

Bäumr-AG



Bandsaw - BS30 Series II

User Manual

[Revision 1.0 May 2019]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You **WILL** be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You **CAN** be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You **CAN** be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well lit.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol or medication.
- This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines **OUTSIDE** only, and far away from windows, doors and vents.

General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Wherever possible, use a residual current device (RCD).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service-related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

Carefully read through this entire operator's manual before using your new band saw. Take special care to heed the cautions and warnings.

Application Conditions

This band saw is designed for operating under ambient temperatures between +5°C and 40°C and for installation at altitudes no more than 1000m above M.S.L. The surrounding humidity should less than 50% at 40°C. It can be stored or transported under ambient temperatures between -25°C and 55°C.

Environmental

Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling centre and disposed of in an environmentally safe way.

Understand your Machine

- Read this manual and labels affixed to the machine to understand its limitations and potential hazards.
- Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.
- Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and how to avoid accidental injuries and/or property damage.
- If the unit is to be used by someone other than original purchaser or loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, other people, and property.
- Do not force the machine. Use the correct machine for your application. The correct machine will do the job more efficiently and safer at the rate it was designed.

Personal Safety

- Warning! The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury.
- Do not permit children to operate this machine at any time.
- Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off unit if anyone enters work area. Keep children under the watchful care of a responsible adult.
- Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.
- Dress properly. Wear heavy long pants, boots, and gloves. Do not wear loose clothing, short pants, or jewellery of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewellery, or long hair can be caught in moving parts.
- Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.
- Wear appropriate hearing protection. Wear respiratory protection to avoid the risk of inhaling harmful dust.
- Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.
- Always keep hands and feet away from all pinch points.
- Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.
- Stay alert, watch what you are doing, and use common sense when operating the machine.
- Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

Inspect your Machine

- Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.
- Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Keep the machine in safe working condition. Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury. Avoid accidental starting. Be sure the motor switch is off before transporting the machine or performing any maintenance or service on the unit.
- Transporting or performing maintenance or service on a machine with its switch on invites accidents. If the machine should start to vibrate abnormally, stop the motor and check immediately for the cause. Vibration is generally a warning sign of trouble.

Electric Safety

- Avoid use of free and inadequately insulated connections. Connections must be made with protected material suitable for outdoor use.
- Protect yourself from electric shock. Do not plug or unplug the motor while standing in or around damp or wet ground. Do not use the unit in wet or damp areas or expose it to rain. Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures. Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the unit.
- Avoid inadvertent starting. Make sure that the switch is switched off when plugging the plug into an outlet.
- Only use approved and appropriately identified extension cables for use outdoors. Only use cable reels in the unrolled state.
- Do not use the cable for purposes for which it is not intended. Do not use the cable to pull the plug out of the outlet. Protect the cable from heat, oil and sharp edges.
- Never yank the cord to disconnect it from the socket.
- Have your electric tool repaired by a qualified electrician. This electric tool conforms to the applicable safety regulations. Repairs may only be performed by an electrician using original spare parts. Otherwise accidents can occur.

Work Area & Store Area

- Keep the work area orderly. Disorder in the work area can lead to accidents.
- Take environmental influences into account. Do not expose electric tools to rain. Do not use electric tools in a damp or wet environment. Make sure that the work area is well-illuminated. Do not use electric tools where there is a risk of fire or explosion.
- Securely store unused electric tools. Unused electric tools should be stored in a dry, elevated or closed location out of the reach of children.
- Insure sufficient lighting in the work area and the area around the machine.

Intended Use

The band saw is designed to perform longitudinal and cross cuts on timber or wood-type materials. To cut round materials you must use suitable holding devices. The equipment is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this. The machine is to be operated only with suitable saw blades. To use the machine properly you must also observe the safety regulations, the assembly instructions and the operating instructions to be found in this manual. All persons who use and service the machine have to be acquainted with this manual and must be informed about the machine's potential hazards. It is also imperative to observe the accident prevention regulations in force in your area. The same applies for the general rules of occupational health and safety.

Machine Use and Care

The manufacturer shall not be liable for any changes made to the machine nor for any damage resulting from such changes. Even when the machine 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:

- Damage to hearing if ear-muffs are not used as necessary.
- Harmful emissions of wood dust when used in closed rooms.
- Contact with the blade in the uncovered cutting zone.
- Injuries (cuts) when changing the blade.
- Injury from catapulted workpieces or parts of work-pieces.
- Crushed fingers.
- Kickback.
- Tilting of the workpiece due to inadequate support.
- Touching the blade.
- Catapulting of pieces of timber and workpieces.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

Risk of kickback (workpiece is caught by the band saw blade and thrown against the operator). Do not jam workpieces. Cut thin or thin-walled workpieces only with fine toothed saw blades. Always use sharp band saw blades. If in doubt, check workpiece for inclusion of foreign matter (e.g. nails or screws). Cut only stock of dimensions that allow for safe and secure holding while cutting. Never cut several workpieces at the same time, and also no bundles containing several individual pieces. Risk of personal injury if individual pieces are caught by the band saw blade uncontrolled. When cutting round stock, use a suitable jig to prevent the workpiece from turning.

Maintain Tools with Care

- Keep cutting tools sharp and clean for better and safer performance.
- Follow instruction for lubricating and changing accessory.
- Inspect tool cords periodically and if damaged have them repaired by an authorized service facility.
- Inspect extension cords periodically and replace if damaged.

- Keep handles dry, clean and free from oil and grease.

Maintenance and Repair

- Pull out the mains plug for any adjustment or repair tasks.
- 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. 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.
- Check the electric tool for potential damage. Protective devices and other parts must be care-fully inspected to ensure that they are fault-free and function as intended prior to continued use of the electric tool. Check whether the moving parts function faultlessly and do not jam or whether parts are dam-aged. All parts must be correctly mounted, and all conditions must be fulfilled to ensure fault free operation of the electric tool. The moving protective hood may not be fixed in the open position. Damaged protective devices and parts must be properly repaired or replaced by a recognized workshop, insofar as nothing different is specified in the operating manual. Damaged switches must be replaced at a customer service workshop. Do not use any faulty or damaged connection cables. Do not use any electric tool on which the switch cannot be switched on and off.

Additional Safety Instructions

- Wear safety gloves whenever you carry out any maintenance work on the blade!
- When cutting round or irregularly shaped wood, use a device to stop the workpiece from twisting.
- When cutting boards in upright position, use a device to prevent kick-back.
- A dust extraction system designed for an air velocity of 20 m/s should be connected in order to comply with woodworking dust emission values and to ensure reliable operation.
- Give these safety regulations to all persons who work on the machine.
- Do not use this saw to cut fire wood.
- The machine is equipped with a safety switch to prevent it being switched on again accidentally after a power failure.
- Before you use the machine for the first time, check that the voltage marked on the rating plate is the same as your mains voltage.
- If you use a cable reel, the complete cable has to be pulled off the reel.
- Persons working on the machine should not be distracted.
- Note the direction of rotation of the motor and blade.
- Never dismantle the machine's safety devices or put them out of operation.
- Never cut workpieces which are too small to hold securely in your hand.
- Never remove loose splinters, chips or jammed pieces of wood when the saw blade is running.
- It is imperative to observe the accident prevention regulations in force in your area as well as all other generally recognized rules of safety.
- Note the information published by your professional associations.
- Adjustable protective devices have to be adjusted as close as possible to the workpiece.
- Important! Support long workpieces (e.g. with a roller table) to prevent them sagging at the end of a cut.
- Make sure the blade guard (3) is in its lower position when the saw is being transported.
- Safety guards are not to be used to move or misuse the machine.
- Blades that are misshapen or damaged in any way must not be used.
- If the table insert is worn, replace it.
- Never operate the machine if either the door protecting the blade, or the detachable safety device are open.
- Ensure that the choice of blade and the selected speed are suitable for the material to be cut.
- Do not begin cleaning the blade until it has come to a complete standstill.
- For straight cuts of small workpieces against the longitudinal limit stop the push stick has to be used.
- The band saw blade guard should be in its lowest position close to the bench during transport.
- For mitre cuts when the table is tilted, the parallel stop must be positioned on the lower part of the table.
- When cutting round timber, use a suitable holding device to prevent the workpiece turning.
- Never use guards to lift or transport items.
- Ensure that the band saw blade guards are used and correctly adjusted.
- Keep your hands a safety distance away from the band saw blade. Use a push stick for narrow cuts.
- The push stick has to be stored on the intended device, so that it can be reached from normal working position and is always ready to be used.
- In the normal operating position, the operator is in front of the machine.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

