

# Instruction Manual

# **MAKO** Tools™

## **250mm BENCH SAW**

Model SROM 1197



*Our tool range has you covered for DIY. Whatever the job, make light work of it with MAKO tools.*

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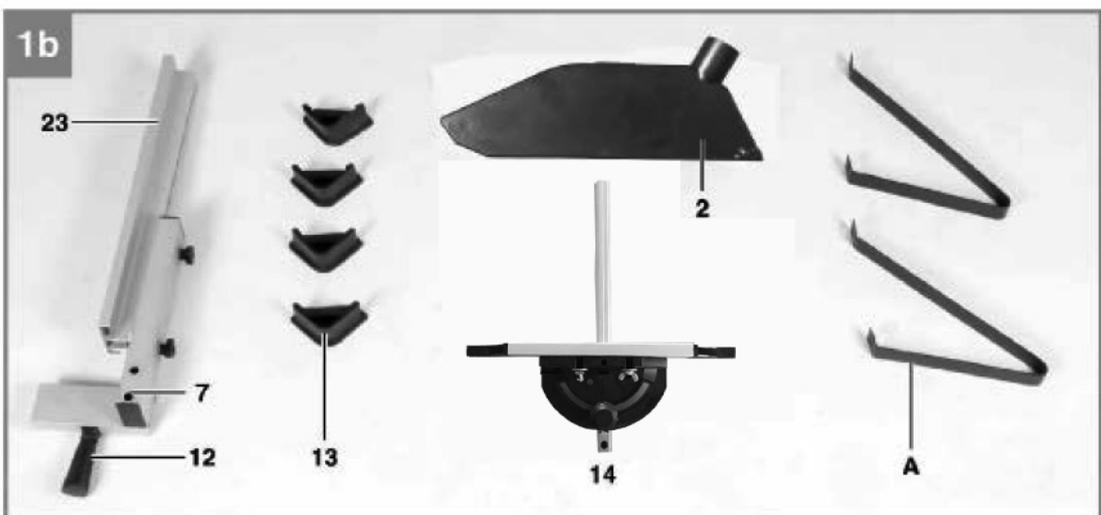
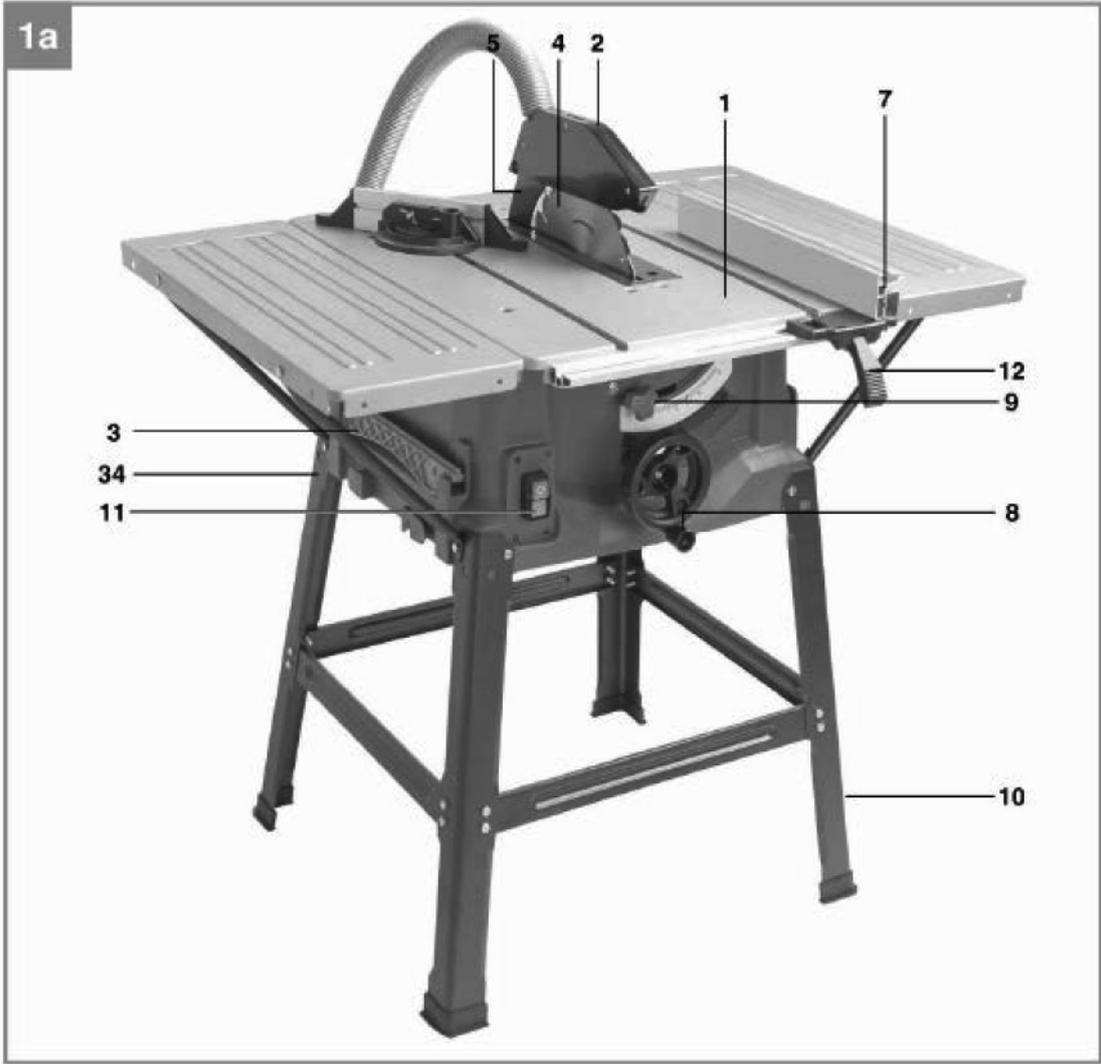
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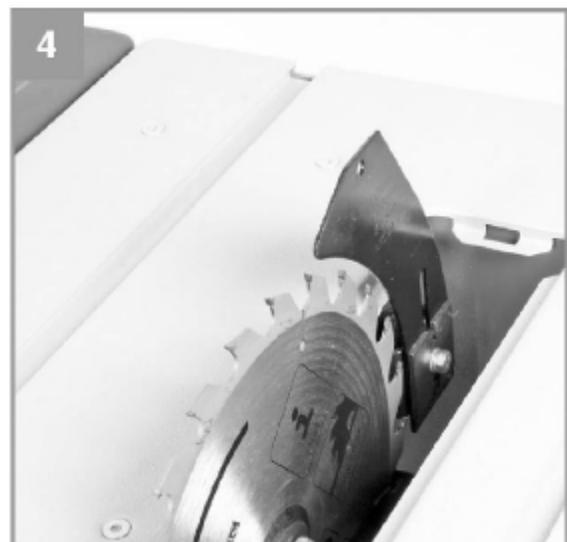
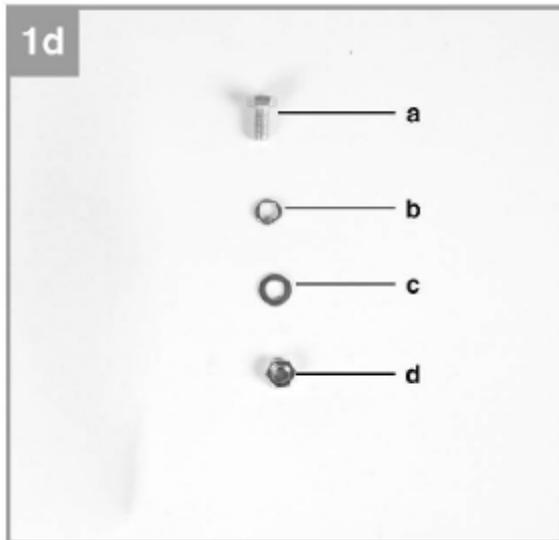
