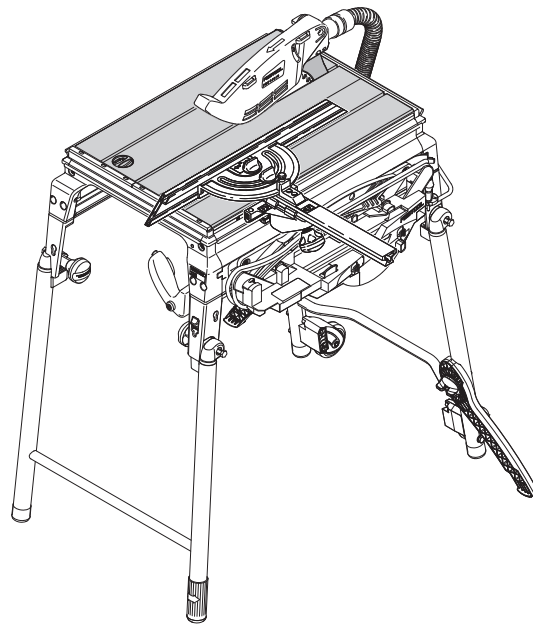
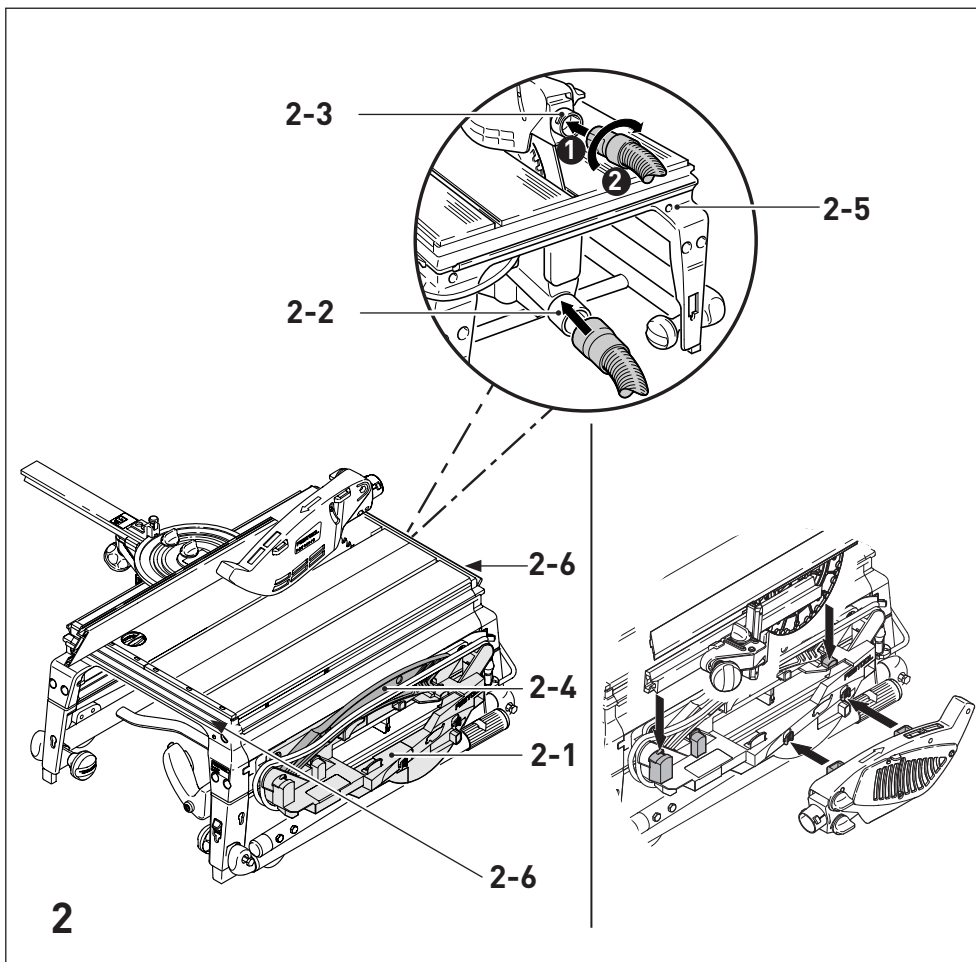
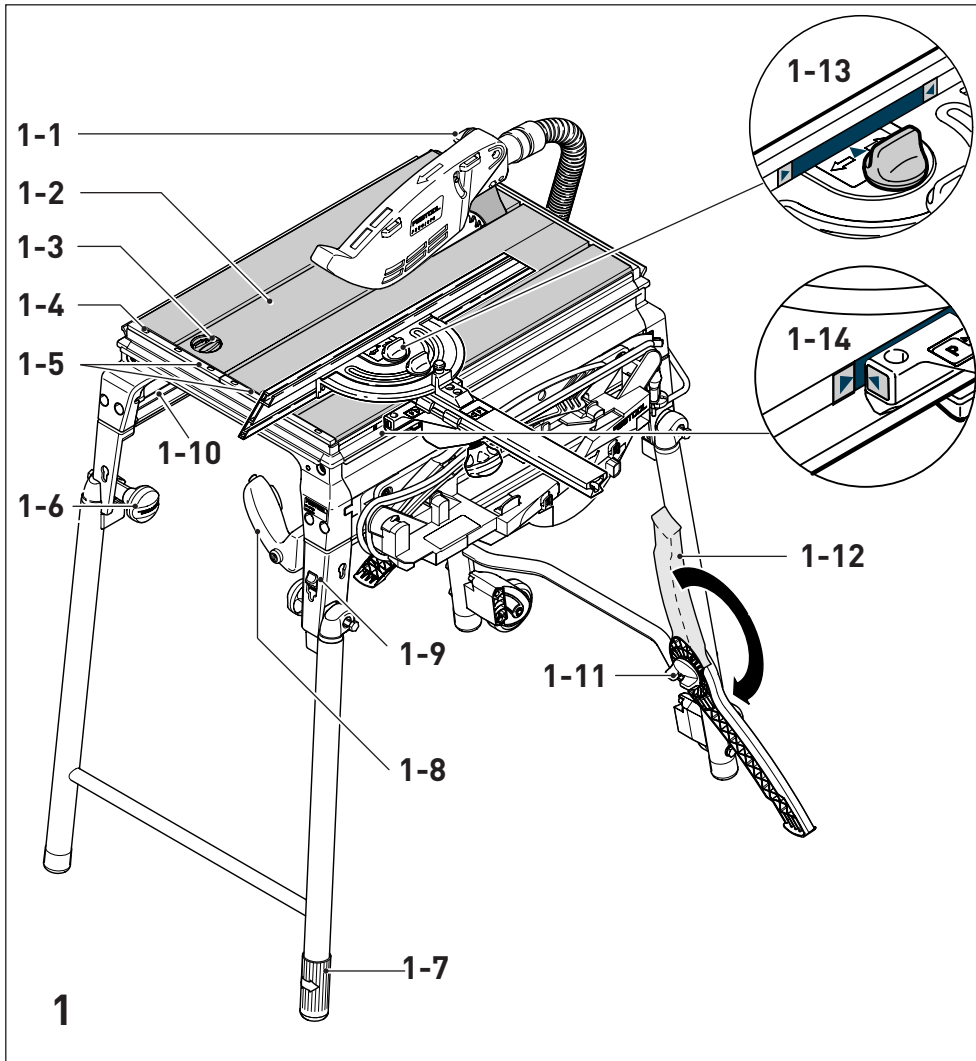