 <p>Flammable Material Hazard Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.</p>	 <p>Read User Manual Read and fully understand product safety warnings, operation, procedures etc before using the product.</p>	 <p>Use Hand Protection Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.</p>	 <p>WARNING EXHAUST FUMES Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>
 <p>Electrocution / Electrical Shock Hazard High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.</p>	 <p>Toxic Fumes / Dust Hazard Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.</p>	 <p>Explosive Material Hazard Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.</p>	 <p>Cutting / Amputation Hazard The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.</p>
 <p>Crush Hazard The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Single Operator Only The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.</p>	 <p>Use Face Protection Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.</p>	 <p>Use Foot Protection Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.</p>
 <p>Use Eye / Ear / Head Protection Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.</p>	 <p>Running Hazard Do not run on or near the product as doing so may present a fall hazard.</p>	 <p>Diving Hazard Do not dive into the product as doing so may present a neck / head injury hazard.</p>	 <p>Adult Supervision Required Always supervise children and other users of a product to prevent drowning or injury.</p>
 <p>Skin Penetration / Puncture Hazard The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.</p>	 <p>Hot Surface Hazard Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.</p>	 <p>Flying Debris Hazard Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.</p>	 <p>Moving Parts Hazard Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.</p>

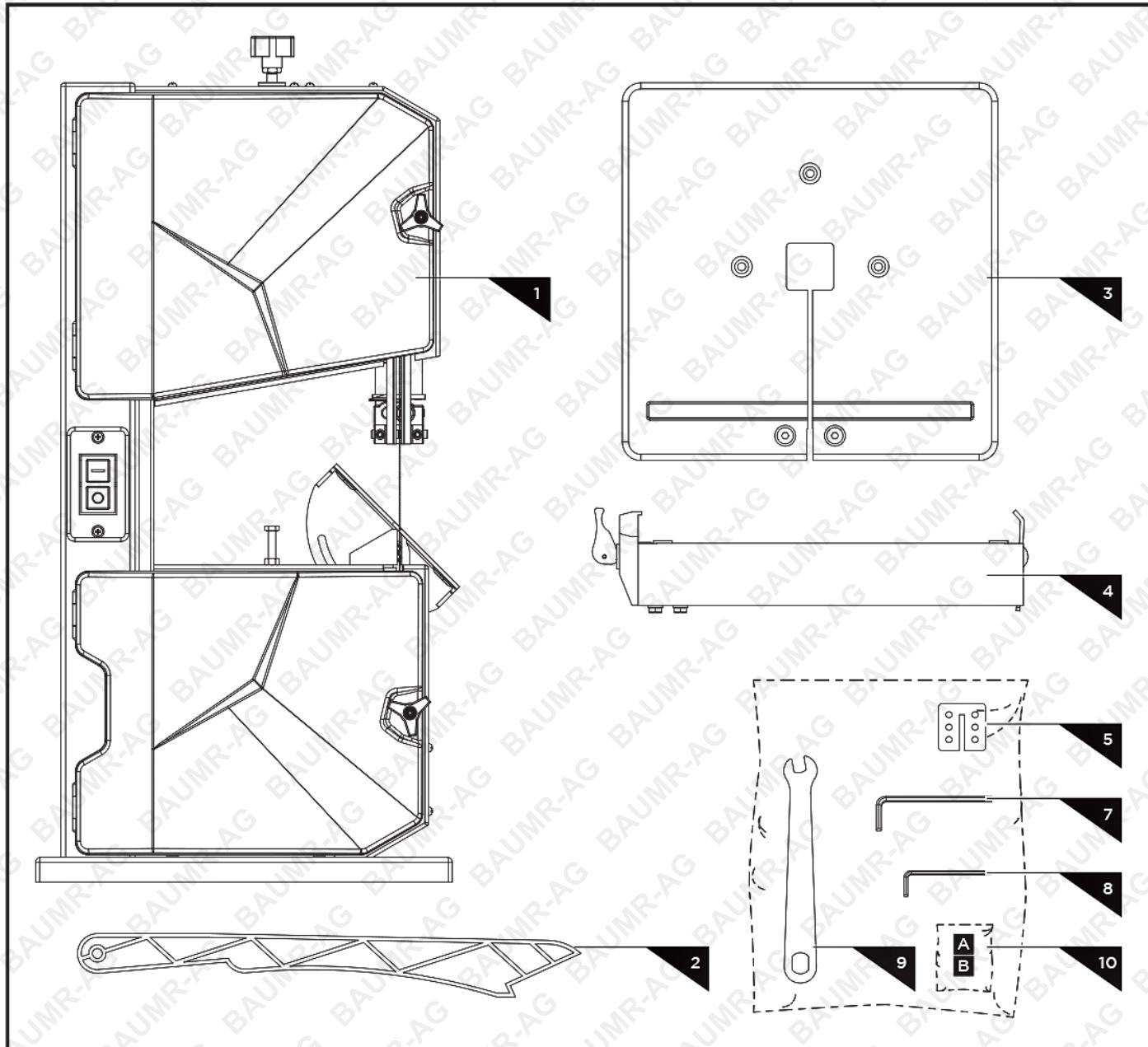
 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>	 <p>Pull Hazard Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Slope / Fall Injury Hazard Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.</p>	 <p>"Slam Dunk" Warning Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.</p>
 <p>Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.</p>	 <p>Electrocution / Electrical Shock Hazard - Disconnect High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.</p>	 <p>Power Line Electrocution Hazard High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.</p>	 <p>"Kick-Back" Hazard High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.</p>
 <p>Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.</p>	 <p>Winch Lift Hazard Do NOT LIFT load vertically. Use machine to PULL only.</p>	 <p>Cable Hazard Ensure that load bearing cable is not kinked or knotted.</p>	 <p>Winch Cable Hazard Ensure that there is a minimum number of cable coils on winching mechanism.</p>
 <p>Winch Hook Hazard Carry hook to load – do NOT throw or run.</p>	 <p>Flash / Blinding Hazard Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.</p>	 <p>Laser Hazard Laser may be in use – do NOT look directly at laser or allow others to.</p>	

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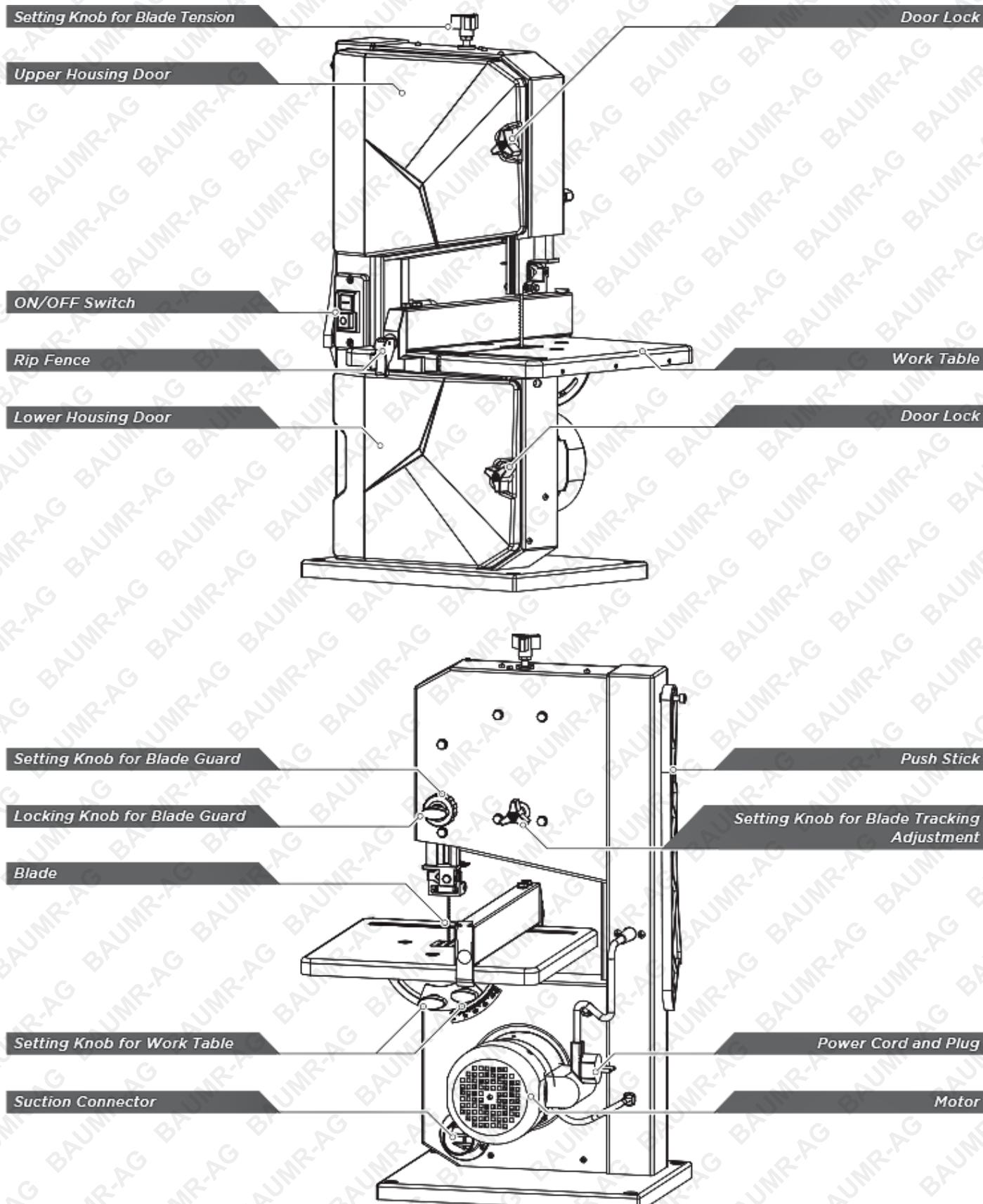
Parts Identification

