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USER'S MANUAL

Ferm Router

FBF-850E



Ferm[®]

Art.nr. 726180
Screwfix Art.nr. 73667

FERM ROUTER FBF-850E USERS MANUAL

TECHNICAL SPECIFICATIONS

Voltage	230 V
Frequency	50 Hz
Power input	850 W
No load speed/min.	11500-32000
Max. cutting diameter	30 mm
Plunge	30 mm
Collet	6, 6.35 & 8 mm
Weight	2.9 kg
Lpa (sound pressure)	91.1 dB(A)
Lwa (sound power)	104.1 dB(A)
Vibration value	3.0 m/s ²

PRODUCT INFORMATION

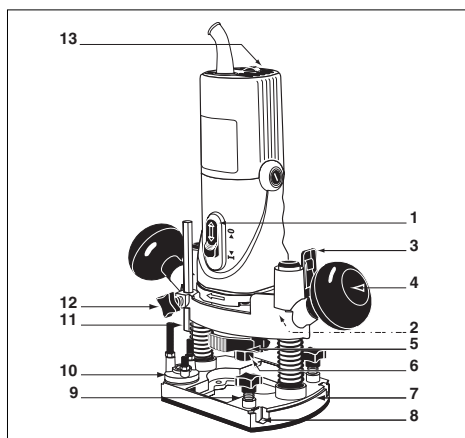


Fig.A

The FERM router has been designed for professional routing of wood, wood products and plastics.

- 1 On/off switch
- 2 Machine clamp screw
- 3 Clamping lever for depth adjustment
- 4 Handle
- 5 Spindle lock
- 6 Collet nut
- 7 Router base
- 8 Opening for parallel guide
- 9 Locking bolt for parallel guide
- 10 Revolver-depth stop
- 11 Scale cutting depth
- 12 Locking bolt depth stop
- 13 Adjusting wheel electronic speed control

PACKAGE CONTENTS


The package contains:

- | Router
- | Parallel guide
- | Template guide
- | Wrench
- | Allen wrench 4 mm
- | Routerbit straight
- | Routerbit 8 mm shank
- | Routerbit 12 mm cutter
- | Collet 8 mm (assembled on machine)
- | Collet 6 mm
- | Collet 1/4"
- | Dust collection device
- | Instruction manual
- | Safety instructions
- | Guarantee card

Check the machine, loose parts and accessories for transport damage.

SAFETY INSTRUCTIONS


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.

Carefully read this manual before using the machine. Make sure that you know how the machine functions and how to operate it. Maintain the machine in accordance with the instructions to make sure it functions properly. Keep this manual and the enclosed documentation with the machine.

Ferm products are manufactured to high quality standards, they are safe and fit for purpose at time of sale, but all tools can be dangerous if the correct precautions are not taken. Always follow these instructions, do not carry out the operation until you are sure you can do so in safety. Remember to consider the work environment for safe operation as well as safety for tool use.

 **Warning!** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before attempting to operate this product. Save these instructions for future reference.

