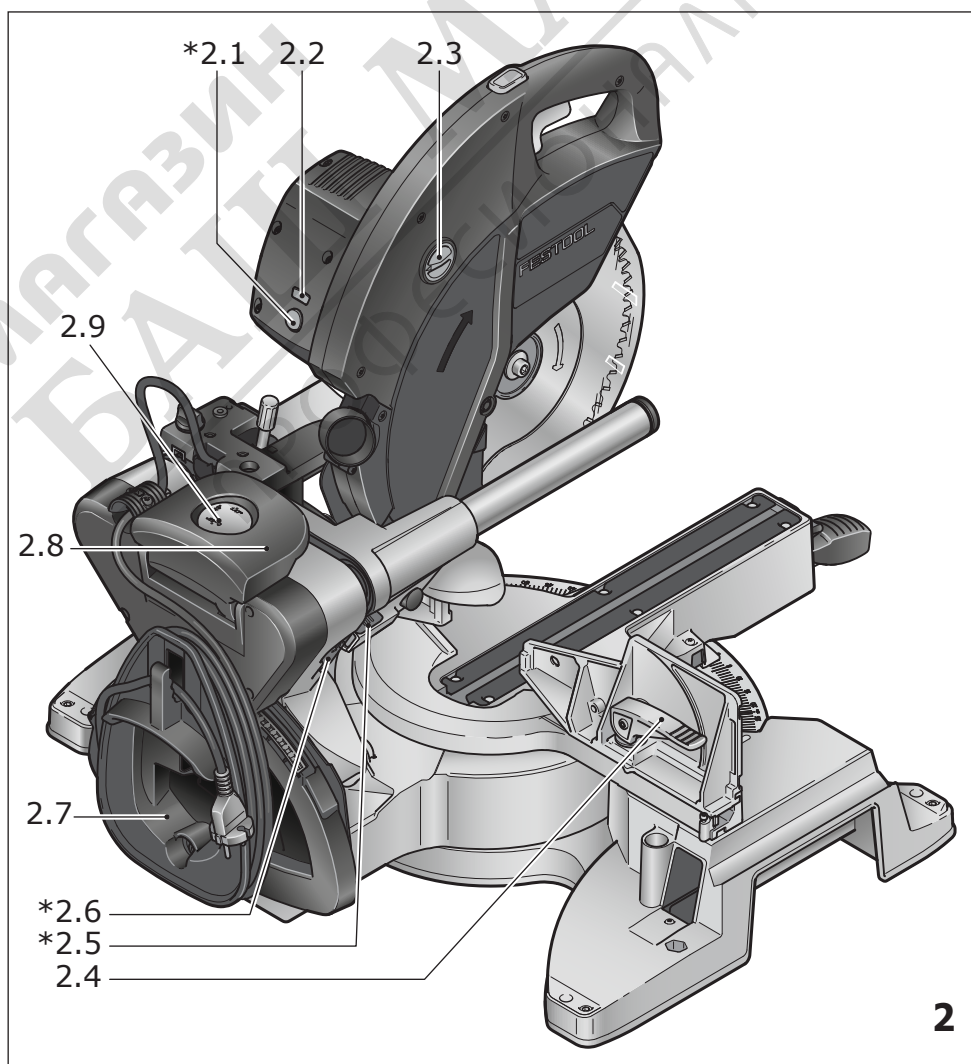
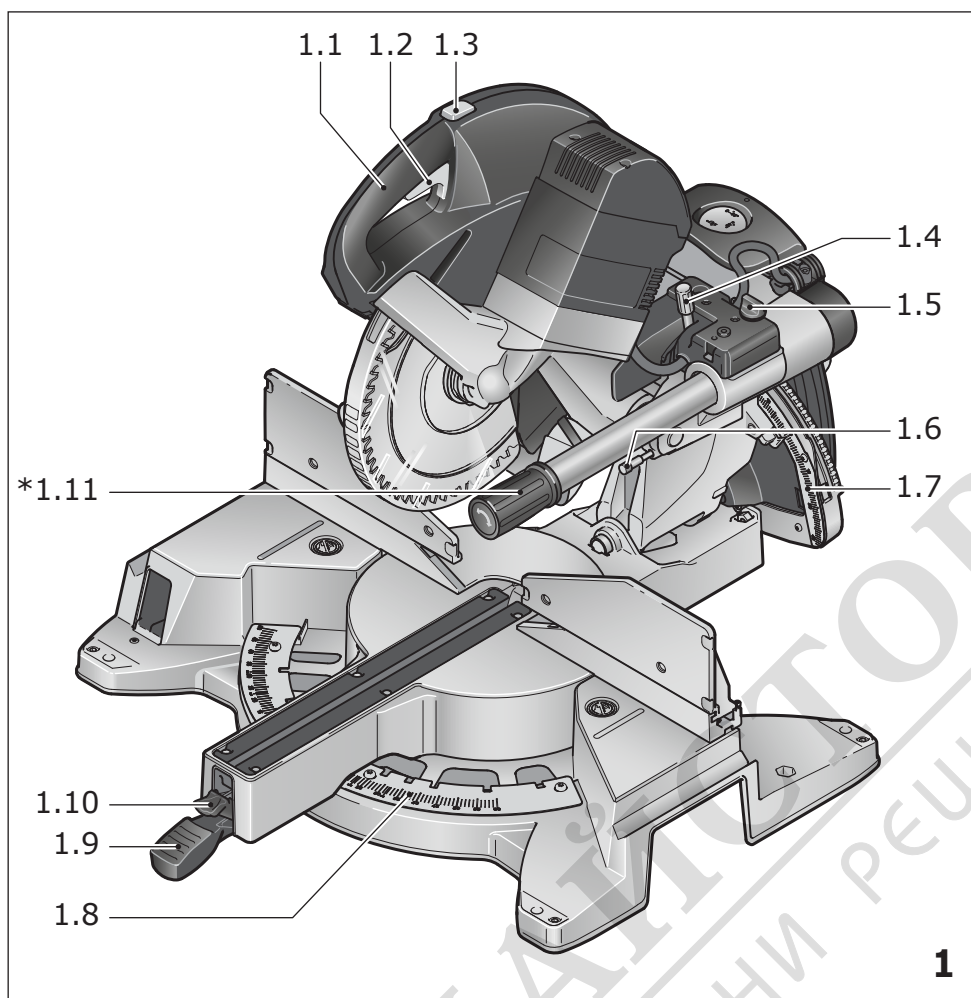
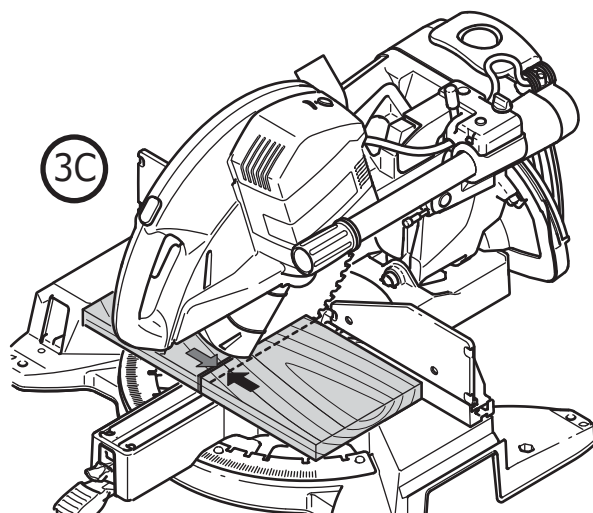