The band saw comes partially assembled and is shipped in carefully packed carton. After all the parts have been removed from the carton, you should have:



No.	Name
1	Main machine
2	Push stick
3	Work table
4	Rip fence
5	Table insert
7	Allen key, 4mm
8	Allen key, 3mm
9	Blade key
10	Hardware bag

Know Your Machine



Assembly

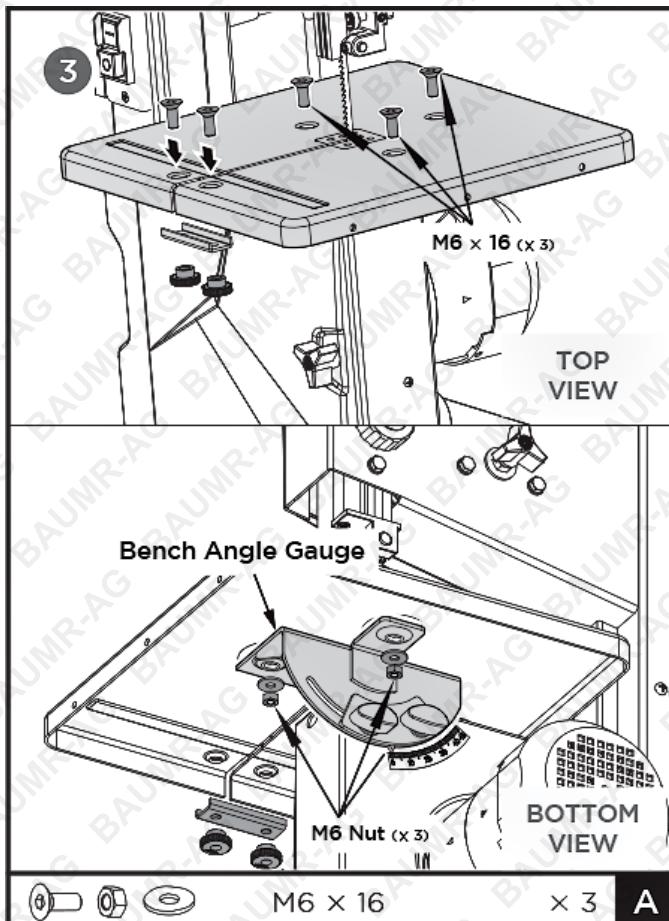
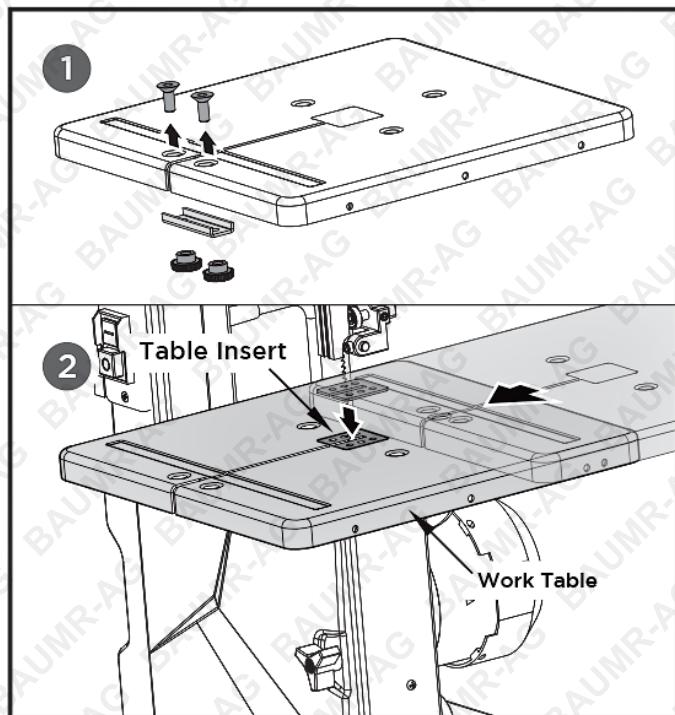
This band saw was partially assembled at the factory. To assemble your machine, follow the below instructions.

Work Table

1. Remove the two screws, two knurled nuts and U shape block from the work table.
2. Guide work table over the blade and place it on the table trunnion. Position the table insert on the work table properly.
3. Attach the work table with three each screws M6×16 to the table trunnion.
4. Fasten the work table with three nuts M6 and three flat washers.
5. Attach two screws and two knurled nuts with U shape block that were removed in step one and fasten.

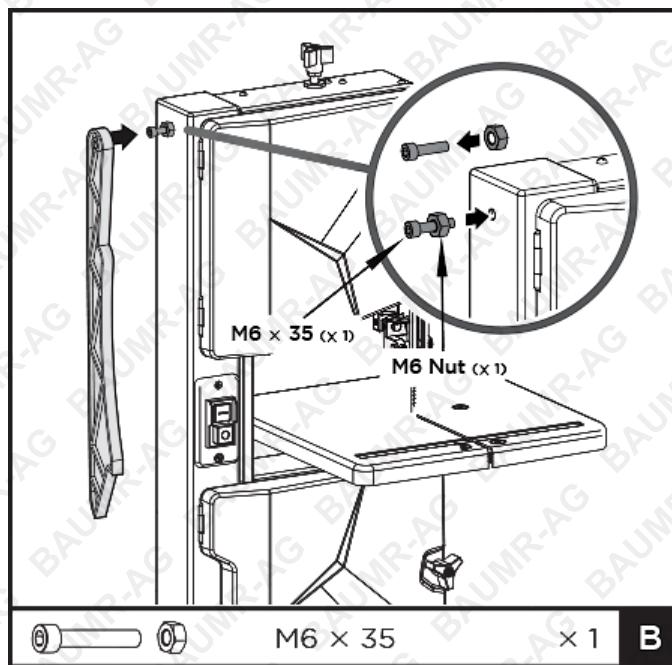


Before fastening the work table, make sure table be aligned in two planes. Laterally, in order for the blade to run dead centre through the table insert. At right angles to the blade.



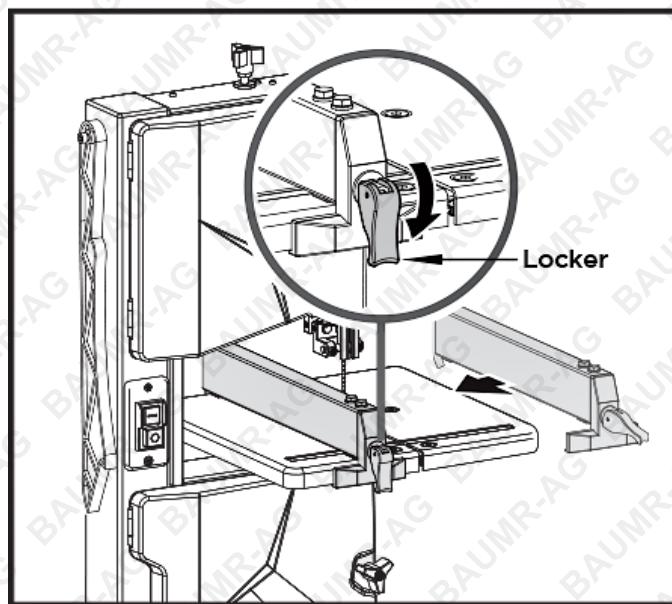
Push Stick

1. Fix the screw and nuts on the machine, leaving room for push stick.
2. Hang the push stick on the screw.



Rip Fence

Clamp the rip fence. It can be used on both sides of blade.