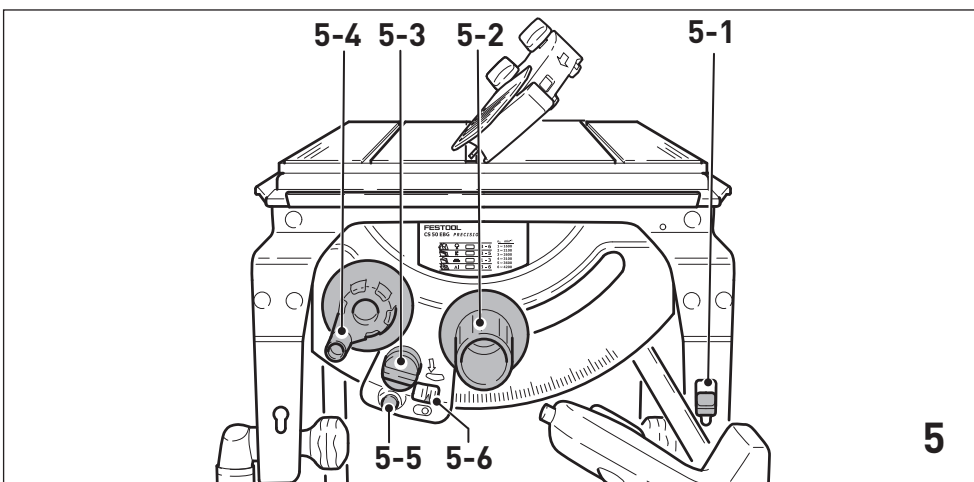
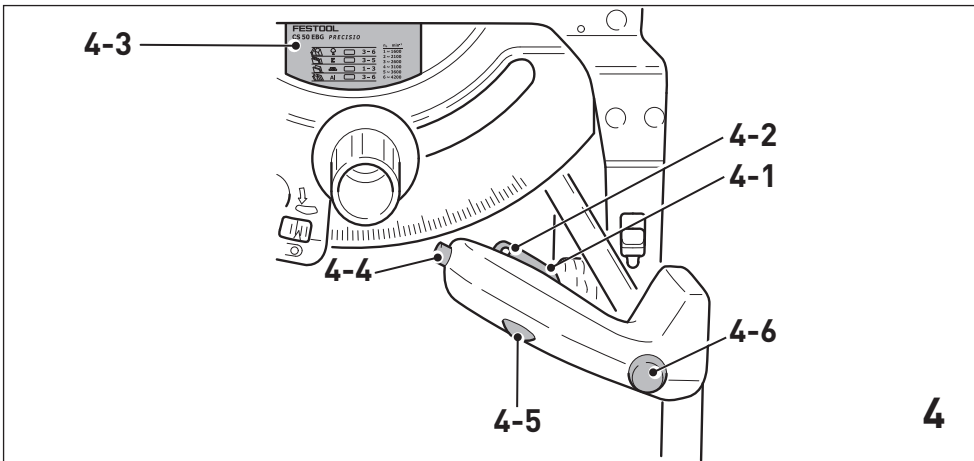
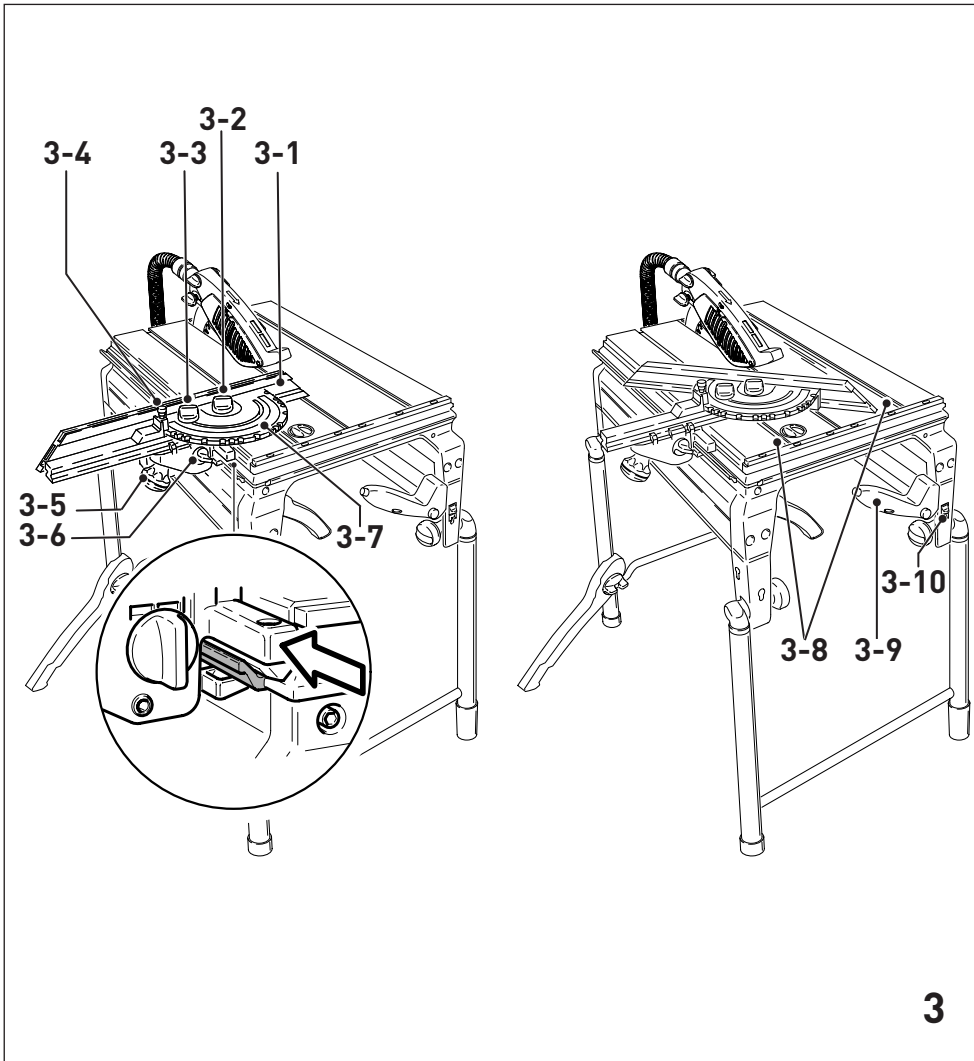
(D)	Originalbetriebsanleitung - Tisch- und Zugkreissäge	8
(GB)	Original Instructions - Table saw with sliding function	21
(F)	Notice d'utilisation d'origine - Scie circulaire sur table et scie stationnaire guidée	32
(E)	Manual de instrucciones original - Sierra circular estacionaria y de tracción	44
(I)	Istruzioni originali - Sega circolare da banco e sega circolare a trazione	57
(NL)	Oorspronkelijke gebruiksaanwijzing - Tafel- en trekcirkelzaag	69
(S)	Originalbruksanvisning - Bords- och kapcirkelsåg	81
(FIN)	Alkuperäiset käyttöohjeet - Sirkkeli- ja vetokatkaisusaha	92
(DK)	Original brugsanvisning - Bordrundsav og rundsav	103
(N)	Original bruksanvisning - Bordsirkelsag og sirkelsag med uttrekk	114
(P)	Manual de instruções original - Serra de bancada e traçadeira circular	125
(RUS)	Оригинальное руководство по эксплуатации - Монтажная дисковая пила с протяжкой	138
(CZ)	Originální návod k obsluze - Stolní a tažná okružní pila	151
(PL)	Oryginalna instrukcja eksploatacji - Pilarka tarczowa stołowa i przesuwna	162