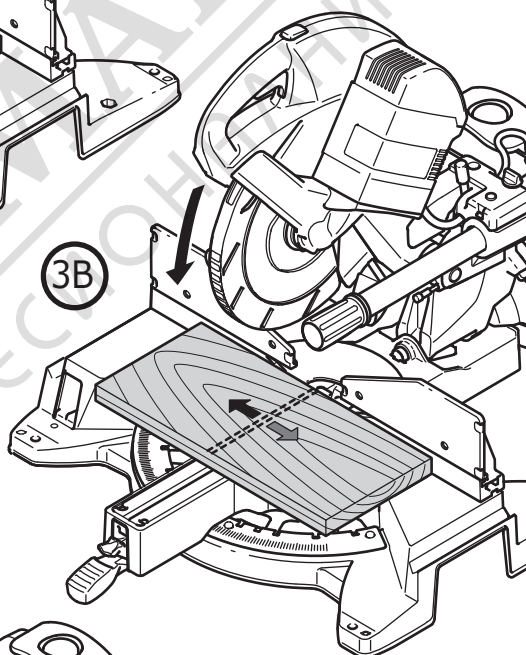
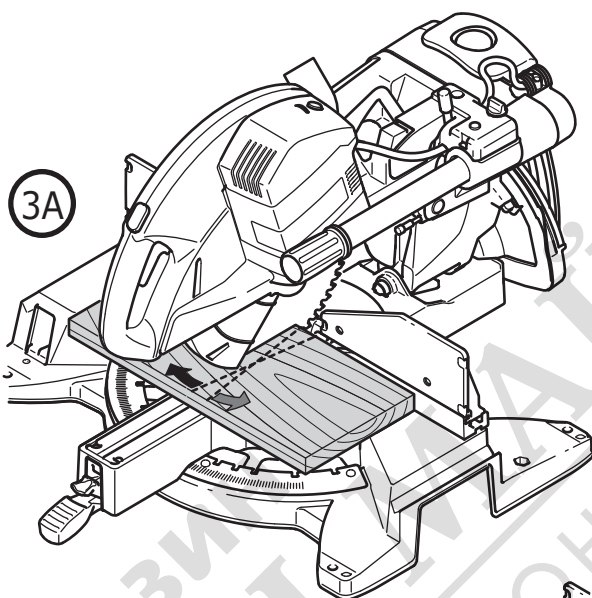
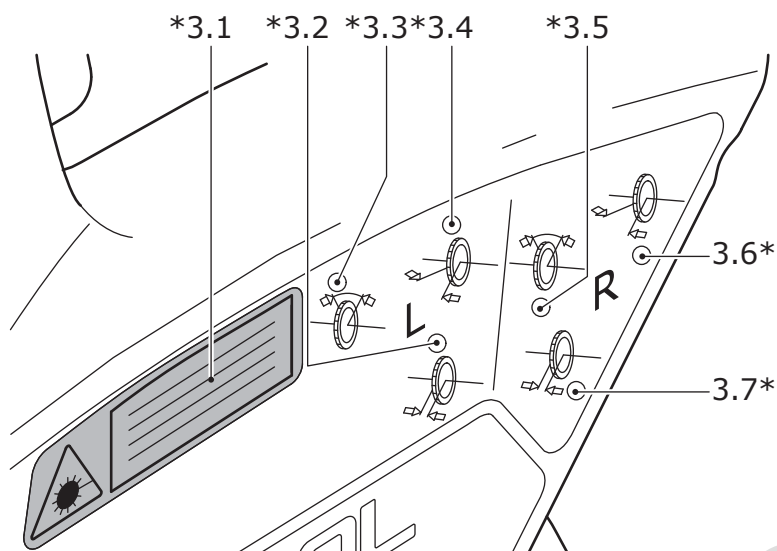


