

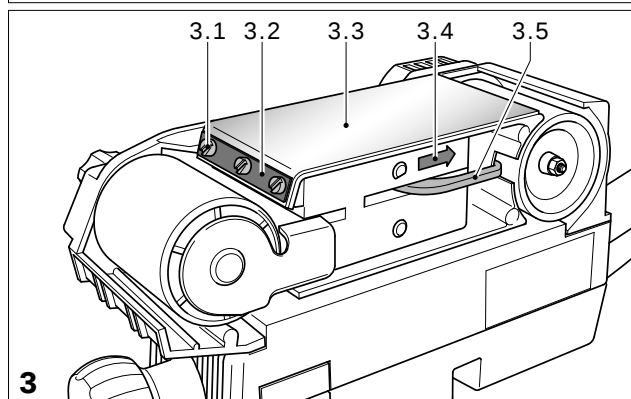
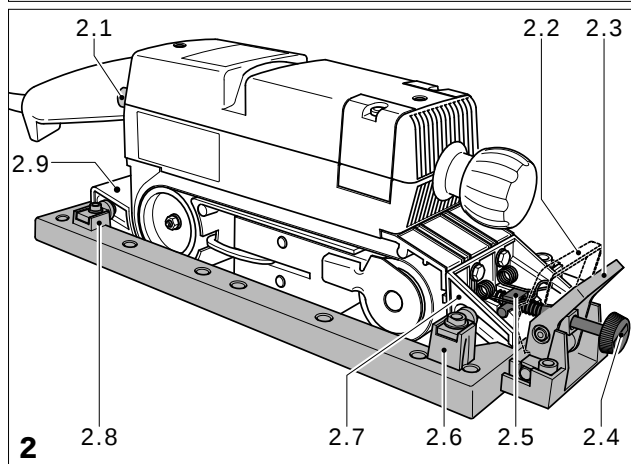
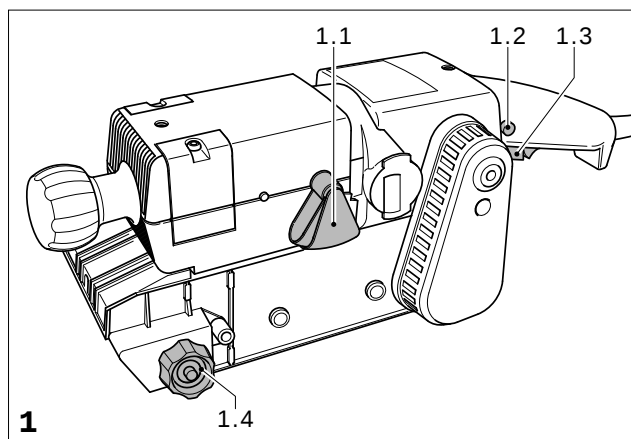
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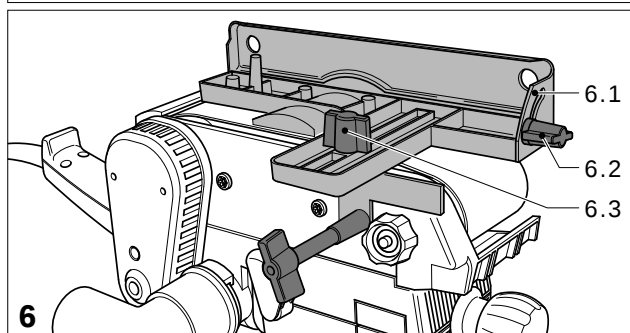
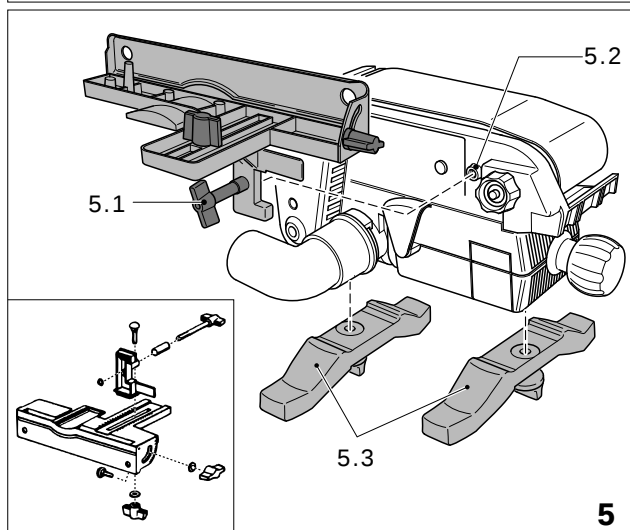
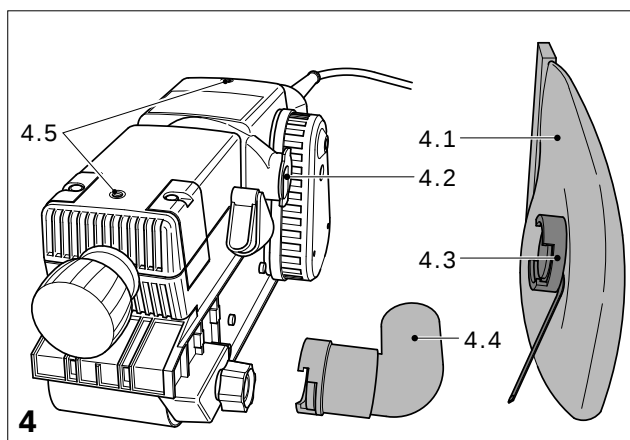
FESTOOL

