches the workpiece and secure it with the locking lever.
- n Set the graduated ring (5) to '0' and by turning the knob (6) raise the depth stop (3) by the amount of required depth of cut (using the graduation ring (5)).
- n One revolution of the knob (6) equals 25mm. (Each single graduation equals a depth adjustment of 0.5mm). Then re-tighten the thumb knob (2).



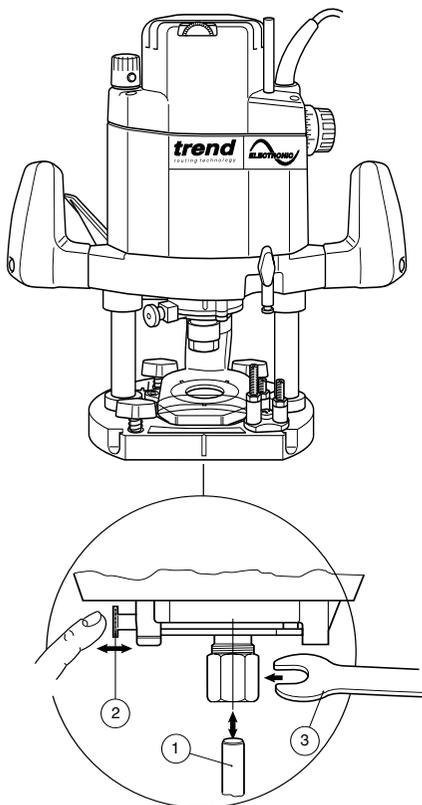
The rotating turret stop screws can be used for pre-setting up to three depths of cut. Their height can be adjusted using a screwdriver (6) and an 8mm A/F spanner (7).



- n **Never make adjustments when the router is running or plugged in.**
- n **Deep cuts should always be routed in several passes.**



By turning the turret stop, three depth settings can be quickly made.



How to Fit and Remove a Router Cutter

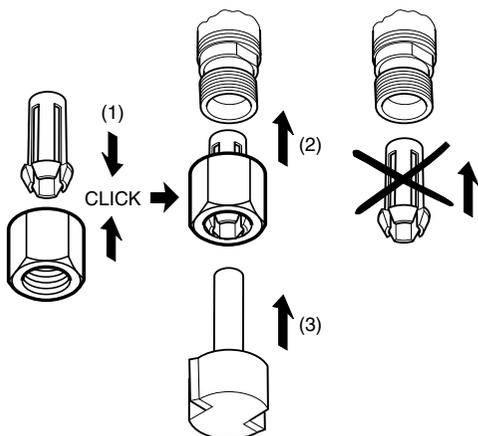
Fitting Cutters

- n Insert at least $\frac{3}{4}$ of the shank length of the cutter (1) into the collet.
- n Press the spindle lock (2) forward until the router spindle is locked (you may need to turn the spindle slightly to engage it).
- n Tighten the collet nut with the spanner (3). Do not use excessive force.

Removing Cutters

- n Undo the 22mm A/F collet nut with the spanner.
- n Keep turning the spanner until the collet nut **tightens and then loosens again**. This is the fail-safe mechanism releasing the collet.
- n The cutter should now slide out.
- n Each time you finish using a cutter, remove it and store it in a safe place.

Correct Sequence for Fitting Collet, Nut and Cutter



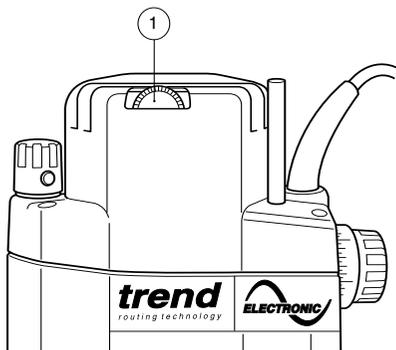
- n **Do not tighten the collet without a cutter fitted.**
- n **Always use cutters with shanks which match the diameter of the collet.**
- n **Do not use cutters larger than 45mm unless the router is fitted in a router table.**

Setting the Electronic Speed Control Dial



The speed is infinitely variable from 8,000 to 22,000 rpm using the electronic speed control dial (1) for uniform cutting results in all types of wood, plastics and in aluminium.

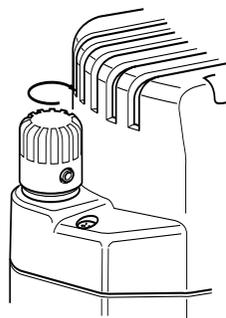
- n Turn the electronic speed control dial to the required level. The dial is numbered from 1 to 6 and corresponds to router speeds from 8,000 rpm to 22,000 rpm.
- n Generally, use the lower settings for large diameter cutters and the higher settings for small diameter cutters. The correct setting will also depend on the density of the material, depth of cut and feed speed of the router, as severe loss of rpm denotes motor overload.



