

CWT 255

OPERATING INSTRUCTIONS



SAINT-GOBAIN

clipper[®]



Declaration of conformity

The undersigned manufacturer:

SAINT - GOBAIN ABRASIVES S.A.
190, BD J.F. KENNEDY
L- 4930 BASCHARAGE

Declares that this product Wood saws: **CWT 255 230V** Code: **70184631918**
is in conformity with the following Directives:

- **"MACHINES" 2006/42/CE**
- **"ELECTROMAGNETIC COMPATIBILITY" 2014/30/UE**

and European standard:

- **EN 62841-1:2015**
- **EN 62841-3-1:2014/A11:2017**
- **EN 55014-1:2017/A11:2020**
- **EN IEC 55014-1:2021**
- **EN 55014-2:1997/A2:2008**
- **EN IEC 55014-2:2021**
- **EN 61000-3-2:2014**
- **EN IEC 61000-3-2:2019/A1:2021**
- **EN 61000-3-11:2000**
- **EN IEC 61000-3-11:2019**

Where applicable, the notified body TUV SUD Product Service GmbH, Ridlerstraße 65 • 80339 Munich • Germany. Number : 0123, performed EC-Type Examination Certificate and issued the certificate: M8A 116949 0001 Rev.00

Valid for machines as of serial number: 4503130226001

Storage site for the technical documents:

Saint-Gobain Abrasives 190, Bd. J. F. Kennedy 4930 BASCHARAGE, LUXEMBOURG
This declaration of conformity loses its validity when the product is converted or modified without agreement.

Bascharage, Luxembourg, 17.11.2022
Fabrice Genuardi, Quality Manager
Responsible for the technical file
Bascharage, Luxembourg.

A handwritten signature in black ink, appearing to read 'Fabrice Genuardi', is written over a light blue horizontal line.

CWT 255

OPERATING INSTRUCTIONS

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1 BASIC SAFETY INSTRUCTIONS

1.1 Pictogram

Important warnings and pieces of advice are indicated on the machine using symbols. The following symbols are used on the machine:



Read operator's instructions



Ear protection must be worn



Hand protection must be worn



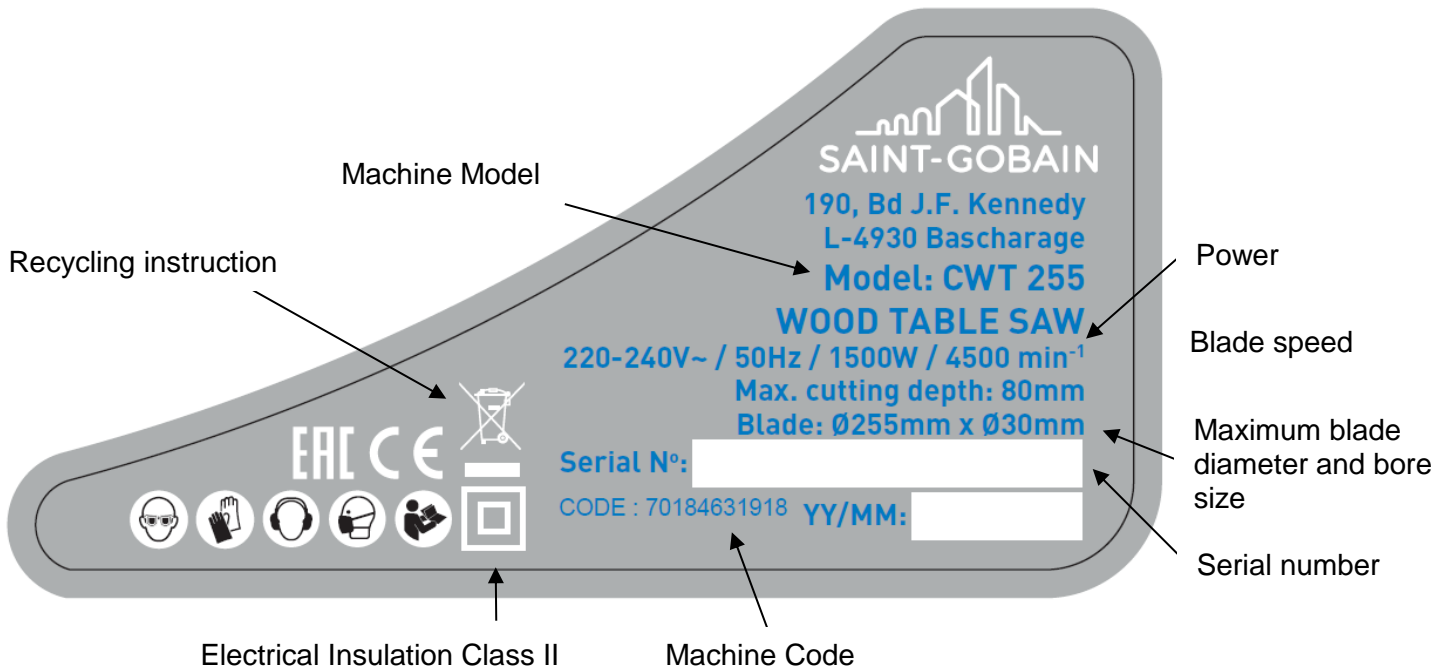
Eye protection shall be worn



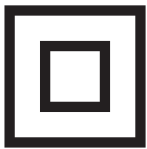
Wear a dust mask

1.2 Machine name plate

Important data can be found on the following plate located on the machine:



The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.



DOUBLE INSULATION

Double insulation is a concept in safety in electric power tools, which eliminates the need for the usual three wire

Grounded power cord. All exposed metal parts are isolated from the internal metal motor components with protecting insulation. Double-insulated tools do not need to be grounded.



Never dispose of any electric power tools with your household refuse. To comply with European Directive 2012/19/EU on waste electric and electronic equipment, and its implementation in national laws, old electric power tools must be separated from other waste and disposed of in an environment-friendly fashion, e.g. by taking them to a recycling depot.



This product is recyclable. If it cannot be used anymore, please take it to waste recycling centre.

1.3 Purpose of use

Your CWT255 saw bench has been designed for rip, cross, bevel and miter sawing operations in wood, wood products and plastics. This unit is designed for use with a 250mm diameter carbide blade.

Uses other than the manufacturer's instructions shall be considered as contravening the regulations. The manufacturer shall not be held responsible for any resulting damage. Any risk shall be borne entirely by the user. Observing the operating instructions and compliance with inspection and servicing requirements shall also be considered as included under use in accordance with the regulations.