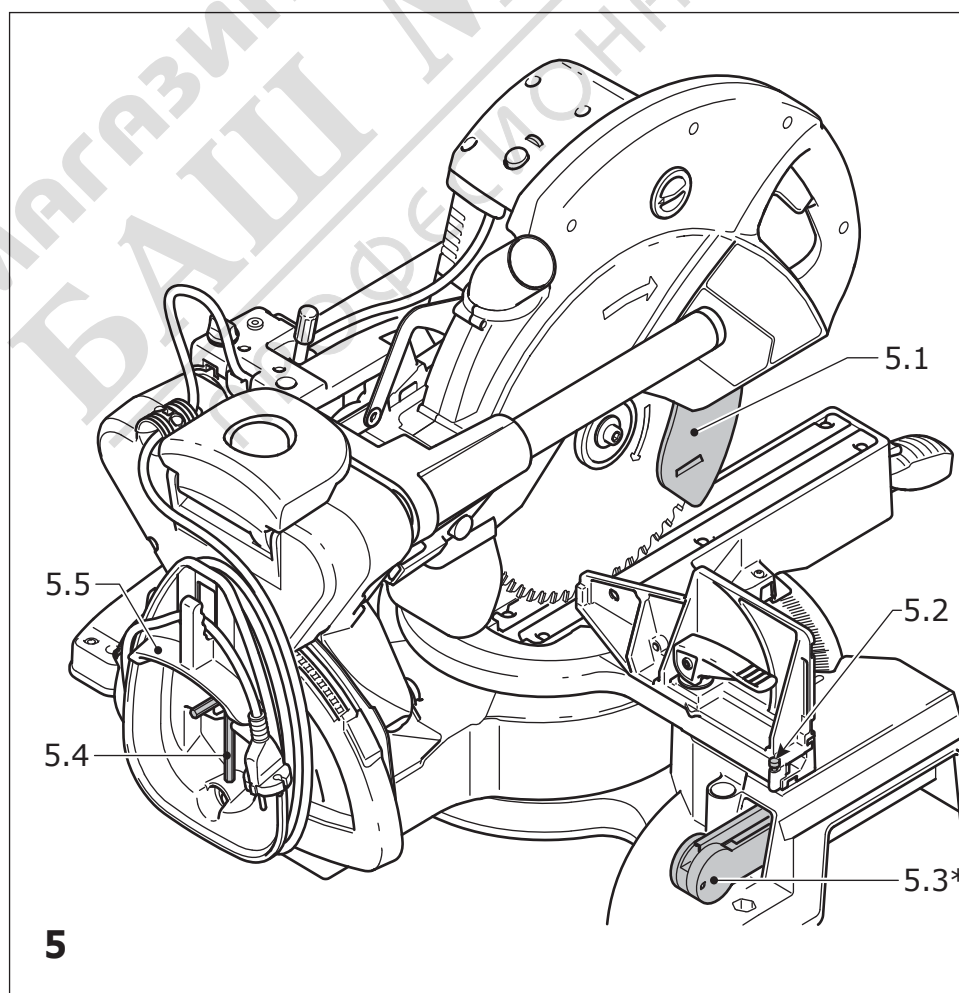
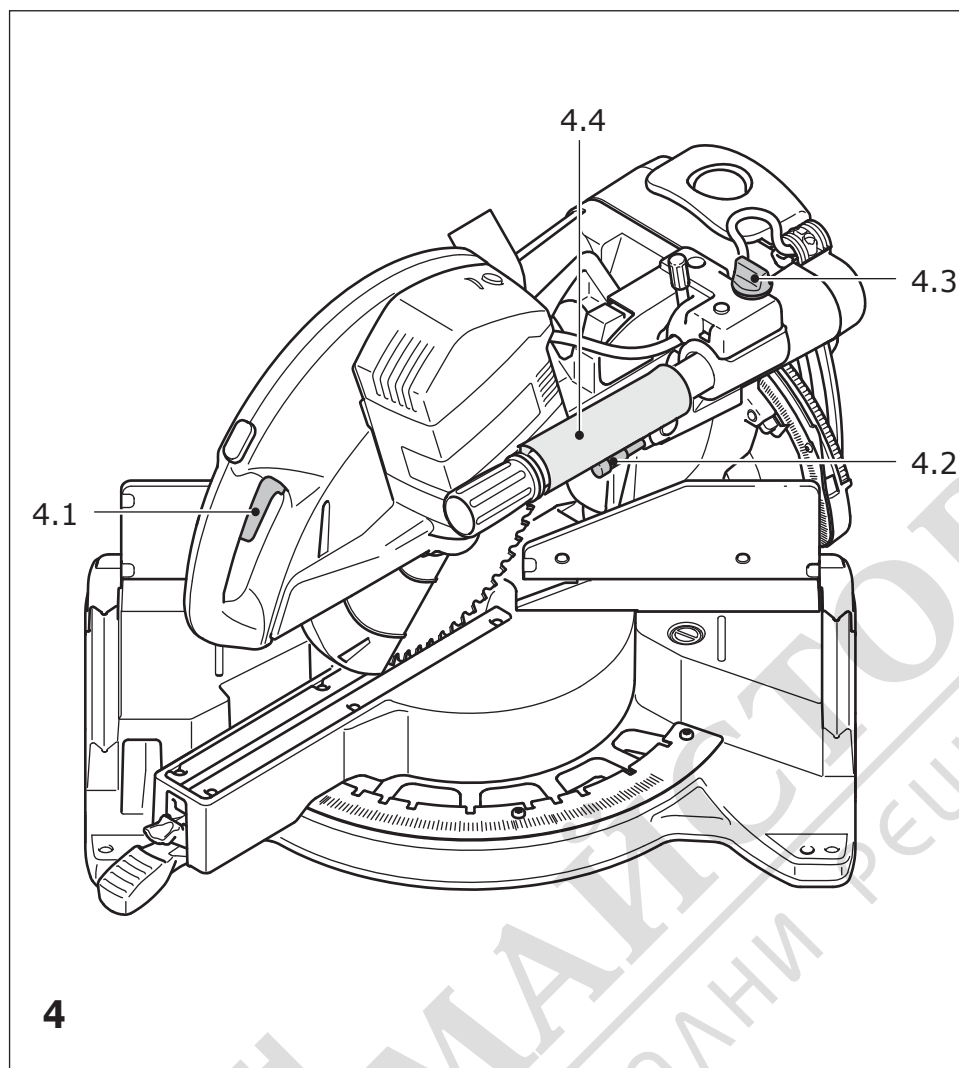
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