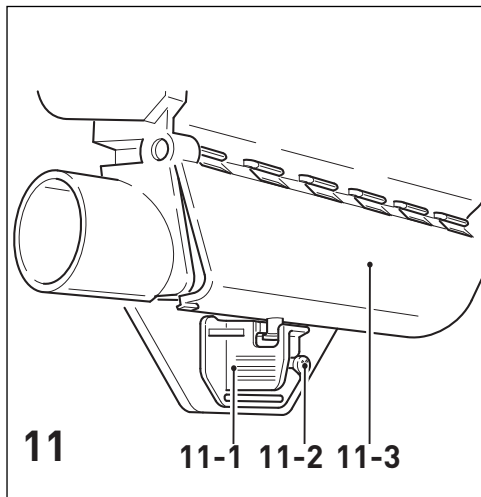
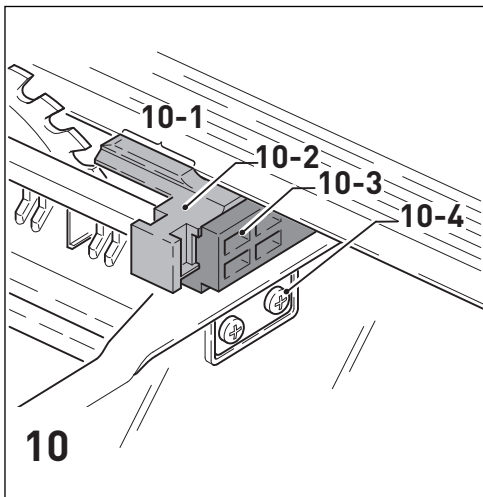
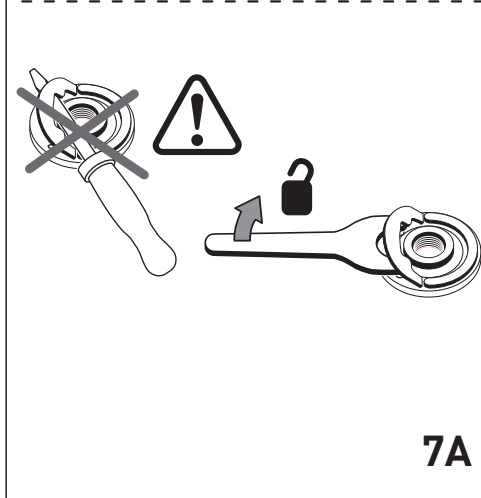
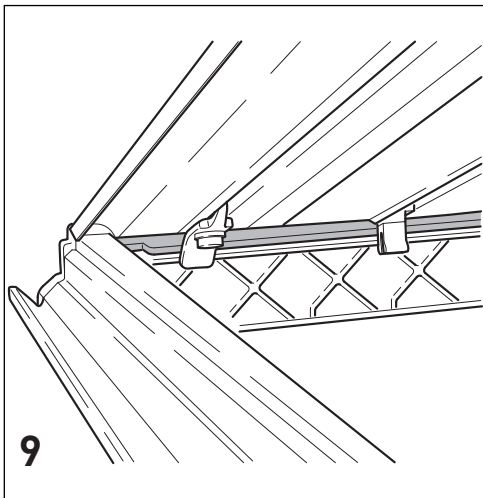
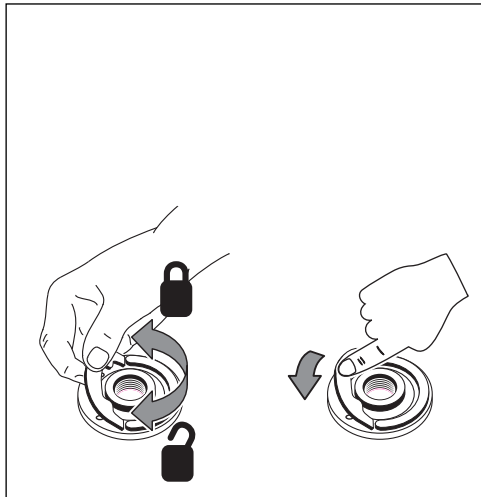
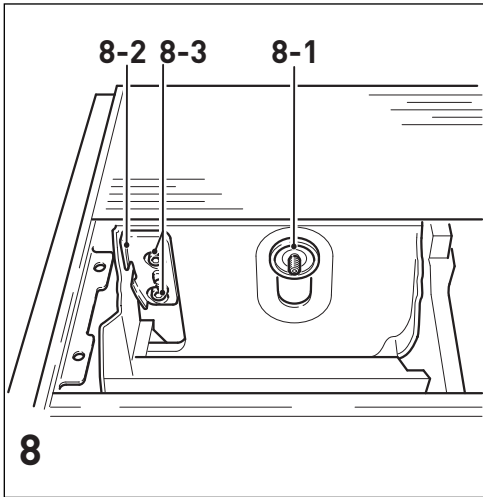
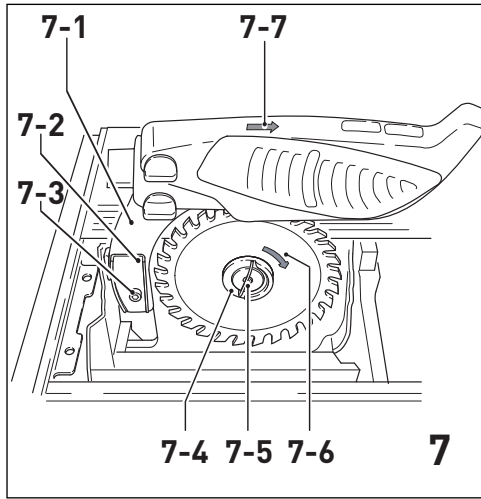
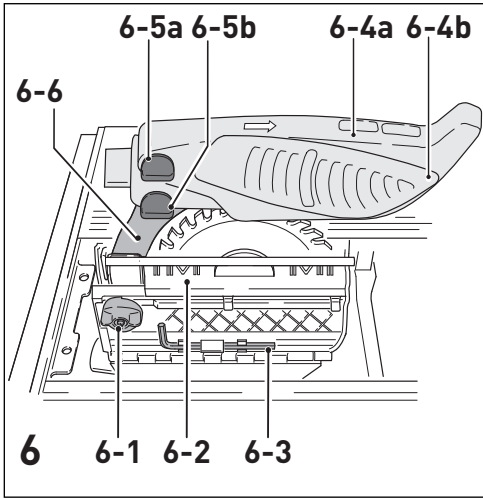
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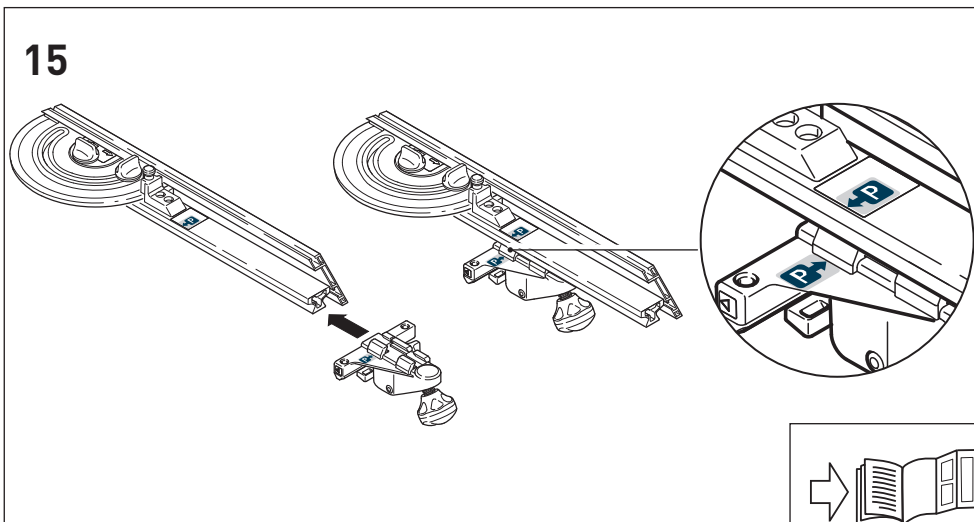
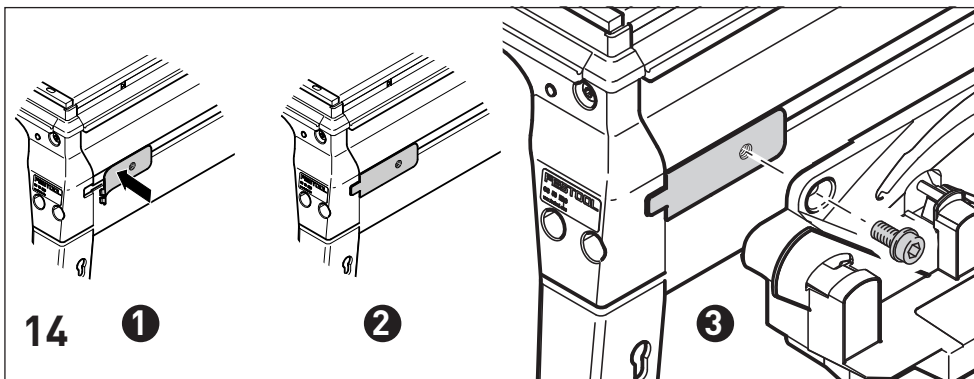
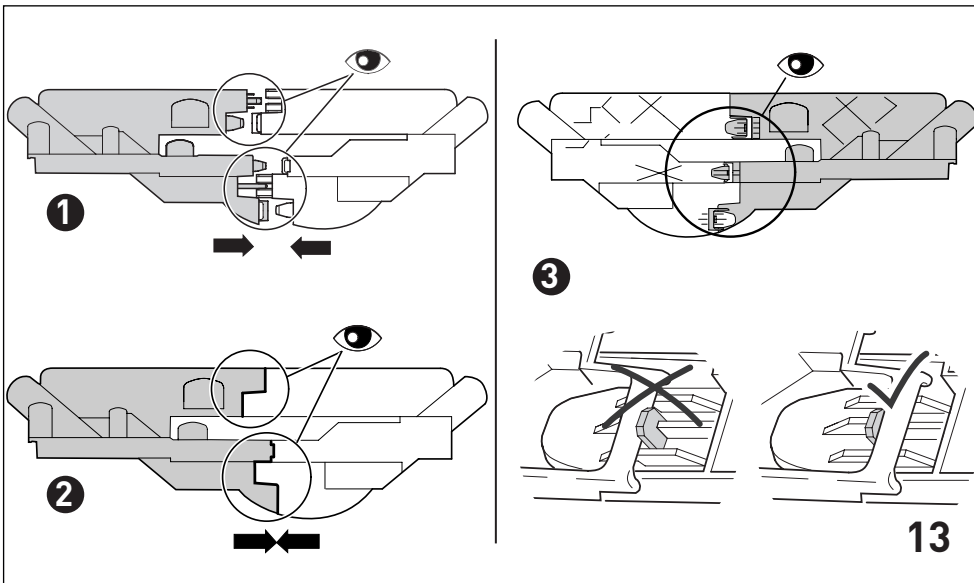
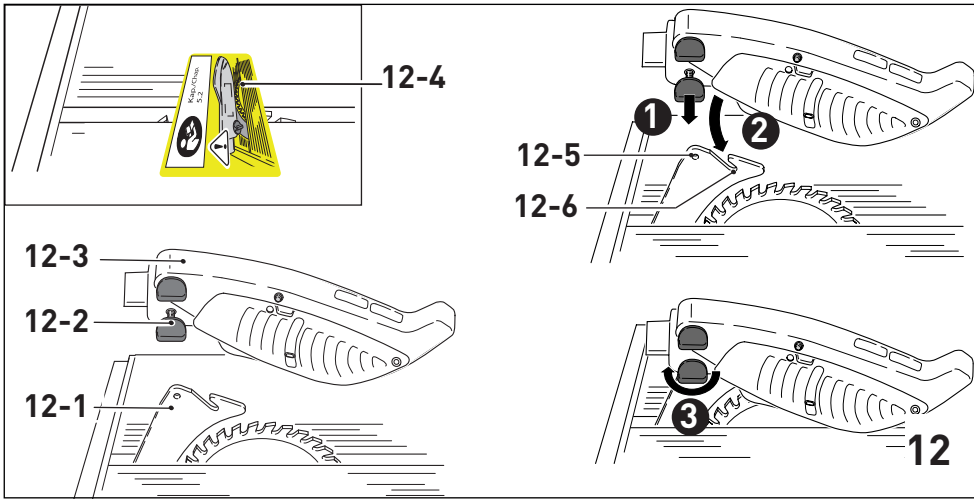
**CS 50 EBG**  
**CS 50 EG**