Dial No.	Router Speed
1	8,000 rpm
2	10,000 rpm
3	12,000 rpm
4	15,500 rpm
5	18,000 rpm
6	22,000 rpm

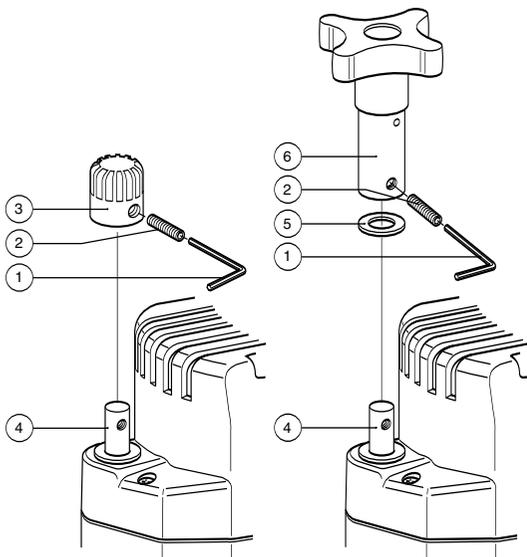
Using the Fine Height Adjuster

The optional fine height adjuster (ref. FHA/002) should be used when fine adjustment is required. This is especially recommended when using our dovetail jig or router table.



Fitting the Fine Height Adjuster

- n Lock depth of plunge with plunge locking lever
- n Using a Hex key (1) supplied with fine height adjuster, remove grub screw (2) on the plunge depth stop knob (3)
- n Gently remove depth stop knob (3) from height adjustment rod (4) by releasing the plunge lever carefully. Once removed, plunge router down and lock using plunge locking lever.
- n Fit washer (5) onto height adjustment rod (4) and then fit height adjuster assembly (6) onto height adjuster rod. Ensure that the hole in both the assembly and rod are aligned.
- n Using a Hex key (1) screw the grub screw (2) into the threaded side of the fine height adjuster body and into the thread within the rod.
- n Ensure grub screw (2) is not left proud.



Fixing Points for Accessories

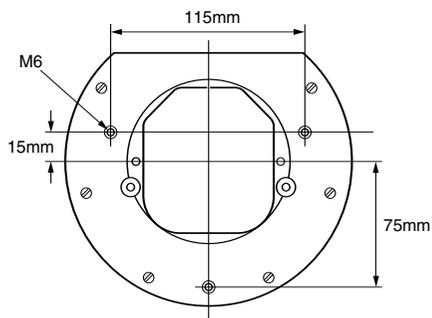
The router has three threaded holes M6 in its base that allow fitting of accessories and also fitting to router tables.

A whole range of accessories are shown in the Trend Routing Catalogue.

Stationary use

When the T9 is used in a stationary position with a no volt release switch (ref. NVRS/230V or NVRS/230V/EUR) fitted, a trigger lock (ref.

T9/LOCK) is available which will lock the trigger in the 'on' position.



The trigger lock must only be used with the router in a stationary position and with a no volt release switch fitted.



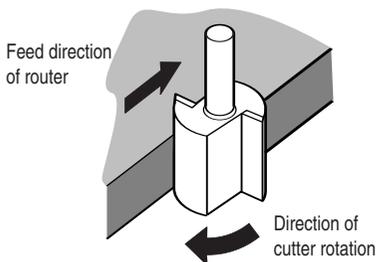
OPERATION



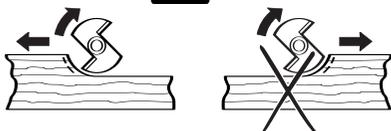
Cutting Direction



The direction of routing must always be opposite to the cutter's direction of rotation. Otherwise there is a risk of kick-back.



Feed Direction



When routing along an edge, the direction of the router travel should be against that of the rotation of the cutter. This will create the correct cutting action and prevent the cutter 'snatching'. It will also pull the router towards the workpiece and hence the side-fence or guide bearing will be less likely to wander from the edge of the workpiece.

Feed Speed



The speed at which the cutter is fed into the wood must not be too fast that the motor slows down, or too slow that the cutter leaves burn marks on the face of the wood. Practice judging the speed by listening to the sound of the motor when routing.

Sequence of plunging

Step One
Plunge down and lock the motor carriage, by depressing the plunge locking lever.

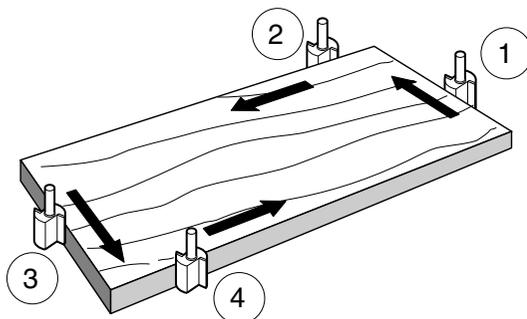
Step Two
Carry out the routing operation.

Step Three
Release the plunge locking lever and the motor carriage returns to the normal position.

Moulding Natural Timbers



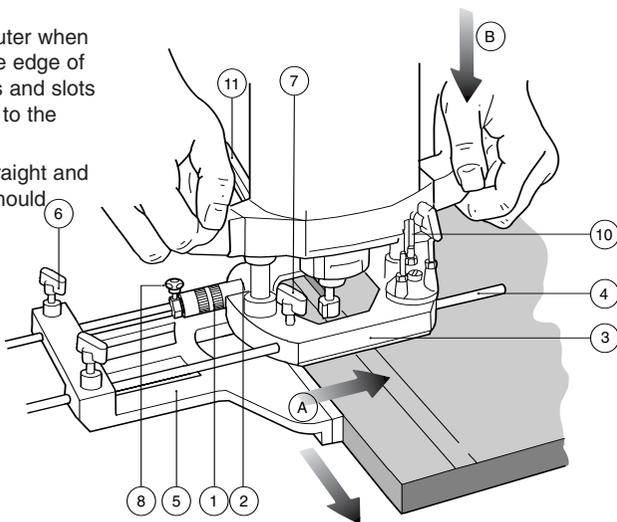
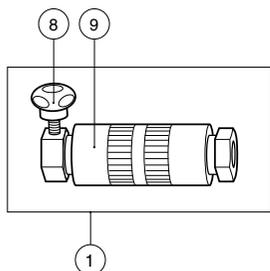
When edge moulding natural timbers, always mould the end grain first, followed by the long grain. This ensures that if there is 'breakout', this will be removed when the long grain is routed.