2 IMPORTANT SAFETY INSTRUCTIONS

WARNING

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

2.1. Work area safety

- a. **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
- b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- c. **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

2.2. Electrical safety

- a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b. **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*
- c. **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
- e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
- f. **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter protected supply.** *Use of a ground fault circuit interrupter reduces the risk of electric shock.*

2.3. Personal safety

- a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
- b. **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch may result in accidents.*
- d. **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- e. **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- f. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewelry or long hair can be caught in moving parts.*
- g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*
- h. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*
- i. Only use safety equipment that has been approved by an appropriate standards agency.
Unapproved safety equipment may not provide adequate protection.
- j. **Avoid unintentional starting.** Prepare to begin work before turning on the tool.
- k. **Do not leave the tool unattended when it is plugged into an electrical outlet.** Turn off the tool, and unplug it from its electrical outlet before leaving.
- l. **This product is not a toy.** Keep it out of reach of children.
- m. **People with pacemakers should consult their physician(s) before use.** Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
 - Avoid operating alone.
 - Do not use with Trigger locked on.
 - Properly maintain and inspect to avoid electrical shock.
 - Properly ground power cord.Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
- n. **The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur.** It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

2.4. Power tool use

- a. **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*
- b. **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
- c. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
- e. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*
- f. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*
- h. **Keep handles and grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

2.5. Service

- a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*
- b. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

2.6. Safety instructions for miter saws

- a. **Mitre saws are intended to cut wood or wood-like products, they cannot be used with abrasive cut-off wheels for cutting ferrous material such as bars, rods, studs, etc.** *Abrasive dust causes moving parts such as the lower guard to jam. Sparks from abrasive cutting will burn the lower guard, the kerf insert and other parts.*
- b. **Use clamps to support the workpiece whenever possible. If supporting the workpiece by hand, you must always keep your hand at least 100 mm from either side of the saw blade. Do not use this saw to cut pieces that are too small to be securely clamped or held by hand. If your hand is placed too close to the saw blade, there is an increased risk of injury from blade contact.**

- c. **The workpiece must be stationary and clamped or held against both the fence and the table. Do not feed the workpiece into the blade or cut "freehand" in any way.** *Unrestrained or moving workpieces could be thrown at high speeds, causing injury.*
- d. **Push the saw through the workpiece. Do not pull the saw through the workpiece. To make a cut, raise the saw head and pull it out over the workpiece without cutting, start the motor, press the saw head down and push the saw through the workpiece.** *Cutting on the pull stroke is likely to cause the saw blade to climb on top of the workpiece and violently throw the blade assembly towards the operator.*
- e. **Never cross your hand over the intended line of cutting either in front or behind the saw blade.** *Supporting the workpiece "cross handed" i.e. holding the workpiece to the right of the saw blade with your left hand or vice versa is very dangerous.*
- f. **Do not reach behind the fence with either hand closer than 100 mm from either side of the saw blade, to remove wood scraps, or for any other reason while the blade is spinning.** *The proximity of the spinning saw blade to your hand may not be obvious and you may be seriously injured.*
- g. **Inspect your workpiece before cutting. If the workpiece is bowed or warped, clamp it with the outside bowed face toward the fence. Always make certain that there is no gap between the workpiece, fence and table along the line of the cut.** *Bent or warped workpieces can twist or shift and may cause binding on the spinning saw blade while cutting. There should be no nails or foreign objects in the workpiece.*
- h. **Do not use the saw until the table is clear of all tools, wood scraps, etc., except for the workpiece.** *Small debris or loose pieces of wood or other objects that contact the revolving blade can be thrown with high speed.*
- i. **Cut only one workpiece at a time.** *Stacked multiple workpieces cannot be adequately clamped or braced and may bind on the blade or shift during cutting.*
- j. **Ensure the mitre saw is mounted or placed on a level, firm work surface before use.** *A level and firm work surface reduces the risk of the mitre saw becoming unstable.*
- k. **Plan your work. Every time you change the bevel or mitre angle setting, make sure the adjustable fence is set correctly to support the workpiece and will not interfere with the blade or the guarding system.** *Without turning the tool "ON" and with no workpiece on the table, move the saw blade through a complete simulated cut to assure there will be no interference or danger of cutting the fence.*
- l. **Provide adequate support such as table extensions, saw horses, etc. for a workpiece that is wider or longer than the table top.** *Workpieces longer or wider than the mitre saw table can tip if not securely supported. If the cutoff piece or workpiece tips, it can lift the lower guard or be thrown by the spinning blade.*
- m. **Do not use another person as a substitute for a table extension or as additional support.** *Unstable support for the workpiece can cause the blade to bind or the workpiece to shift during the cutting operation pulling you and the helper into the spinning blade.*
- n. **The cut-off piece must not be jammed or pressed by any means against the spinning saw blade.** *If confined, i.e. using length stops, the cut-off piece could get wedged against them blade and thrown violently.*

- o. **Always use a clamp or a fixture designed to properly support round material such as rods or tubing.** *Rods have a tendency to roll while being cut, causing the blade to "bite" and pull the work with your hand into the blade.*
- p. **Let the blade reach full speed before contacting the workpiece.** *This will reduce the risk of the workpiece being thrown.*
- q. **If the workpiece or blade becomes jammed, turn the mitre saw off. Wait for all moving parts to stop and disconnect the plug from the power source and/or remove the battery pack. Then work to free the jammed material.** *Continued sawing with a jammed workpiece could cause loss of control or damage to the mitre saw.*
- r. **After finishing the cut, release the switch, hold the saw head down and wait for the blade to stop before removing the cut-off piece.** *Reaching with your hand near the coasting blade is dangerous.*
- s. **Hold the handle firmly when making an incomplete cut or when releasing the switch before the saw head is completely in the down position.** *The braking action of the saw may cause the saw head to be suddenly pulled downward, causing a risk of injury.*

2.7. 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, Riving Knife and anti-kickback device 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 to 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, Riving Knife and/or anti-kickback device.** *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 and anti-kickback device to work, they must be engaged in the workpiece.** *The Riving Knife and anti-kickback device are ineffective when cutting workpieces that are too short to be engaged with the Riving Knife and anti-kickback device. Under these conditions a kickback cannot be prevented by the Riving Knife and anti-kickback device.*
- 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.*