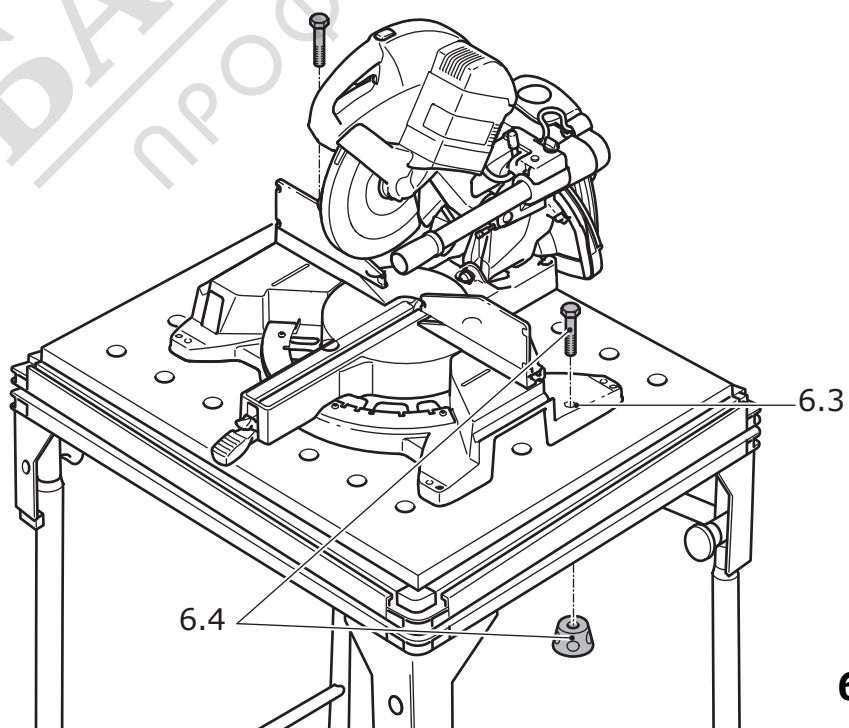
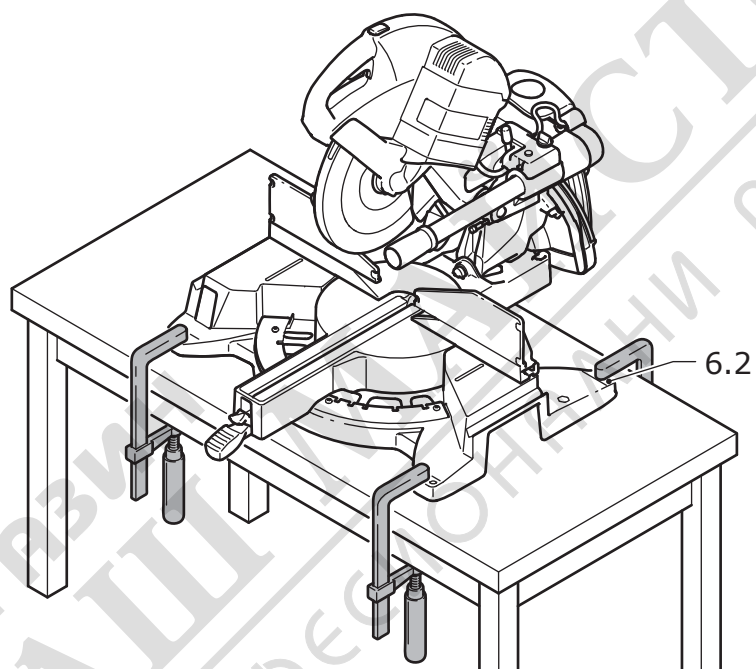
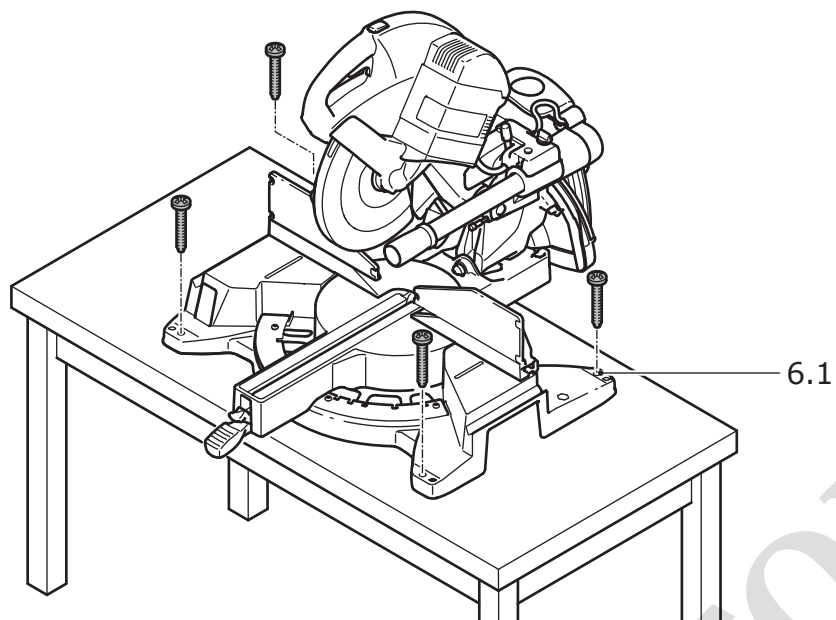
KAPEX
KS 120 EB
KS 88 E











