



IGM LAGUNA Fusion 1 Table Saw

Manual



Producer

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151-Fusion1 LAGUNA Table Saw Manual EN v5.02.01 A4ob





EC DECLARATION OF CONFORMITY

We

(Manufacturer) Laguna Tools Inc.

744 Refuge Way, Suite 200, Grand Prairie, TX 75050, USA

Declare that the product name: Table Saw

Model Name: Fusion1. Fusion2 & Fusion3

Conform with the essential safety requirements of the relevant European Directive:

EC-type Examination Certificate of MD (2006/42/EC) for update standards and additional issue Conformity Certificate of LVD (2014/35/EU)

The person who compile technical file established within the EU:

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Mounting and connecting instructions defined in catalogues and technical construction files must be respected by the user.

They are based on the following standards:

EN ISO 19085-1:2021

Woodworking machines - Safety - Part 1: Common requirements

• EN ISO 19085-9:2020

Woodworking machines - Safety - Part 9: Circular saw benches (with and without sliding table)

Responsible for the documentation: Head Product Management, Laguna Tools Inc.

Name : Stephen Stoppenbrink / Chief Executive Officer

Responsibility

Authorized signature .

Date : July 1, 2024

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EN - English

Operating Instructions

Dear Woodworker,

Thank you for your purchase and welcome to the Laguna Tools group of discerning woodworkers. We understand that you have a

choice of where to purchase your machines and appreciate the confidence you have in the Laguna Tools brand. Every machine manufactured by Laguna Tools has been carefully designed and well thought through from a woodworker's perspective. Through hands-on experience, Laguna Tools is constantly working hard to make innovative, precision products. Products that inspire you to create works of art, are a joy to run and work on, and encourage your performance.

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1. Declaration of conformity

We declare that this product is in compliance with the directive and the standard mentioned on the 2. page of this manual.

1.1 Warranty

IGM Tools & Machinery strives to always deliver high-quality machinery. The warranty is governed by the valid terms and conditions of IGM Tools & Machinery available at www.igmtools.com.

2. About manual

This manual is intended to thoroughly cover the setup up, maintenance, and proper adjustments of your new purchase. Aside from the proceeding general safety considerations, this manual DOES NOT cover woodworking or metalworking techniques that are possible with this product and the appropriate safety precautions necessary for safe practices.

There are several organizations with published safe practices, techniques, and proper operation of this tool.

3. Machine Specifications

3.1 Contents

Professional Square Zero Clearance Throat Plate (pre-installed) 250 mm Saw Blade (pre-installed) Riving Knife (pre-installed) Mitre Fence (ships in tool holder) Tool Holder (pre-installed) Fence

Blade Guard Arbor Wrench

Installation and Adjustment Tools



3.2 Technical Data

Power 230 V / 50 Hz / 1 Phase

Motor Type TEFC Capacitor Start AC Induction
Power Input 1450 W
Power Output 1100 W

 Power Output
 1100 W

 Motor Speed
 2850 rpm

 Full Load Amperage
 6,5 A

 Start Capacitator
 200 μF

 Run Capacitator
 35 μF

Switch Type Magnetic with Overload Protection
Power Transfer Single V-Ribbed Belt 142J FJ
Power Cord 2 m / H07RNF

Power Plug Included CEE 7/7 Plug

General

Stand Footprint (LxW) 565 x 520 mm

 Machine Dimensions (LxWxH)
 1550 x 1565 x 1100 mm

 Shipping Dimensions (LxWxH)
 1330 x 700 x 790 mm

 - Cardboard Box
 1330 x 700 x 790 mm

Machine Weight 110 kg Shipping Weight 120 kg

Dust Collection 100 mm, min. 934 m3/h

A-Weighted Sound Pressure Level LpA 72,6 dB
A-Weighted Sound Power Level LwA 88,4 dB

Table Saw Specifics

Blade Diameter 250 mm Blade Bore Diameter 30 mm



Arbor Speed 3800 rpm
Blade Rotation Counter-Clockwise

Max. Rip Capacity 765 mm Right (1320,8 with Extension), 300 mm Left

Max. Depth of Cut at 90° 79 mm Max. Depth of Cut at 45° 56 mm

Blade Tilt 45° Left, 3° Arbor Adjustment

Table Dimensions (LxW)

792 x 1116 mm

792 x 1629 mm

Extension Wing Dimensions (LxW)

792 x 305 mm

Mitre Fence Slot

792 x 305 mm

19 and 23 mm, T-Slot

Rip Fence Type Sliding Cam Action Fully Adjustable

Fence Dimensions (LxWxH) 670 x 80 x 17 mm

Throat Plate Type Professional Square Zero Clearance

Throat Plate Dimensions (LxWxH) 372 x 104,5 x 13 mm

Working Height (Floor to Table) 876 mm

4. General Safety

Warning: Read all safety considerations. Failure to follow this set of guidelines can result in unwarranted damage to the machine and serious injury to the operator and bystanders. Save all warnings and instructions for future reference.