2.8. 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 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 miter gauge to feed the workpiece when ripping and do not use the Rip Fence as a length stop when cross cutting with the miter gauge.** *Guiding the workpiece with the Rip Fence and the miter 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 150mm, and use a push block when this distance is less than 50mm. "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 miter 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 miter 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 2mm thick.** *A thin workpiece may wedge under the Rip Fence and create a kickback.*

2.9. 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.*
- 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 feather board to guide the workpiece against the table and fence when making no through cuts such as rabbeting, dadoing or resawing cuts.** *A feather board 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 minimize 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 miter 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.*
- i. **Never cut more than one workpiece, stacked vertically or horizontally.** *The saw blade could pick up one or more pieces and cause kickback.*
- j. **When restarting the saw with the saw blade in the workpiece, center the saw blade in the kerf so that the saw teeth are not engaged in the material.** *If the saw blade binds, it may lift up the workpiece and cause kickback when the saw is restarted.*
- 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 minimize binding, stalling and kickback.*

2.10. 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 adjustments to the Riving Knife, antikickback device 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 arbor holes.** *Saw blades that do not match the mounting hardware of the saw will run off-center, 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.*

3 TECHNICAL DATA

Supply Voltage:	230V~, 50 Hz
Power:	1500W
No Load Speed:	4500 min ⁻¹
Cutting Capacity at 90°:	80mm
Cutting Capacity at 45°:	55mm
Main table size:	624x 550 mm
Rip capacity:	620mm right, 315mm left;
Maximum Bevel:	45°
Maximum Miter:	90°
Saw Blade:	ø255xø30mm

4 SETUP BEFORE USE

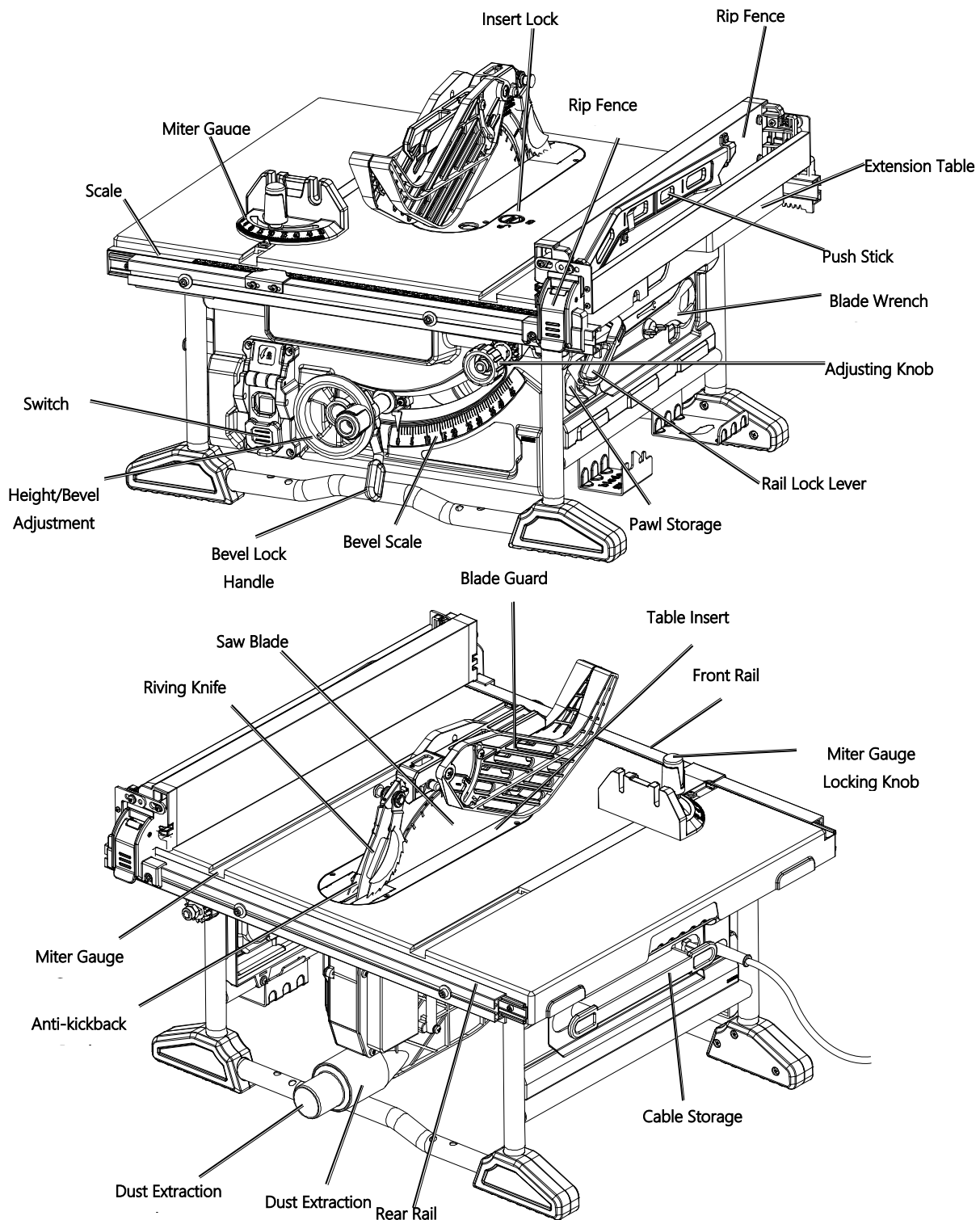
WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Functional Description



Assembly **Mounting Table Saw**

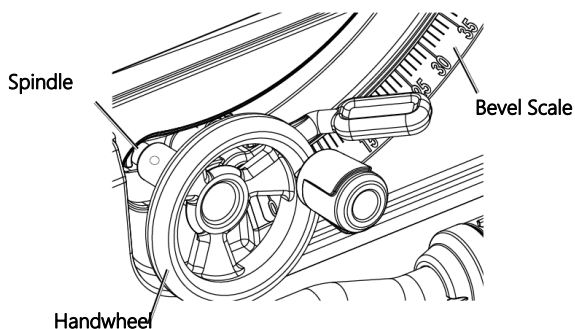
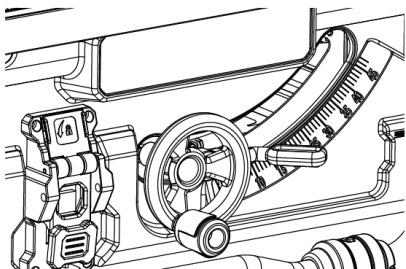
1. Select a workbench or mounting location that is able to support the weight of the Table Saw, plus any additional weight placed on it during use.
2. Make sure there are no hidden electric wires, cables or other obstructions that may interfere with the mounting procedure or cause a hazard.
3. Mark the mounting hole locations at the base of the Saw and drill the appropriate size holes for the mounting bolts (not included).
4. Mount the Saw using bolts, washers and nuts (not included).