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BS 75
BS 75 E









Belt sander

Technical data		BS 75/BS 75 E
Sanding width		75 mm
Belt length		533 mm
Wattage		800/1,010 W
Belt speed		
no-load	315/200 – 380 m/min	
rated load	265/150 – 320 m/min	
Weight of machine		3.8 kg
Degree of protection		IP/II

The specified illustrations can be found at the beginning of the operating instructions.

Graphical symbols



Caution. Danger!



Read the operating instructions/notes



Wear ear protection!

1 Before starting up, please observe the following

1.1 Safety note



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.

- **Hold power tool by insulated gripping surfaces, because the belt may contact its own cord.** Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

Harmful/toxic dusts can occur during your work (e.g. lead-containing paint, some types of wood and metal). Contact with these dusts, especially inhaling them, can represent a hazard for operating personnel or persons in the vicinity. Comply with the safety regulations that apply in your country. Connect the electric power tool to a suitable extraction system.



To protect your health, wear a P2 protective mask.

- Before doing any work to the machine, first remove the plug from the mains.

- Only insert plug when machine is switched off.
- Use the machine only for dry sanding.
- Materials containing asbestos are not to be worked.
- Always connect to a dust bag or external dust extraction device.
- When sanding take care the cable does not come into contact with the sanding belt.
- The damaged cord must be exchanged immediately by a specialist.
- Repairs should only be carried out by qualified personnel.
- Use only original spare parts.
- **Only for AS/NZS:** The tool shall always be supplied via residual current device with a rated residual current of 30 mA or less.

1.2 Intended use

All-purpose sander for sanding wood, plastics, metals and building materials; using the appropriate sanding belts, surfaces, edges, lippings and rebates can be rough or fine sanded; with the Type BS 75 E - Set, using the sanding frame, high-grade workpiece surfaces such as veneers etc., can be sanded.

The operation and application of the sander can be extended with the accessories listed. Generally accepted accident prevention regulation and the enclosed »Safety Instructions« for the avoidance of accidents when working with the electric tools, must be complied with.

The manufacturer is not liable for damages caused by unauthorized changes or the use of external accessories with the machine.



The user is liable for damage and injury resulting from incorrect usage!