Side-fence Routing

The side-fence is used to guide the router when moulding, edge profiling or rebating the edge of the workpiece or when routing grooves and slots in the centre of the workpiece, parallel to the edge.

The edge of the workpiece must be straight and true. The cheeks are adjustable and should be set ideally with a 3–4mm gap each side of the cutter.

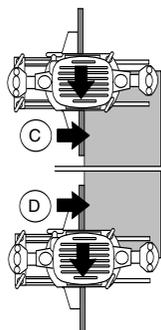


Fitting the Micro Fence Adjuster

- Insert one end of the micro fence adjuster (1) into one of the recesses (2) in the router base (3)
 - Fit the fence rods (4) into the side-fence (5). Tighten thumb knob (6) on side-fence (5).
 - Loosen thumb knobs (7) on router base (3) and slide the side-fence (5) with its rods (4) into the router base (3), one rod must also pass through the micro fence adjuster assembly (1).
 - As long as the thumb knobs (7) on the router base are loose the side fence (5) can be slid in and out of the base of the router (3). This allows approximate setting of the distance between the cutter and the side fence cheeks.
 - For fine adjustment of the distance, tighten the micro fence adjustment knob (8) and turn the micro fence adjustment barrel (9). One revolution of the micro fence adjustment barrel (9) equals 1.0mm side feed.
 - When set, lock the side-fence in position using the thumb knobs (7) on the router base (3).
- the required distance.
- Switch on the router and when the cutter reaches full speed, release the plunge locking lever (11), by lifting it up. Gently lower the cutter into the workpiece and lock the plunge locking lever (11) by depressing it.
 - Feed along the timber, keeping sideways pressure (A) to ensure the side-fence does not wander away from the workpiece edge and downward pressure on the inside hand (B) to prevent the router from tipping.
 - When finished, raise the router, secure with plunge locking lever (11) and switch off.

When starting the cut, keep the pressure on the front cheek (C) until the back cheek contacts the workpiece edge.

At the end of the cut, keep pressure on the back cheek (D) until the cut is finished. This will prevent the router cutter swinging in at the end of the workpiece and 'nipping' the corner.



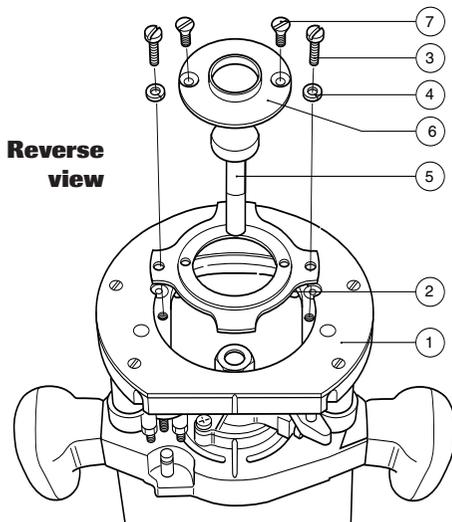
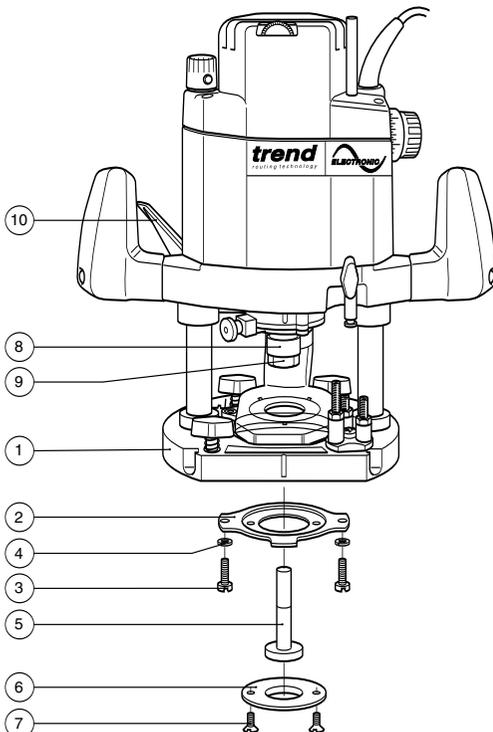
Using the Side Fence

- Lower the cutter onto the workpiece and set the cutter height by raising the depth stop (10)

Fitting the Template Guide Bush and Inner Plate

The T9 has a unique built-in line up system for the template guide bush. This system ensures that the guide bush is exactly concentric to the router cutter to ensure accurate work.