Attaching the Hand wheel

1. Remove hand wheel from its storage box located underneath the Table Saw.



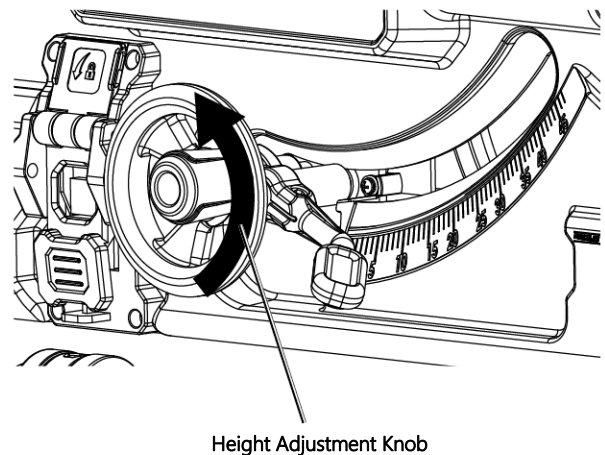
2. Remove tape and Set Screw from hand wheel.
3. Place Handwheel on Spindle and align holes on both the Spindle and Handwheel.



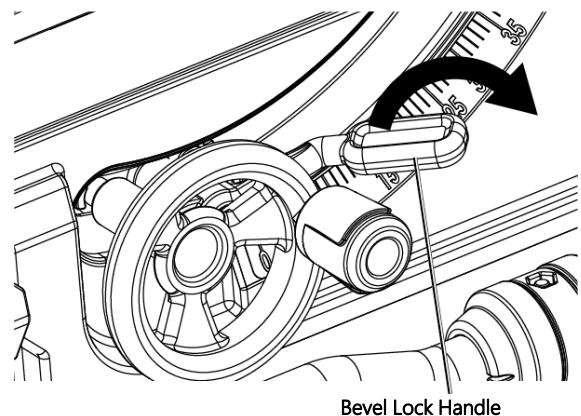
4. Use Set Screw to fasten Handwheel to the Spindle.
5. Tighten Set Screw.

Removing the Table Insert

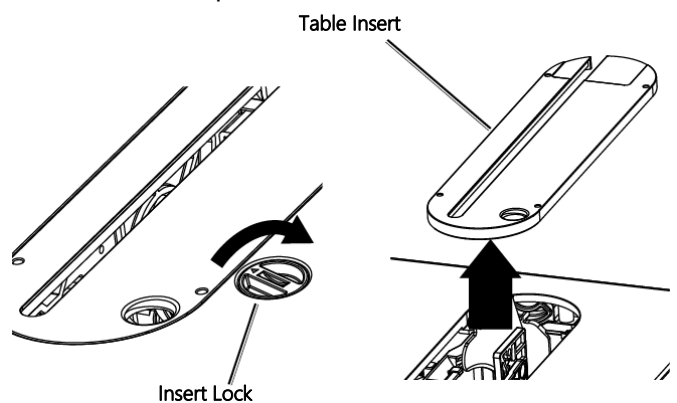
1. Lower the blade by turning the Height Adjustment Knob counter-clockwise.



2. Lock the blade by turning Bevel Lock Handle clockwise.



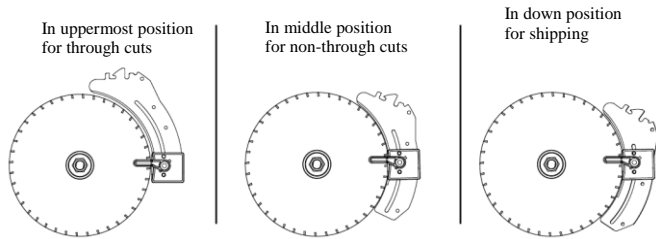
3. To remove Table Insert, turn the Insert Lock clockwise. Using finger hole on the insert, pull up and forward to expose the inside of the saw.



4. To reinstall the table insert: Push insert down in place and turn the Insert Lock counterclockwise.

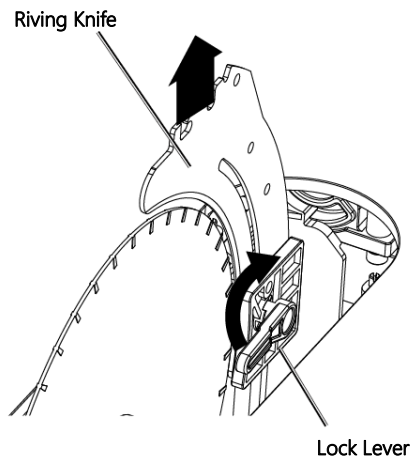
Adjusting Riving Knife

Note: Riving Knife has three mounting holes for three positions. The uppermost position is for all through cuts. The middle position is for non-through cuts (with blade guard and anti-kickback pawls removed). The down position is only used for shipping.

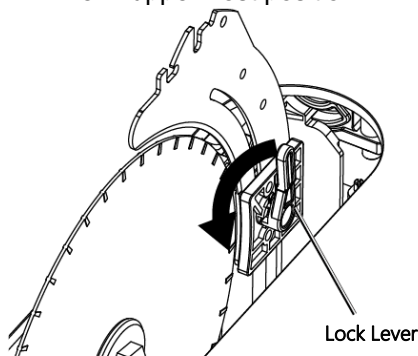


Note: Riving Knife follows the saw blade to keep the kerf (gap) from closing on the saw blade. Reposition the Riving Knife before initial use.

1. With Table Insert removed, rotate Lock Lever up and pull the Riving Knife toward right side of the saw to release it from lock pin. This will allow the knife to slide up and down.



2. Bring Riving Knife up so that the lock pin is re-engaged into bottom mounting hole.
3. Pull Lock Lever forward, locking Riving Knife in uppermost position.