Tisch- und Zugkreissäge Table saw with sliding function Scie circulaire sur table et scie stationnaire guidée	Seriennummer * Serial number * N° de série * (T-Nr.)
CS 50 EBG	201427, 201429, 201432
CS 50 EG	201431

**de EG-Konformitätserklärung.** Wir erklären in alleiniger Verantwortung, dass dieses Produkt allen einschlägigen Bestimmungen der folgenden Richtlinien einschließlich ihrer Änderungen entspricht und mit den folgenden Normen übereinstimmt:

**en EC-Declaration of Conformity.** We declare under our sole responsibility that this product is in conformity with all relevant provisions of the following directives including their amendments and complies with the following standards:

**fr CE-Déclaration de conformité communautaire.** Nous déclarons sous notre propre responsabilité que ce produit est conforme aux normes ou documents de normalisation suivants:

**es CE-Declaración de conformidad.** Declaramos bajo nuestra exclusiva responsabilidad que este producto corresponde a las siguientes normas o documentos normalizados:

**it CE-Dichiarazione di conformità.** Dichiariamo sotto la nostra esclusiva responsabilità che il presente prodotto è conforme alle norme e ai documenti normativi seguenti:

**nl EG-conformiteitsverklaring.** Wij verklaren op eigen verantwoordelijkheid dat dit produkt voldoet aan de volgende normen of normatieve documenten:

**sv EG-konformitetsförklaring.** Vi förklarar i eget ansvar, att denna produkt stämmer överens med följande normer och normativa dokument:

**fi EY-standardinmukaisuusvakuutus.** Vakuutamme yksinvastuullisina, etta tuote on seuraavien standardien ja normatiivisten ohjeiden mukainen:

**da EF-konformitetserklæring** Vi erklærer at have alene ansvaret for, at dette produkt er i overensstemmelse med de følgende normer eller normative dokumenter:

**nb CE-Konformitetserklæring** Vi erklærer på eget ansvar at dette produktet er i overensstemmelse med følgende normer eller normative dokumenter:

**pt CE-Declaração de conformidade:** Declaramos, sob a nossa exclusiva responsabilidade, que este produto corresponde às normas ou aos documentos normativos citados a seguir:

**ru Декларация соответствия ЕС:** Мы заявляем с исключительной ответственностью, что данный продукт соответствует следующим нормам или нормативным документам:

**cs ES prohlášení o shodě:** Prohlašujeme s veškerou odpovědností, že tento výrobek je ve shodě s následujícími normami nebo normativními dokumenty:

**pl Deklaracja o zgodności z normami UE:** Niniejszym oświadczamy na własną odpowiedzialność, że produkt ten spełnia następujące normy lub dokumenty normatywne:

2006/42/EG, 2014/30/EU, 2011/65/EU

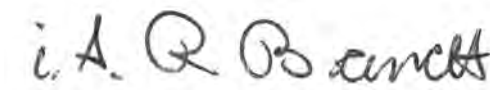
EN 62841-1: 2015 + AC: 2015  
EN 62841-3-1: 2015 + AC: 2015 + A11: 2017  
EN 55014-1: 2017  
EN 55014-2: 2015  
EN 61000-3-2: 2014  
EN 61000-3-3: 2013  
EN 50581: 2012

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\* im definierten Seriennummer-Bereich (S-Nr.) von 40000000 - 49999999  
in the specified serial number range (S-Nr.) from 40000000 - 49999999  
dans la plage de numéro de série (S-Nr.) de 40000000 - 49999999




**Inhaltsverzeichnis**





1 Symbole ..... 8  
 2 Technische Daten ..... 8  
 3 Bestimmungsgemäße Verwendung ..... 8  
 4 Sicherheitshinweise ..... 9  
 5 Aufstellen, Inbetriebnahme ..... 13  
 6 Elektronik ..... 15  
 7 Einstellungen an der Maschine ..... 15  
 8 Arbeiten mit der Maschine ..... 17  
 9 Wartung und Pflege ..... 19  
 10 Zubehör, Werkzeuge ..... 19  
 11 Entsorgung ..... 19

Die angegebenen Abbildungen befinden sich am Anfang der Bedienungsanleitung.

**1 Symbole**

-  Achtung, Gefahr
-  Warnung vor Stromschlag!
-  Anleitung/Hinweise lesen!
-  Gehörschutz tragen!
-  Staubmaske tragen!
-  Schutzhandschuhe tragen!
-  Schutzbrille tragen!
-  Schutzklasse II
-  MMC Electronic Multi-Material-Control
-  Staubabsaugung
-  Nicht in den Hausmüll
-  Griffbereich
-  Dehrichtung Sägeblatt
-  Sägeblattabmessung  
 a ... Durchmesser  
 b ... max. Schnitttiefe  
 c ... Aufnahmebohrung  
 d ... Spaltkeildicke

 Elektrodynamische Auslaufbremse

-  Holz
-  Laminierte Holzplatten
-  Faserzementplatte Eternit
-  Aluminium

**2 Technische Daten**

**CS 50 EBG / CS 50 EG**

Schnitttiefe bei -2°/47°	0-52 mm/0-37 mm
Schrägstellung	-2° bis 47°
Max. Zuglänge	300 mm
Sägeblatt (Durchmesser x Schnittbreite)	190 x 2,6 mm
Aufnahmebohrung	20/30 mm
Stammblattdicke	< 2 mm
Leerlaufdrehzahl	1600 - 4200 min <sup>-1</sup>
Leistungsaufnahme	1200 W
Tischabmessung (Länge x Breite)	600 x 400 mm
Tischhöhe	
ausgeklappt/eingeklappt	900 mm/375 mm
Gewicht entsprechend EPTA-Procedure 01:2014	
Gewicht ohne Klappbeine	21 kg
Gewicht mit Klappbeinen	25 kg


**Zu verwendende Sägeblätter**

Empfohlene Sägeblätter für die verschiedenen Materialien finden Sie im Katalog oder unter [www.festool.de/service](http://www.festool.de/service).