Circular cross-cut saw KAPEX KS 120 EB/ KS 88 E

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1 Symbols



Warning of general danger.



Read the Operating Instructions/Notes!



Danger area! Keep hands, fingers and arms away from this area.



Wear protective goggles.



Wear ear protection.



Wear a dust mask.



Wear protective gloves.



Caution: laser beams!



Dispose of the machine, accessories and packaging at an environmentally responsible recycling centre.

2 Technical data

Power	1600 W
Rotational speed (idle)	1400 - 3400 rpm
Tool spindle, dia.	30 mm
Weight	
KS 120 EB	21.5 kg
KS 88 E	20,7 kg
Protection class	□ / II
See section 8 "Operation" for the maximum workpiece dimensions.	

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

Components on illustrations marked with * are only included in the scope of delivery of the KS 120 EB.

3 Machine features

- (1.1) Hand grip
- (1.2) On/off switch
- (1.3) Switch-on lock
- (1.4) Lever for cutting depth limiter
- (1.5) Rotary knob for clamping the guide fixture
- (1.6) Transport safety device
- (1.7) Scale for mitre cuts (vertical)
- (1.8) Scale for mitre cuts (horizontal)
- (1.9) Clamp lever for mitre cuts (horizontal)
- (1.10) Stop lever for preset mitre cut angles (horizontal)
- (1.11) Rotary handle for fine adjustment of mitring angle (vertical) *
- (2.1) On/off switch for laser*
- (2.2) Adjusting wheel for rotational speed
- (2.3) Fastfix spindle lock
- (2.4) Clamping lever for stop ruler
- (2.5) Release lever for special cutting position*
- (2.6) Lever for special cutting position*
- (2.7) Cable holder with integral handle
- (2.8) Clamp lever for mitre cuts (vertical)
- (2.9) Selector switch for mitre angle range (vertical)

* Only included in the scope of delivery of the KS 120 EB.

4 Intended use

The electric power tool is a stationary unit designed for sawing blocks of wood, plastic, aluminium profiles and similar materials.

Do not process other materials, in particular steel, concrete and mineral materials.

The electric power tool is designed and approved for use by trained persons or specialists only.



The user bears the responsibility for damage and accidents caused by improper use.

Other risks

In spite of compliance with all relevant design regulations, dangers may still present themselves when the machine is operated, e.g.:

- Workpiece parts being thrown off
- Parts of damaged tools being thrown off
- Noise emission
- Dust emission

5 Safety instructions

5.1 General safety instructions



WARNING! Read all safety warnings and all instructions. Failure to follow the warn-

ings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

- Never allow children to use the machine.
- Before using the machine, make yourself sufficiently familiar with the application, setting and operation of the machine.

5.2 Machine-related safety instructions

Safety precautions

- Always use original Festool tools (in accordance with EN 847-1).
- For reasons of safety, the dimensions of the saw blades should be as follows: saw blade diameter 260 mm, location hole 30 mm, standard blade thickness 1.8 mm. Using saw blades with different dimensions increases the risk of injury for the user and the machine may become damaged because the integrated sliding clutch may not activate correctly.
- To guarantee safe clamping of the workpieces, they must have a minimum length of 200 mm.
- Use only correctly sharpened tools without damage or deformation. The maximum rotational speed specified on the tool must be observed.
- Select the saw blade suitable for the material you wish to work on.
- Do not use saw blades made of high-speed steel.
- Do not use spacers or spindle rings.
- Ensure the work area has adequate lighting.
- Attach the machine securely to the worktop or a bench.
- To minimise the release of dust, the machine should be connected to a suitable extraction unit. All dust extraction elements (exhaust hoods etc.) must be properly set.
- Wear suitable personal protective equipment: ear protection to reduce the risk of hearing loss; safety goggles; a dust mask to prevent inhalation of harmful dust; protective gloves when working with raw materials and when changing tools.
- Only transport the tool in suitable packaging.

Maintenance and repair

- Replace a tabletop insert if worn.
- Only use the machine if all protection devices are in their correct positions, the machine is in good condition and has been well maintained.
- Faults on the machine, including the separating

guards or the tool, must be reported to maintenance staff immediately upon discovery. The machine must not be used until the fault has been eliminated.

- If the machine is equipped with a laser, ensure it is always replaced by a laser of the same type. Repairs must only be made by the laser manufacturer or an authorised agent.

Safe work

- Only process material for which the machine has been approved. Aluminium must only be sawed with the special saw blades from Festool designed for this purpose.
- Never process material containing asbestos.
- Ensure that the floor around the machine is level, clean and free of loose objects (e.g. chips and offcuts).
- Keep hands, fingers and arms well away from the rotating tool. Never reach into the area of the saw blade behind the stop.
- Always assume the correct position before starting work:
 - front at the operating end,
 - facing the machine,
 - next to the cutting line.
- Do not remove offcuts or other workpiece parts from the cutting area while the machine is still running or before the saw blade stops.
- Use a suitable device to support long workpieces and ensure that they are horizontal.
- Never allow another person to hold or support the workpiece when sawing. Always clamp the workpiece in a suitable device.
- Observe the specified maximum workpiece dimensions.
- Observe the instructions for lifting and transporting the machine.
- Observe the instructions for installing and operating the machine.
- Ensure the permissible dimensions of the saw blade are not exceeded. Never use reducers or adapters to secure the saw blade on the tool spindle.
- Do not saw wood containing metal parts such as nails, screws, etc.
- Do not apply lateral force to the saw blade.
- Always saw only one workpiece at a time. It is not possible to safely secure several workpieces; they can displace each other during sawing and block the saw blade.
- If the saw blade is blocked, switch the machine off immediately and disconnect the mains plug. Do not remove the jammed workpiece until you have done this.

Laser-specific safety information

- **Never direct the laser beam at people.** It may cause accidents as a result of the glare.
- **Never look into the direct or reflecting laser beam.** However, if you make direct contact with the laser beam, close your eyes immediately and move your head from the beam. Direct eye contact with the laser beam can cause damage to the eye.
- **Do not make any modifications to the laser.** A modified laser can generate additional risks.