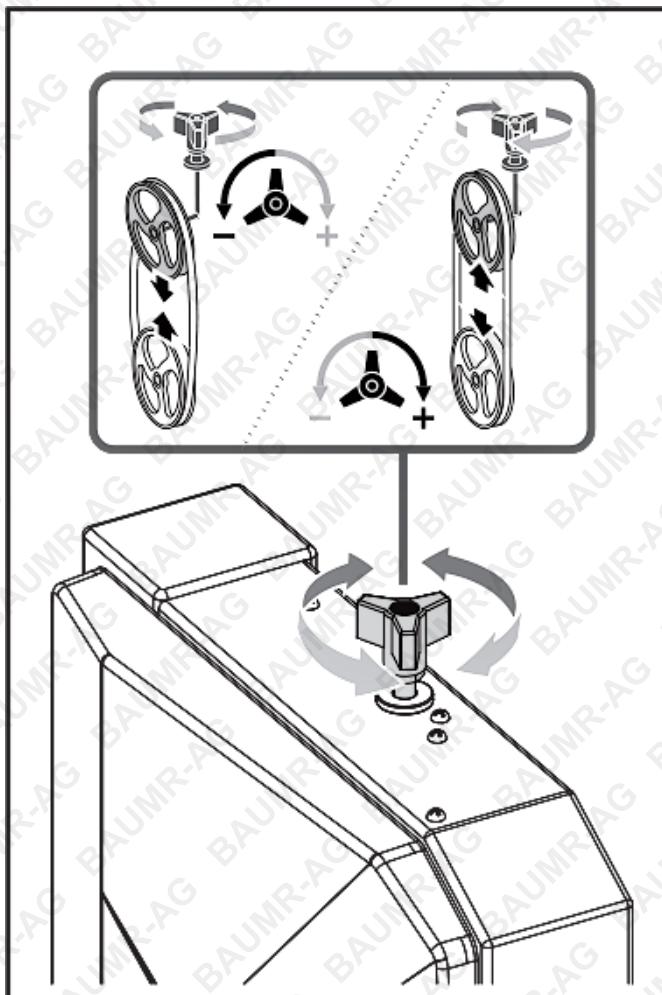


Set-Up

Adjusting the Blade Tension

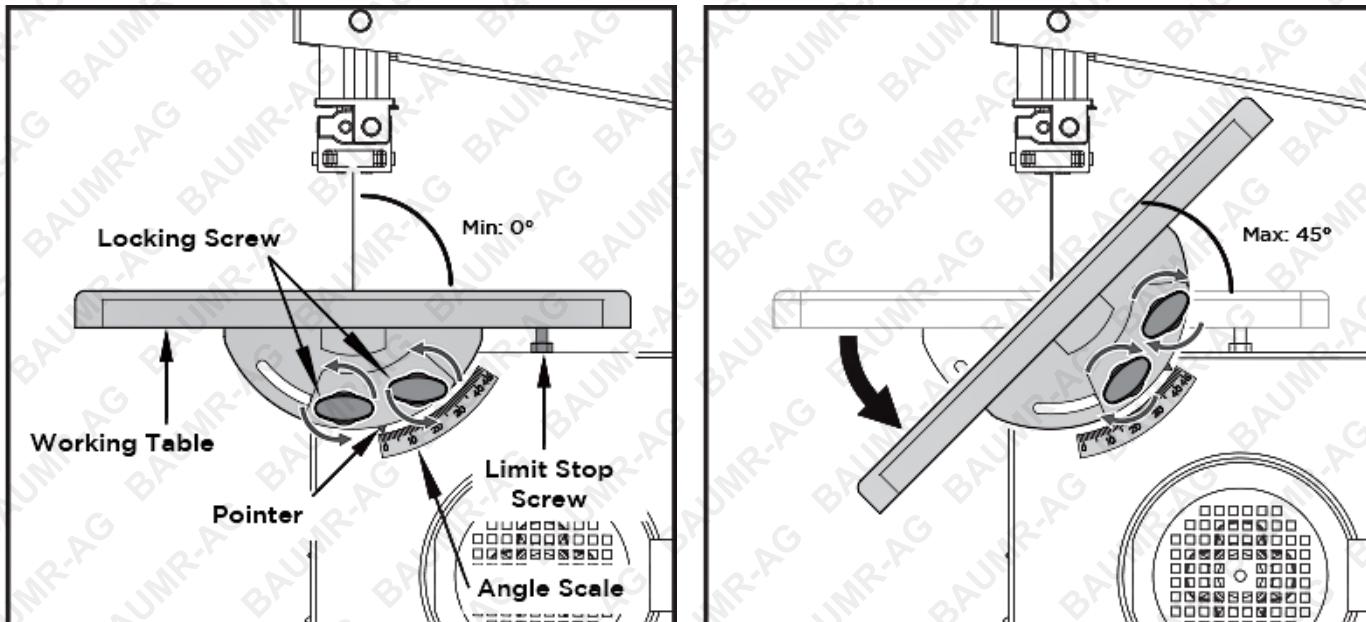
This tracking adjustment is required to have the blade run dead centre on the rubber tyres of the band saw wheels:

- Turning the setting knob clockwise increases the blade tension.
- Turning the setting knob counter- clockwise reduces the blade tension.



Adjusting the Work Table Tilting

After loosening both locking screws, the work table tilts through 45° to the blade.



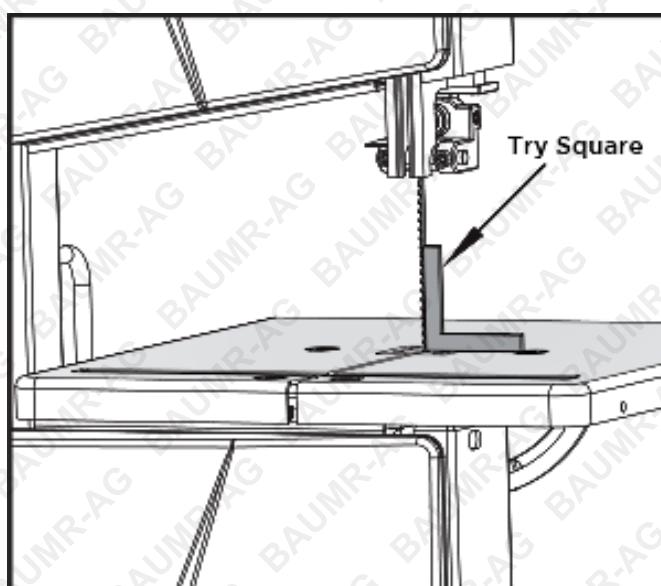
Work Table Alignment

Saw Table Lateral Alignment

1. Loosen the three fastening screws that hold the lower table trunnion.
2. Align working table so that the blade runs through the centre of the table insert's slot.
3. Tighten the three fastening screws again.

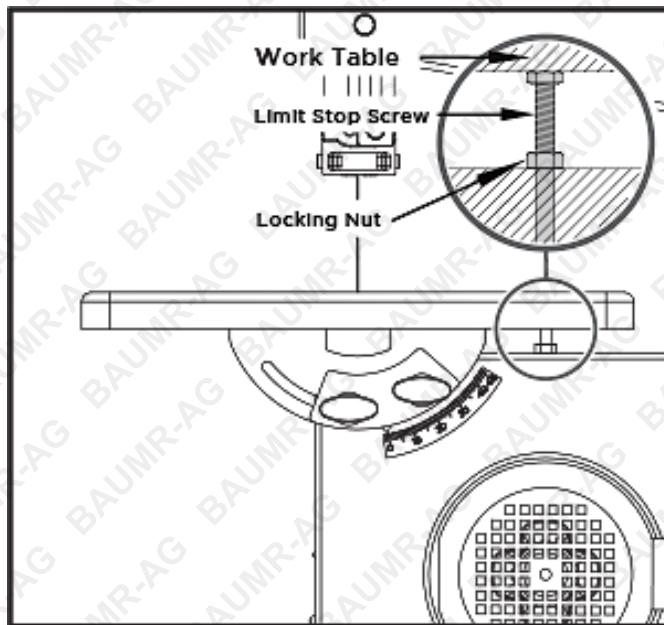
Aligning the Work Table at Right Angles to the Blade

1. Raise upper blade guide fully. Check band saw blade tension.



2. Loosen locking screws.
3. Using a try square, set the table at right angles to the blade and tighten the locking screws again.