4. Once the blade is installed and Riving Knife adjusted to its working setting, replace table insert.

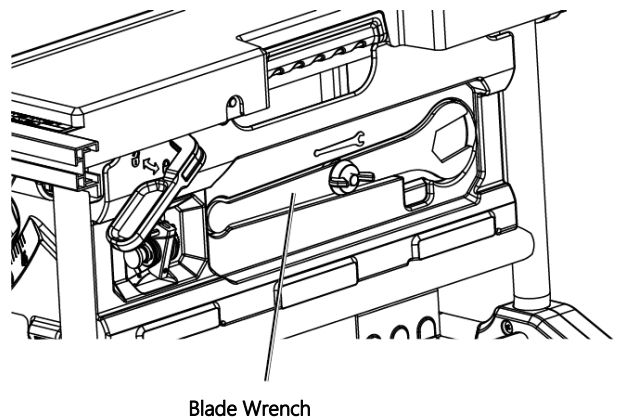
Removing and Installing the Blade

NOTICE: To work properly, the saw blade teeth must point down toward the front of the saw. Failure to heed this instruction could cause damage to the saw blade, the saw or the workpiece.

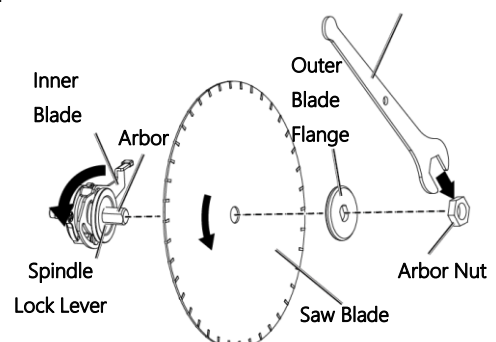
WARNING! Make sure that the saw blade is installed to rotate in the proper direction. Do not use grinding wheels, wire brushes, or abrasive wheels on a table saw. Improper saw blade installation or use of accessories not recommended may cause serious injury. When installing the saw blade, wear protective gloves. Danger of injury when touching the saw blade.

WARNING! Only use a 255mm saw blade with a 30mm arbor, rated to at least 4,800 min⁻¹ and intended for woodcutting. To avoid serious injury from an accidental start, make sure the switch is in the OFF position and the plug is not connected to the power source outlet.

1. To remove the blade, unplug saw. Turn Height Adjustment Knob clockwise to raise blade to maximum height. Remove Table Insert.
2. Remove the Blade Wrench from storage area.



3. Turn the Arbor Nut with the blade wrench and at the same time, pull Spindle Lock Lever until it engages. Keep lever pulled and loosen nut by turning in a counterclockwise direction.
4. Remove Arbor Nut, Outer Blade Flange and Saw Blade.



Note: All parts must be clean before assembly.

5. To install the blade, place new saw blade onto the Inner Blade Flange of the tool arbor.

- WARNING! TO PREVENT SERIOUS INJURY:** When installing the saw blade, make sure that the saw blade teeth point down at the front side of blade.
- Place Outer Flange and Arbor Nut on arbor.
 - Turn Arbor Nut with the blade wrench and at the same time, pull the Spindle Lock Lever until it engages.
 - Tighten arbor nut in a clockwise direction. **DO NOT** overtighten.
 - Lower the saw blade completely and replace Table Insert.
 - Once the saw blade is secured, adjust the Riving Knife and install Antikickback Pawls and Blade Guard.

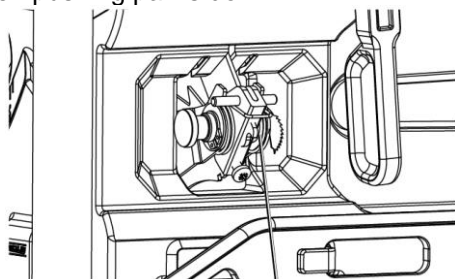
Installing Anti-Kickback Pawls

Note: Anti-kickback pawls should only be installed for through cuts.

WARNING! Make sure that the pawls are reinstalled immediately after finishing any non-through cut operations which require their removal.

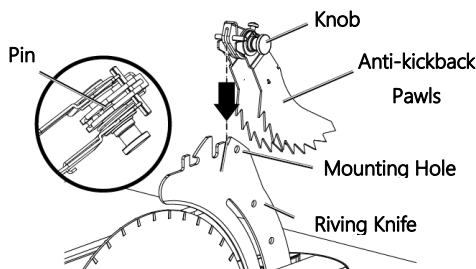
WARNING! Replace dull or damaged anti-kickback pawls. Dull or damaged anti-kickback pawls may not stop a kickback, increasing the risk of serious personal injury.

- Unplug the saw.
- Set the blade angle to 0°. Raise the saw blade to maximum height by turning Height Adjustment Knob clockwise. Lock the blade by turning Bevel Lock Handle clockwise.
- Place Riving Knife in its highest position.
- Remove pawls from the storage compartment by pulling out and holding knob, then pushing pawls down.



Anti-kickback Pawls

- Secure pawls by placing over Riving Knife until they snap securely into the Mounting Hole.



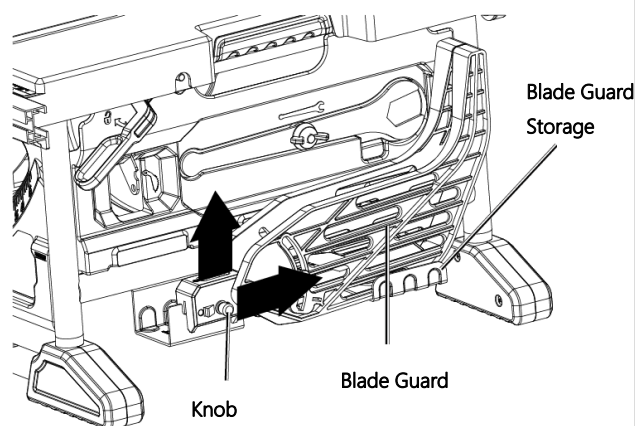
Note: Pull up on Pawls assembly to make sure it is secured to Riving Knife.

WARNING! TO PREVENT SERIOUS INJURY: Use extra caution when cutting wood with slippery surface as the anti-kickback pawls may not always be effective.