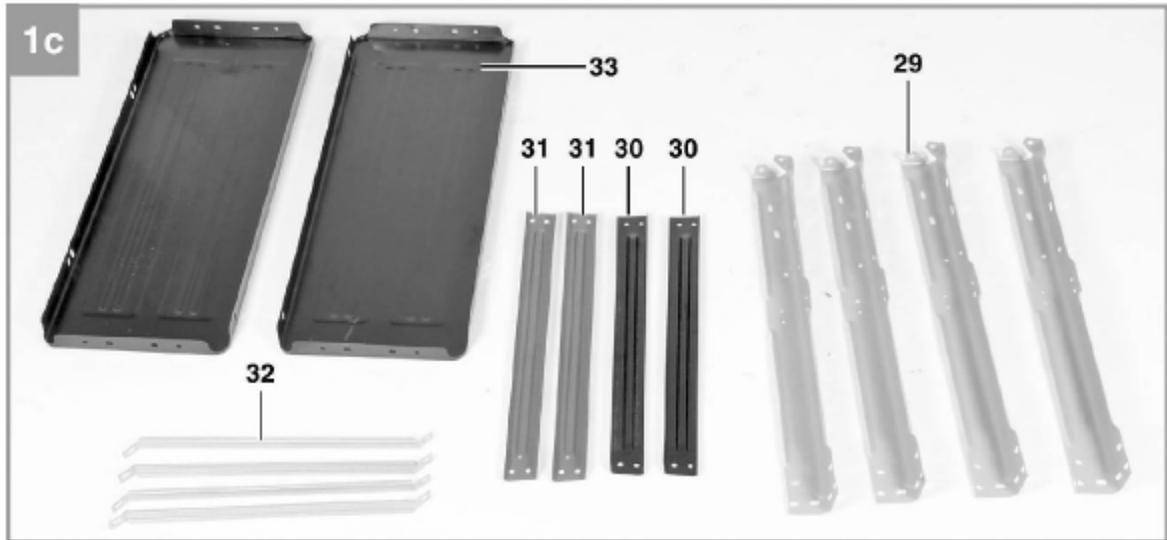
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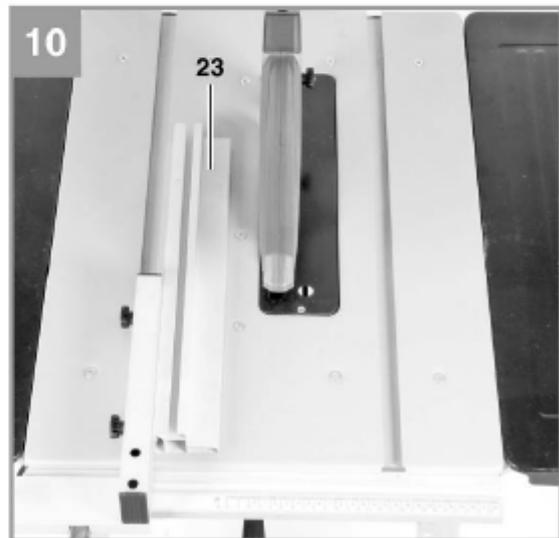
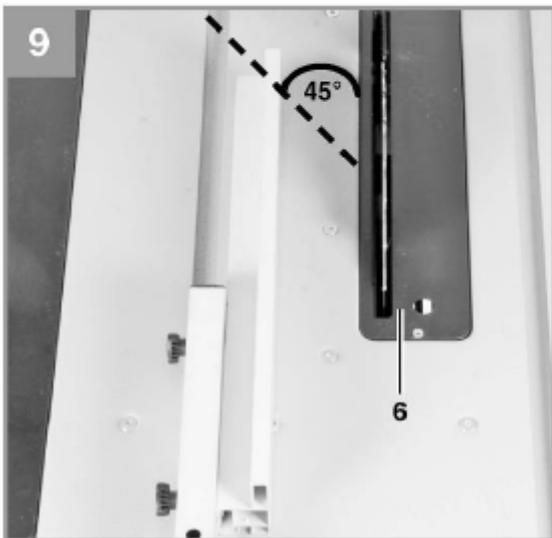
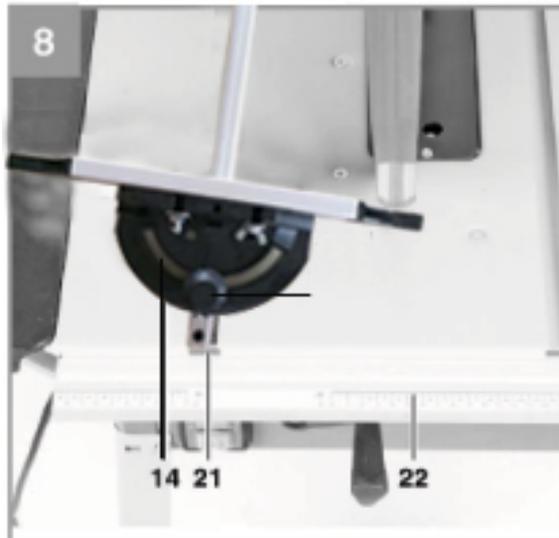
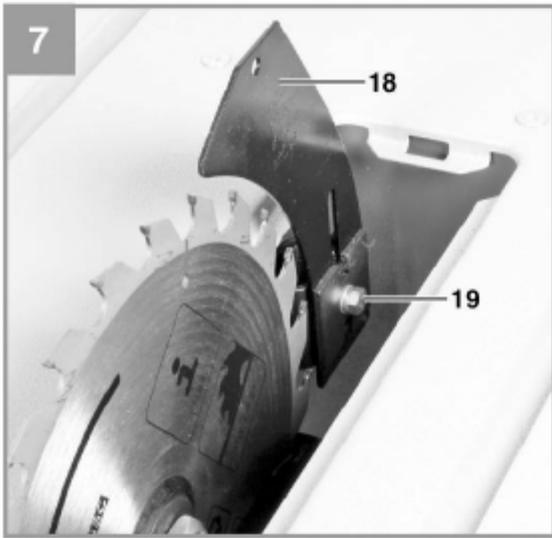
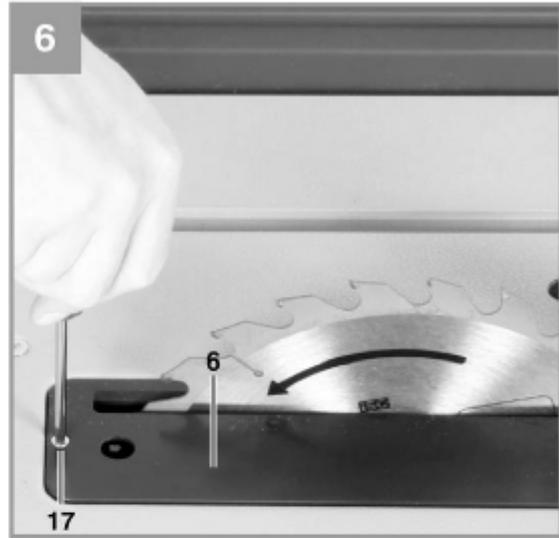
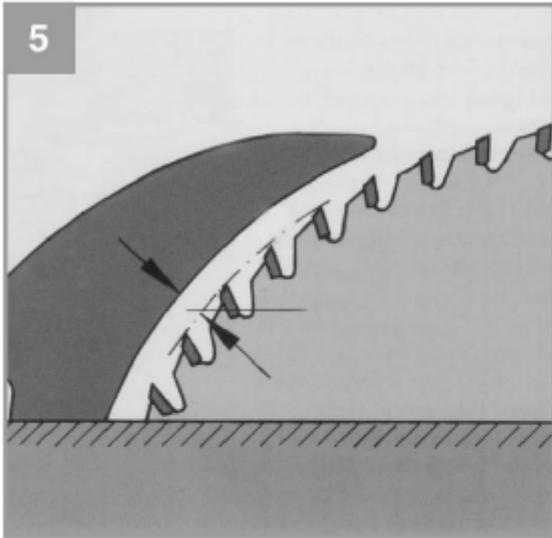
All Mako Power Tools are backed by a comprehensive 2 year DIY warranty. If for any reason you experience a fault with this power tool, please contact the retailer that it was purchased from, and present the receipt for a full refund or replacement. **The warranty is void** if damage is not attributable to normal wear and tear, **if the tool is used commercially**, the motor is overloaded or is tampered with, is damaged by accident or if it is bought second hand. Continued use after partial failure, or use with the incorrect accessories will void the warranty.