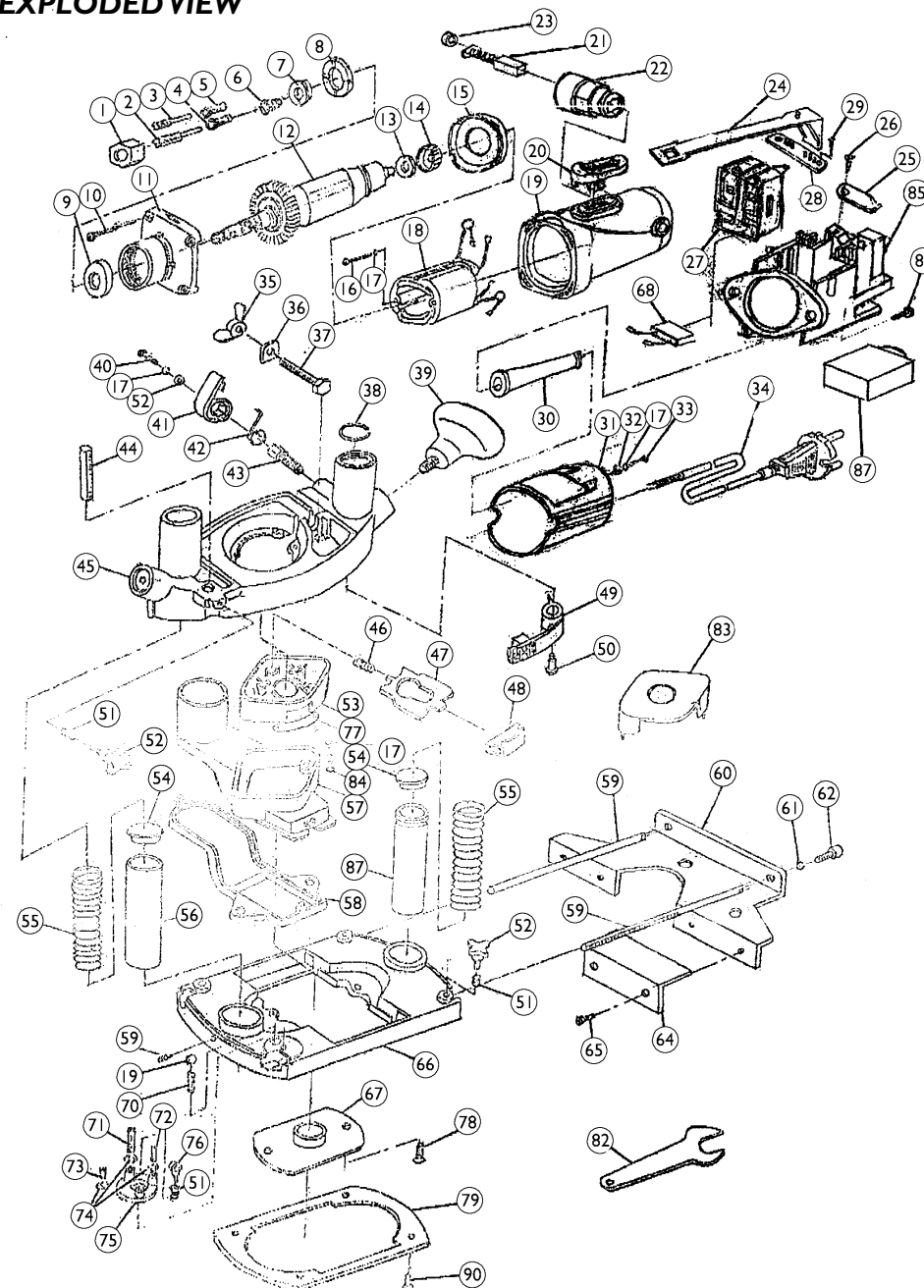
PERSONAL SAFETY

Use Personal Protection Safety Equipment

Protect eyes with safety glasses or goggles note: the use of safety protective eyewear without the CE mark can lead to serious injury if the lens breaks. A suitable dust mask should be worn if cutting, drilling or sanding is dusty, in particular chipboard or MDF.

Approved safety footwear and headgear should worn as appropriate, for example on building works or when heavy weights are involved. Wear suitable gloves and apron to protect against sparks/debris. Wear earplugs or ear defenders.

EXPLODED VIEW



SPARE PARTS LIST FBF-850E

REF NR	DESCRIPTION	FERM NR
001	COLLET NUT	312009
002	ROUTER	312014
004	SPRING COLLET 8 MM	312008
005	SPRING COLLET 6 MM	312012
012	ROTOR	302051
018	STATOR	302052
020	SWITCH ACTUATOR	302053
021	CARBON BRUSH SET	302054
023	CARBON BRUSH CAP	302055
024	PULL ROD	302056
027	SWITCH	302057
039	KNOB	302058
041	LOCKING LEVEL	302059
042	TWIST SPRING	302060
044	DEPTH RULER	302061
052	KNOB	302002
057 + 058	DUST COLLECTOR	302062
059 UNTIL 065	GUIDE COMPLETE	302063
082	WRENCH	312011
087	PCB FOR VARIABLE SPEED	302064

Dress properly

Do not wear loose clothing or jewellery. It can get caught in moving parts. Non-skid footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.

Stay alert

Watch what you are doing. Use common sense. Do not operate tools when tired or after taking alcohol or prescription/non-prescription drugs.

OPERATIONAL SAFETY



Warning! Always make sure the machine is switched off and unplugged when it's not being used, you are changing cutters or moving the work piece. See safe work order summary section for details. Be aware: this is a powerful machine and requires two hands to operate it.

Concentrate

Routine and repetition can lead to mistakes. Remember that a slight lack of concentration can result in serious injuries in a split second.

Keep work area clean

Cluttered areas and benches invite injuries.