**3 Bestimmungsgemäße Verwendung**

Die PRECISIO ist als transportables Elektrowerkzeug bestimmungsgemäß vorgesehen zum Sägen von Holz, Kunststoffen, Plattenwerkstoffen aus Holz und holzähnlichen Werkstoffen.

Mit den von Festool angebotenen Spezialsägeblättern für Aluminium können die Maschinen auch zum Sägen von Aluminium verwendet werden. Asbesthaltige Werkstoffe dürfen nicht bearbeitet werden.

 Für Schäden und Unfälle bei nicht bestimmungsgemäßem Gebrauch haftet der Benutzer.

## 4 Safety instructions

### 4.1 General safety instructions



**WARNING!** Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

**Keep all safety information and instructions for future reference.**

The term “power tool” used in the safety instructions refers to mains-powered power tools (with power cable) or battery-powered power tools (without power cable).


### 4.2 Safety instructions for table saws

#### Guarding related warnings

- a. **Keep guards in place. Guards must be in working order and be properly mounted.** A guard that is loose, damaged, or is not functioning correctly must be repaired or replaced.
- b. **Always use saw blade guard and riving knife for every through-cutting operation.** For through-cutting operations where the saw blade cuts completely through the thickness of the workpiece, the guard and other safety devices help reduce the risk of injury.
- c. **Immediately reattach the guarding system after completing an operation (such as rabbeting, dadoing or resawing cuts) which requires removal of the guard and/or riving knife.** The guard, riving knife, and anti-kickback device help to reduce the risk of injury.
- d. **Make sure the saw blade is not contacting the guard, riving knife or the workpiece before the switch is turned on.** Inadvertent contact of these items with the saw blade could cause a hazardous condition.
- e. **Adjust the riving knife as described in this instruction manual.** Incorrect spacing, positioning and alignment can make the riving knife ineffective in reducing the likelihood of kickback.
- f. **For the riving knife to work, it must be engaged in the workpiece.** The riving knife is ineffective when cutting workpieces that are too short to be engaged with the riving knife. Under these conditions a kickback cannot be prevented by the riving knife.

- g. **Use the appropriate saw blade for the riving knife.** For the riving knife to function properly, the saw blade diameter must match the appropriate riving knife and the body of the saw blade must be thinner than the thickness of the riving knife and the cutting width of the saw blade must be wider than the thickness of the riving knife.

#### Cutting procedures warnings

- a.  **DANGER: Never place your fingers or hands in the vicinity or in line with the saw blade.** A moment of inattention or a slip could direct your hand towards the saw blade and result in serious personal injury.
- b. **Feed the workpiece into the saw blade or cutter only against the direction of rotation.** Feeding the workpiece in the same direction that the saw blade is rotating above the table may result in the workpiece, and your hand, being pulled into the saw blade.
- c. **Never use the mitre gauge to feed the workpiece when ripping and do not use the rip fence as a length stop when cross cutting with the mitre gauge.** Guiding the workpiece with the rip fence and the mitre gauge at the same time increases the likelihood of saw blade binding and kickback.
- d. **When ripping, always apply the workpiece feeding force between the fence and the saw blade. Use a push stick when the distance between the fence and the saw blade is less than 150 mm, and use a push block when this distance is less than 50 mm.** “Work helping” devices will keep your hand at a safe distance from the saw blade.
- e. **Use only the push stick provided by the manufacturer or constructed in accordance with the instructions.** This push stick provides sufficient distance of the hand from the saw blade.
- f. **Never use a damaged or cut push stick.** A damaged push stick may break causing your hand to slip into the saw blade.
- g. **Do not perform any operation “freehand”. Always use either the rip fence or the mitre gauge to position and guide the workpiece.** “Freehand” means using your hands to support or guide the workpiece, in lieu of a rip fence or mitre gauge. Freehand sawing leads to misalignment, binding and kickback.



- h. **Never reach around or over a rotating saw blade.** Reaching for a workpiece may lead to accidental contact with the moving saw blade.
- i. **Provide auxiliary workpiece support to the rear and/or sides of the saw table for long and/or wide workpieces to keep them level.** A long and/or wide workpiece has a tendency to pivot on the table's edge, causing loss of control, saw blade binding and kickback.
- j. **Feed workpiece at an even pace. Do not bend or twist the workpiece. If jamming occurs, turn the tool off immediately, unplug the tool then clear the jam.** Jamming the saw blade by the workpiece can cause kickback or stall the motor.
- k. **Do not remove pieces of cut-off material while the saw is running.** The material may become trapped between the fence or inside the saw blade guard and the saw blade pulling your fingers into the saw blade. Turn the saw off and wait until the saw blade stops before removing material.
- l. **Use an auxiliary fence in contact with the table top when ripping workpieces less than 2 mm thick.** A thin workpiece may wedge under the rip fence and create a kickback.
- c. **Never hold and press the workpiece that is being cut off against the rotating saw blade.** Pressing the workpiece being cut off against the saw blade will create a binding condition and kickback.
- d. **Align the fence to be parallel with the saw blade.** A misaligned fence will pinch the workpiece against the saw blade and create kickback.
- e. **Use a featherboard to guide the workpiece against the table and fence when making non-through cuts such as rabbeting, dadoing or resawing cuts.** A featherboard helps to control the workpiece in the event of a kickback.
- f. **Use extra caution when making a cut into blind areas of assembled workpieces.** The protruding saw blade may cut objects that can cause kickback.
- g. **Support large panels to minimise the risk of saw blade pinching and kickback.** Large panels tend to sag under their own weight. Support(s) must be placed under all portions of the panel overhanging the table top.
- h. **Use extra caution when cutting a workpiece that is twisted, knotted, warped or does not have a straight edge to guide it with a mitre gauge or along the fence.** A warped, knotted, or twisted workpiece is unstable and causes misalignment of the kerf with the saw blade, binding and kickback.

#### **Kickback causes and related warnings**

Kickback is a sudden reaction of the workpiece due to a pinched, jammed saw blade or misaligned line of cut in the workpiece with respect to the saw blade or when a part of the workpiece binds between the saw blade and the rip fence or other fixed object.

Most frequently during kickback, the workpiece is lifted from the table by the rear portion of the saw blade and is propelled towards the operator. Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- a. **Never stand directly in line with the saw blade. Always position your body on the same side of the saw blade as the fence.** Kickback may propel the workpiece at high velocity towards anyone standing in front and in line with the saw blade.
- b. **Never reach over or in back of the saw blade to pull or to support the workpiece.** Accidental contact with the saw blade may occur or kickback may drag your fingers into the saw blade
- k. **Keep saw blades clean, sharp, and with sufficient set. Never use warped saw blades or saw blades with cracked or broken teeth.** Sharp and properly set saw blades minimise binding, stalling and kickback.

#### **Table saw operating procedure warnings**

- a. **Turn off the table saw and disconnect the power cord when removing the table insert, changing the saw blade or making adjust-**

**ments to the riving knife or saw blade guard, and when the machine is left unattended.** Precautionary measures will avoid accidents.

- b. Never leave the table saw running unattended. Turn it off and don't leave the tool until it comes to a complete stop.** An unattended running saw is an uncontrolled hazard.
- c. Locate the table saw in a well-lit and level area where you can maintain good footing and balance. It should be installed in an area that provides enough room to easily handle the size of your workpiece.** Cramped, dark areas, and uneven slippery floors invite accidents.
- d. Frequently clean and remove sawdust from under the saw table and/or the dust collection device.** Accumulated sawdust is combustible and may self-ignite.
- e. The table saw must be secured.** A table saw that is not properly secured may move or tip over.
- f. Remove tools, wood scraps, etc. from the table before the table saw is turned on.** Distraction or a potential jam can be dangerous.
- g. Always use saw blades with correct size and shape (diamond versus round) of arbour holes.** Saw blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.
- h. Never use damaged or incorrect saw blade mounting means such as flanges, saw blade washers, bolts or nuts.** These mounting means were specially designed for your saw, for safe operation and optimum performance.
- i. Never stand on the table saw, do not use it as a stepping stool.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
- j. Make sure that the saw blade is installed to rotate in the proper direction. Do not use grinding wheels, wire brushes, or abrasive wheels on a table saw.** Improper saw blade installation or use of accessories not recommended may cause serious injury.