4.1 Intended Use

Table saw and the workpiece guide equipment supplied with it are intended to be used exclusively for the following purposes:

- Laminated and non-laminated board materials (e.g. chipboard, coreboard, MDF board,...)
- Solid wood
- Gypsum plasterboard, Cardboard, Veneer with a suitable clamping device
- Dimensionally stable plastics (thermoset plastics, thermoplastics). Sawing these materials does not normally involve any risks in respect of dust, chips, and thermal degradation products.

Tools:

- The chosen saw blade must be suitable both for the specific work cycle and for the specific material.
- Only circular blades made of tungsten carbide and have a diameter of 250 mm, arbor size 30 mm are allowed to be used.
- Saw blades made of high-alloy high-speed steel (HSS) or chrome are not allowed to be used.
- Saw blades and their fixing devices shall conform to EN 847-1:2013.

Site of installation/use:

- The machine is not suitable for use outdoors, or in rooms that are subject to moisture or the risk of explosions.
- The intended use of the machine involves connection to suitable dust collection.
- The intended ambient temperature used of the machine: +10 °C to +35 °C.
- The intended altitude used of the machine : shall be at altitudes up to 1000 m above mean sea level.
- The intended Relative humidity used of the machine : not exceed 50% at 35°C.
- Intended use also involves compliance with our specified operating, maintenance and repair conditions and the safety information contained in the operating instructions.
- The table saw may only be used, set up and maintained by persons who are familiar with the machine and aware of the dangers.
- The pertinent accident prevention regulations as well as any other generally recognized technical safety and industrial medicine rules must be observed.
- Repair work must be carried out by our own customer service or by an organization that we have authorized. Only original spare parts are allowed to be used for this. we will assume no warranty for any damage that is caused by using non-original spare parts.

Warning: The machine is prohibited to be used in a potentially explosive atmosphere!

4.2 Work Area

- Keep all children and untrained persons away from the machine. Do not allow bystanders to touch the machine or power cord. All people but the operator should be away from the work area.
- Keep work area clean and well lit. A cluttered area can limit the range of motion needed by the machine and cause serious injury to the operator or damage to the machine.
- Make sure the work area is child-proof and inaccessible to untrained persons. Use padlocks where possible and keep all machines unplugged when not in use.
- Do not keep or place tools in outdoor, damp, or dangerous environments. Never operate the tool under wet or damp conditions; there
 is a serious risk of electrical shock. Exposing this product to those environments may result in damage to the tool and operator injury.
 Do not use tool in the presence of flammable liquids or gasses.
- Do not operate machine in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Machine create sparks which may ignite the dust or fumes.

4.3 Personal Safety

- 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.
- Use personal protective equipment. always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- 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 or energizing power tools that have the switch on invites accidents.
- 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.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.



- 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.
- 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.
- Know your machine. Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.
- Use safety goggles. Some machines require additional face shielding than offered by safety goggles alone. Know your machine and the proper PPE to use.
- Use ear protection. Some machines operate at very high noise levels. To prevent harm, be sure to use ear protection always.
- Guard against electric shock. Prevent all bodily contact with grounded surfaces and parts of the machine that pose electrical threats.
- Avoid accidental starting for machines without magnetic or automatic shut-off switches. Make sure the tool is in the off position prior to plugging it in.
- Keep guards in place. Machine parts like riving knifes, blade guard, cutter-head guards, feather boards, push sticks, etc. are designed to minimize possible injury. Keep those parts in place unless a safer means of operation is available.
- Be alert always and give 100% of your attention to the operation of this tool. Failure to do so can result in serious injury to both the operator and bystanders.
- Do not rely on guards. The operator of this tool is 100% responsible for his/her own safety. The guards and safety components sold with this machine are not enough to ensure safety.
- Check for damaged parts. Before every use of this tool, makes sure the machine and any components of the machine are not damaged or at the risk of being damaged. If a damaged part is discovered, stop immediately and put the machine out of service until the part is replaced.
- Warning: All repairs should be done by trained repairmen. Contact your supplier or a competent repair service.
- Warning: Use only supplier Tools or compatible and marked replacement parts. All others may cause damage or harm.
- Warning: Use only manufacturer-recommended accessories. Some accessories may cause damage or harm.