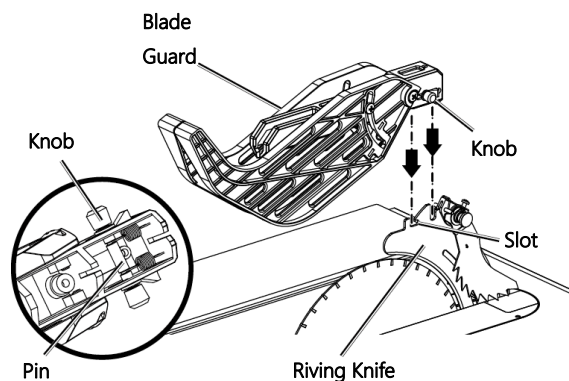
Installing the Blade Guard

WARNING! KEEP GUARD IN PLACE and in good working order for all through cut operations. Reinstall blade guard immediately after finishing any non-through cut operations which require removal of the blade guard. Failure to heed this instruction could result in serious personal injury.

- Unplug the saw.
- Hold the knobs (one on either side of the blade guard) and push knobs forward to the front of the Blade guard.
- Push up until the pin comes out from the slot in the mounting bracket (blade guard storage) at bottom right side of the saw, then remove Blade Guard.



- Hold and push knobs forward to the front of the Blade Guard. Place the blade guard pin into the slot indicated on Riving Knife. Pull blade guard fully back onto knife. Push pin and release it to lock guard into position.

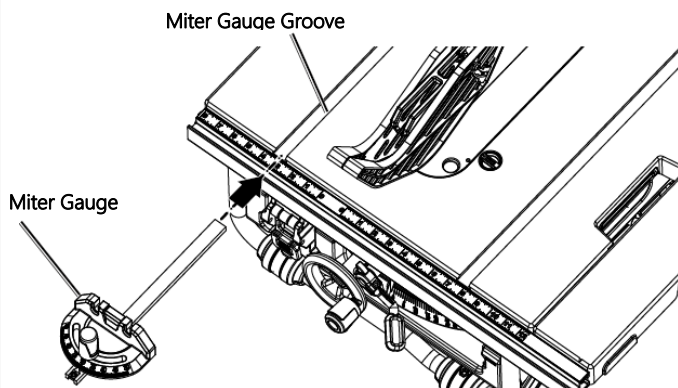


- If blade guard is not parallel to working table when Riving Knife is in uppermost position (through cuts), adjust the set screw as necessary.

WARNING! TO PREVENT SERIOUS INJURY: After the installation, check the blade guard to ensure that it is properly placed and working before operation of the saw.

Installing the Miter Gauge

Note: The Miter Gauge can be installed in either miter gauge groove on either side of blade. Slide the Miter Gauge into one of the guide grooves.



Installing the Rip Fence

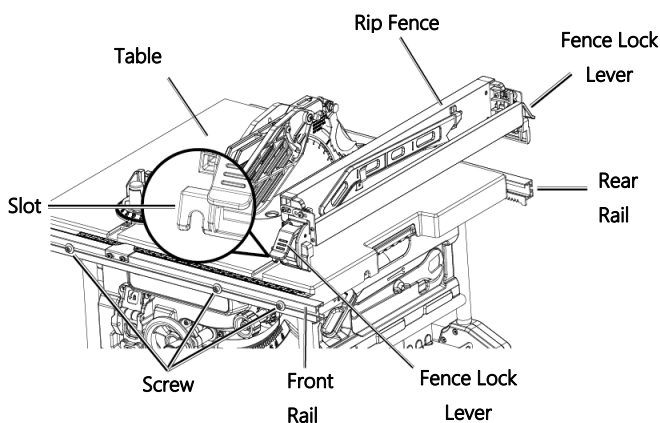
Note: The Rip Fence can be installed on either side of blade.

1. Raise Rip Fence Lock Levers on each side of the Rip Fence.

Note: There are three Screws located on both the Front & Rear Rails. The Screws will be used to attach Rip Fence to rails.

2. Align the slot on Rip Fence with the corresponding screw.

3. Place Rip Fence on the rail so that the slot latches onto screw and secure Fence to Rails by pushing Fence Lock Levers down.



WARNING! Make sure Rip Fence is perfectly parallel to the blade and completely locked in place to prevent kickback.

WARNING! TO PREVENT SERIOUS INJURY: Do not use Rip Fence when cutting across wood grain (crosscutting).

Dust Collection System

The dust extraction port is located on the back of the table saw. Attach dust extraction adapter to dust extraction port.

This dust extraction adapter can be connected to a dust collection system by connecting the pick-up end of the dust collection hose to the dust extraction adapter.

OPERATION

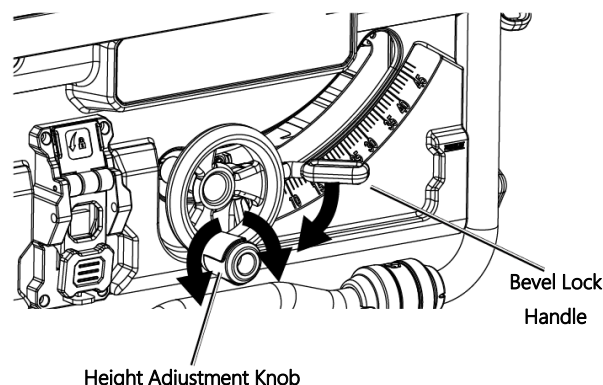
! Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

! **WARNING**
TO PREVENT SERIOUS INJURY: Read the miter saw manufacturer's instruction manual before use. Ensure that the miter saw is firmly secured to the stand. Use as a miter saw stand only – do not use with any other type of power tool. Do not exceed listed weight capacity. Do not use on uneven or slippery surfaces.

Changing Blade Depth

Note: Blade depth should be set so that outer points of blade are higher than workpiece by approximately 3.2mm to 6.35mm and bottom of gullets are below top surface of workpiece.

1. Turn Bevel Lock Handle clockwise to tighten it securely.
2. Raise blade by turning Height Adjustment Knob on the height/bevel adjusting handwheel clockwise. Lower blade by turning height knob counterclockwise. Make sure blade is at proper height.

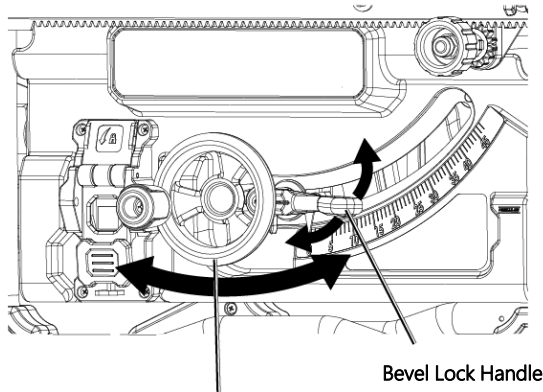


WARNING! Make sure the blade guard is in place after adjusting the blade depth. Failure to heed this instruction could result in serious personal injury.