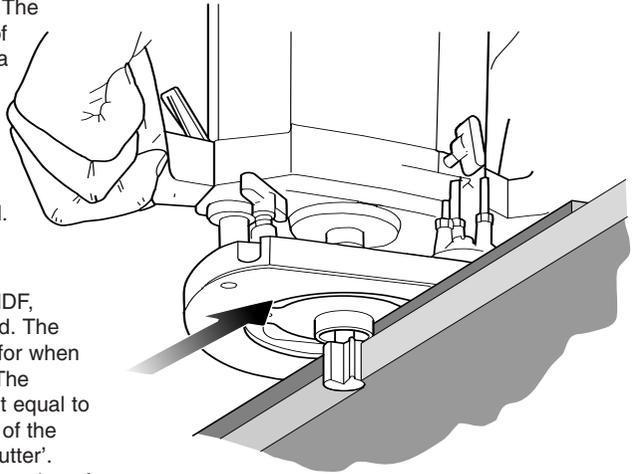
- n Turn the router upside down.
- n Fit inner plate (2) with recess facing into the recess in the router base plate (1) (raised side away from router base). Loosely fit two pan head machine screws (3) with split spring washers (4) fitted through the inner plate and screw into the base plate. **DO NOT TIGHTEN.**
- n Fit the 30mm template guide bush (6) to the raised side of the inner plate (2). Fit guide bush with the two M5 countersink machine screws (7). Tighten these screws.
- n The line up pin (5) is stepped for 12mm and 1/2" collet (8) sizes. (For the 1/2" collet simply push the line up pin further down into the 1/2" collet).
- n Fit line up pin (5) into the 1/2" collet (8) (or 12mm depending on the size fitted) in the router, lightly tighten collet nut (9) to hold the line up pin (5).
- n Release plunge lever (10) and gently depress base until line up pin (5) projects through the 30mm guide bush (6).
- n Once in line, tighten the pan head machine screws (3) with a flat screwdriver.



When routing always lock the plunge locking lever.

Routing with a Template 

The guide bush is used in conjunction with a template when the routing operation is repetitive or the workpiece is complex in shape. The template is fixed to the upper surface of the workpiece. A cutter is chosen with a diameter which will pass through the centre of the bush leaving enough clearance. The cutter can be straight or shaped. The router can then be guided around the template so that the shape of the template will be replicated.

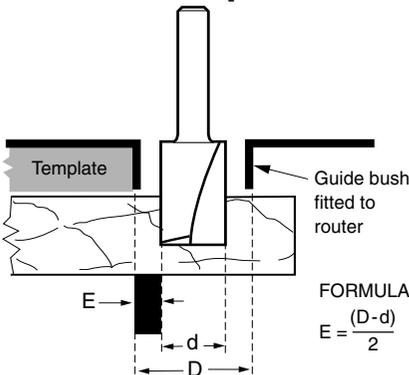


Making the Template 

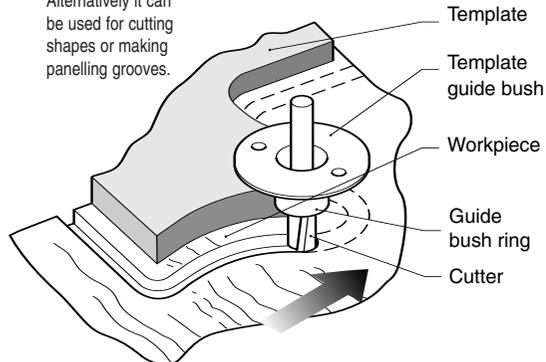
The template is cut from 6mm or 1/4" MDF, plywood or plastic to the shape required. The guide bush offset needs to be allowed for when calculating the shape of the template. The template must be smaller by an amount equal to the difference between the 'outer edge of the guide ring' and the 'outer edge of the cutter'. See below for the offset calculation. The edge of the template must be free of imperfections as these will be replicated in the final workpiece.

Using a template to rout a straight edge

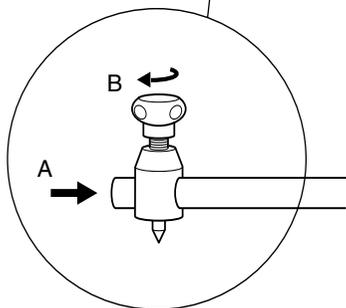
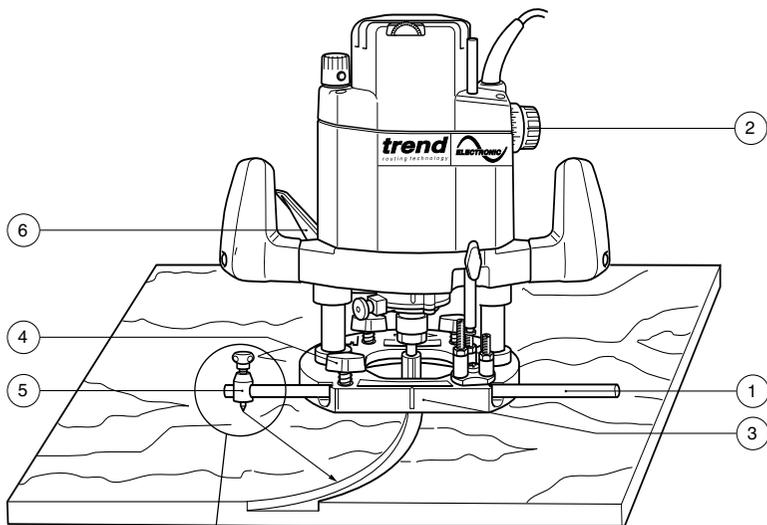
Calculations for template offset



Alternatively it can be used for cutting shapes or making panelling grooves.