4.4 Tool Use

- 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.
- 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.
- 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.
- 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.
- 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.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 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
- 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.
- Use proper speed. A machine will do a better and safer job when operated at the proper speed.
- Use the correct tool for the job. Know the limitations and capabilities of your new purchase. Do not try to "fit a square peg in a round hole.
- Secure the work piece. For all woodworking and metalworking applications, the workpiece should be secured correctly by the operator using appropriate clamps and vises. Always use a clamp or vise when available it is safer than using your hands.
- Feed direction. If feed rate is applicable, then there is only one direction of feed rate for the tool. Do not force the workpiece in the wrong feed direction.
- Never leave tool running unattended. Do not leave the tool until it comes to a complete stop. When unattended, unplug the tool.
- Maintain tools with care. Keep cutting tools sharp and clean for better and safer performance.
- Follow instruction for lubricating and changing accessories. Inspect tool cords periodically and if damaged have then repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keep hand dry, clean and free from oil and grease.
- Illumination. Adequate general or localized lighting shall be provided.
- Dust Collection. During use the saw benches shall be connected to an external chip and dust extraction system.

4.5 Guarding related warnings

- 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.
- Always use saw blade guard and riving knife for every through—cutting operation. For through-cutting operations where the saw blade cuts completely through the thickness of the workpiece, the guard and other safety devices help reduce the risk of injury.
- 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.
- 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.
- For the riving knife to work, it must be engaged in the workpiece. The riving knife is ineffective when cutting workpieces that are too short to be engaged with the riving knife. Under these conditions a kickback cannot be prevented by the riving knife.
- 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.

4.6 Work related warnings



- 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.
- Feed the workpiece into the saw blade or cutter only against the direction of rotation. Feeding the workpiece in the same direction that the saw blade is rotating above the table may result in the workpiece, and your hand, being pulled into the saw blade.
- Never use the mitre fence to feed the workpiece when ripping and do not use the rip fence as a length stop when cross cutting with the mitre fence. Guiding the workpiece with the rip fence and the mitre fence at the same time increases the likelihood of saw blade binding and kickback.
- When ripping, always apply the workpiece feeding force between the fence and the saw blade. Use a push stick when the distance between the fence and the saw blade is less than 150 mm, and use a push block when this distance is less than 50 mm. Work helping devices will keep your hand at a safe distance from the saw blade.
- 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.
- Never use a damaged or cut push stick. A damaged push stick may break causing your hand to slip into the saw blade.
- Do not perform any operation "freehand". Always use either the rip fence or the mitre fence to position and guide the workpiece.
 "Freehand" means using your hands to support or guide the workpiece, in lieu of a rip fence or mitre fence. Freehand sawing leads to misalignment, binding and kickback.
- Never reach around or over a rotating saw blade. Reaching for a workpiece may lead to accidental contact with the moving saw
- 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.
- 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.
- 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.
- Use an auxiliary fence in contact with the table top when ripping workpieces less than 2 mm thick. A thin workpiece may wedge under the rip fence and create a kickback.

4.7 Kickback causes and related warnings

- 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.
- 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.
- 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.
- Align the fence to be parallel with the saw blade. A misaligned fence will pinch the workpiece against the saw blade and create kickback
- Use extra caution when making a cut into blind areas of assembled workpieces. The protruding saw blade may cut objects that can cause kickback. Note, the above safety warning only applies to tools where such cuts are permitted by design and instruction.
- Support large panels to minimise the risk of saw blade pinching and kickback. Large panels tend to sag under their own weight.
 Support(s) must be placed under all portions of the panel overhanging the table top.
- Use extra caution when cutting a workpiece that is twisted, knotted, warped or does not have a straight edge to guide it with a mitre fence 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.
- Never cut more than one workpiece, stacked vertically or horizontally. The saw blade could pick up one or more pieces and cause kickback
- When restarting the saw with the saw blade in the workpiece, centre 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.
- Keep saw blades clean, sharp, and with sufficient set. Never use warped saw blades or saw blades with cracked or broken teeth.
 Sharp and properly set saw blades minimise binding, stalling and kickback.

4.8 Table saw operating procedure warnings

- 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 or saw blade guard, and when the machine is left unattended. Precautionary measures will avoid accidents.
- 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.
- 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.
- Frequently clean and remove sawdust from under the saw table and/or the dust collection device. Accumulated sawdust is combustible and may self-ignite.
- The table saw must be secured. A table saw that is not properly secured may move or tip over.
- Remove tools, wood scraps, etc. From the table before the table saw is turned on. Distraction or a potential jam can be dangerous.
- Always use saw blades with correct size and shape (diamond versus round) of arbour holes. Saw blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.
- 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.
- 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.
- Make sure that the saw blade is installed to rotate in the proper direction. Do not use grinding wheels, wire brushes, or abrasive wheels on a table saw. Improper saw blade installation or use of accessories not recommended may cause serious injury.

4.9 Electrical

- Machine 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.