Only for AS/NZS: The tool shall always be supplied via residual current device with a rated residual current of 30 mA or less.

5.3 Emission levels

Levels determined in accordance with EN 61029 are typically:

Sound pressure level	88 dB(A)
Noise level	101 dB(A)
Measuring uncertainty allowance	K = 3 dB



Wear ear protection.

Measured acceleration < 2.5 m/s²

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!

6 Commissioning



Warning

- **Observe the mains voltage:** The voltage and frequency of the power source must comply with the specifications on the machine's identification plate.
- In North America, only Festool machines with the voltage specifications 120 V/60 Hz may be used.

Prior to initial operation:

- Remove the transport safety device (4.4) from the guide rod.

On/Off switch

- Press the on/off switch (1.2) as far as possible to unlock the saw unit and the pivot guard.
- Press the switch-on lock (1.3).

- Press the on/off switch (1.2) all the way in to start the machine.
- Release the on/off switch again to switch off the machine.

7 Adjustments



Always pull the plug out of the socket before performing any type of work on the machine.

KS 120 EB only: Replace the laser warning sticker (3.1) with the relevant accompanying warning sticker in your language.

7.1 Transport

Securing the machine (transport position)

- Press the on/off switch (4.1).
- Swivel the saw unit downwards until it reaches the fence.
- Press the lock (4.2). The saw unit now remains in the lower position.
- Tighten the rotary knob (4.3) to secure the saw unit in the rear position.
- Wind up the mains cable into the cable holder (5.5) before transporting.
- Stow away the Allen key (5.4) and the bevel (5.3) (KS 120 EB only) in the holders provided.



Never carry or lift the machine by the movable pivot guard (5.1).

Carry the machine by the edge of the saw table (5.2) and the handle (5.5) in the cable holder.

Unlocking the machine (working position)

- Push the saw unit down slightly and remove the transport safety device (4.2).
- Swivel the saw unit upwards.
- Unscrew the rotary knob (4.3).

7.2 Mounting the machine



Always pull the plug out of the socket before performing any type of work on the machine.

Before using the machine, set up on a level, stable work surface (e.g. the underframe UG-KAPEX, the multifunction table MFT or a worktop).

The following assembly options are available:

Fastening: Secure the machine on the work surface using four screws. Use the holes (6.1) on the four support points on the saw table.

Clamps: Secure the machine on the work surface using four clamps. The flat surfaces (6.2) on the four saw table support points are used as clamping surfaces.

Clamping set (for MFT): Secure the machine on the Festool multifunction table MFT using the clamping set (6.4, 494693). Use the two screw holes (6.3).

Underframe UG-KAPEX

Secure the machine on the underframe as described in the assembly instructions enclosed with the underframe.

7.3 Changing tools



Risk of accidents

- Always pull the mains plug out of the socket before changing blades.
- Actuate the spindle lock (7.2) only after the saw blade has come to rest.
- The saw blade becomes very hot during operation; do not touch it before it has cooled down.
- Always wear protective gloves during tool change due to the risk of injury from the sharp tool cutters.

Removing saw blades

- Move the machine to working position.
- Push in the spindle lock (7.2) and turn 90° clockwise.
- Unscrew the screw (7.8) completely using the Allen key (7.9) (left-handed thread).
- Press the on/off switch (7.3) to unlock the pivot guard.
- Open the pivot guard (7.4) completely.
- Remove the clamping flange (7.7) and the saw blade.

Installing saw blades

- Clean all parts before installing them (saw blade, flanges, screw).
- Place the saw blade on the tool spindle (7.5).



Ensure that the directions of rotation of the saw blade (7.6) and machine (7.1) correspond.

- Secure the saw blade with the flange (7.7) and the screw (7.8).
- Tighten the screw (7.8) (left-handed thread).
- Push in the spindle lock (7.2) and turn 90° anti-clockwise.

7.4 Inserting workpiece clamps

- Insert the workpiece clamp (8.1) in one of the two holes (8.2). The clamping fixture must face forwards.
- Turn the workpiece clamp until the clamping fixture is facing forwards.

7.5 Dust extraction

Harmful/toxic dusts can be produced 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.

A Festool dust extractor with an extractor hose diameter of 36 mm or 27 mm (36 mm recommended due to the reduced risk of clogging) can be connected to the extractor connector (9.1)

The flexible chip deflector (9.2) improves dust and chip collection. Always work with a chip deflector fitted.

The chip deflector is attached directly to the protective cover via the bracket (10.1). The hooks (10.2) on the bracket must slot into the recesses (10.3) on the protective cover.

7.6 Workpiece fence

Adjusting the stop ruler

When making mitre cuts, adjust the stop rulers (11.1) so that they do not impede the pivot guard or come into contact with the saw blade.

- Open the clamping lever (11.2).
- Slide the stop ruler until the shortest distance from the saw blade is max. 4.5 mm.
- Close the clamping lever again.

Removing the stop ruler

For certain mitre cuts, one of the stop rulers may need to be removed otherwise it will collide with the saw unit.

- Turn the screw (11.3) as far as possible into the threaded hole (downwards).
- You can now slide out the stop ruler sideways.
- After inserting the stop ruler again, unscrew the screw three turns.

Auxiliary stop

You can insert an auxiliary stop made from wood (12.2) into the holes (12.1) on each stop ruler to enlarge the fence surface. This will allow you to position larger workpieces more securely.

Remember the following:

- The screws for securing the auxiliary stops must not protrude above the surface.
- The auxiliary stops should be used only for 0° cuts.
- The auxiliary stops should not affect the function of the protective covers.

7.7 Horizontal mitre angles

You can set any horizontal mitre angle between 50° (on the left) and 60° (on the right). Alternatively, you can use the standard preset mitre angles.

The arrow on the pointer (13.2) indicates the current horizontal mitre setting. The two marks on

the right and left of the pointer arrow allow you to adjust the angle more accurately to half a degree. The two marks must be congruent with the straight lines on the scale.