Beam Trammel Routing using Accessory
Ref. BEAM/009



Fitting the Beam Trammel Attachment

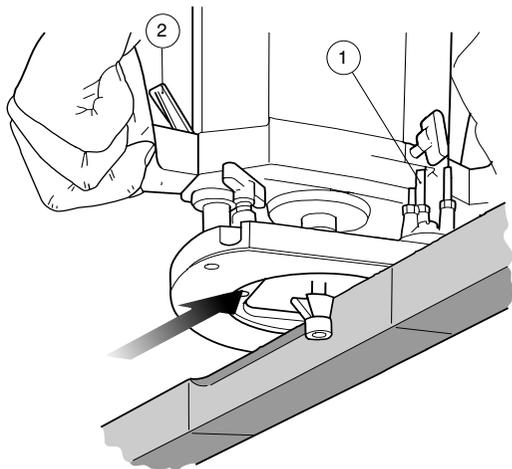
- n Fit the beam trammel attachment (A) on to one rod and tighten the knob (B) securely.

Cutting Arcs with the Router



- n Place the machine on the workpiece.
- n Set the cutting depth using the depth stop dial (2).
- n Fasten the fence rod (1) in the routing base (3) with the thumb knob (4).
- n Fit on the beam trammel (5) as shown.
- n Measure the radius and fix the point of the beam trammel in position.
- n Switch on the machine.
- n After releasing the plunge locking lever (6), lower the machine slowly as far as the depth stop and lock it there.
- n Cut grooves, rebates etc. at a steady rate of feed, in an anti-clockwise direction. Ensure the beam trammel point does not move.
- n When finished, release plunge locking lever (6) to raise the machine.
- n Switch off the machine.

Bearing Guided Cutters



- ▢ Fit the bearing guided cutter into the router collet.
- ▢ Place router onto the workpiece.
- ▢ Set height of cutter using the depth stop (1).
- ▢ Switch on the machine.
- ▢ After releasing the plunge locking lever (2), lower the machine slowly as far as the depth stop.
- ▢ With bearing of cutter running along board edge, mould the edge of the workpiece by moving the router in the direction shown.
- ▢ A continuous motion should be used to prevent burning of the workpiece. When possible, take a number of passes at increased cutter depths. A light final pass will produce a good finish.
- ▢ When complete, retract the carriage by releasing the plunge locking lever.
- ▢ Switch off the router.

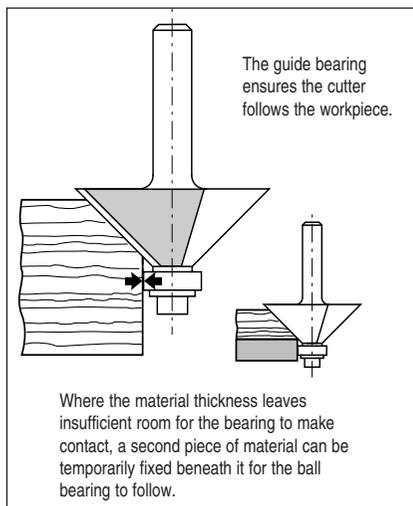
Bearing Guided Cutters



Edge profiling and shaping cutters are available with a bearing fitted to the end. This enables shaped or straight workpieces to be routed without the need for a guiding device such as a side-fence or batten.

The edge must be free from imperfections as these will be reflected in the finish of the mould. Often alternative diameters of bearings are offered which will change the shape of the resulting mould.

With certain shapes such as the chamfer cutter below, increasing the depth of cut will produce a larger chamfered edge.

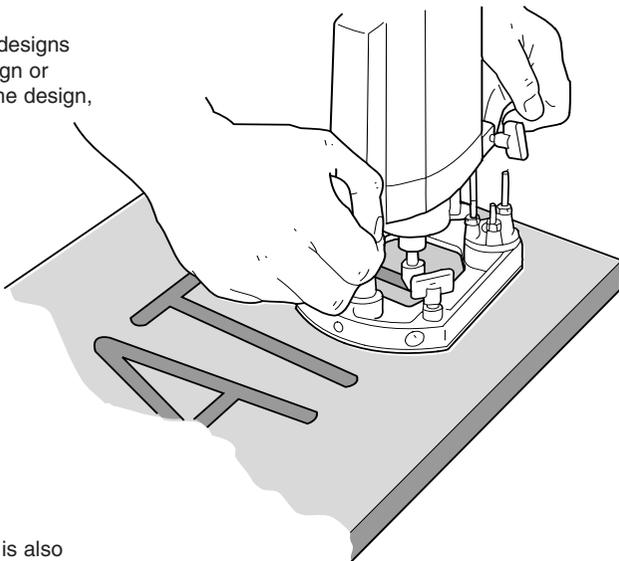
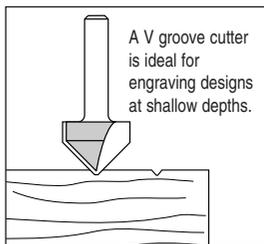


Keep downward pressure with the inside hand to prevent the router from tipping.

Freehand Routing with the Router

The T9 can also be used for signwriting or creative freehand work without any form of guide.

With practice, numbers or name plate designs can be routed freehand. Draw the design or motif on the workpiece and then rout the design, taking shallow passes.