- Disconnect the power first. Always disconnect machine from power supply before adjusting, changing tooling, or servicing machine
- Power supply: 230V/50Hz/1 phase.
- Use a qualified electrical for all electrical connections. Failure to do so may result in damage to the tool and electrical shock to the operator and bystanders.
- Power plugs. Your machine may not come with a power plug because of the variance in power receptacles. Consult with a local electrician prior to purchasing a power plug.
- 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.
- Extension cords. Consult with or use a qualified electrician prior to sizing extension cords for use with this machine.
- 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.
- If operating a power tool in a damp location is unavoidable, use a residual current device (rcd) protected supply.
- Electrical protection. End user should connect the machine to a circuit protected with an overvoltage protection.

4.10 Grounding

- Proper grounding of your machines lowers the risk of injury by electricity.
- 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.
- Do not modify the plug. Do not remove any of the prongs attached to the proper plug for the machine.
- Use only 3-wire extension cords.
- Some extension cords only have two wires, which does not allow for grounding.
- Always use grounded connections and work only on a grounded circuit.

4.11 Rulings

Warning: Before connecting this tool to a power supply (receptacle, outlet, etc.) Make sure that the voltage supplied is the same that is specified on the nameplate of the tool. Also make sure that the power supply is equipped with the appropriate breaker and plug according to your local electrical code. If in doubt, do not plug in the machine. Using this tool with a voltage different than that stated on the nameplate can damage the electrical components of this machine and any such damage will not be covered by a warranty.

Warning: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paint.
- Crystalline silica from bricks, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk of exposure varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment, such as face or dust masks that are specifically designed to filter out microscopic particles.

4.12 Notice on safe use

The machinery sold by Laguna Tools, distributed by IGM Tools and machinery co., are safe when used properly and comply to with the CE norms, standards and regulations for safe use. Laguna Tools or IGM is in no way responsible for injury or death that occurs while using this product. Your personal safety is 100% your responsibility and using this product requires 100% of your attention.

If there is any concern related to the application you are intending to use this tool for, DO NOT proceed until you have contacted the retailer you purchased it from and have been advised on the correct application of the product.

This manual is intended to thoroughly cover the setup up, maintenance, and proper adjustments of your new purchase. Aside from the proceeding general safety considerations, this manual DOES NOT cover woodworking or metalworking techniques that are possible with this product and the appropriate safety precautions necessary for safe practices. There are several organizations with published safe practices, techniques, and proper operation of this tool.



Warning

The symbols below advise that you follow the correct safety procedures when using this machine.



Keep your fingers away from the saw blade.



Environmental protection: Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local Authority or retailer for recycling advice.



Dusk mask should be worn.



Eye protection should be worn.



Ear protection should be worn.



Disconnect from power supply before servicing.



Fully read manual and safety instructions before use.

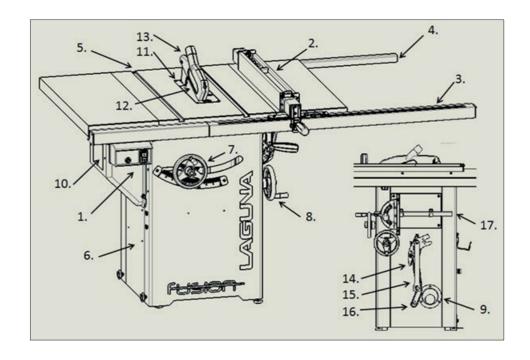


Safety gloves should be worn.

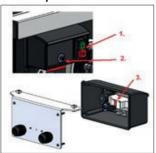


5. Machine Overview

- 1. Start / Stop
- 2. Rip Fence
- 3. Fence Front guide
- 4. Fence Rear guide
- 5. Table with mitre slots
- 6. Cabinet with integrated mobility kit
- 7. Arbor height adjustment control
- 8. Arbor tilt adjustment control
- 9. Dust extraction outlet
- 10. Moror cover
- 11. Throat plate
- 12. Blade
- 13. Blade guard
- 14. Riving knife
- 15. Arbor wrench
- 16. Push stick
- 17. Mitre fence



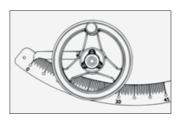
5.1 Controls Start/Stop/Fuse



- Magnetic switch
 Overload protector

CAUTION: Always turn off and unplug the machine before changing the fuse.

Arbor height control



The arbor height control adjusts the height of the blade. Behind the control is the tile gauge. Clockwise to raise, counter-clockwise to lower blade.

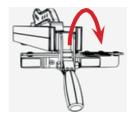
Arbor tilt control



The tilt control, located on the right of the cabinet, adjusts the tilt of the arbor. Clockwise to tilt left, counter-clockwise to tilt the blade to the right.



Fence clamp lock



The fence clamp securely locks the fence anywhere on the rail by a cam action mechanism.