1.3 Metalworking

The following precautions are to be taken when processing metals for safety reasons:

- Connect a residual current operated device in series before the tool.
- Connect tool to a suitable dust extractor. Wood dust must be removed from the dust extractor beforehand – because of the danger of dust explosion!
- Clean tool regularly of dust accumulations in the motor housing.



Wear safety glasses when sanding metal.

1.4 Noise/vibration information

Measured values determined according to EN 60745. Typically the A-weighted noise levels of the tool are:

	BS 75/BS 75 E
Sound pressure level	92/91 dB (A)
Sound power level	103/102 dB (A)
Measuring uncertainty allowance	K = 3 dB



Wear ear protection!

Overall vibration levels a_h (vector sum for three directions) measured in accordance with EN 60745:

Handle	$a_h < 2.5 \text{ m/s}^2$ $K = 1.5 \text{ m/s}^2$
Front handle	$a_h = 7.5 \text{ m/s}^2$ $K = 2.0 \text{ m/s}^2$

The specified emissions values (vibration, noise) – are used to compare machines.

- They are also used for making preliminary estimates regarding vibration and noise loads during operation.
- They represent the primary applications of the power tool.

Increase possible for other applications, with other insertion tools or if not maintained adequately. Take note of idling and downtimes of machine!

2 Mains supply

The mains voltage must match the voltage on the rating plate.

Fuse for 230 V: 10 Amp slow action or equivalent automatic cut-out.

Connection is also possible to sockets without an earthing contact, as protective insulation (Class II) is present.

Only use a run out extension lead with a cross section of $3 \times 1.5 \text{ mm}^2$, max. 20 m, ($3 \times 2.5 \text{ mm}^2$, max. 50 m). When tool is used outdoors, use only extension cords intended for use outdoors and so marked.

3

Electronic adaptation of belt speed on types BS 75 E



The control electronics permits the infinitely variable adaptation of the belt speed.

Setting of set wheel	Belt speed (no-load)
1	200 m/min
2	240 m/min
3	300 m/min
4	340 m/min
5	360 m/min
6	380 m/min

The most suitable belt speed must be found by trial and error when starting work, because there are several prime factors which influence the choice, such as the surface and quality of the workpiece, the make of abrasive belt and grit, skill of the operator etc.

The figures shown in the table are only recommended values.

Application	Setting of set wheel	Grit
Solid wood, fine	4 - 6	100
Veneer	3 - 4	120
Chipboard	5 - 6	100
Plastics	1 - 4	100
Steel	2 - 4	80
Paint removal	1 - 3	24

The belt speed is infinitely adjustable up to the maximum setting while work is in process.

This is done by turning the set wheel (2.1).

It must be remembered that at low speed settings the sander has a lower power output. In order to avoid overloading, therefore, the speed has to be increased by turning the set wheel if it turns out that the belt speed falls sharply while working.

4 Operation

Only to be switched on when the machine is raised. Using the lock on button (1.2), the switch (1.3) can be locked in the ON position. Before sanding, check the alignment of the belt and if necessary, adjust by turning the adjusting knob (1.4) until the belt is flush with the outside edge of the sanding face.

Using both hands, place the machine straight onto the workpiece to be sanded.

The actual weight of the machine provides adequate sanding pressure to produce good sanding quality.

The expelled cooling air can be guided in the most favourable direction by the ducting flap [1.1] .

4.1 Working with the sanding frame in the case of type BS 75 E - Set

Set the machine with the knurled head screw [2.4], so that when it is placed on the workpiece surface the sanding belt does not engage.

The sanding belt is engaged by turning the knurled head screw towards the plus symbol until the belt makes contact.

Continue turning the knurled screw to achieve the desired depth of stock removal (1 complete turn corresponds to a height adjustment of 0.4 mm). When interrupting or on completing work, the sander is raised from the working position [2.3] set to a position of rest [2.2] by means of an eccentric lever.

By swinging the eccentric lever back to working position the depth of stock removal set previously is again obtained.