Changing Blade Angle

Note: A 90° cut has a 0° bevel and a 45° cut has a 45° bevel.

1. Loosen the bevel lock handle counter-clockwise.
2. Adjust bevel angle by first pushing Height/bevel Handwheel all the way to the left.
3. Hold handwheel and slide bevel indicator to the right to increase angle of blade (bringing blade closer to 45° from the tabletop).
4. Hold handwheel and slide bevel indicator to the left to decrease the angle (bringing blade closer to 90° from the tabletop).



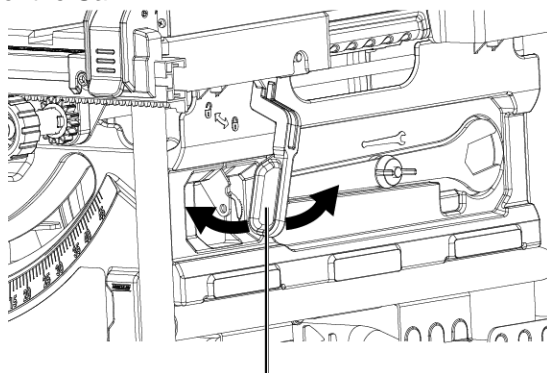
Height / Bevel Adjustment
Handwheel

5. Make sure blade is at desired angle. Tighten Bevel Lock Handle clockwise.

Rip Fence Operation Rail Lock Lever

Note: The Rail Lock Lever allows the customer to adjust the Rip Fence position by moving the Rail itself.

1. To lock the Rail Lock Lever, push lever up and towards the front of the Saw.
2. To unlock, push lever down and towards the back end of the Saw.

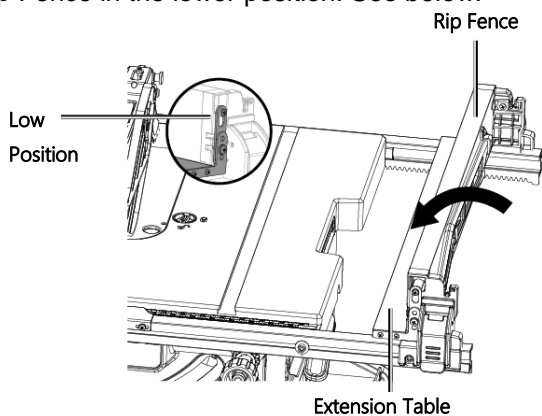


Rail Lock Lever

Extension Table

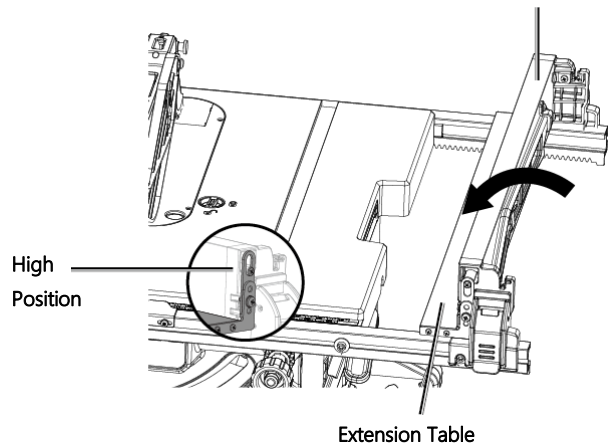
Note: The Extension Table can be used to support a workpiece that extends in size beyond the working table, or for a very narrow workpiece.

1. To support a workpiece that extends beyond the working table, secure Extension Table to Rip Fence in the lower position. See below.



Extension Table

2. For work on a narrow workpiece, secure Extension Table to Rip Fence in the higher position. See below.

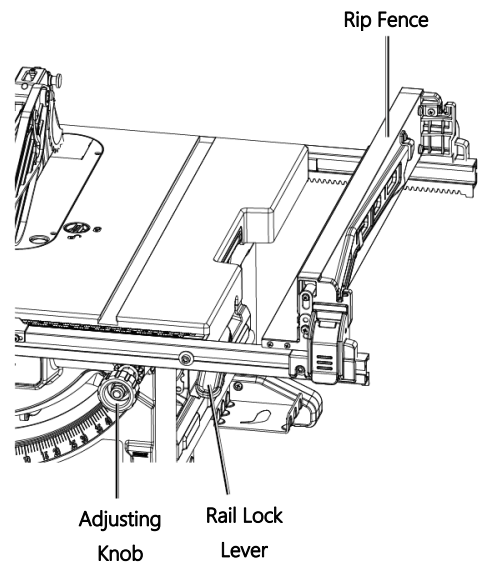


Extension Table

Adjusting Knob

Note: The Adjusting Knob allows the customer to make precise adjustments when setting the Rip Fence.

1. Unlock the Rail Lock Lever.
2. Slide Rip Fence close to the desired position.
3. Slowly turn the Adjusting Knob to fix the Rip Fence to desired position. Turn the Adjusting Knob clockwise to move Fence Rail to the right. Turn the Adjusting Knob counter-clockwise to move Fence Rail to the left.



Adjusting Knob
Rail Lock Lever

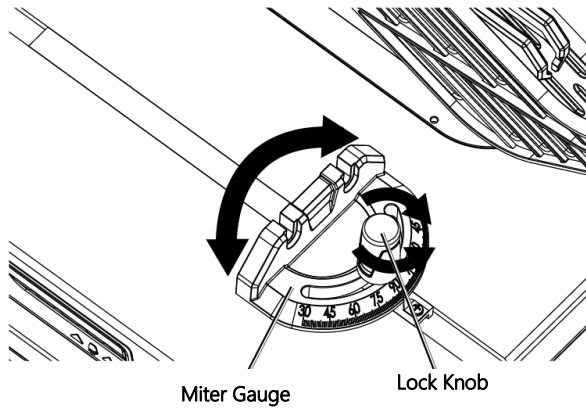
4. Lock the Rail Lock Lever.

Changing Miter Angle

Note: The miter gauge provides accuracy in angle cuts. For very close tolerances, test cuts are recommended.