6. Setup

Use Caution: Your new Laguna Tools machine is heavy. Use a minimum of two people when lifting the tool into position and moving the tool into position.

Warning: DO NOT connect to a power supply until the setup is complete. DO NOT perform any of the following steps, installations, or adjustments with the saw connected to the power source.

Warning: To avoid set-up problems, to prevent potential damage to the machine and personal injury, read through the entire setup section prior to setting up the machine.

6.1 Receiving and unpacking

If any damage has occurred because of shipment, note the damage on the bill of lading or refuse the shipment. Immediately call the dealer store where the machine was purchased.

TRANSPORTATION AND STORAGE. The measures of anti-rust and shockproof should be taken during packing. The machine endures transportation and store in -25~55°C ambient temperature. Be careful not to expose the machine to rain or damage when transporting or storing.

While transporting or handling the machine, be careful and let the activity be done by qualified personnel especially trained for this kind of activity!

While the machine is being loaded or unloaded, make sure that no person or subject gets pressed by the machine! Select proper transportation device according to the weight of the machine. Make sure the lifting capacity of transportation device is competent for the weight of the machine.

TRANSPORTATION BEFORE UNPACKING

As standard, the machine is packed in a robust wooden box. Pic shows a vehicle that can be used to transport the packaging.



UNPACKING

- 1. Receive your table saw.
- 2. Unscrew the crate fasteners.
- 3. Lift crate off pallet.
- 4. Check Inventory.
- 5. Wipe off protective oils.

Receiving your table saw



This is how machine is shipped from the factory.

Lift the saw out of the box

Use two persons to lift the saw out of the box. There are accessories supplied with the table saw. Carefully remove the accessories stored in styrofoam and the saw body before lifting the table saw out of the box.

Check Inventory

- 1. Fence, install tools, push stick, blade guard assembly
- 2. Smaller fence rail sections, hardware kit
- 3. Longer fence rail sections.



Wipe off protective layer



Peel back the protective layer and wipe away the oil with a waste rag.

Use caution: An oily rag can be a serious fire hazard. Discard in an appropriate manner.

Tech Tip: To help keep your table top clean and to prevent or clean any rust, we recommend waxing your tabletop with an appropriate wax rubbing compound. This will also reduce friction under operation. Rust can be removed with WD-40.

Note: Cast iron and steel parts of the machine are treated with preservative oil against corrosion, before putting the machine into operation it is necessary to degrease all these parts of the machine with technical grade alcohol or technical gasoline.

6.2 Inventory

Fence

Push stick

Blade guard

Install Tools

Fence hooks (Fence storage hooks may be pre-installed.)

Rear Rail 2

Front Rail 2

Hardware kit

Rear Rail 1

Front Rail 1

Pre-installed on machine

Throat plate

Riving knife

250mm blade

Mitre fence

Arbor wrench Tool storage

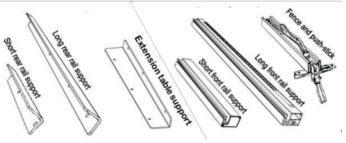
Wings (2x)

Note: The front rail part number is comprised of two pieces – both long and short. The rear rail part number is comprised of two pieces – long and short.

Note: For safety reasons, this machine is not sold with a tape-rule for the left side of the blade. It is not a missing part.

6.3 Loose Parts & Overview

Your new machine has been mostly assembled at the certified ISO 91001 factory where it was made. Some parts must be assembled by the purchaser. Please read all steps first before proceeding with step one.



Blade Guard



M8x1.5 + lock washer + washer + nut





Square head 8x1.5 + washer + nut



Fence hooks (step 2)

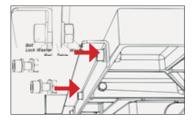


6.4 Machine Setup

- 1. Assemble the base
- 2. Attach extension wings.
- 3. Attach the short rear fence support
- 4. Attach the long rear fence support
- 5. Level the rear rails and fasten
- 6. Attach T-Slot bolts to front table
- 7. Insert long front rail fence support
- 8. Insert short front rail and switch
- 9. Join front fence supports
- 10. Align the entire front rail to blade mark
- 11. Level and fasten the front rail
- 12. Insert fence
- 13. Level the saw by adjusting casters
- 1. Assemble the saw base, which consists of four parts. Connect the parts and fit the legs to the bottom of the base. Mount the top base plate and attach the table saw to the base.
- 2. Attach extension wings next to the cast iron table.

3. Attach short rear fence support

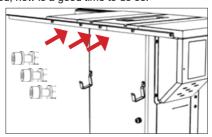
Use the supplied wrench and Alan key to loosely fasten (2) bolts, lock washers, washers, and nuts to the short rear fence guide and the back left of the table. STOP BEFORE TIGHTENING: Keep bolts loose until entire rail assembly is in place to properly level rail.