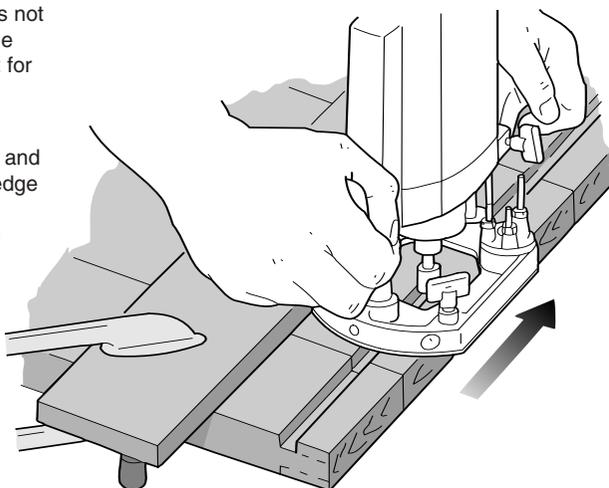
Batten Routing

Where a side-fence cannot be used, it is also possible to guide the router along a batten clamped across the workpiece (with an overhang at both ends).

Guidance from a batten is similar to that obtained from a side-fence. This method is appropriate if the edge of the workpiece is not straight or is not very smooth or simply the guide rods of the side-fence are too short for the job.

Use the straight edges of the router base and calculate the distance required from the edge of the batten to the cut required. Always check that the clamps do not obstruct the path of the router before starting the cut.

Standard technique is used, and side pressure applied to ensure the router does not wander from the batten.



MAINTENANCE AND CARE

Cleaning

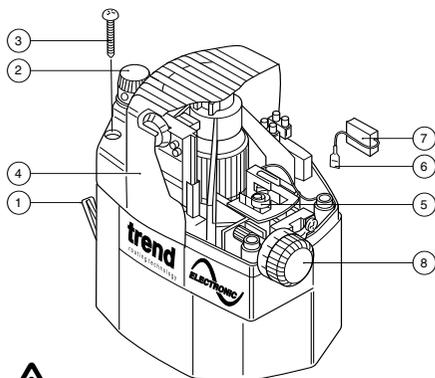
- n Keep the machine clean at all times. Some maintenance products and solvents may damage the plastic parts, these include products containing Benzene, Trichloroethylene Chloride and Ammonia.
- n Never use any caustic agents to clean the plastic parts.

Changing Brushes



Ensure machine is isolated from power supply.

The carbon brushes will need replacing when they become worn to a certain limit. This will become evident when the router won't start up again after being switched off.



It is advisable to have the brushes replaced by an authorised Trend service agent. The router will also be given a thorough inspection.

- n Isolate machine from the power supply.
- n Plunge the machine to its lowest point and lock the plunge lever (1).
- n Gently undo the plunge depth knob and rod

assembly (2), and remove.

- n Undo the four screws (3), and take off the cover (4).
- n Pull back the spring (5) and unclip the wire (6).
- n Remove the carbon brush (7) and replace it.
- n Refit the spring (5) and re-connect the wire (6).
- n Refit the cover (4) ensuring the depth stop dial (8) is correctly positioned.
- n Refit the plunge depth knob and rod assembly (2) carefully.
- n Always use original T9 spare parts.

Lubrication

- n The bearings of the machine need no lubrication, as they are sealed. The two plunge columns on the routing base should be slightly oiled from time to time.
- n Keep the cooling vents on the motor housing clean and unobstructed at all times. Blow out any dust and dirt at regular intervals.
- n Visually check the carbon brushes. In the event of excessive sparking, they may need changing.
- n After about 40 operating hours inspection by a authorised Trend service agent is recommended.

RECYCLING

Machine, accessories and packaging should be sorted for environmentally friendly recycling.

GUARANTEE

The machine carries a manufacturers guarantee in accordance with the conditions on the enclosed guarantee card.