When making a 90° cross cut, use either miter gauge groove. When making a beveled cross cut (blade tilted in relation to working table) miter gauge should be located in groove on right so that blade is tilted away from the miter gauge and hands.

1. Loosen Lock Knob by turning counterclockwise.
2. With Miter Gauge in the miter gauge groove, rotate gauge until desired angle on scale is reached.



3. Tighten Lock Knob by turning it clockwise.

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
3. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be objects, such as utility lines, nearby that will present a hazard while working.
5. Cut only the following materials:
dimensional lumber, plywood, particle board.

General Operating Instructions

Placement of Hands during Cutting Process

1. Review safety warnings at the beginning of the manual before performing any cutting procedure. Keep all guards in place and in working order.
2. Do not pass hands directly over the saw blade when cutting the workpiece. Push the workpiece into the saw blade using a push stick, push block or by holding the workpiece against the miter gauge.

WARNING! SAFE CUTTING PROCEDURES VARY DEPENDING ON THE TYPE OF CUT. TO PREVENT SERIOUS INJURY FROM KICKBACK:

Use Rip Fence for every Rip Cut (cut along with the grain).

BUT

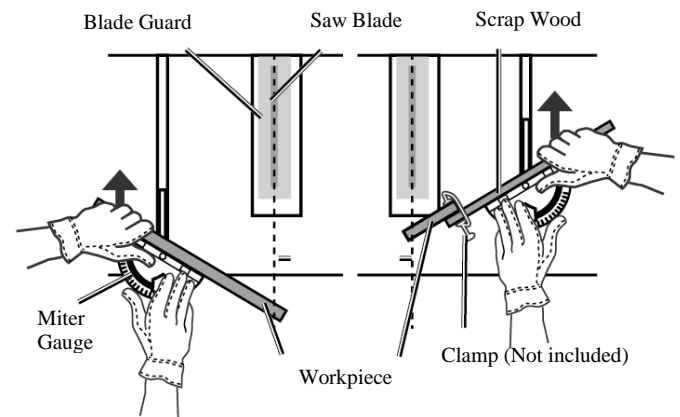
Do not use Fence for any crosscut (cut against the grain).

Rip Cuts

1. Rip cuts are straight cuts made parallel to (along with) the grain of the wood by sliding the workpiece along the fence.
2. For workpieces wider than 150mm hold the workpiece, staying clear of the saw blade. For workpieces 50mm and 150mm, use the included push stick or make a push stick as described in the safety section of this manual. Use a push block (not included) when ripping widths under 50mm.

3. When ripping, always use the Rip Fence. This improves the accuracy of the cut, and reduces the chance for saw blade binding.

Crosscuts/Miter Cuts



1. Adjust the miter gauge to the needed angle and place it in the left or right miter gauge groove on the working table.
2. Hold the workpiece against the miter gauge, and slide them together to make the cut. Clamp smaller workpieces to a piece of scrap wood that can reach beyond the miter gauge and hold the scrap against the gauge while making the cut. Keep the clamp clear of the saw blade.

Making a Cut

WARNING! Avoid bevel ripping on beveling side of the saw blade.

WARNING! TO PREVENT SERIOUS INJURY: The tool will restart automatically if stalled.

3. At the start of the cut, the left hand holds the workpiece firmly on the Work Table (and against the Fence, if used), and the right hand, with the aid of a Push-stick, pushes the workpiece toward the turning Saw Blade. Keep both hands out of the path of the Saw Blade.

WARNING! TO PREVENT SERIOUS INJURY:

Throughout the cut, keep all body parts a safe distance from the spinning Blade.

4. After the cut is under way, use the Push Stick to continue guiding the workpiece forward.

Just before the cut is completed, move the left hand safely farther away from the workpiece and the Saw Blade. Continue pushing the workpiece into the Saw Blade with the Push Stick until the cut is complete.

5. Once the cut is complete, continue to maintain control of the workpiece. Turn the Switch off.

Then, wait until the Saw Blade completely stops rotating before removing the workpiece.

6. To prevent accidents, turn off the Table Saw, remove the key and disconnect its power supply after use. Clean, then store the Saw indoors out of children's reach.

5 MAINTENANCE AND SERVICING



Procedures not specifically explained in this manual must be performed only by a qualified technician.



WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:


Do not use damaged equipment.
If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE**, inspect the general condition of the tool. Check for:

- loose hardware
- misalignment or binding of moving parts
- cracked or broken parts
- damaged electrical wiring
- any other condition that may affect its safe operation.

2. **AFTER USE**, wipe external surfaces of the tool with clean cloth.

3.  **WARNING! TO PREVENT SERIOUS INJURY:** If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

6 Customer service

Customer service

When ordering spare parts, please mention:

- The serial number (7 digits).
- The code of the part.
- The exact denomination.
- The number of parts required.
- The delivery address.
- Please indicate clearly the means of transportation required such as "express" or "by air". Without specific instructions, we will forward the parts through the means which seem appropriate to us --- but which is not always the quickest way.

Clear instructions will avoid problems and faulty deliveries.

If not sure, please send us the defective part.

In the case of a warranty claim, the part must always be returned for evaluation.

Spare parts for the motor can be ordered with the manufacturer of the motor or with their dealer, which is often quicker and cheaper.

This machine has been manufactured by: Saint-Gobain Abrasives S.A.
190, Bd. J. F. Kennedy
L- 4930 BASCHARAGE
Grand-duché de Luxembourg.
Tel.: 00352-50 401-1
Fax: 00352- 50 16 33
<http://www.construction.norton.eu>
e-mail: sales.nlx@saint-gobain.com

Spare parts

In order to consult the spare parts lists, we invite you to visit the after-sales website of Norton Clipper by using the following address:

<https://spareparts.nortonabrasives.com>

For a quick access, you can also use the QR Code shown below using your mobile phone:



This electronic catalogue provides exploded views and spare parts lists for different machines designed by Norton Clipper so you can find references you need.

Guarantee can be claimed and technical support obtained from your local distributor where machines, spare parts and consumables can be ordered as well:

SAINT-GOBAIN ABRASIVES
INDUSTRIEWEG 21
9420 ERPE-MERE
BELGIUM
TEL: +32(0) 2 267 21 00

SAINT-GOBAIN CONSTRUCTION
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DIVIZE ABRASIVES
SMRČKOVA 2485/4
180 00 PRAHA 8
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www.nortonabrasives.com/fr-fr