4. Attach long rear fence support

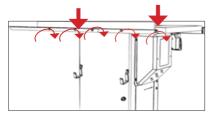
Repeat step 1 for the longer rear fence section with (3) bolts, lock washers, washers, and nuts. Use the same assembly diagram in Step 1.

NOTICE: If the fence hooks are not yet installed, now is a good time to do so.



5. Level the rear rails and fasten

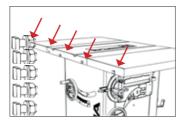
To level the rear fence with the table top, place a rigid straight edge on top of the rails. Apply downward force at both arrow indicators and simultaneously tighten the bolts with the supplied Allen key and wrench.



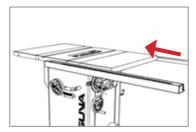
6. Attach T-slot bolts to front table



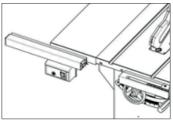
Loosely fasten the (5) square headed bolts, (5) washers, and (5) nuts. A couple revolutions of the bolt will be tight enough. Prepare to insert the (2) aluminium front rail sections.



7. Insert the long front fence support Insert the long Front Rail. STOP BEFORE TIGHTENING: Keep these bolts loose until the entire rail assembly is in place to properly level the rail.

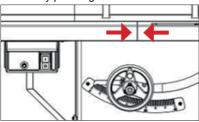


8. Insert short rail and switch Insert the short front rail into the first square head bolt. IMPORTANT: Insert the switch assembly before joining the two front rail. STOP BEFORE TIGHTENING.



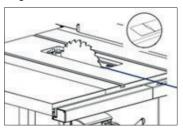
9. Join front fence supports

Align the pins and join the two front rail pieces and firmly push together.



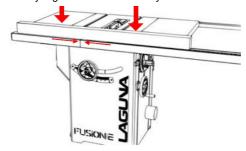
10. Align the front rail with blade

Using the blade notching on the measuring tape, align the entire front rail section to the blade.



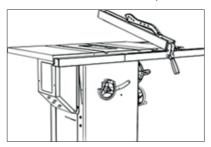
11. Level and fasten front rail

To level the front rail sections to the table top, use a ridged straight edge atop the loosely fit rail sections. Apply downward force to the straight edge while keeping the two sections firmly together. Simultaneously fasten down the bolts.



12. Install the fence

Install the fence by placing the front end first. Be sure that the handle is in the open, unlocked, position prior to installing.



13. Level the table saw with casters and fix

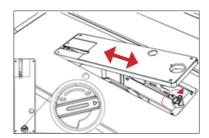
Level the table saw with the ground and fix the machine on the floor with screws.

6.5 Installing/removing the throat plate

- 1. Unplug the table saw!
- 2. Insert the throat plate back end first.
- 3. Lower the throat plate to the table.
- 4. Lock the throat plate with the thumb-lock.
- 5. Level the throat plate with the table using the cat screws.

Note: This machine is shipped with a zero-clearance throat plate that has already been cut at the factory. Because of this, there may be some residue already in the saw.

Installing the throat plate



WARNING: MAKE SURE SAW IS UNPLUGGED. To remove or install the throat plate, first set it to the unlock position. Then, insert the rear end first and tilt the other end down into position.

Levelling the throat plate



To level the throat plate, adjust the leveling screws.

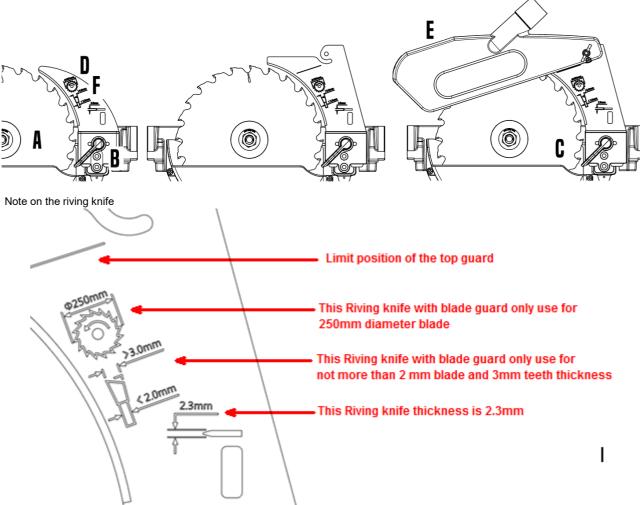
Note: Make sure the throat plate is lower than the cast iron table. Having the throat plate higher at any position can interfere with the workpiece feed and cause injury or harm and increase the chance of kickback.