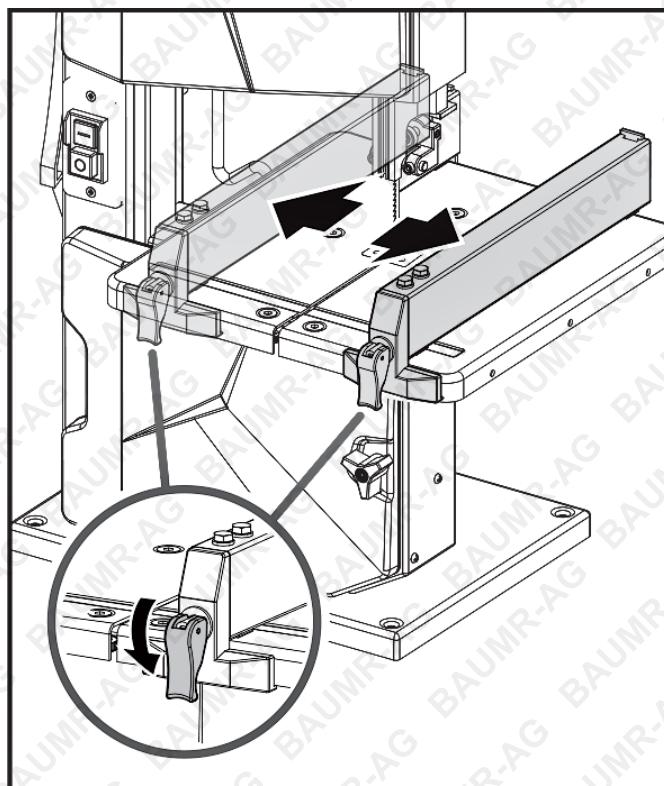
4. Loosen locking nut and adjust limit stop screw until it touches the working table.



5. Tighten locking nut.

Setting Up the Rip Fence

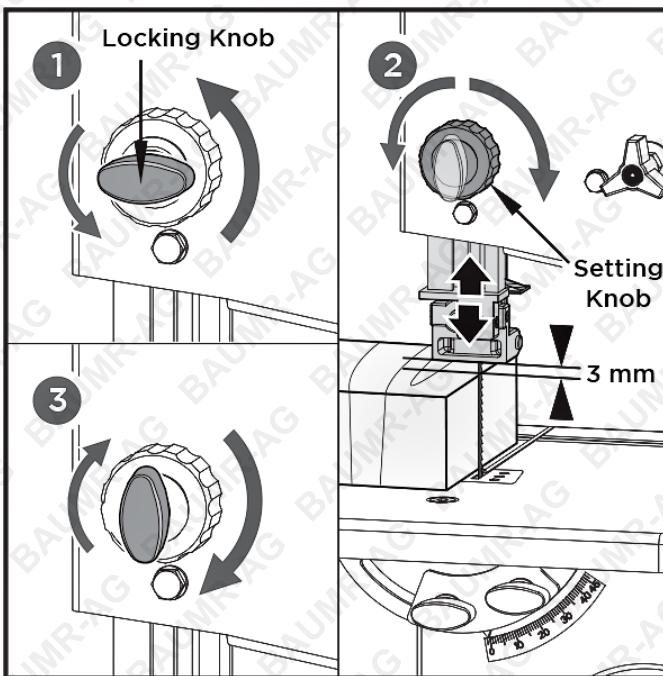
The rip fence is clamped to the front. It can be used on both sides of the blade.



Adjusting the Blade Guard

The blade guard protects against unintentional contact with the saw blade and from chips flying about. For the upper blade guard to provide adequate protection against contact with the band saw blade, it must always be set as close as possible against the workpiece (max. distance 3 mm).

1. Loosen the locking knob.
2. Rotate the setting knob to adjust the blade guard in the right position, then fasten the locking knob.



Operation

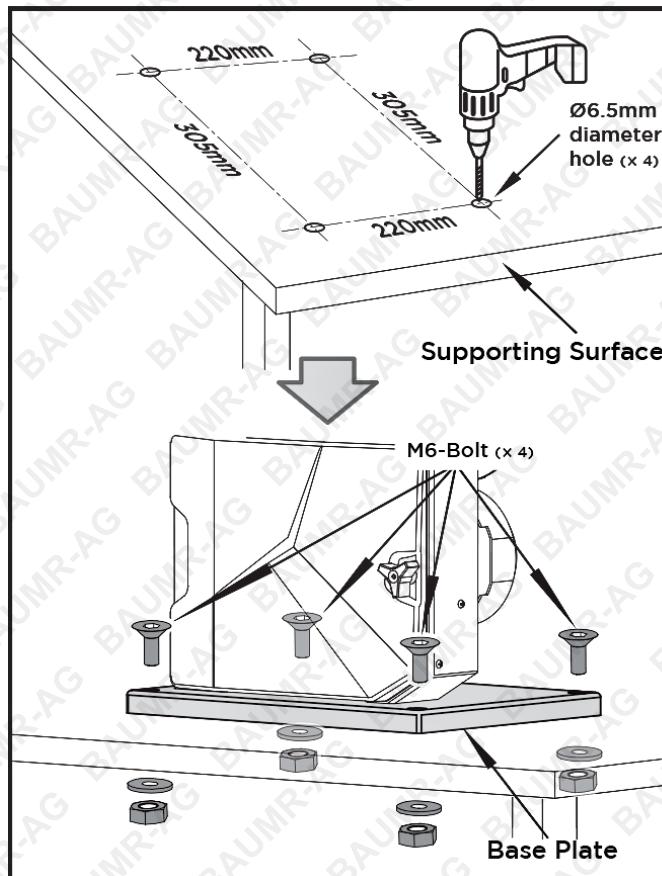


Start the saw only after the following preparations are completed: • The saw is fastened; • The saw table is installed and aligned; • Safety devices have been checked.

Connect the saw to the mains supply only after all of the above preparations are completed! Otherwise there is a risk of an unintentional starting of the saw, which can cause severe personal injury.

Mounting the Saw

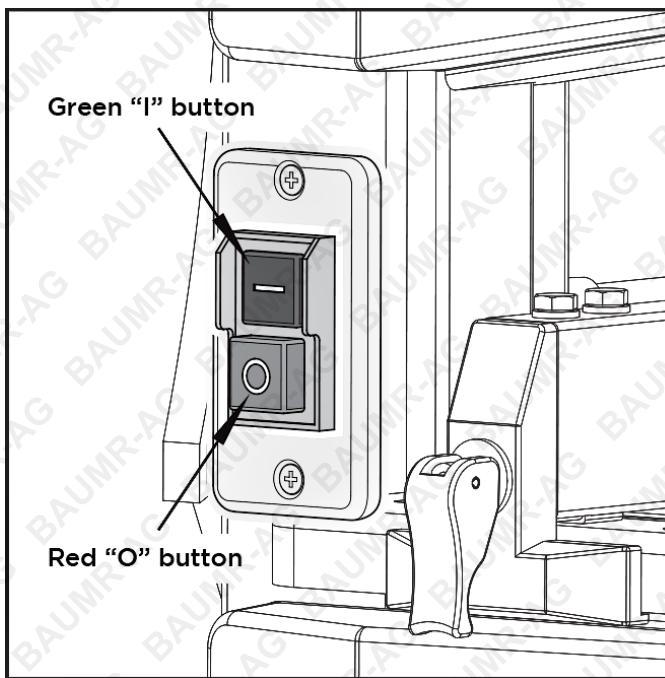
1. Drill 4 holes in the supporting surface.
2. Put fixing bolts through the base plate and secure with nuts.



ON/OFF Switch

The saw can be switched ON by pressing the green pushbutton.

The red pushbutton must be pressed to switch OFF the machine.



Sawing

1. If necessary, adjust the table tilt.
2. Select rip fence and table tilt for the type of cutting operation to be carried out.



Danger by jamming workpiece! When using the rip fence with a tilted saw table, the rip fence must be installed on the lower side of the working table.