Consider the work environment

Do not expose power tools to rain or use them in damp or wet locations. Keep work area well lit. Do not use power tools in the presence of flammable liquids, vapours or gases.

Guard against electric shock

This unit contains dangerous voltages. Use a RCD (residual current device) to provide protection against electrical shock. Prevent body contact with grounded surfaces (e.g. pipes, radiator, ranges or refrigerators).

Keep children and pets away

Do not let children or pets come into contact with the tool, extension cable or work area.

Do not force the tool

It will work better and safer at the rate for which it was intended.

Use the right tool

Do not force small tools or attachments to do the job of a heavy-duty tool. Do not use tools for purposes for which they were not intended; for example do not use a circular saw for cutting trees or logs.

Do not abuse the cable

Never carry the tool by the cable or pull it to disconnect it from the power socket. Keep the cable away from heat, oil and sharp edges. Do not touch the metal plug pins when connecting or removing the plug.

Secure work

Use clamps or a vice to hold work. It is safer than using your hand and it frees both hands to operate the tool. Be aware that this router is a powerful machine; you must use two hands to control it.

Do not over-reach

Keep a proper footing and balance at all times.

Disconnect tools from power supply

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



Always switch off and unplug the router from the power supply before making adjustments or changing cutters.

Remove adjusting keys and wrenches

Ensure that they are removed from the tool before switching on.

Avoid unintentional starting

Do not carry plugged in tools with your finger on the switch. Check that the switch is off before plugging in to socket.

Extension cables

Use only three core earthed extension cables suitable for the power input of the tool (minimum cable size 1.5mm²). Plug into an earthed socket only. When using a cable reel unwind it fully. Do not use long extension cables.

Outdoors use

If the tool is suitable to be used outdoors, only use an extension cable intended for outdoor use and marked accordingly. Use a RCD (residual current device) to provide protection against electrical shock. Do not use in rain or damp conditions.

Connect a dust extraction device

Whenever there are facilities for fitting a dust or fume extraction system, make sure it is connected and used.

Use recommended accessories

The use of any other accessory or attachment other than recommended in the instructions or catalogue may present a risk of personal injury. Use extension cables suitable for the power input of the machine (minimum cable size 1.5mm²). When using a cable reel unwind the cable fully.

MOUNTING ACCESSORIES

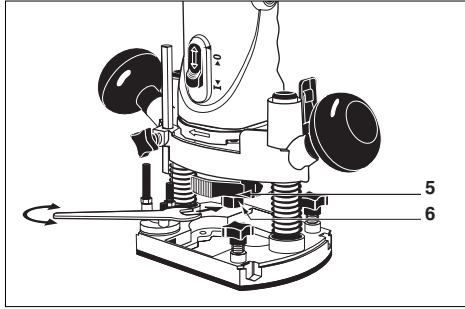


Fig. B



Prior to mounting an accessory always unplug the tool.

MOUNTING AND REMOVING CUTTERS

Only use cutters with a shaft diameter which corresponds with the size of the collet. Only use cutters which are suited for the maximum speed of the machine. The cutter diameter should not exceed the maximum diameter (see 'Technical specifications').

- Press in the spindle lock (5) and turn the spring-chuck nut (6) until it drops into the lock. Keep the spindle lock pressed in as long as you are following this procedure.
- Use the open-end wrench to unscrew the spring-chuck nut.
- Place the cutter shaft in the collet.
- Tighten the collet nut so that the cutter is locked properly.
- Open the collet nut when you want to replace a cutter.



Wait until the machine has come to a complete standstill and the cutter has cooled down before replacing a cutter.

MOUNTING AND ADJUSTING THE PARALLEL GUIDE

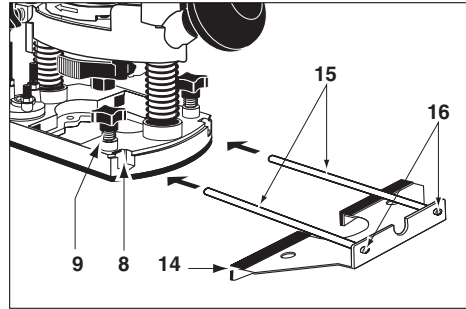


Fig. C

The parallel guide is a handy aid when working on narrow workpieces.

- Mount the parallel guide. Attach the guide rods (15) on the frame (14) using the bolts (16).
- Loosen the locking bolts (9) and slide the guide rods in the openings (8).
- Adjust the parallel guide to the desired guide distance.
- Tighten the locking bolts again.