For the location of your nearest Trend Service

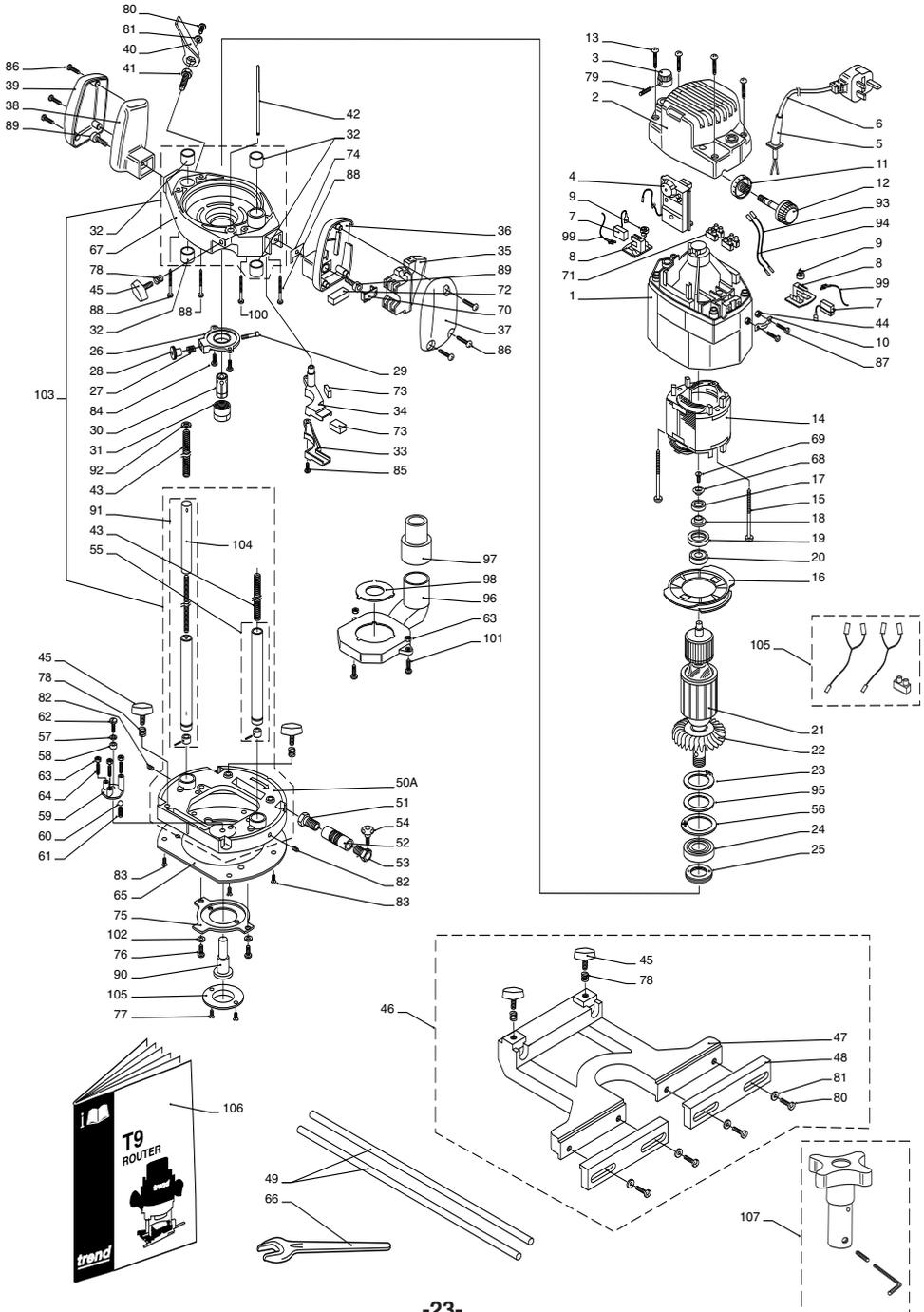
T9 - SPARE PARTS LIST			v4.0 08/2003
No.	Qty.	Desc.	Ref.
1	1	Stator Housing	WP-T9/001
2	1	Top Vent Housing	WP-T9E/002
3	1	Plunge Depth Stop Knob	WP-T9/003
4	1	Speed Control Circuit Board 230V (T9E & T9/EURO)	WP-T9E/004
	1	Speed Control Circuit Board 110V (T9EL)	WP-T9EL/004
5	1	Cable Guard	WP-T9/005
6	1	2 Core Cable With Plug 230V UK (T9)	WP-T9/006
	1	2 Core Cable With Plug 110V UK (T9L)	WP-T9L/006
	1	2 Core Cable With Plug 230V Euro (T9/EURO)	WP-T9EURO/006
7	1	Carbon Brush 230V (1 pair)	WP-T9E/007
	1	Carbon Brush 110V (1 pair)	WP-T9EL/007
8	2	Brush Holder 230V	WP-T9/008
	2	Brush Holder 110V	WP-T9L/008
9	2	Brush Spring Clip	WP-T9/009
10	1	Cable Clip	WP-T9/010
11	1	Graduated Ring	WP-T9/011
12	1	Depth Stop Adjustment knob	WP-T9/012
13	4	Screw Self Tapping 3.9mm x 22mm Pozi	WP-T9/013
14	1	Field Coil Complete 230V (T9E & T9/EURO)	WP-T9E/014
	1	Field Coil Complete 110V (T9EL)	WP-T9EL/014
15	2	Machine Screw Pan M5 x 90mm Pozi	WP-T9/015
16	1	Deflector	WP-T9/016
17	1	Magnet For Speed Control	WP-T9E/017
18	1	Magnet Holder Cover	WP-T9E/018
19	1	Bearing Cover	WP-T9/019
20	1	Top Bearing 9mm x 26mm x 8mm 629ZZ	WP-T9/020
21	1	Armature 230V (T9E & T9/EURO)	WP-T9E/021
	1	Armature 110V (T9EL)	WP-T9EL/021
22	1	Fan For Armature	WP-T9/022
23	1	Armature/Bearing Ring	WP-T9/023
24	1	Bottom Bearing 25mm x 47mm x 12mm 60005Z	WP-T9/024
25	1	Bearing Plate	WP-T9/025
26	1	Spindle Lock Body	WP-T9/026
27	1	Spindle Lock Spring	WP-T9/027
28	1	Spindle Lock Button	WP-T9/028
29	1	Spindle Lock Stud	WP-T9/029
30	1	Collet 6.35mm (T9 & T9L)	CLT/T9/635
	1	Collet 12.7mm (T9 & T9L)	CLT/T9/127
	1	Collet 12mm (T9/EURO)	CLT/T9/12
31	1	Collet Nut	CLT/NUT/T9
32	4	Bush For Columns (s/n 100001-101807)	WP-T9/032