3. Set upper blade guide 3 mm above the workpiece.



Always make a trial cut in a piece of scrap to verify settings; correct if necessary, before cutting the workpiece.

4. Place workpiece on the working table.
5. Plug in.
6. Start saw.
7. Cut workpiece in a single pass.
8. Switch OFF if no further cutting is to be done immediately afterwards.



Machine has suction connector, user can connect the machine to a proper suction unit when working.

Maintenance



Warning! Prior to any adjustment, maintenance or service work disconnect the mains power plug!

General Maintenance Measures

- 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 device immediately each time you have finished using it.
- Clean the equipment regularly with a damp 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.
- In order to extend the service life of the tool, oil the rotary parts once monthly. Do not oil the motor.

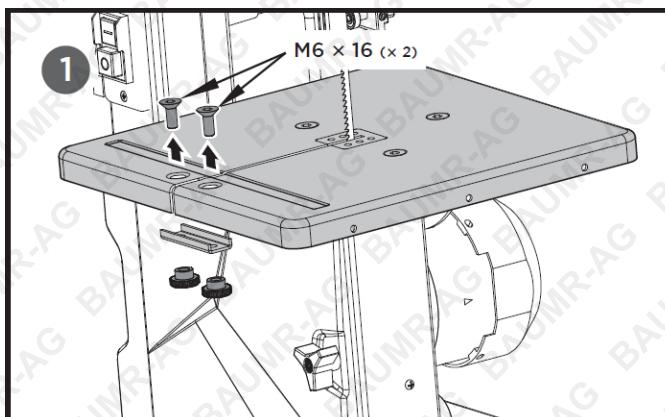
Saw Blade Change



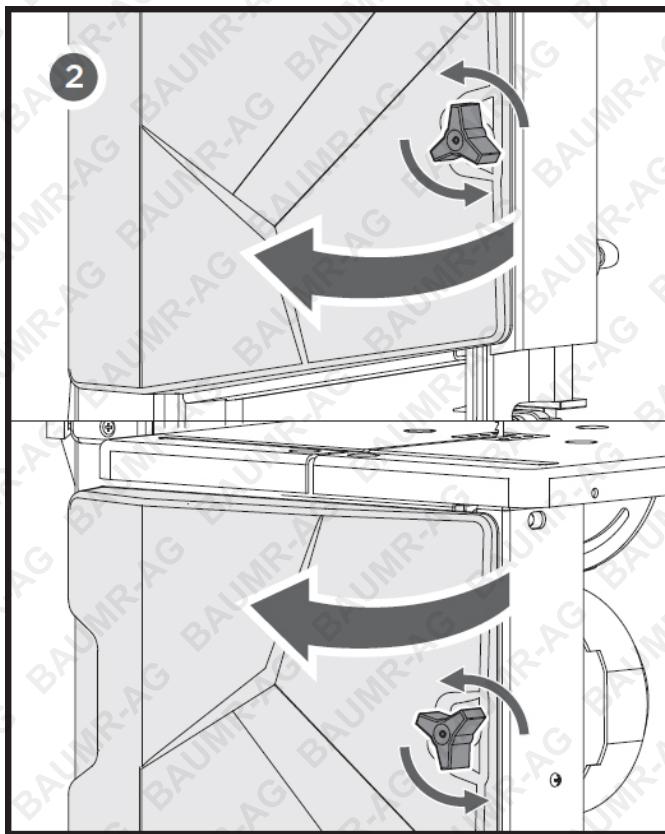
Danger! Risk of injury, even with the band saw blade at standstill. Wear gloves when changing blades.

Use only suitable band saw blades.

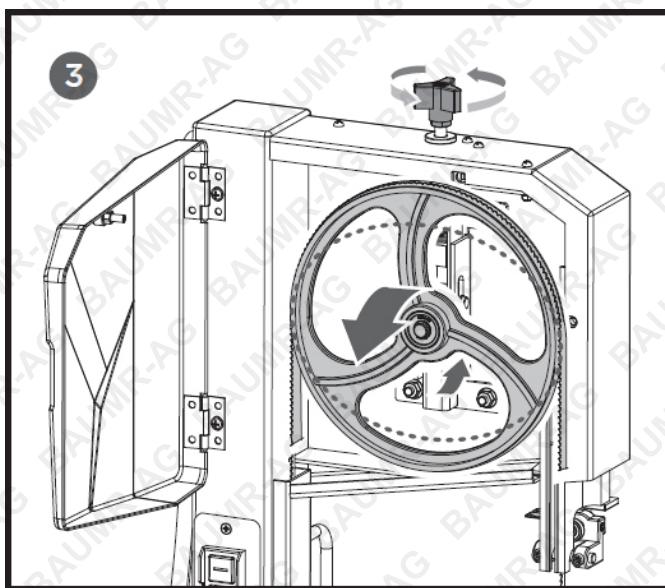
1. Loosen the 2 knurled screws and remove the U shape blocker.



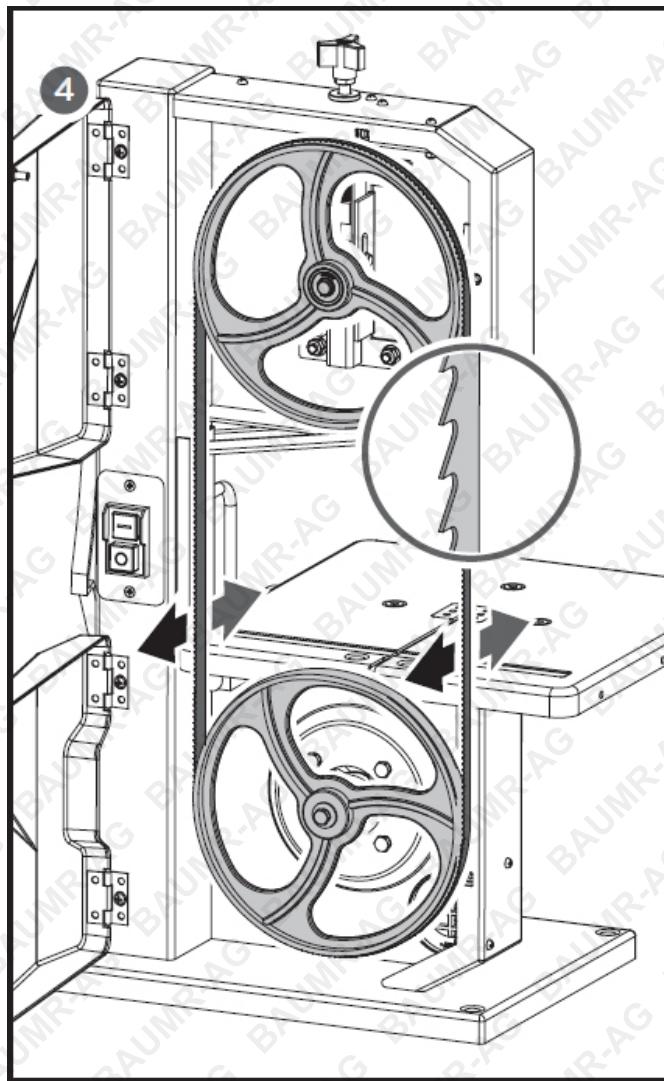
2. Open both housing doors.