MOUNTING THE GUIDE BUSH

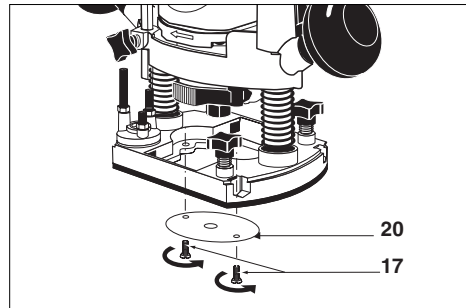


Fig. D

The guide bush is a handy aid for cutting a pattern.

- Mount the template guide (20) by using the screws (17) on the cutter sole.

MOUNTING THE ADAPTER FOR DUST EXTRACTION

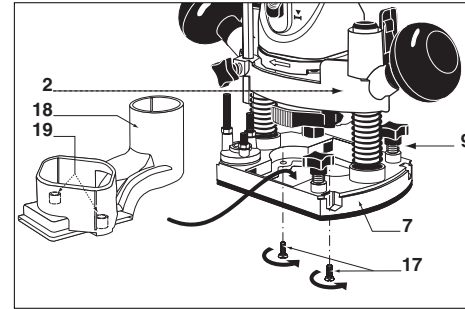


Fig.E

Use the adapter for extracting dust.

- Remove the spring-chuck nut as mentioned in 'Fitting and removing cutter bits' (Fig. B).
- Loosen the clamp screw (2) for the machine and remove the machine from the base.
- Remove the clamp screws for the parallel guide (9) on the back of the machine.
- Mount the adapter for vacuum cleaning (18) by using the screws (17) on the cutter sole (7).
- Place the clamp screws for the parallel guide back on the cutter sole.
- Place the machine back in the base and tighten the clamp screw.
- Place the spring chuck nut back on the machine.
- Place the mouthpiece of a vacuum cleaner on the outlet of the adapter.



Keep the outlet of the machine behind the machine for a good view on the workpiece.

OPERATION



Always observe the safety instructions and applicable regulations.

Hold the machine in rest position on the workpiece when switching the machine on or off. The cutter in the collet may damage the workpiece.

- Clamp the workpiece and make sure that the workpiece cannot slide from under the machine during the cutting activities.
- Hold the machine firmly and move it evenly over the workpiece. Do not force the machine.
- Only use cutters which do not show any signs of wear. Worn cutters have a negative effect on the efficiency of the machine.
- Always switch off the machine first before removing the plug from the wall socket.

ADJUSTING THE CUTTING DEPTH

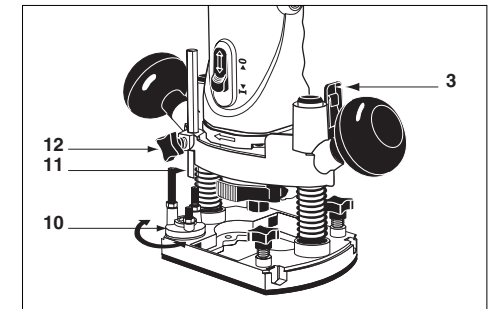


Fig.F

The cutting depth can be adjusted in two ways.

Adjustment using the scale

- Loosen the locking bolt of the depth stop (12).
- Release clamping lever (3) and press the machine so far down until the cutter touches the workpiece.
- Tighten the clamping lever again.
- Set the desired cutting depth using the graduated scales (11) and then tighten the clamp screw.

Adjustment using the revolver- depth stop

The revolver-depth stop enables you to quickly choose between three different cutting depths. These are also determined by the adjustment of the depth scale (11).

- Adjust the required cutting depth by the three screws on the revolver-depth stop (10).

SWITCHING ON AND OFF

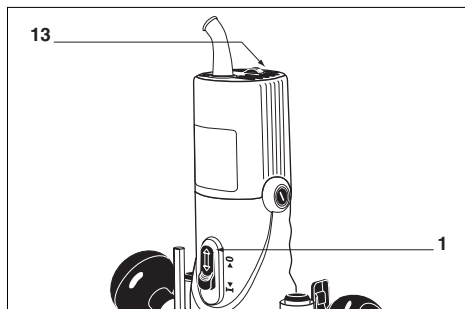


Fig.G

- Depress the on/off switch (1) to switch the machine on. Then push the switch through its resistance to lock the switch in the on position. The cutter speed can be adjusted by means of the adjusting wheel (13).
- Release the on/off switch to switch the machine off or push the switch again when it is in locked position.