4.2 Taking the sanding frame off

Press down the knurled head screw [2.4] until the shank [2.5] springs out of the spring catch and the machine can be withdrawn from the rear.



The sander and sanding frame are aligned for optimum accuracy at the factory by suitable adjustment of the guiding struts. For this reason do not remove the guiding struts.

4.3 Assembling the sanding frame

Make sure that the glide pins [2.6, 2.8] fixed to the sanding frame engage front and back in the grooves of the guide struts [2.7, 2.9].

Slide the sander downwards along the grooves until the shank [2.5] engages.

4.4 Changing the sanding belt

Pull the lever [3.5] forward; the belt is now slack and can be removed.

When inserting the sanding belt, make sure that the running direction of the belt (usually indicated by an arrow on the inside) matches the running direction of the machine [3.4].

Tighten the belt again with the lever and align when running.

4.5 Dust extraction



The dust produced while working can be detrimental to health, combustible or explosive. Suitable safety measures are necessary.

The dust bag [4.1] with the adopter [4.3] is attached to the exhaust duct [4.2] by means of a bayonet catch by turning to the right.

The dust bag is removed for emptying by turning it to the left.

At the time of fixing, ensure that the leaf spring stud touches the belt housing.

The dust extraction system will continue to function effectively as long as the bag is emptied in good time.

For working with the protection of the environment in mind it is advisable to use the Festool dust extraction system.

The connecting socket from the suction hose can be connected using the adapter [4.4] which is supplied as standard.

4.6 Stationary use (partly accessories)

– Attach both feet [5.3] via the two threaded holes [4.5]. Important: the straight edges of the feet must face inwards.

– Make sure that the machine is standing firmly: use clamps to attach the feet to the base.

4.7 Longitudinal stop (partly accessories)

– Attach the longitudinal stop to the threaded hole [5.2] using screw [5.1].

– Unscrew the screw [6.3] to adjust the position of the longitudinal stop along the sanding belt.

– To sand sloping surfaces, unscrew the screw [6.2] and adjust the longitudinal stop. The scale [6.1] indicates the angle setting.

5

Maintenance and care



Always remove the power supply plug from the socket before carrying out any work on the machine.



All maintenance and repair work which requires the motor casing to be opened may only be carried out by an authorised service centre.



Customer service and repair. Only through manufacturer or service workshops: Please find the nearest address at: www.festool.com/Service



Use only original Festool spare parts! Order No. at: www.festool.com/Service

When the graphite coating on the pad lining (3.3) is heavily worn this has to be replaced. To do this the 3 cheese-head screws (3.1) are loosened and the strip (3.2) removed.

A sanding support for rough work at high removal rates is available.

The belt sander requires practically no maintenance.

The lubrication for the antifriction bearings and gears is designed to last for the service life of the machine.

It is advisable to clean the air intake and outlet ports and the dust suction and extraction channel occasionally with compressed air while the sander is running and at standstill.

This will prevent the openings from becoming clogged with dust.

The special carbon brushes only wear down to a minimum length.

Thereafter the power cuts out automatically and the sander comes to a stop.

The motor housing may only be opened by an authorised Festool service workshop, since spe-

cialist knowledge is required for assembly.

6 Accessories

The accessory and tool order number can be found in your Festool catalogue or on the Internet under www.festool.com.

Sanding belts

- Resin-bonded X-cloth belts:

for finest wood sanding, machining of non-ferrous and light metals, hardboards, iron and sheet steel, deburring metals.

- Combination belts:

for removing paint and remains of concrete, sanding plaster surfaces.

7 Disposal

Do not throw the power tool in your household waste! Dispose of the machine, accessories and packaging at an environmentally-responsible recycling centre! Observe the valid national regulations.

EU only: European Directive 2002/96/EC stipulate that used electric power tools must be collected separately and disposed of at an environmentally responsible recycling centre.

Information on REACH:

www.festool.com/reach