T9 - SPARE PARTS LIST			v4.0 08/2003
No.	Qty.	Desc.	Ref.
33	1	Cable Conduit Lower	WP-T9/033
34	1	Cable Conduit Upper	WP-T9/034
35	1	Switch 230V (T9E & T9/EURO)	WP-T9E/035
	1	Switch 110V (T9EL)	WP-T9EL/035
36	1	Handle Inner Right	WP-T9/036
37	1	Handle Outer Right	WP-T9/037
38	1	Handle Inner Left	WP-T9/038
39	1	Handle Outer Left	WP-T9/039
40	1	Plunge Locking Lever	WP-T9/040
41	1	Plunge Lever Bolt	WP-T9/041
42	1	Depth Stop	WP-T9/042
43	2	Plunge Spring (s/n 100001-101807)	WP-T9/043
43A	2	Plunge Spring (s/n 101808-)	WP-T9/043A
44	2	Nut Hex M4	WP-NUT/04
45	6	Thumb Knob Male M6 x 16mm	WP-T9/045
46	1	Parallel Side-fence Complete	WP-T9/046
47	1	Parallel Side-fence Casting	WP-T9/047
48	1	Side-fence Cheeks (Pair)	WP-T9/048
49	1	Guide Rods 10mm x 450mm	ROD/10X450
50	-	-	-
50A	1	Base Casting (s/n 101808-)	WP-T9/050A
51	1	Micro Fence Adjuster End Stud	WP-T9/051
52	1	Micro Fence Adjuster Barrel	WP-T9/052
53	1	Micro Fence Adjuster Knob Stud	WP-T9/053
54	1	Micro Fence Adjuster Thumb Knob	WP-T9/054
55	-	-	-
56	1	Bearing Ring Circlip	WP-T9/056
57	1	Washer 2mm x 10mm x 0.4mm	WP-T9/057
58	1	Spacer For Revolving Guide	WP-T9/058
59	1	Revolving Guide	WP-T9/059
60	1	Ball For Revolving Guide	WP-T9/060
61	1	Spring For Revolving Guide	WP-T9/061
62	1	Machine Screw Pan Head M5 x 16mm Pozi	WP-T9/062
63	3	Nut Hex M5	WP-NUT/05
64	3	Threaded Pin M5 x 16mm	WP-T9/064
65	1	Phenolic Base Slider	WP-T9/065
66	1	Spanner 22mm A/F	SPAN/22
67	1	Lower Bearing Housing (s/n 100001-101807)	WP-T9/067
67A	1	Lower Bearing Housing c/w Bushes (s/n 101808-)	WP-T9/067A
68	1	Magnet Washer	WP-T9E/068
69	1	Machine Screw LH M4 x 10mm Slot	WP-T9E/069

T9 - SPARE PARTS LIST			v4.0 08/2003
No.	Qty.	Desc.	Ref.
70	1	Conduit Cap	WP-T9/070
71	2	Cable Block	WP-T9/071
72	1	Block Pad	WP-T9/072
73	2	Foam Packing	WP-T9/073
74	1	Handle Anti-slip	WP-T9/074
75	1	Inner Plate	WP-T9/075
76	2	Machine Screw Pan M5 x 12mm Slot	WP-SCW/42
77	2	Machine Screw Csk M5 x 8mm Slot	WP-SCW/09
78	6	Spring For Thumb Knob	WP-T9/078
79	1	Grub Screw M5 x 18mm	WP-T9/079
80	4	Machine Screw Pan M5 x 10mm Pozi	WP-SCW/44
81	5	Washer 5.4mm x 9.7mm x 1mm	WP-T9/081
82	2	Grub Screw M5 x 14mm (s/n 100001-101807)	WP-T9/082
83	6	Machine Screw Csk M4 x 8mm Pozi	WP-SCW/54
84	2	Machine Screw Pan M5 x 10mm Pozi	WP-SCW/44
85	1	Machine Screw Pan M5 x 14mm Pozi	WP-SCW/45
86	6	Screw Self Tapping 4.8mm x 19mm Pozi	WP-T9/086
87	2	Machine Screw Pan M4 x 14mm Pozi	WP-SCW/46
88	3	Screw Self Tapping 4.8mm x 45mm Pozi	WP-T9/088
89	2	Machine Screw Socket M8 x 20mm	WP-SCW/47
90	1	Line Up Pin 12mm & 1/2" Shank	WP-T9/090
91	-	-	-
92	1	Fibre Washer	WP-T9/092
93	2	Lead Cable Block to Switch (Blue x 390mm)	WP-T9/093
94	2	Lead Switch to Cable Block (Brown x 330mm)	WP-T9/094
95	1	Armature Ring	WP-T9/095
96	1	Dust Spout	WP-T9/096
97	1	Dust Spout Adaptor	WP-T9/097
98	1	Dust Spout Insert	WP-T9/098
99	2	Lead Brush Holder to Field (Red x 115mm)	WP-T9/099
100	1	Screw Self Tapping 4.8mm x 37mm Pozi	WP-T9/100
101	2	Machine Screw Pan M5 x 12mm Slot	WP-SCW/42
102	2	Washer Split Spring M5	WP-WASH/29
103	0	Base Casting c/w Lower Housing Kit (s/n 101807-)	WP-T9/103
104	1	Plunge Height Adjustment Tube	WP-T9/104
105	1	Cable Block and Lead Set 110V (T9EL)	WP-T9L/105
106	1	Guide Bush 30mm Diameter!	GB30/A
107	1	Fine height adjuster	FHA/002
106	1	Manual	MANU/T9

T9 - SPARE PARTS DIAGRAM

v4.0 08/2003



NOTES:

MANU/T9 v4.0



RECYCLABLE

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