Always select a low speed for cutting plastic workpieces.

Do not put the machine down when the motor is still running. Do not place the machine on a dusty surface. Dust particles may enter the mechanism.

MAINTENANCE, CARE AND REPAIR



Switch off and unplug the machine before carrying out any cleaning, adjusting or changing blades.

CLEANING

Do not use water or flammable liquids to clean the router.

FAULTS

Switch OFF immediately at the mains plug and remove the plug when:

- The plug or cable is damaged.
- The switch on the machine is defective.
- You smell or see smoke caused by scorched insulation in the machine.

The motor runs hot (over 70°C)

- The motor has been overloaded, cut more slowly.
- The motor is defective; take to your local dealer for repair.

The router does not work when switched on

- Damaged plug/fuse, replace as required.
- Defective switch, take to local dealer for repair.

The router does not cut cleanly or wanders off line.

- The cutter is blunt or bent, replace with suitable sharpened or new one.

The router makes a lot of noise and does not run smoothly.

- The carbon brushes need replacing.

Take to your local dealer for inspection or repair. There are no user serviceable/repairable parts inside this unit. **Qualified service engineers must carry out repair and servicing.**

MAINTAIN TOOLS WITH CARE

Keep the tool clean for better and safer performance. Store the cutters properly in accordance with the maker's instructions. Follow instructions for changing accessories. Inspect tool and extension cables periodically and if damaged, have them repaired by a qualified person or authorised service body. Keep handles free from oil or grease. Keep the ventilation slots clean to prevent the motor overheating.

Check for damaged parts

Do not use a tool with damaged parts, before further use a damaged tool must be carefully checked by a qualified person to determine that it will operate properly. Check for alignment of moving parts, binding or breakage of parts, mounting and other conditions that may affect its operation. A damaged part or guard should be properly repaired by an authorised service centre, unless indicated otherwise in the instruction manual. Have defective switches replaced by an authorised service centre. Do not use a tool if the switch does not turn on and off.

Have your tool repaired by an expert

This appliance is manufactured in accordance with relevant safety standards. Only experts must carry out repairing of electrical appliances, otherwise considerable danger for the user may result.

Storing tools

When not in use tools should be stored in the dry, out of reach of children.

LUBRICATION

The machine requires no user lubrication

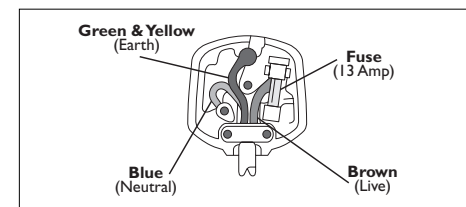
ELECTRICAL INFORMATION

This product is complete with a pre-wired mains plug, it is double insulated in accordance with EN 50144 – no earth wire is required. If the plug needs replacing follow these instructions.

Wire correctly

The wires in the mains lead are coloured in the following way:

- | | |
|--------------|-----------|
| BLUE | • Neutral |
| BROWN | • Live |



Secure wires

Secure wires carefully and firmly to the correct terminals. Secure the mains cable in the plug cord grip firmly. Fit a 13-amp fuse. If a 13amp (BS1363) plug is used a (BS1362) ASTA approved 13-amp fuse must be fitted.

Recycle/Dispose of old plug and cable

Prevent inadvertent connection to socket and risk of electric shock.

ENVIRONMENT

Recycle the packaging according to the identification marks on it. At the end of the product or its accessories life please recycle where facilities exist - phone the Helpline for current advice on recycling.

HELPLINE

For any queries relating to operational or safety matters contact:

Ferm Customer Helpline on: **0115 966 1199**
Monday-Friday **8am – 6pm**
Saturday **9am – 1pm**

GUARANTEE

The guarantee conditions can be found on the separately enclosed guarantee card.

CE DECLARATION OF CONFORMITY (UK)

We declare under our sole responsibility that this product is in conformity with the following standards or standardized documents

**EN50144-1, EN50144-2-17,
EN55014-1, EN55014-2,
EN61000-3-2, EN61000-3-3,**

in accordance with the regulations.

**98/37EEC
73/23EEC
89/336EEC**

from 24-01-2003
GENEMUIDEN NL
W. Kamphof
Quality department