3. Loosen setting knob until the band saw blade has slackened.



4. To remove the band saw blade, guide it through the slot in the working table.

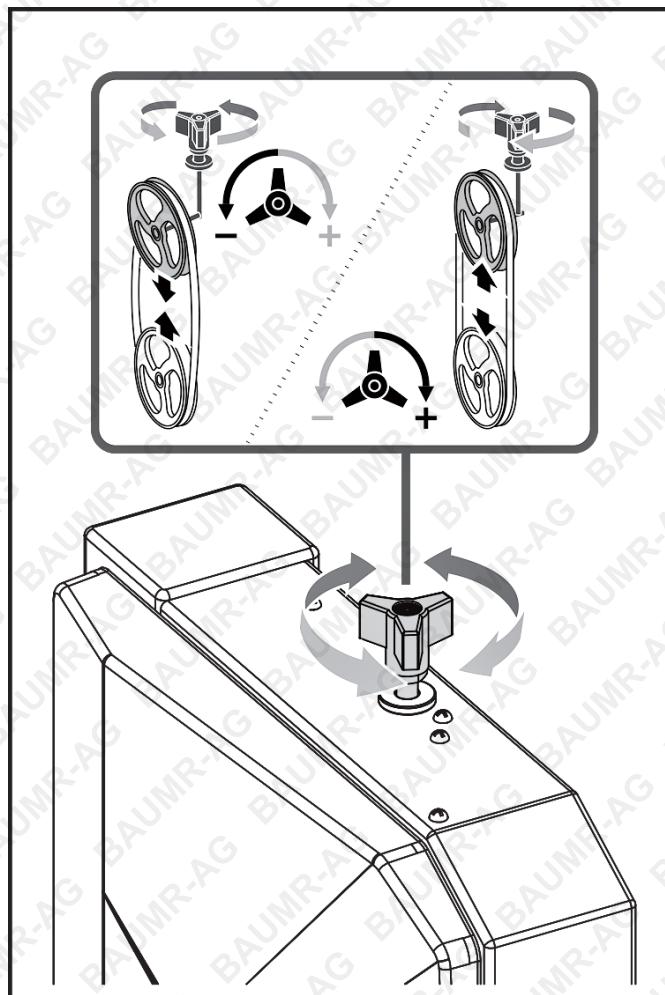


5. Fit fresh band saw blade. Ensure correct position: the teeth must point towards the front of the saw (where the doors are).
6. Centre band saw blade on the rubber tyres of the band saw wheels.
7. Tighten setting knob until blade does no longer slip off the band saw wheels.
8. Close both housing doors.
9. Tension band saw blade; Align band saw blade and align blade guides; let saw test run for at least one minute; Stop saw, unplug and recheck settings.

Adjusting the Blade Tension

This tracking adjustment is required to have the blade run dead centre on the rubber tyres of the band saw wheels:

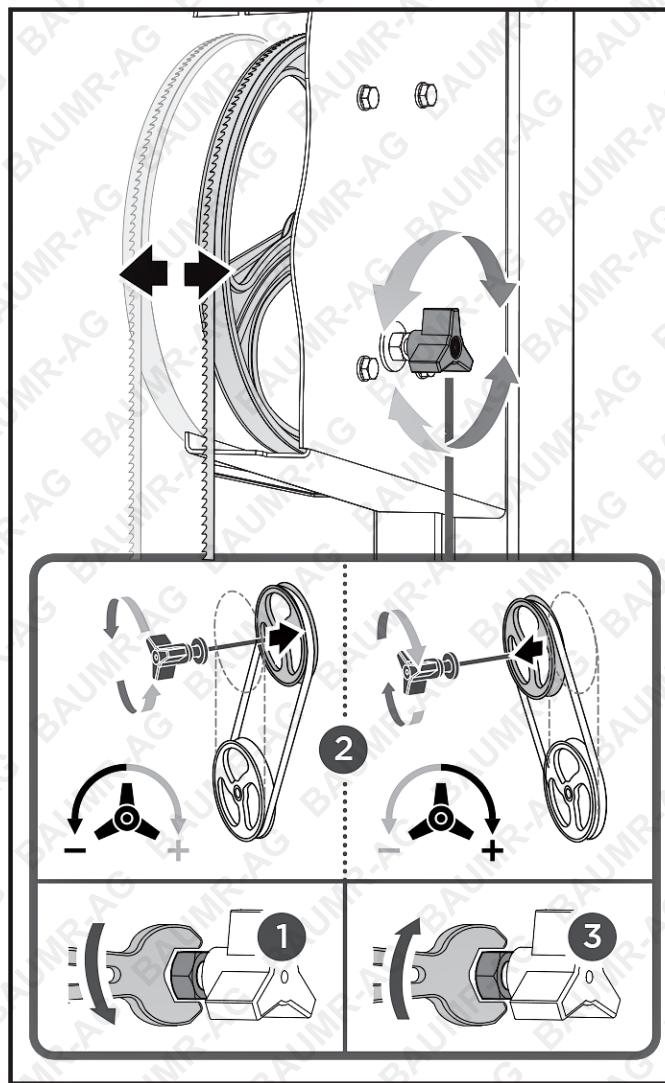
- Turning the setting knob clockwise increases the blade tension.
- Turning the setting knob counter – clockwise reduces the blade tension.



Band Saw Blade Alignment

If the band saw blade does not run in the centre of the rubber tyres, the tracking needs to be corrected by adjusting the tilt of the upper band saw wheel:

1. Loosen locking nut.
2. Turn setting knob:
 - Turn setting knob clockwise if the band saw blade runs towards the front of the saw.
 - Turn setting knob counter- clockwise if the band saw blade runs towards the rear of the saw.
3. Tighten locking nut.



Upper Blade Guide Alignment

The upper blade guide consists of:

- A thrust bearing (supports the band saw blade from the rear),
- Two guide pins (providing lateral support).

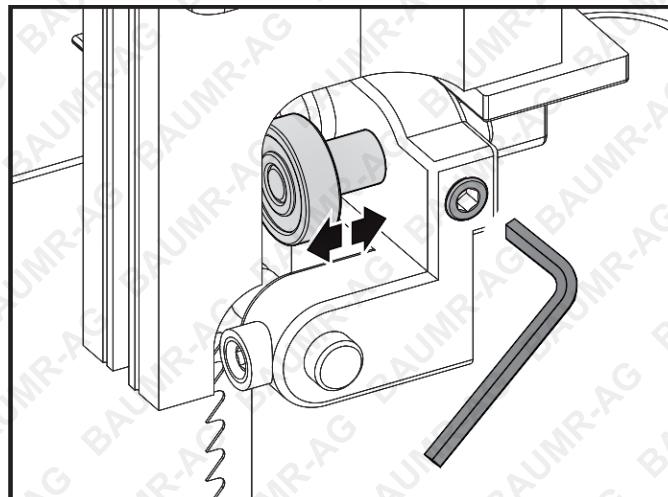
The bearing and guide pins need to be readjusted after every band saw blade change or tracking.



Periodically check all bearings for wear, if necessary, replace both guide bearings at the same time.

Thrust Bearing Adjustment

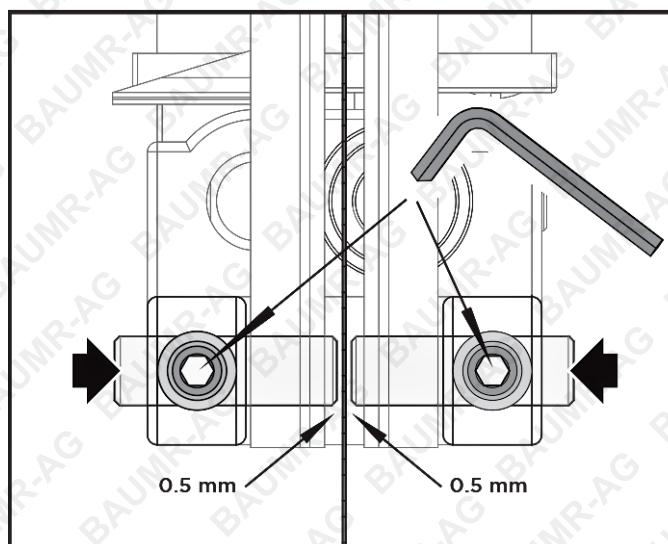
1. If necessary, align and tighten the band saw blade.
2. Loosen the thrust bearing's locking screw.
3. Adjust thrust bearing position (distance thrust bearing - band saw blade = 0.5 mm - if the band saw blade is turned by hand, it shall not touch the thrust bearing).



4. Tighten the thrust bearing locking screw.

Guide Pin Adjustment

1. Loosen screws.
2. Press guide pins together, keep 0.5 mm distance between guide pin and the saw blade.



3. Tighten screws again.

Lower Blade Guide Alignment

The lower blade guide consists of:

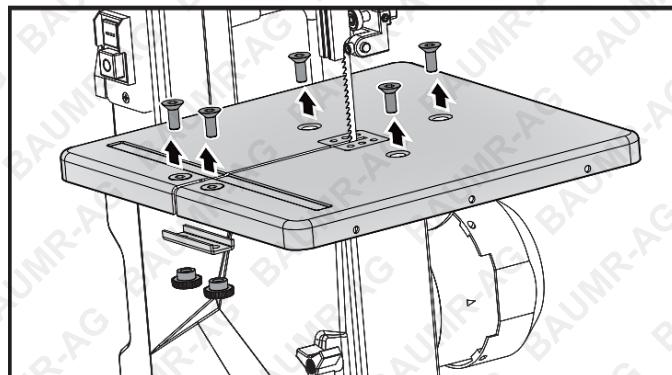
- a thrust bearing (supports the band saw blade from the rear),
- two guide pins (providing lateral support).