Standard horizontal mitre angles

The following preset mitre angles are available:

left: 0°, 15°, 22.5°, 30°, 45°

right: 0°, 15°, 22.5°, 30°, 45°, 60°

- Move the machine to working position.
- Pull the clamp lever (13.5) upwards.
- Push the stop lever (13.4) downwards.
- Turn the saw base to the desired mitre angle.
- Release the stop lever. The stop lever must latch into place.
- Push the clamp lever downwards.

Other horizontal mitre angles

- Move the machine to working position.
- Pull the clamp lever (13.5) upwards.
- Push the stop lever (13.4) downwards.
- Turn the saw base to the desired mitre angle.
- Push the clamp lever downwards.
- Release the stop lever.

7.8 Vertical mitre angles

- Move the machine to working position.
- Open the clamping lever (14.1).
- Turn the selector switch (14.2) to the desired setting range (0° - 45°, +/-45°, or +/-47°).
- Swivel the saw unit until the pointer (14.3) indicates the desired mitre angle. **KS 120 EB only:** You can adjust the vertical mitre angle more accurately using the fine adjustment rotary handle (14.4).
- Close the clamping lever (14.1).

7.9 Special cutting position (KS 120 EB only)

Apart from the standard position for cutting or trimming boards/panels, the machine also has a special cutting position for trimming strip material up to 120 mm in height.

- Pull the saw unit forwards.
- Push the lever (15.3) down.
- Slide the saw unit back until the metal bracket (15.1) hooks into the rear opening on the saw unit.
- In this position, you can trim strip material up to 120 mm in height against the fence. The guiding function and the vertical swivel function on the circular cross-cut saw are deactivated however.
- To move the machine back to its normal position, push the release lever (15.2) and pull the saw unit forwards. The metal bracket (15.1) unhooks

itself and the lever (15.3) moves back.

7.10 Cutting depth limiter

The vertical swivelling range of the saw unit can be adjusted via the stepless cutting depth limiter, allowing you to groove or form workpieces.

❗ Note that the grooved section is limited: Infinitely variable adjustments are only possible between 0 and 45 mm. The maximum possible length of the groove is also limited. Example: with a cutting depth of 48 mm and a workpiece thickness of 88 mm, this range is between 40 and 270 mm.

- Move the machine to working position.
- Move the cutting depth limiter lever (16.1) down until it slots into position. The saw unit can now be moved down only as far as the preset cutting depth.
- Turn the lever for the cutting depth limiter to set the required cutting depth.
- To deactivate the cutting depth limiter, move the cutting depth limiter lever up again.

7.11 Fixed horizontal position

Turn the rotary knob (16.2) to clamp the saw unit in any position along the guide rod (16.3).

7.12 Switching on the laser (KS 120 EB only)

The machine has two lasers which mark the kerf on the right and left of the saw blade, allowing you to align the workpiece on both sides (left or right side of the saw blade or kerf).

- Press the button (2.1) to switch the laser on and off. If the machine is not used for 30 minutes, the laser switches off automatically and must be restarted if needed again.

8 Operation



Risk of accidents

- Before starting work, make sure that the saw blade cannot touch the stop ruler, workpiece clamp, screw clamps or other machine parts.
- Do not cross your hands in front of the saw unit; never hold the workpiece with your left hand to the right of the saw blade and vice versa.
- Do not overload the machine so much that it stops.
- Observe the specified working position.

Maximum workpiece dimensions

Mitre angle as per scale,

horizontal/vertical - height x width [mm]

0°/0° - special cutting position 120 x 60 (KS 120 EB only)

0°/0° - 88 x 305

45°/0° - 88 x 215
 0°/45° right - 35 x 305
 0°/45° left - 55 x 305
 45°/45° right - 35 x 215
 45°/45° left - 55 x 215

8.1 Clamping workpieces



Risk of accidents

- Always use the workpiece clamp to secure workpieces. The holding rod (17.2) must be positioned securely on the workpiece. (**Note:** auxiliary tools may be needed depending on the contour of the workpiece, e.g. curved contours).
- Never machine workpieces that are too small to clamp properly.
- Make sure that the saw blade cannot pull the workpiece backwards into the gap between the saw blade and the stop ruler. Users are at particular risk when performing horizontal mitre cuts.
- Reinforce very thin workpieces (24.2) by sawing them together with an additional strip (24.2). Very thin workpieces can wobble or break when being cut.

Procedure

- Place the workpiece on the saw table and push it against the stop ruler.
- Release the lever (17.1) for the workpiece clamp.
- Turn the workpiece clamp until the holding rod (17.2) is over the workpiece.
- Lower the holding clamp onto the workpiece.
- Close the clamping lever (17.1).

8.2 Speed control

You can regulate the rotational speed steplessly between 1400 and 3400 rpm using the adjusting wheel (2.2). This enables you to optimise the cutting speed to suit the respective material.

Recommended position of the adjusting wheel

Wood	3 - 6
Plastic	3 - 5
Fibreboard materials	1 - 3
Aluminium and non-ferrous profiles	3 - 6

8.3 Cutting without guiding action

- Make the required adjustments to the machine.
- Secure the workpiece.
- Slide the saw unit backwards up to the fence (towards the workpiece stop) and close the rotary knob (1.5) for clamping the guide fixture, or secure the saw unit in the special cutting position (KS 120 EB only).

- Switch on the machine.
- Hold the saw unit by the handle (1.1), guide slowly downwards and cut through the workpiece at an even rate of advance.
- Switch off the machine and wait until the saw blade stops completely.
- Swivel the saw unit upwards again.

8.4 Cutting with guiding action

- Make the required adjustments to the machine.
- Secure the workpiece.
- Draw the saw unit forwards along the guide rods.
- Switch on the machine.
- Hold the saw unit by the handle (1.1) and guide slowly downwards.
- Push the saw unit backwards at an even rate of advance and cut the workpiece.
- Switch off the machine.
- Wait until the saw blade stops completely and then swivel the saw unit upwards.