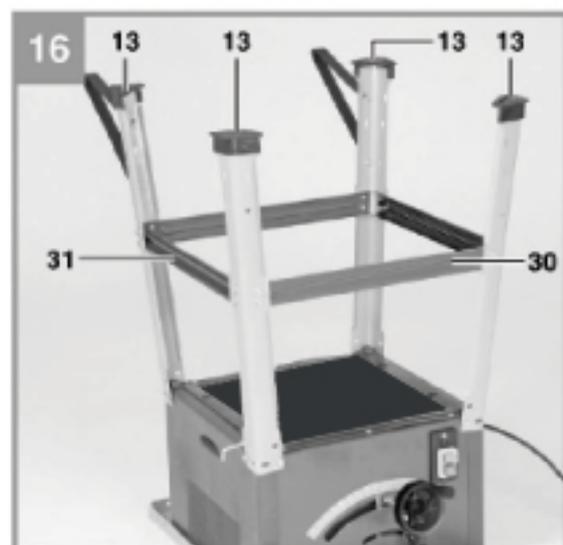
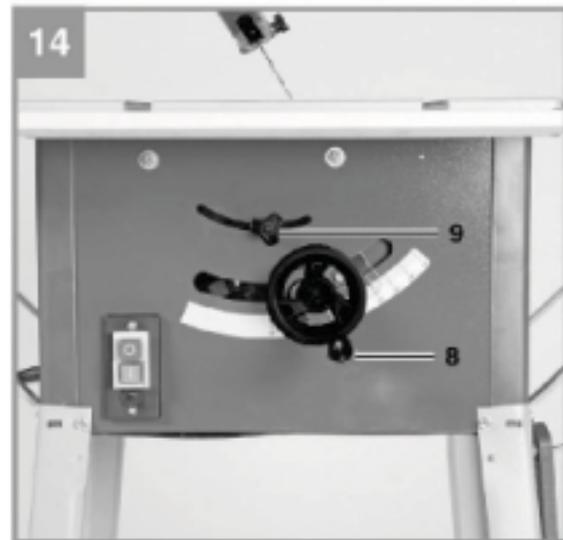
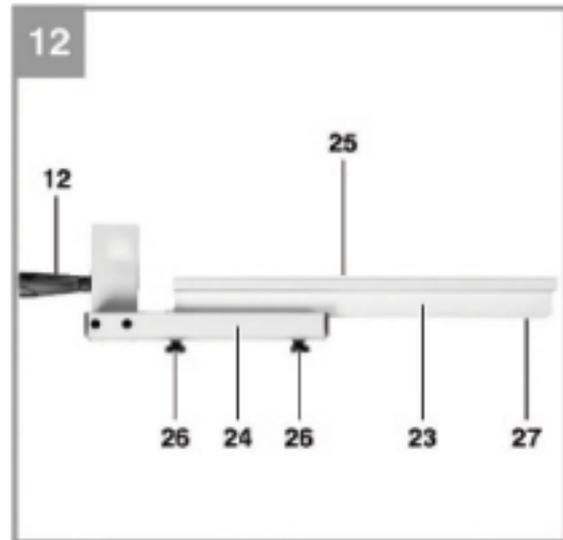
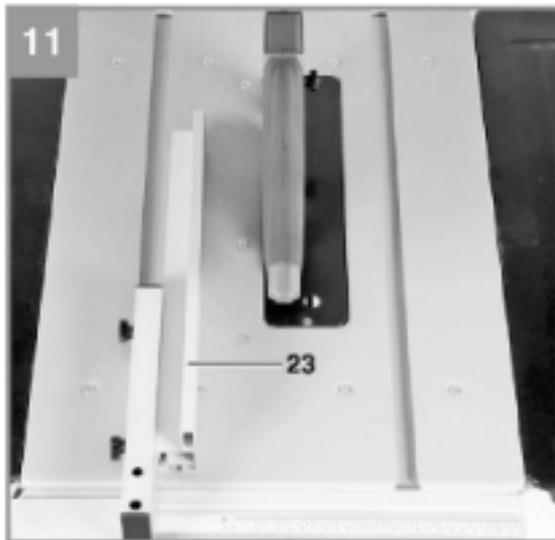
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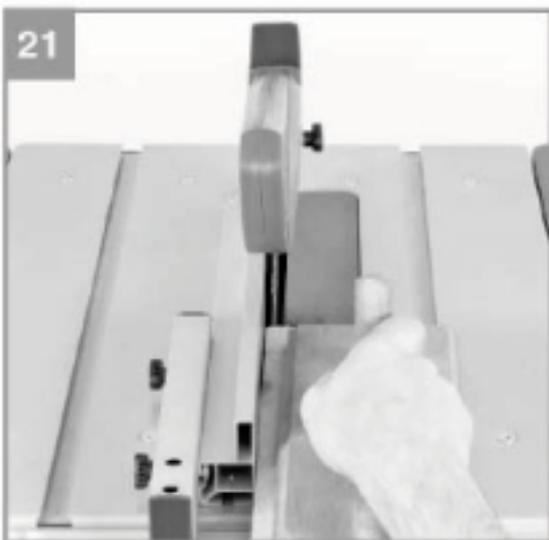
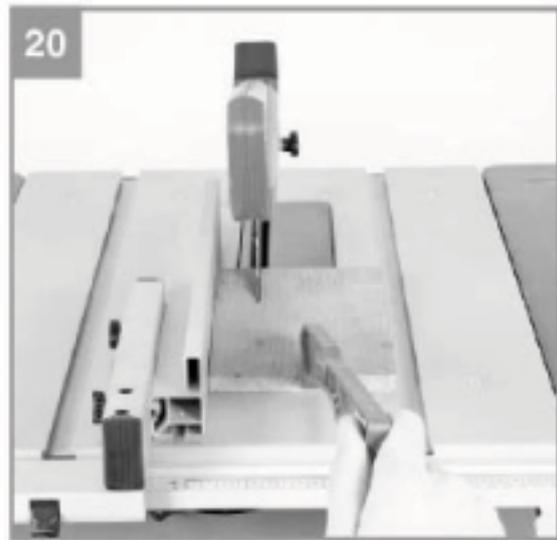
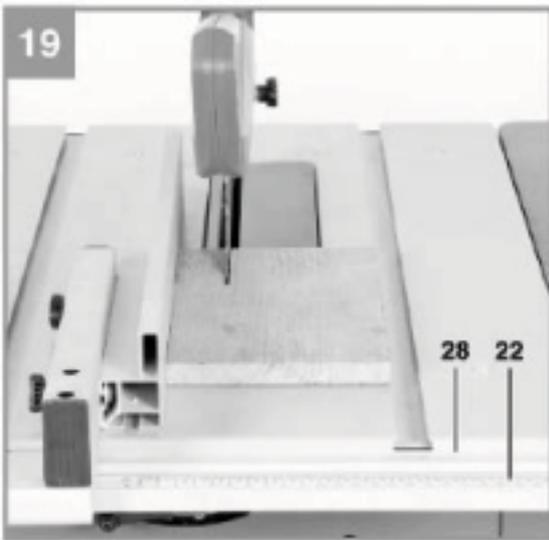
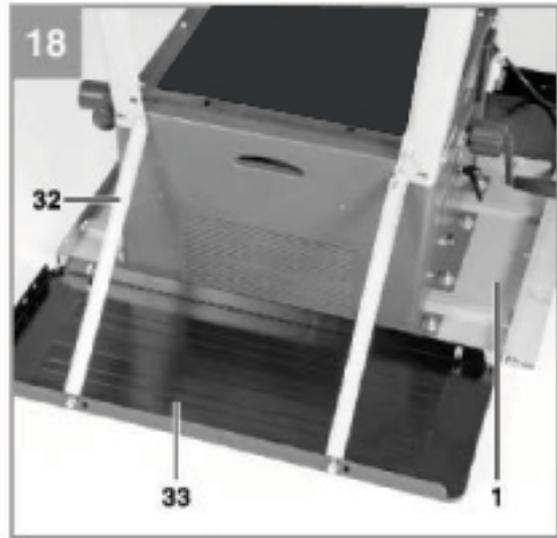
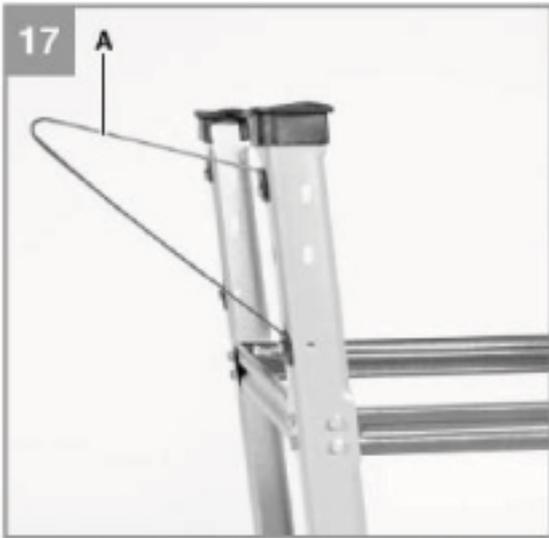
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### DESCRIPTION OF SYMBOLS:



Please read all of the safety and operating instructions carefully before using this bench saw. Please pay particular attention to all sections of this User Guide that carry warning symbols and notices.

	Observe caution and safety notes!
	Caution - electric shock! Danger to life!
	Wear hearing protection, dust protection mask, protective glasses and protective gloves.
	Keep children away from electrical power tools!
	Protect electrical power tools from moisture!
	Check that the device, mains lead and plug are in good condition!
	Safety class <b>II</b>
	Dispose of packaging and appliance in an environmentally friendly way!
	<b>Caution! Risk of injury!</b> Do not reach into the running saw blade.

## 1. SAFETY INSTRUCTIONS AND WARNINGS:

The equipment complies with the safety regulations required for electrical equipment.

Read through the instructions for use before starting up the equipment.

Improper use can lead to personal Injury and property damage. Persons who are not familiar with the instructions may not operate the equipment. Keep the instructions for use in safe custody. Children and youths are not permitted to operate the equipment

## 2. COMPONENTS:

- |                              |                              |
|------------------------------|------------------------------|
| 1. Saw Table                 | 18. Hole (riving knife)      |
| 2. Saw Blade Guard           | 19. Fastening Bolt           |
| 3. Push Stick                | 20. Pivot Clamp/Handle       |
| 4. Saw Blade                 | 21. Table Groove             |
| 5. Riving Knife              | 22. Scale                    |
| 6. Table Insert              | 23. Fence Rail               |
| 7. Rip Fence                 | 24. Fence Bracket            |
| 8. Hand Wheel                | 25. Slot in Fence            |
| 9. Adjusting and Locking Nut | 26. Screw and Nut x2         |
| 10. Base Frame               | 27. Slot in Fence            |
| 11. On/Off Switch            | 28. Guide Rail               |
| 12. Rip Fence Clamp          | 29. Leg x4                   |
| 13. Rubber Foot x4           | 30. Cross Rail x2            |
| 14. Cross Slide              | 31. Side Rail x2             |
| 15. Pivot Screw              | 32. Side Table Braces x4     |
| 16. Extractor Adapter        | 33. Table Width Extension x2 |
| 17. Countersunk Screw        | 34. Tool Hook                |
- 
- |                |                  |
|----------------|------------------|
| A. Leg Brace   |                  |
| a. Hex Screw   | b. Spring Washer |
| c. Flat Washer | d. Nut           |

### Items supplied

Please check that all parts are included as specified above. If parts are missing, please contact the sales outlet where you made your purchase at the latest within 5 working days after purchasing the product and upon presentation of a valid receipt .

- Open the packaging and take out the equipment with care.
- Remove the packaging material and any packaging and/or transportation braces (if used).
- Check to see if all items are supplied.
- Inspect the equipment and accessories for transport damage.
- If possible, please keep the packaging until the end of the guarantee period.

### Danger!

**The equipment and packaging material are not toys. Do not let children play with plastic bags, foils or small parts. There is a danger of swallowing or suffocating!**

### **3. PROPER USE:**

This machine is designed for ripping and crosscutting wood and plastic in sizes corresponding to the machine size. It is not suitable for cutting firewood or round-wood.

Use only saw blades which are suitable for the machine. Do not use cutting discs.

The manufacturer assumes no liability whatsoever for improper use, or if the machine has been tampered with.

Give equal attention to the safety instructions, assembly and operating instructions, as well as all prevailing accident prevention regulations. Even when the equipment is used as prescribed it is still impossible to eliminate certain residual risk factors.

The following hazards may arise in connection with the machine's construction and design:

- Contact with the saw blade in the uncovered saw zone.
- Reaching into the running saw blade (cut injuries).
- Kick-back of workpieces and parts of workpieces.
- Saw blade fracturing.
- Catapulting of faulty carbide tips from the saw blade.
- Damage to hearing if essential ear-muffs are not used.
- Harmful emissions of wood dust when used in closed rooms.

### **4. GENERAL SAFETY INSTRUCTIONS:**

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Keep your work area clean and well lit to prevent accidents.
- Don't use electric devices close to flammable liquids or gases, or in wet or damp environments. If you fail to observe this, there is danger of fire or explosion.
- Never leave the device running unattended.
- Never use the device when you are tired or lack concentration or if your reactions are impaired due to consumption of alcohol or medication. Lack of attention can lead to serious injury.
- Keep the tools clean and in good working order in order to be able to work better and safer.
- Don't wear bulky clothing or jewellery.
- Make sure you can stand stably and have shoes that won't slip.
- Use a head cover if you have long hair. Loose clothing, jewellery, and long hair can become entangled in moving parts.
- Always wear safety goggles.
- Wear a dust mask when working with materials that produce dust.
- Wear ear protection if a lot of noise is produced.
- Persons using the machines must not be distracted. This could cause one to lose control over the tool.
- Don't use any device that has a faulty on/off switch. An electric tool that can no longer be switched on or off is dangerous and must be repaired.
- Always switch the device on before coming into contact with the material.
- Remove keys and adjusting tools before switching on the device.