### 4.3 Machine-related safety instructions

- Only use tools that meet standard EB 847-1.
- This includes the saw blades recommended by the manufacturer in this operating manual.
- Only use saw blades with the following dimensions: Saw blade diameter 190 mm; cutting

width 2.6 mm, location hole 20 mm; standard blade thickness max. 2.0 mm; suitable for speeds of up to 4200 min<sup>-1</sup>.

- The cutting width of the saw blade must be greater and the standard blade thickness must be smaller than the thickness of the riving knife of 2.0 mm.
- The tool must be suitable for the material you are working on.
- Deformed or cracked saw blades and saw blades with blunt or broken cutting edges must not be used.
- When assembling the tools, ensure that the clamping takes place on the tool hub or the clamping surface of the tool, and that the cutting edges do not come into contact with one another or the fixed clamps.
- Retaining screws and nuts must be tightened using suitable keys, etc. and with the torque specified by the manufacturer.
- Clean any contamination, grease, oil and water off the clamping surfaces.
- Clamping screws must be tightened according to the manufacturer's instructions.
- Do not lengthen the key or tighten by hitting with a hammer.
- The tools must be stored and transported in a suitable container.
- Only use the machine if all safety devices are in their correct positions, the machine is in good condition and has been well maintained.
- Replace worn or damaged (e.g. by saw blade cuts) plates without delay.
- Operating personnel must have received adequate training in the use, set-up and operation of the machine.
- 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.



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 handling tools.

- To minimise noise, the tool must be sharpened and all noise-reducing elements (covers, etc.) must be properly adjusted.

- When cutting wood, connect the machine to a dust extractor corresponding to EN 60335-2-69, dust class M.
- To minimise the release of dust, the machine should be connected to a suitable dust extractor. All dust extraction elements (dust extraction attachments, etc.) must be properly adjusted.
- Never process material that contains asbestos.
- Make sure that you have enough light in the room or work place.
- When sawing, adopt the correct working position:
  - At the front on the side of the operator;
  - Head-on to the saw;
  - Beside the line of cut.
- Use the accompanying push stick to guide the workpiece accurately past the saw blade.
- **Always use the supplied riving knife and the guard. Ensure that they are set correctly as described in the operating instructions.** If the riving knife is set incorrectly and components that are required for safety reasons (such as the guards) are removed, this may result in serious injuries.
- Use a suitable device to support long workpieces and ensure that they are horizontal.
- Pull the plug from the mains power socket before changing tools and rectifying faults such as removing trapped splinters.
- Do not remove offcuts or other workpiece parts from the cutting area while the machine is still running or before the saw blade stops moving.
- If the saw blade is jammed, switch the machine off immediately and disconnect the mains plug. Do not remove the jammed workpiece until you have done this.
- Cutting rebates or grooves is only permitted when a suitable protective device has been fitted, e.g. a protective tunnel over the saw table.
- Reinstall the safety equipment immediately after work that requires the guard to be removed, see section 5.2.
- Do not use circular saws for cutting slots (grooves in workpiece).
- Before transporting the machine, make sure that the top guard covers the top section of the saw blade.
- Do not use the top guard as a handle for transportation.
- When not in use, store the push stick in the accessory holder provided on the machine.
- Use only original Festool accessories and aids.
- Use of your own aids e.g. push stick, rulers, etc. is not permitted.
- Before commencing work, check that the guard and splinter guard can move freely and are resting on the table.
- To prevent the saw blade from overheating or the plastic from melting, set the correct speed for the cutting material and do not use excess pressure when cutting.
- When cutting metal, switch on the saw using a residual current circuit breaker.
- Check the plug and the cable regularly and should either become damaged, have them replaced by an authorised after-sales service workshop.
- **Only for AS/NZS:** The tool shall always be supplied via residual current device with a rated residual current of 30 mA or less.

#### 4.4 Emission levels

Typically, the noise levels that are determined in accordance with EN 62841 (see EC declaration of conformity) are as follows:

Sound pressure level	$L_{PA} = 87 \text{ dB(A)}$
Sound power level	$L_{WA} = 101 \text{ dB(A)}$
Measuring uncertainty allowance	$K = 3 \text{ dB}$



#### Wear ear protection!

- The specified noise emission levels have been measured in accordance with the standard testing method and can be used to compare power tools.
- The specified noise emission levels can also be used for making preliminary estimates regarding noise load.



#### CAUTION

**The noise emissions during actual use of the power tool can differ from the declared values depending on the ways in which the tool is used especially what kind of workpiece is processed.**

- Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

## 4.5 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 emissions,
- Wood dust emissions.

## 5 Set-up, operation

- When unpacking the tool, remove all transport inserts.
- Ensure that the floor around the machine is level, in good condition and free of loose objects (e.g. chips and offcuts).

### 5.1 Setting up the machine

The machine can be set up with or without unfolded legs (fig. 1 and 2).

To unfold the legs, loosen the four rotary knobs [1-6] all the way. Tighten the four rotary knobs again once the legs are unfolded.

If the machine wobbles, the length of one leg can be adjusted by turning the end cap [1-7] until the machine stands securely.

### 5.2 Prior to initial operation

#### 5.2a Installing the guard (fig. 12)

- Remove the yellow safety sticker [12-4].
- Set the saw to maximum cutting depth and the mitre to 0°.
- Pull the riving knife [12-1] into the upper position.
- ❶ Take hold of the guard [12-3] and completely unscrew the screw [12-2].
- ❷ Place the guard [12-3] on the riving knife [12-1]. In doing this, guide the lengthwise pin that is located in the guard [12-3] into the groove [12-6] on the riving knife [12-1] and push the screw [12-2] into the hole [12-5] in the riving knife [12-1] and tighten it.
- ❸ Tighten the screw [12-2].

#### 5.2b Installing the preset profile setting rail

Push the handle of the preset profile setting rail into the zero position (fig. 15). Tighten the screw [3-6] (fig. 3) and attach it to the table.

### 5.3 Transport



When transporting the power tool, hold it by the handle areas on the sides [2-6]. Never take hold of or transport the power tool by the protective cover.

- Click the saw unit into place in the zero position.
- Remove all attachments from your saw and wind up the cable on the cable holder.
- Fold up the legs if necessary.

**5.3a** For transport over short distances, two of the machine's leg ends are equipped with transport rollers. Take hold of the power tool by the handle area [2-6] and pull it to the desired place.

### 5.4 Scope of application

The machine can be used as a table saw or as a table saw with sliding function.

#### a) Table saw (fig. 1)

- Set the switch [1-9] to the lower position.
- Swivel the handle [1-8] downwards and use it to pull the saw unit forwards until it clicks into place.

The saw unit is now in a central position on the table and the machine can be used as a table saw.

#### b) Table saw with sliding function (fig. 3)

- Set the switch [3-10] to the upper position.
- When the handle [3-9] is swivelled downwards, it can move the saw unit backwards and forwards for making cuts. The backwards motion is supported by a spring force.

### 5.5 Dust extraction



The PRECISIO has two vacuum connections: A top guard with bayonet coupling [2-3] with a diameter of 27 mm and a bottom guard [2-2] with a diameter of 35 mm.

The CS 70 AB dust extraction set (included in the delivery of CS 50 EB) connects the two vacuum connections together so that a Festool mobile dust extractor can be connected.

### 5.6 Power supply and operation



The mains voltage must correspond to the specification on the rating plate.

- In North America, only Festool machines with the voltage specifications 120 V/60 Hz may be used.
- We recommend using a 16 A fuse because of the performance of the motor.
- Before use always inspect the flexible lead and the plug. Have the defects repaired by a specialist repair shop.
- Outside the premise use only approved extension leads and cable connections.

To switch the power tool on, press the ON/OFF switch [4-1] and the locking switch [4-4] at the



same time. The machine will run as long as the ON/OFF switch remains pressed.