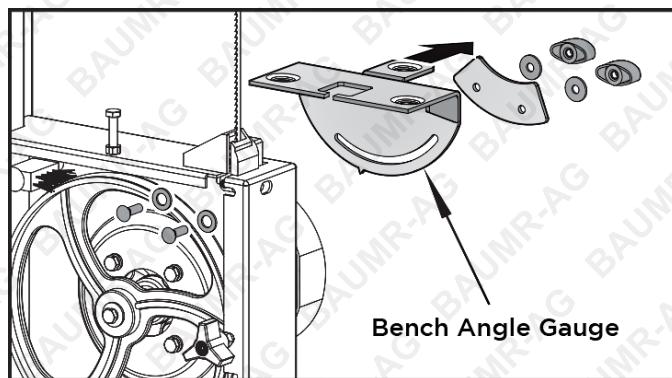
Periodically check thrust bearings and guide pins for wear, if necessary, replace both guide pins at the same time.

Thrust Bearing Adjustment

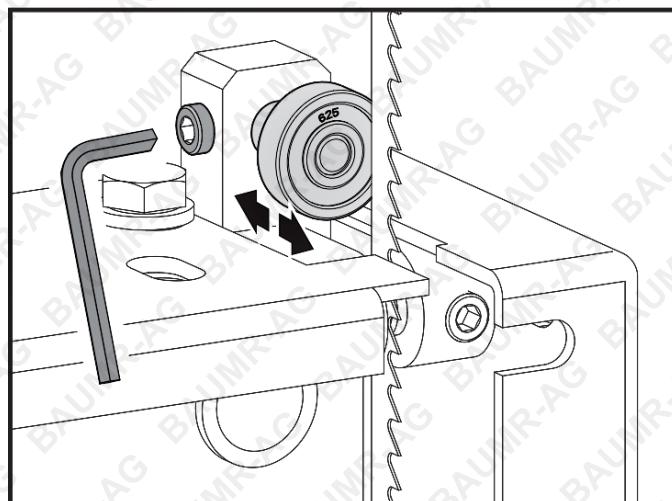
1. Loosen the two screws and remove the under blocks.
2. Loosen the three screws and Remove the working table from the table trunnion.



3. Loosen the two knobs and remove the bench angle gauge.
4. Open the lower housing door.



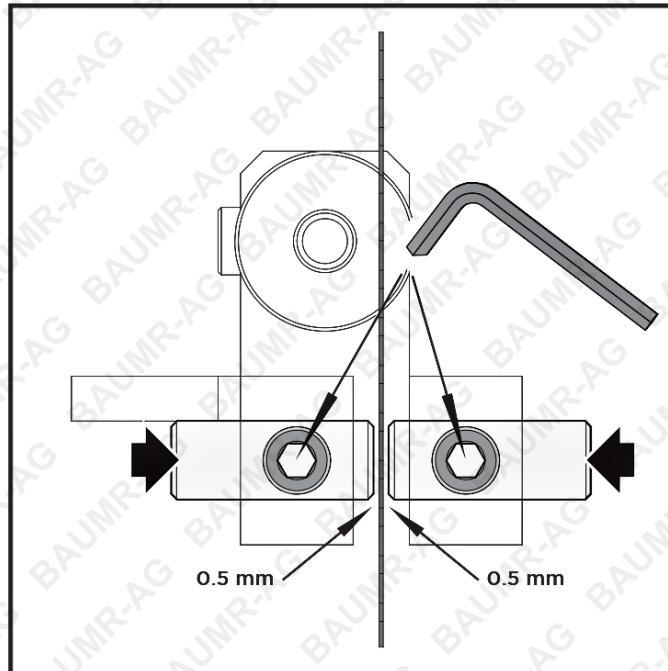
5. Raise upper blade guide fully.
6. If necessary, align and tighten the band saw blade.
7. Loosen the thrust bearing's locking screw.
8. Adjust thrust bearing position (distance thrust bearing - band saw blade = 0.5 mm) if the band saw blade is turned by hand, it shall not touch the thrust bearing.



9. Tighten the thrust bearing locking screw.

Guide Pin Adjustment

1. Loosen screws.
2. Press guide pins together, keep 0.5 mm distance between guide pin and the saw blade.

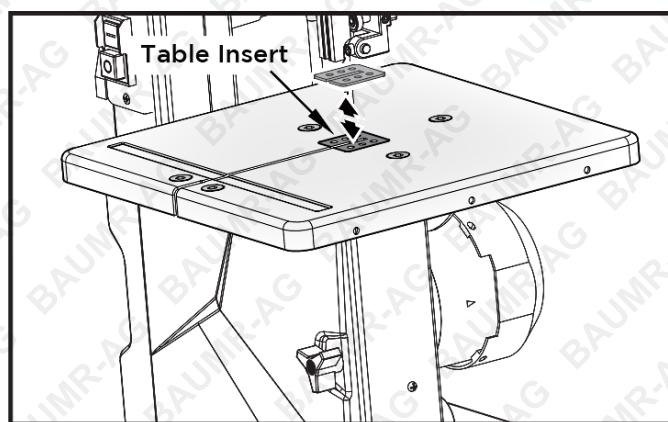


3. Tighten screws again.
4. Attach the working table to the table trunnion.
5. Fit the U shape under block to the working table.

Table Insert Replacement

The table insert needs replacement when its slot has become enlarged or damaged.

1. Remove table insert from saw table (push up from underneath).
2. Fit new table insert.



Transportation

1. Turn off the power tool before any transport and disconnect it from the power supply.
2. Apply the power tool at least with two people, do not touch the table extensions.
3. Protect the power tool from knocks, bumps and strong vibrations such as during transport in vehicles.
4. Secure the power tool against overturning and sliding.
5. Never use the safety devices for handling or transporting purpose.

Storage

Store the equipment and accessories in a dark and dry place at above freezing temperature. The ideal storage temperature is between 5 and 30°C. Store the electric tool in its original packaging. Cover the electric tool in order to protect it from dust and moisture.

Troubleshooting

Problem	Cause	Remedy
Motor does not work	<ol style="list-style-type: none"> 1. Motor, cable or plug defective, fuses burnt 2. Housing cover open (limit switch) 	<ol style="list-style-type: none"> 1. Arrange for inspection of the machine by a specialist. Never repair the motor yourself. Danger! Check fuses and replace as necessary 2. Close housing cover exactly
The motor starts up slowly and does not reach operating speed	Voltage too low, coils damaged, capacitor burnt	<p>Contact the utility provider to check the voltage</p> <p>Arrange for inspection of the motor by a specialist</p> <p>Arrange for replacement of the capacitor by a specialist</p>
Motor makes excessive noise	Coils damaged, motor defective	Arrange for inspection of the motor by a specialist
The motor does not reach its full power	Circuits in the network are overloaded (lamps, other motors, etc.)	Do not use any other equipment or motors on the same circuit
Motor overheats easily	Overloading of the motor, insufficient cooling of the motor	Avoid overloading the motor while cutting, remove dust from the motor in order to ensure optimal cooling of the motor
Saw cut is rough or wavy	Saw blade dull, tooth shape not appropriate for the material thickness	Re sharpen saw blade and/or use suitable saw blade
Workpiece pulls away and/or splinters	Excessive cutting pressure and/or saw blade not suitable for use	Insert suitable saw blade
Saw blade is not running straight	<ol style="list-style-type: none"> 1. Guide has been wrongly set 2. Wrong saw blade 	<ol style="list-style-type: none"> 1. Set the saw blade guide according to the operating instructions 2. Select a saw blade according to the operating instructions
Burn marks appear on the wood during the cutting work	<ol style="list-style-type: none"> 1. Blunt saw blade 2. Wrong saw blade 	<ol style="list-style-type: none"> 1. Change the saw blade 2. Select a saw blade according to the operating instructions
Saw blade jams during cutting work	<ol style="list-style-type: none"> 1. Blunt saw blade 2. Deposits on the saw blade 3. Guide has been set poorly 	<ol style="list-style-type: none"> 1. Change the saw blade 2. Clean the saw blade 3. Set the saw blade guide according to the operating instructions

Specifications

Model	BS30 Series II
Motor	350W
Voltage	240V 50Hz
Blade Length	1400 mm
Blade Wheel Diameter	205 mm
Max. Cutting Height	80 mm @ 90° 45 mm @ 45°"
Cutting Speed	950 m/min
Table Size	302x304 mm
Table Tilt	0° - 45°



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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