6.6 Installing/removing safety accessories

A: Saw blade

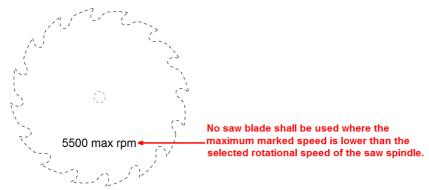


- B: Riving knife housing
- C: Cam action lever
- D: Riving knife
- E: Blade guard
- F: Blade compliant markings



Warning: Since Riving Knife, other than those offered by Laguna, has not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only Laguna, recommended accessories should be used with this product.

Note on the blade



Installing the riving knife

- 1. Unplug the table saw!
- 2. Make sure the lock is in open position.
- 3. Insert the riving knife with blade guard.
- 4. Make sure the riving knife is correctly positioned.
- 5. Lock the riving knife.
- 6. Reinstall throat plate.

CAUTION: Make sure the blade guard is in line with the blade. If it is not in line, please see the Adjustment section.

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3. Insert the riving knife



WARNING: MAKE SURE SAW IS UNPLUGGED. With the throat plate removed, and the cam lock mechanism in the open position (pulled up), insert the riving knife into the slot.

4. Position to the left of casing



Carefully insert the riving knife into the slot and push down. Make sure the knife is positioned correctly and seated in the bottom of the casing. Grasp the knife with one hand, leaving the other hand free to activate the cam action lock.

5. Lock the gray lever



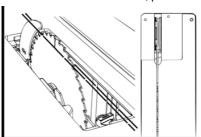
Keep firm hold of the blade guard with left hand and engage the cam lock with the thumb of your right hand.

6. Reinstall the throat plate



Grasp the blade guard and insert the throat plate. Lock the throat plate.

CAUTION: Make sure the riving knife is in-line with the blade. If it is not in line, please see the Adjustments section.



6.7 Installing the Blade

- 1. Unplug the table saw!
- 2. Remove any blade guards, riving knifes and the throat plate to access the blade.
- 3. Set the arbor tilt to 0 degrees and lock.
- 4. Raise saw blade to highest position.



- 5. Engage blade lock (red lever).6. Remove the arbor nut.
- 7. Remove or install blade.

CAUTION: Make sure the teeth of the blade are facing the front of the saw as shown.

2. Remove all accessories



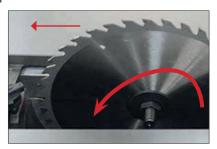
WARNING: MAKE SURE SAW IS UNPLUGGED. To access the blade remove all accessories around the blade.

3. Set arbor tilt to 0 and lock.



Set the arbor tilt to 0 degrees and lock the arbor to prevent it from moving when installing or removing blades.

4. Raise the saw blade to the highest position



5. Engage the blade lock



6. Remove arbor nut and flange



7. Adjustments

Your Laguna Tools machine comes fully adjusted from the factory, but it is good practice to double check these adjustments and make sure the tool is in safe operating condition.

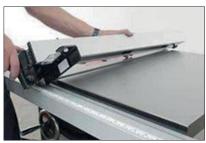


7.1 Rip fence Adjustments

Fitting the fence:

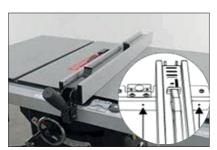
You will need to fit the fence to the right side of the blade to use the table saw. You will need to fit the fence to the right side of the blade to use the table saw.

- 1. Unplug the table saw!
- 2. Hold fence with both hands, with cam lock up.
- 3. Place fence in fence guide.
- 4. Check cam lock action, adjust if necessary.
- 3. Place fence in fence guide



While holding the fence and the cam lock, raise the cam lock to engage the open position. Insert the fence frame into the front rail.

4. Check cam lock action



The fence can slide freely in any position to the right of the blade. If the fence does not lock, adjust both blade paralleling set screws.

Adjusting the scale (rip fence):

The scale will need to be "zeroed" every time the fence guide is taken off the table or adjusted. The fence must be zeroed for accurate cuts.

- 1. Unplug the table saw!
- 2. Position the fence up to blade.
- 3. Loosen the transparent viewport.
- 4. Adjust the view as needed.
- 5. Tighten the view screws.
- 2. Place fence in fence guide



WARNING: MAKE SURE SAW IS UNPLUGGED. With the blade in a high position, bring the fence close to - but not touching - the blade. Use a folded piece of paper between the blade and the fence to ensure good distance.



4. Adjust the viewport



Use a #2 Philips head driver to loosen (but do not remove) the transparent scale reader. Adjust the viewport as needed, tighten the screws. Note: If adjusting the viewport does not allow enough to zero the scale, see step 8 of machine setup.

Note: There are 2 viewports on the rip fence to adjust material width according to the position of the aluminum profile - vertically or horizontally.

Adjusting the fence glide bushings:

You may need to adjust glide bushings on the rip fence. The fence should be between 1-3 mm off the table to prevent scratches and any thin stock to slip through.