For continuous operation once the power tool has been switched on, release the ON/OFF switch [4-1] first and then release the locking switch [4-4]. To switch continuous operation off, either press the ON/OFF switch again and then release it, or press the red switch [4-6].

To prevent the device from being switched on without authorisation, a U-lock can be fitted to the ON/OFF switch hole [4-2].

### 5.7 Extra feet [1-11] [1-12]\*

Always use the extra feet\* with an extension table (width or length) or sliding table. Loosen the screw [1-11], swivel the leg [1-12] down until it has settled on the floor and retighten the screw [1-11].

\* Accessories shown or described are not always included in the scope of delivery.

### 5.8 Installing the accessory holder (fig. 13)

When connecting the two individual parts, make sure that the tabs on the latches fit together exactly and lock in place. Also check the back of the accessory holder to make sure the latches are in the correct position in the holding brackets.

### 5.9 Cuts along the mitre

For cuts along the mitre, the preset profile setting rail should be on the right-hand side of the table.

### 5.10 Switching on the machine when cutting metal

When cutting metal, switch on the saw using a residual current circuit breaker.

## 6 Electronics



The machine features full-wave electronics with the following properties:

### 6.1 Smooth start-up

The electronically controlled smooth start-up function ensures that the machine starts up smoothly.

### 6.2 Speed control

The rotational speed is infinitely adjustable between 1600 and 4200 min<sup>-1</sup> using the adjusting wheel [4-5]. This enables you to optimise the cutting speed to suit the respective material [4-3].

#	n <sub>0</sub> [min <sup>-1</sup> ]	#	n <sub>0</sub> [min <sup>-1</sup> ]
1	~ 1600	4	~ 3100
2	~ 2100	5	~ 3600
3	~ 2600	6	~ 4200

The preselected motor speed is kept constant through electronic control. This ensures a uniform cutting speed even when under load.

### 6.3 Overload safety device

The power supply is restricted if the machine is overloaded to extremes. The power supply is disconnected completely if the motor jams for some time. You will need to remove the load and/or switch off the machine before you can use it again.

### 6.4 Temperature cut-out

The power supply is restricted and the speed reduced if the motor exceeds a certain temperature. The machine continues operating at reduced power to allow the ventilator to cool the motor quickly. The machine starts up again automatically once the motor has cooled sufficiently.

### 6.5 Brake

After switching off the tool, the saw blade is electronically brought to a standstill in 1.5-2 seconds (only in 230-240 V models).

### 6.6 Restart protection

The built-in undervoltage release prevents the machine from starting up again automatically if the power is disconnected during continuous use. In this case, the machine must be switched off and then switched back on again.

## 7 Settings on the machine



Always pull the mains plug before maintaining, servicing or making any kind of adjustment.

To make adjustments easier, the saw unit can be locked in place in the central position (fig. 5): Pull the saw unit forward up to the stop and set the switch [5-1] to the lower position.

### 7.1 Cutting height

The cutting height can be continuously adjusted (0 - 52 mm when the saw blade is set to 90°) by turning the crank [5-4].

### 7.2 Mitre angle

The saw blade can be swivelled between 0° and 45°:

- Loosen the rotary knob [5-3],
- Set the mitre angle with the help of the scale [5-6] by turning the handle [5-2],
- Tighten the rotary knob [5-3].

The saw blade can be tilted 2° beyond the two end positions for precision trimming work (undercuts on abutting edges). To do this, press the button [5-5] in the end position; then the saw blade

can be swivelled to  $-2^\circ$  or  $47^\circ$ . After swivelling it back, the two end positions become active again.

### 7.3 Changing tools



Safety instructions for the FastFix clamping nut (fig. 7A).

Close the lift-up handle after tightening the clamp.

Only tighten or loosen the FastFix clamping nut by hand. Never use a screwdriver, pliers or any other tool to loosen or tighten the lift-up handle.

If the nut can no longer be loosened by hand, it should only be loosened with a face wrench.

If the lift-up handle is loose or damaged, the FastFix nut must no longer be used under any circumstances.



Because of the special tool holder, only saw blades available for this machine from Festool with a diameter of 190 mm may be used.



Wear gloves when swapping out tools but not when cutting.

- Open the lock [1-3] and lift the table insert [1-2] up and out,
- Open the lock [6-1] and swivel the saw blade cover [6-2] downwards. This automatically locks the tool spindle,
- Pull the lever [7-5] and turn it clockwise (left-hand thread) to open the FastFix quick release [7-4],
- Change the tool while making sure that:
  - The FastFix quick release [7-4], flange [8-1] and saw blade are clean,
  - The rotation direction of the saw blade [7-6] corresponds to the rotation direction of the machine [7-7],
  - The saw blade is placed in the middle of the flange [8-1] and then turned until the contours of the flange and the hole of the saw blade click into place.
- Tighten the FastFix quick release [7-4] anti-clockwise and pull the lever [7-5],
- Swivel the saw blade cover [6-2] upwards and close the lock [6-1],
- Rotate the saw blade twice to make sure that it can move freely.
- Put the table insert back, far edge first (fig. 9), and close the lock [1-3].

### 7.4 Adjusting the riving knife

The riving knife [7-1] needs to be adjusted so that the distance to the saw blade's teeth is 3 to 5 mm.

- Use the hex key [6-3] to unscrew the screw [7-3] and remove it together with the clamping element [7-2],
- After unscrewing both screws [8-3], the guide piece [8-2] can be moved vertically to adjust the distance between the riving knife and saw blade.
- After successful adjustment, return the riving knife and clamping element and retighten all screws.

### 7.5 Fence

The supplied fence can be attached to all four sides of the machine as shown in fig. 3.

The fence can be adjusted in the following ways: The fence can be inserted as a rip fence (fig. 1) or as a cross-cutting fence or angle-cutting fence (fig. 3).

#### Rip fence:

- Loosen the screw [3-3] and lift the fixing pin [3-4] adjust the angle to  $0^\circ$  with the help of the scale, lock the fixing pin again and tighten the screw [3-3].
- Loosen the screw [3-2] and adjust the rail [3-1] so that the triangular arrow is within the green sticker, see details [1-13]. Then tighten the screw [3-2].
- Push the preset profile setting rail into the groove on the side of the table (fig. 3 detail). Slide it until the preset profile setting rail's handle covers the green marked area on the side of the table, see detail [1-14]. Then tighten the screw [3-5].
- Loosen the screw [3-6], set the desired cutting width and retighten the screw.

The preset profile setting rail can be used as a high or low rip fence. For this adjust the rail [3-1] upright or flat.

The low rip fence is used to avoid collision with the saw blade guard, e.g. for mitre cuts with a saw blade swivelled by  $45^\circ$ .

#### Cross-cutting fence and angle-cutting fence:

- Slide the preset profile setting rail into the groove in the table and retighten the screw [3-5].
- Loosen the screw [3-3] and lift the fixing pin [3-4] adjust to the desired angle on the scale (the fixing pin will click into place in the most common angle settings) and then retighten the screw [3-3].



- Loosen the screw [3-2] and adjust the rail [3-1] so that it does not reach into the cutting plane and then tighten the screw [3-2].



Make sure that all rotary knobs on the preset profile setting rail are tightened before starting work. The preset profile setting rail should always be used in a fixed position and must not be used to push the workpiece.

When not in use, fold the preset profile setting rail to the zero position and put it in the accessory holder [2-1] (right side of fig. 2).

## 7.6 Scale for cutting width

The two scales [1-5] indicate the cutting width of rip cuts.

If needed, the scales can be readjusted after loosening the screws [1-4].

## 7.7 Installing the splinter guard

The splinter guard [10-2] prevents splinters on the lower cutting edge of the workpiece.

The splinter guard can be used at all mitre angles but a separate splinter guard must be installed and cut into for each angle:

- Set the saw blade to the minimum cutting height.
- Open the lock [1-3] and lift the table insert [1-2] up and out,
- Open the lock [6-1] and swivel the saw blade cover [6-2] downwards. This automatically locks the tool spindle,
- Slide the splinter guard [10-2] sideways onto the retainer [10-3] up to the stop,
- Swivel the saw blade cover [6-2] upwards and close the lock [6-1],
- Put the table insert back, far edge first (fig. 9), and close the lock [1-3].
- Switch on the machine and slowly move the saw blade up to the maximum cutting height - this cuts into the splinter guard.