- Never overload the machine. If the speed drops, unload the machine or switch it off. You will work safer and better with the appropriate electric tool in a specific area of application.
- Stop the workpiece from turning, for example with a clamping device or a vice. Don't work on any workpiece that is too small to clamp in place. If you hold the workpiece with your hand, then you can't operate the tool safely.
- Keep electric tools out of the reach of children.
- Only use accessories recommended by the manufacturer.
- The mains voltage must correspond to the information on the machine's type plate.
- Avoid body contact to grounded elements, e.g. pipes, radiators, stoves, and refrigerators to prevent an electric shock
- Never carry the device by the cable. Only pull the cable from the receptacle with the plug. Protect the cable from oil, heat, and sharp edges. Damaged cables can cause an electric shock.
- Check the device and power cable for damage before starting work.
- When plugging in the tool, make sure that the operating switch is not in the ON position.
- Only use approved extension cables when using the device outside.
- When using a cable drum, unwind it entirely in order to prevent the cable from heating up. The minimum suitable wire gauge is 1.5 mm<sup>2</sup>.
- **When working outside it is recommended that the tool always be supplied via a residual current device with a rated current of 30mA or less.**
- Pull out the plug when you are not using the device, or are making adjustments.
- Always guide the cable away from the back of the tool.
- Ensure that the socket outlet that the tool is connected to is always accessible during use.
- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.

## 5. SPECIFIC SAFETY INSTRUCTIONS FOR TABLE SAWS:

### 1. Safety Precautions:

**Warning!** Do not use damaged, cracked or deformed saw blades. Replace worn table inserts. Only use saw blades recommended by the manufacturer, which conform to EN 847-1.

**Warning!** Ensure, when changing the saw blade, that the cutting width and main body thickness of the replacement blade is not smaller than the thickness of the riving knife!

- Make sure that a suitable saw blade for the material to be cut is selected.
- Wear suitable personal protective equipment. This includes: Hearing protection to avoid the risk of becoming hearing impaired, Respiratory protection to avoid the risk of inhaling harmful dust,
- Wear gloves when handling saw blades and rough materials.
- Carry saw blades in a container whenever practical.
- Wear goggles. Sparks generated during work or splinters, chippings and dust coming from the device can lead to loss of eyesight.
- Connect a dust collecting device to the electric tool when sawing wood. The emission of dust is influenced, among other things, by the type of material to be processed, the significance of local separation (collection or source) and the correct setting of the hood/guide plates/guides.
- Do not use saw blades made of high-speed alloy steel (HSS steel).

- Wear hearing protection. The generation of noise is influenced by various factors, including the characteristics of saw blades, condition of saw blade and electric tool. Use saw blades which were designed for reduced noise development, insofar as possible.
- In times of non-use keep the push stick or the push block with the electrical power tool in its holder at all times.

## 2. Maintenance and Repair:

- Pull out the mains plug for any adjustment or repair tasks.
- Maintain the electric tool and tool attachments regularly and if necessary, initiate repairs in order to reduce noise.
- Report faults on the electric tool, protective devices or the tool attachment to the person responsible for safety as soon as they are discovered.

## 3. Safe Work

- Use the push stick or cross-slide, to pass the workpiece securely through the saw blade.
- Make sure that the riving knife is always used, and set up is correct.
- Use the upper blade guard and set it to the correct position.
- Only use saw blades for which the maximum permissible speed is not lower than the maximum spindle speed of the table saw and which are suitable for the material to be cut.
- Do not cut rebates or grooves without fitting a suitable guard, e.g. a tunnel-type guard, over the saw table.
- Circular saws must not be used for slotting jobs (cutting grooves which end in the workpiece).
- When transporting the electric tool, only use specified carry points. Never use the protective devices for handling or transport.
- Make sure that the upper part of the saw blade is covered during transport, e.g. by the guard.
- Be sure to only use spacers and spindle rings specified by the manufacturer as suitable for the intended purpose.
- The floor around the machine must be level, clean and free of loose particles, such as chips and cutting residues.
- Always stand to the side of the saw blade when working with the saw.
- Do not remove any cutting residues or other parts of workpieces from the cutting zone while the machine is running and the saw unit is not at rest.
- Make sure that the machine is always secured on a workbench or a table if at all possible.
- Support long workpieces (e.g. with a roller table) to prevent them sagging at the end of a cut.
- **Attention!** Never remove loose splinters, chips or jammed pieces of wood while the saw blade is running. Switch off the machine to troubleshoot or remove jammed pieces of wood.
- **Disconnect the main power plug -**  
Refitting, including adjusting and measuring works, and cleaning must be carried out only when the motor is switched off.  
Before switching on again, ensure that keys and adjustment tools have been removed.
- **Warning!** This electric tool generates an electromagnetic field during operation. This field can impair active or passive medical implants under certain conditions. In order to prevent the risk of serious or deadly injuries, we recommend that persons with medical implants consult with their physician and the manufacturer of the medical implant prior to operating the electric tool.

## 4. Safety Instructions for Handling of Saw Blades

- Only use multi-piece blades or cutter heads if you have mastered their use.

- Observe the maximum speed. The maximum speed specified on the multi-piece blade or cutter head may not be exceeded. If specified, observe the speed range.
- Confirm the motor/saw blade direction of rotation.
- Do not use any multi-piece blades or cutter heads with cracks. Discard them. Repairs are not permitted.
- Clean grease, oil and water off the clamping surfaces.
- Do not use any loose reducing rings or bushes for the reducing of holes on saw blades.
- Make sure that fixed reducer rings for securing multi-piece blades or cutter heads have the same diameter and have at least 1/3 of the cutting diameter.
- Make sure that fixed reducer rings are parallel to each other.
- Handle multi-piece blades or cutter heads with caution. They are ideally stored in the original package or special containers. Wear protective gloves in order to improve grip and to further reduce the risk of injury.
- Prior to the use of multi-piece blades or cutter heads, make sure that all protective devices are properly fastened.
- Prior to use, make sure that the multi-piece blade or cutter head meets the technical requirements of this electric tool and is properly fastened.
- Only use the supplied saw blade for sawing operations in wood, materials similar to wood, plastics and non-ferrous metals (This tool is NOT suitable for magnesium and alloys containing magnesium).