8.5 Bevel (KS 120 EB only)

You can use the bevel to record any angle (e.g. between two walls) and transfer the dissecting angle to the circular cross-cut saw. Available as accessories.

Interior angle

- Open the clamp (18.2).
- Place the bevel with the two legs (18.1) against the interior sides of the corner.
- Close the clamp (18.2).
- Place the bevel with one leg on a stop ruler attached to the circular cross-cut saw.
- To set the dissecting angle (horizontal mitre angle), swivel the saw unit until the laser beam is congruent with the line (19.1) on the bevel.

Exterior angle

- Open the clamp (18.3).
- Slide the aluminium profile (18.4) on both legs forwards.
- Place the bevel with the two legs (18.4) against exterior sides of the corner.
- Close the clamp (18.3).
- Slide back the aluminium profile on both legs.
- Place the bevel with one leg on a stop ruler attached to the circular cross-cut saw.
- To set the dissecting angle (horizontal mitre angle), swivel the saw unit until the laser beam is congruent with the line (19.1) on the bevel.

9 Service and maintenance



Always pull the plug out of the socket before performing any type of work on the machine!



All maintenance and repair work which requires the motor housing to be opened, must only be carried out by an authorised service workshop.



Damaged safety devices and parts should be repaired or replaced by an authorised service centre unless otherwise specified in the operating instructions.



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

To ensure constant air circulation, always keep the cooling-air openings in the motor housing clean and free of blockages.

The machine is equipped with self-disconnecting special carbon brushes. If they are worn, power is interrupted automatically and the machine comes to a standstill.

- Clean the tabletop insert [20.1] regularly and remove wood chips, dust deposits and workpiece offcuts from the extraction channel on the chip deflector (see Fig. 10).

9.1 Adjusting the laser (KS 120 EB only)

If the laser beams do not line up with the cutting edge, you can adjust both of the lasers.

Use an Allen key screwdriver (size 2.5) to do this.

- Pierce the points (3.2 to 3.7) marked on the sticker using the Allen key screwdriver to reveal the adjusting screws located underneath.
- The laser beam factory settings are correct. Only turn the adjusting screws when indicated.
- Place a test workpiece on the machine to check the laser.
- Cut a groove in the workpiece.
- Swivel the saw head upwards and check the setting.

Laser beam is not visible

- First check whether the laser is switched on. If not, press the button (2.1) to switch on the laser.

Identify which laser beam is not visible.

- Turn the adjusting screws for the left (3.3) and right (3.5) laser until the laser beam shines on

the workpiece.

- As described, first (a) adjust the laser beam so it is parallel with the scribe line, then (b) adjust the inclination angle and finally (c) adjust the axial displacement of the laser beam.

a) Laser beam is not parallel with the scribe line [Fig. 3A]

Adjust until parallel.

Left laser beam	Adjusting screw (3.4)
Right laser beam	Adjusting screw (3.6)

b) Laser beam strays off line when workpiece trimmed towards the left or right [Fig. 3B]

Adjust the inclination angle until the laser beam no longer strays off line when workpieces are trimmed.

Left laser beam	Adjusting screw (3.3)
Right laser beam	Adjusting screw (3.5)

c) Laser beam is not positioned on the cut [Fig. 3C]

Adjust the axial displacement.

Left laser beam	Adjusting screw (3.2)
Right laser beam	Adjusting screw (3.7)

9.2 Correcting horizontal mitre angles

If the pointer (13.2) no longer rests on the preset mitre angle values, you can loosen the screw (13.1) and readjust the pointer.

If the actual (sawn) mitre cut deviates from the preset value, you can correct this value accordingly:

- Engage the saw unit in the 0° position.
- Loosen the three screws (13.3) that secure the scale to the saw table.
- Slide the scale together with the saw unit until the actual value is 0°. You can check this by setting an angle between the stop ruler and the saw blade.
- Tighten the three screws (13.3) again.
- Check the angle setting by making a test cut.

9.3 Correcting vertical mitre angles

If the actual value no longer corresponds with the preset value, you can correct this value accordingly:

- Engage the saw unit in the 0° position.
 - Open both screws (23.1).
 - Swivel the saw unit until the actual value is 0°. You can check this by setting an angle between the saw table and the saw blade.
 - Tighten the two screws (23.1) again.
 - Check the angle setting by making a test cut.
- If the pointer (22.2) no longer rests on the preset

value, you can loosen the screw (22.1) and readjust this value.

9.4 Replacing the tabletop insert

Never work with a worn table insert (20.1), replace it with a new one.

– To replace the table insert, unscrew the six screws (20.2).

9.5 Cleaning or replacing window for laser (KS 120 EB only)

The window (21.2) for protecting the laser can become dirty during operation. It can be removed for cleaning or replacement.

– Release the screw (21.5) by approx. 2 rotations.

– Press the window at the same time in the directions (21.3) and (21.4).

– Remove the window.

– Clean the window or replace it with a new one.

– Fit the cleaned/new window. Both of the pegs (21.1) on the window must snap into the recesses of the upper hood as shown in Fig. 21.

– Tighten the screw (21.5).

10 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: In accordance with European Directive on waste electrical and electronic equipment and implementation in national law, used electric power tools must be collected separately and handed in for environmentally friendly recycling.

Information on REACH:

www.festool.com/reach

11 EU Declaration of Conformity

Circular cross-cut saw		Serial no.
KS 120 EB	495773, 495774, 495775,	495776, 495777
KS 88 E	496868, 496869, 496871,	496872
Year of CE mark	KS 120 EB	2007
	KS 88 E	2009

We solely declare that this product conforms with the following standards and normative documents: EN 61029-1, EN 61029-2-9, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 in accordance with the regulations in Directives 2004/108/EC, 2006/42/EC, 2011/65/EU.

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