The raised section [10-1] of the splinter guard should protrude slightly (by approx. 0.3 mm) over the edge of the table so that it functions more effectively. The height of the retainer [10-3] can also be adjusted after loosening the two screws [10-4].

## 7.8 Adjusting the guard

- To adjust the fences, the guard can be locked in place in the upper position.
- Lock the lateral splinter guard [16-3] with the catch in the upper position [16-2].

- Lift the guard into the upper position [16-4] and tighten the screw [16-1].
- After adjusting the fences, loosen the screw [16-1] again and unhinge the lateral splinter guard [16-3]. Note: The guard and the splinter guard must lie freely on the plate (fig. 17).
- When not in use, the guard should be attached to the accessory holder [2-1].

## 8 Working with the machine



Always read all safety instructions when working with the machine.

Ensure that the upper guard [6-4a] and the splinter guard [6-4b] are resting on the workpiece and move freely.



Do not work with oversized and heavy workpieces that could damage the tool.

The guard determines the maximum height of the workpiece.



For safety reasons, **NEVER** work without an upper guard [6-4a] fitted (except for non-through cuts).



Perform measurement settings when the machine is at a standstill.

### 8.1 Using the machine as a table saw

#### 8.1a Rip cuts

- Place the saw blade on the centre of the table, see section 5.4.a).
- Use the preset profile setting rail as a lengthwise ruler (see fig. 1) to guide the workpiece.
- You can adjust the cutting width [1-5] using the scales.
- Guide the workpiece by hand. Keep your arms away from the saw blade's centre line.
- Use the push stick [2-4] to guide the workpiece past the saw blade.
- When not in use, the push stick [2-4] should be placed in the accessory holder [2-1].

#### 8.1b Angled cuts

- For angled cuts, the mitre angle of the saw blade needs to be adjusted, see section 7.2.

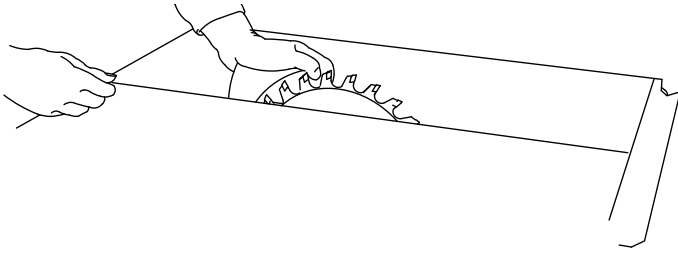
#### 8.1c Non-through cuts

If the guard has been removed, the riving knife can be adjusted by firmly pulling by two locking positions. The riving knife is used in the upper locking position for all applications, except for non-through cuts.

#### Before starting work

- Remove the upper guard [6-4a].

- Move the riving knife [7-1] into the lower locking position by pushing it down firmly.



### Creating non-through cuts

When executing non-through cuts, pay particular attention that the tool is guided precisely. To do this, push the workpiece down firmly onto the table. Select the cutting sequence so that the workpiece side already sawed out is not the fence side (risk of kickback).

#### Rabbeting

- Set the cutting depth and fence of the first side of the rebate.
- Carry out the first saw cut of the rebate by guiding the workpiece by hand. Keep your arms away from the saw blade's centre line.
- Use the push stick [2-4] to guide the workpiece past the saw blade.
- Turn the workpiece.
- Set the cutting depth and fence of the second side of the rebate.
- Make the second saw cut of the rebate.
- Use the push stick [2-4] to guide the workpiece past the saw blade.

#### Rabbeting on workpieces ≤ 12 mm with a table saw with sliding function (with the saw blade locked)

- Use the fence as a cross-cutting fence (fig. 3).
- Observe the operating instruction for cross cuts (see section 8.2a).



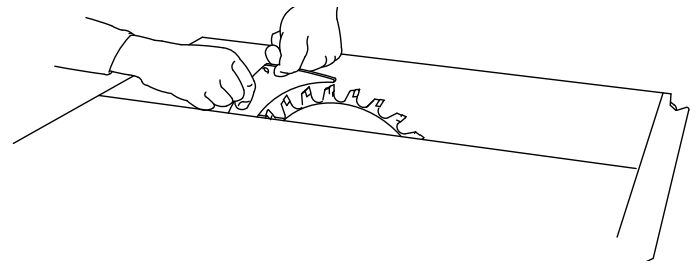
**NEVER** use the fence as a rip fence when rabbeting on the short side.

#### Grooving

- Adjust the cutting depth on the saw blade.
- Use the fence as a guide.
- Guide the workpiece by hand. Keep your arms away from the saw blade's centre line.
- Use the push stick [2-4] to guide the workpiece past the saw blade.
- Repeat the process until the required grooving depth is achieved.

### After finishing work

- After executing the non-through cuts, move the riving knife [7-1] back into the upper position and attach the guard [6-4a].



### Complicated concealed cut process

- e.g. plunge saws, resawing, dadoing, profile routing and fluting are not permitted.

#### 8.1d Featherboard

##### NOTE

Use a featherboard for non-through cuts. Fit the featherboard on the fence and the table so that the featherboard pushes the workpiece down firmly onto the plate during cutting. Featherboards are not included with the delivery.

#### 8.1e Longitudinal cuts at an angle

- Only use the left fence when making longitudinal cuts at an angle in material with an edge length of ≤ 150 mm. This creates more space between the fence and the saw blade.

### 8.2 Using the machine as a table saw with sliding function

#### 8.2a Cross cuts

- Place the saw blade in the back table position, see section 5.4 b).
- Use the preset profile setting rail as a crosswise or angle ruler (fig. 3) to position the workpiece and hold it in place. Fastening clamps (not included in delivery) can be inserted into the grooves [3-8] to secure the workpiece. Carry out the saw cut by swivelling the handle [3-9] downwards and using it to pull the saw unit forwards.
- After completing the cut, move the saw unit right back to its starting position before removing the workpiece from the preset profile setting rail.

#### 8.2b Angled cuts

- The mitre angle of the saw blade needs to be adjusted for angled cuts, see section 7.2. The preset profile setting rail is on the right-hand side of the table.
- For mitre cuts, the preset profile setting rail has to be adjusted, see section 7.5.

### 8.3 Push stick

- When not in use, the push stick [2-4] should be placed in the accessory holder [2-1].

## 9 Service and maintenance



Always pull the mains plug before maintaining, servicing or making any kind of adjustment.



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 components must be repaired or replaced in a recognised specialist workshop in accordance with regulations, unless otherwise indicated in the operating manual.



**Customer service and repairs:** Only by manufacturer or service workshops. Find the nearest address at:

[www.festool.co.uk/service](http://www.festool.co.uk/service)



Always use original Festool spare parts. Order no. at:

[www.festool.co.uk/service](http://www.festool.co.uk/service)

The machine is equipped with special self-disconnecting carbon brushes. If they wear out, the power supply is disconnected automatically and the tool stops.

Maintain your machine regularly to make sure it functions properly:

- Use an extractor to remove dust deposits,
- Keep guide rods [1-10] clean and grease them regularly,
- Replace worn or damaged table inserts,
- Use the slide [11-1] to open the flap [11-3] in order to remove offcuts from the lower guard. To remove larger deposits, the flap can be completely opened by unscrewing the screw [11-2]. Close the flap again prior to use.
- After completing work, wind up the power cable onto the accessory holder [2-1].
- A damper allows the saw unit to retract evenly along the entire cutting length. If this is not the case, the damper can be adjusted using the hole [2-5].
- If it becomes necessary to replace the power cable, this must be carried out by the manufacturer or the service team in order to ensure that no hazards arise.

## 10 Accessories, tools

Festool provides comprehensive accessories which allow you to use your machine effectively and for diverse applications, e.g.: Extension tables (width and length), sliding table, trimming attachment, dust extraction set.

In order to be able to saw different materials quickly and cleanly, Festool offers saw blades that are specially designed for your machine.

The order numbers of the accessories and tools can be found in the Festool catalogue or on the Internet under "www.festool.com".

## 11 Disposal

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

**EU only:** In accordance with European Directive 2002/96/EC on waste electrical and electronic equipment and implementation in national law, used power tools must be collected separately and handed in for environmentally friendly recycling.

**Information on REACH:** [www.festool.com/reach](http://www.festool.com/reach).

## General information

### Imported into the UK by

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