## 6. BEFORE STARTING:

- Assemble the machine in a stable position, in other words on a workbench, a sub-frame or the like. Secure it if you wish to use the machine on a stationary basis.
- Before starting the machine, check that all covers and safety equipment are correctly fitted.
- The saw blade must be able to run freely.
- Check all the moving parts to ensure that they move easily.
- Before you connect the machine, check the information on the rating plate against the mains data.

**Warning! Always pull the power plug before making adjustments to the equipment.**

## 7. ASSEMBLY:

**Warning! Always pull the power plug before making adjustments to the equipment.**

### 7.1 Assembling the Base Frame - Fig.15,16,17

Turn the saw body upside down and place it on the floor.

Use the Washers (c) and the Hex Screws (a) to fasten the four Legs (29) loosely to the saw body.

Now use the Hex Screws (a), the Washers (c) and the Nuts (d) to fasten the Side Rails (31) and the Cross Rails (30) loosely to the legs (29).

*Please note: The Side Rails are longer than the Cross Rails.*

Finally, tighten all screws and nuts on the base frame.

Screw the Leg Braces (A) to the rear legs (29) so that they point towards the rear of the machine - Fig. 17.

Plug the Rubber Feet (13) onto the Legs (29).

## 7.2 Fitting & removing the Saw Blade Guard – Fig 3

Mount the Saw Blade Guard (2) on the Riving Knife (5) so that the screw fits through the hole (18) in the Riving Knife.

Do not tighten the screw (15) too far – the Saw Blade Guard must be able to move freely.

To remove the Saw Blade Guard, proceed in reverse order.

**Warning!** *The Guard (2) must always be lowered over the workpiece before you begin to cut.*

## 7.3. Setting the splitter - Fig. 3,5,6 & 7

**Danger!** Pull out the power plug before making adjustments to the equipment.

- Set the Saw Blade (4) to maximum cutting depth, move to 0° position and lock in place.
- Remove the Saw Blade Guard - see 6.2.
- Take out the Table Insert (6) - see 6.4.
- Slacken the Fastening Bolt (19).

### 7.3.1. Setting for maximum cuts - Fig. 5,6 & 7

- Push up the splitter (5) until the gap between the saw table (1) and the upper edge of the splitter (5) equals approx. 10 cm.
- The distance between the blade (4) and the splitter (5) should be 3-5 mm.
- Retighten the screw (19) and mount the table insert (6) (Fig. 6).

## 7.4 Changing the table insert - Fig. 6

- To prevent increased likelihood of injury the table insert should be changed whenever it is worn or damaged.
- Remove the saw blade guard (2).
- Remove the 2 countersunk head screws (17).
- Take out the worn table insert (6).
- To fit the replacement table insert, proceed in reverse order.

## 7.5 Fitting & replacing the Saw Blade - Fig. 4

**Important!** Pull out the power plug first.

- Remove the Table Insert by undoing the two Countersunk Screws - see 6.4.
- Undo the nut with a 24mm wrench on the nut itself and a second 10mm wrench on the motor shaft to apply counter-pressure.
- Important! Turn the nut in the direction of rotation of the Saw Blade.
- Take off the outer flange and pull the old Saw Blade off the inner flange by dropping the blade at an angle.
- Clean the blade flange thoroughly before fitting the new Saw Blade.
- Mount and fasten the new Saw Blade in reverse order.
- Important! Note the running direction. The cutting angle of the teeth must point in the running direction, i.e. forwards (see the arrow on the Saw Blade Guard).
- Refit and set the Riving Knife (5) and the Saw Blade Guard (2) - see 6.2, 6.3.
- Check to make sure that all safety devices are properly mounted and in good working condition before you begin working with the saw again.

## 7.6 Assembling the Table Width Extensions - Fig. 18

- Use the Screws (a), Nuts (d) and Washers (c) to fasten the Table Width Extensions (33) loosely to the Saw Table (1).
- Screw the Side Table Braces (32) loosely onto the Base Frame (10) and onto the Table Width Extensions (33).

- Align the Table Width Extensions (33) level with the Saw Table.
- Finally, tighten all Screws (a).

Connect the supplied dust collection hose to the top of the Saw Guard and to the side branch of the Tee fitting at the lower rear of the saw body.

## **8. USING THE SAW**

### **8.1 ON/OFF switch - Fig. 1**

To turn the saw on, press the green button “I”. Wait for the blade to reach its maximum speed of rotation before beginning the cut.

To turn the machine off again, press the red button “O”.

### **8.2 Cutting depth - Fig. 1**

Turn the Hand Crank (8) to set the blade (4) to the required cutting depth.

**Turn anti-clockwise:** larger cutting depth      **Turn clockwise:** smaller cutting depth

### **8.3 Rip Fence**

#### **8.3.1 Fence Height - Fig. 9 & 13**

- The Rip Fence (7) supplied with the saw has two different guide faces.
- For thick material you must use the Fence Rail (23) as shown in Fig. 11; for thin material you must use the Fence Rail as shown in Fig.10.
- To change over the Fence Rail (23) to the Fence Bracket (24), you have to slacken the two Screws and Nuts (26) in order to disconnect the Fence Rail (23) from the Fence Bracket (24).
- Remove the two knurled Screws (26) from one slot (27) in the Fence Rail (23) and insert in the other slot (25).
- Remount the Fence Rail (23) on the Fence Bracket (24).
- The procedure for changing over to the high Fence Rail is similar.

#### **8.3.2 Cutting Width:**

The Rip Fence (7) has to be used when making longitudinal cuts in wooden workpieces.

- The Rip Fence can be mounted on either side of the saw table (1).
- The Rip Fence (7) has to be mounted in the Guide Rail (28) of the Saw Table (1).
- The Rip Fence (7) can be set to the required dimension with the help of the Scale (22) on the Guide Rail (1). *Note – check settings with a ruler before cutting.*
- You can clamp the Rip Fence in the required position by pressing the Rip Fence Clamp (12).

#### **8.3.3 Setting the Fence Rail position - Fig. 9**

- The Fence Rail (23) can be moved in backwards and forwards in order to prevent the workpiece from becoming jammed.
- Rule of Thumb: The rear end of the Fence Rail comes up against an imaginary line that begins roughly at the center of the blade and runs at an angle of 45° to the rear.
- Set the required cutting width. Slacken the knurled Screws (26) and pull the Fence Rail (23) forward until the rear touches that imaginary 45° line. Retighten the knurled Screws (26).

#### **Important!**

Do not push the Fence Rail (23) too far toward the Saw Blade. The distance between the Fence Rail (23) and the Saw Blade (4) should be approx. 2 cm.

### **8.4 Cross Slide – Fig. 8**

- Slide the Cross Slide (14) into the Table Groove (21).
- Slacken the Pivot Clamp/Handle (20).

- Turn the Cross Slide (14) until the arrow points to the angle required.
- Retighten the Pivot Clamp/Handle (20).

### **8.5 Setting the Saw Blade angle - Fig. 14**

Undo the Adjusting and Locking Nut (9).

Turn the Hand Wheel to set the desired angle on the scale.

Lock the Adjusting and Locking Nut again in the required angle position.

## **9. OPERATION**

### **Warning!**

After every new adjustment we recommend you to make a trial cut in order to check the new settings.

- After switching on the saw, wait for the blade to reach its maximum speed of rotation before commencing with the cut.
- Take extra care when starting the cut!
- Never use the equipment without the suction function.
- Regularly check and clean the dust extraction ducts.
- A Vacuum Cleaner hose can be connected to the dust extraction Tee at the rear of the saw for safe collection of dust produced in cutting.

### **9.1.1 Making longitudinal cuts – Fig. 19**

Longitudinal cutting (also known as ripping) is when you use the saw to cut along the grain of the wood. Press one edge of the workpiece against the Rip Fence (7) while the flat side lies on the Saw Table (1). The Blade Guard (2) must always be lowered over the workpiece. When you make a longitudinal cut, never adopt a working position that is in line with the cutting direction.

- Set the Rip Fence (7) in accordance with the workpiece height and the desired width. (See 8.3.)
- Switch on the saw.
- Place your hands (with fingers closed) flat on the workpiece and push the workpiece along the Rip Fence (7) and into the Saw Blade (4).
- Guide at the side with your left or right hand (depending on the position of the Rip Fence) only as far as the front edge of the Blade Guard.
- Always push the workpiece through to the end of the Riving Knife (5).
- Do not remove the offcut until the Saw Blade (4) has completely stopped.
- Secure long workpieces against falling off at the end of the cut with a roller stand or similar.

### **9.1.2 Cutting narrow workpieces - Fig. 20**

- Be sure to use the Push Stick (3) when making longitudinal cuts in workpieces smaller than 120mm in width. A push stick is supplied with the saw! Replace a worn or damaged push stick immediately.
- Be sure to use a push block when making longitudinal cuts in very narrow workpieces with a width of 30 mm and less. The low guide face of the parallel stop is best used in this case. There is no push block supplied with the saw! Replace the push block without delay when it becomes worn.

### 9.1.3 Making bevel cuts - Fig. 14 & 22

Bevel cuts must always be used using the Rip Fence (7).

- Set the Saw Blade (4) to the desired angle. (See 8.5.)
- Set the Rip Fence (7) according to the workpiece width and height (see 8.3.1)
- Carry out the cut according to the work-piece width (see 8.1.1, 8.1.2 and 8.1.3.)

### 9.1.4 Making cross cuts - Fig. 23

- Slide the Cross Slide (21) into one of the Table Grooves (21) and adjust to the required angle. (See 8.4.) If you also want to tilt the Saw Blade (4), use the Table Groove (21) which prevents your hand and the Cross Slide from making contact with the Blade Guard.
- Hold the workpiece firmly against the Cross Slide (14).
- Switch on the saw.
- Push the Cross Slide (14) and the workpiece toward the Saw Blade in order to make the cut.

**Warning!** Always hold the guided part of the workpiece. Never hold the part which is to be cut off.

- Push the Cross Slide (14) forward until the workpiece is cut all the way through.
- Switch off the saw again. Do not remove the offcut until the blade has stopped rotating.

## 10. REPLACING THE POWER CABLE

### **Danger!**

If the power cable for this equipment is damaged, it must be replaced by the manufacturer or its after-sales service or similarly trained personnel to avoid danger.

## 11. CLEANING, MAINTENANCE AND ORDERING OF SPARE PARTS

**Danger!** Always pull out the mains power plug before starting any cleaning work.

### 11.1 Cleaning

Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible. Wipe the equipment with a clean cloth or blow it with compressed air at low pressure. We recommend that you clean the tool immediately each time you have finished using it.

Clean the equipment regularly with a moist cloth and some soft soap. Do not use cleaning agents or solvents; these could attack the plastic parts of the equipment. Ensure that no water can seep into the device. The ingress of water into an electric tool increases the risk of an electric shock.

### 11.2 Carbon brushes

In case of excessive sparking, have the carbon brushes checked only by a qualified electrician.

**Danger!** The carbon brushes should not be replaced by anyone but a qualified electrician.

### 11.3 Maintenance

There are no parts inside the equipment which require additional maintenance.

## 12. TECHNICAL DATA

This machine is double insulated.

Voltage	230-240V, 50Hz
Rating:	1800W
No Load Speed:	3000rpm
Saw blade:	250mm x 30 x 3.2 mm, 48T
Angle or mitre bench: -	-45°/0°/+45°
0°x0°:	310mm x 70mm cutting size
0°x45°:	310mm x 42mm “ “
45x0°:	205mm x 70mm “ “
45x 45°:	205mm x 42mm “ “

## 13. STORAGE

Store the equipment and accessories in a cool, dry place. Store the electric tool in its original packaging where possible.

## 14. DISPOSAL



The equipment is supplied in packaging to prevent it from being damaged in transit.

The raw materials in this packaging can be reused or recycled. The equipment and its accessories are made of various types of material, such as metal and plastic. Never place defective equipment in your household refuse. The equipment should be taken to a suitable collection center for proper disposal. If you do not know the whereabouts of such a collection point, you should ask in your local council offices.