- 1. Unplug the table saw!
- 2. Unlock the fence.
- 3. Use a hex key to adjust height of the front part of the fence.
- 4. Use a wrench to adjust height of the rear part of the fence.
- 3. Front glide bushings



To adjust the front bushings, use the included hex key to raise or lower the nylon bushings that make contact with the front fence rail.

4. Rear guide bushings



To adjust the rear bushing, loosen the hex nut that locks the height position of the bushing. Adjust the position and tighten the hex nut.

Adjusting the fence to be parallel with the blade:

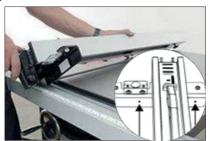
It is very important to only operated this saw with the blade parallel to the fence. Note: If this section does not help, please see the section Table adjustments: Adjusting the table to be parallel with the blade. The blade needs to be parallel to the table (mitre slots) to effectively make the fence parallel to the blade.

- 1. Unplug the table saw!
- 2. Position the fence to access the fence adjustment screws.
- 3. Use a hex key to adjust each side.
- 4. Make small increments and check.

Use caution: It is not guaranteed that the fence will be parallel to the saw blade when shipped from factory. Make sure to make all required adjustments to make the fence parallel to the saw blade prior to operation.



2. Position fence to access adjustment screws



WARNING: MAKE SURE SAW IS UNPLUGGED. Take the fence out of position and flip it on its back side to access the cat screws that push the nylon supports in/out.

3. Use a hex key to adjust



Use the included hex key to adjust the depth of each nylon support. Do small increments and check.

7.2 Mitre fence setting

The mitre fence can be set from +60° to -60°. You can set the desired cutting angle by releasing the handle and loosening the control screw on the front of the fence. There are notches in the fence bar for commonly used angles.

7.3 Table Adjustments

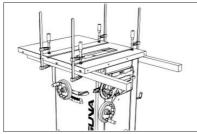
Adjusting or installing extension wings:

To install or remove the extension wings, follow steps below. This method makes it easy to make the extension wings flat with the table but requires the use of two ridged supports and four clamps.

- 1. Unplug the table saw!
- 2. Clamp supports to table.
- 3. Place extension wing on supports.
- 4. Join or adjust the wing.

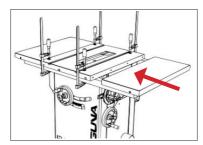
Note: The clamps may scratch the table! Use a cloth or soft wood between the clamp and table. Use a cloth or soft wood between the clamp and the iron surfaces.

2. Clamp support to the table



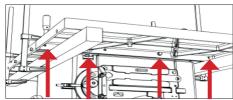
WARNING: MAKE SURE SAW IS UNPLUGGED. Clamp two wooden supports to the underside of the table saw as shown. Use solid, straight boards.

3. Place extension wing on supports



Place the extension wing on the supports and place into position.





You will need (4) M10 bolts and (4) washers to fasten each extension wing to the table. Be sure to align the extension wing to the table prior to tightening the bolts.

7.4 Arbor and tilt adjustments

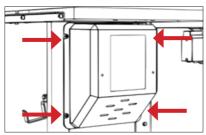
Adjusting the Blade Tilt Limits

You can check the arbor (blade) tilt limits with an angle finder or 45-degree triangle. If these limits are not within 0 degrees and 45 degrees, use the following steps to adjust.

- 1. Unplug the table saw!
- 2. Remove the motor cover.
- 3. Remove the tool storage cover.
- 4. Locate tilt adjustment screws.
- 5. Adjust as needed.
- 6. Adjust the scale and indicator as needed.

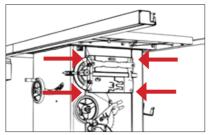
Use caution: From the factory, the tilt limits are pre-set to 0 and 45 degrees tilt to the left. Adjusting this limit will slightly alter that amount which may cause throat plate or fence to interfere. Adjusting these limits should only be done to set the tilt limits to 0 and 45 degrees.

2. Remove motor cover



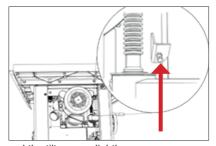
WARNING: MAKE SURE SAW IS UNPLUGGED. To access the left side tilt limit adjustment screw, remove the motor housing cover using a #2 Philips head driver. There are 4 screws in total holding on the motor cover.

3. Remove tool storage cover



To access the right-side tilt adjustment screw, remove the tool storage using a #2 Philips head driver. There are 4 screws in total holding on the tool storage box.

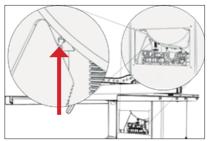
4. Locate tilt adjustment screw



 $\label{locate tilt adjustment screw. Screw it in to expand the tilt range slightly.$

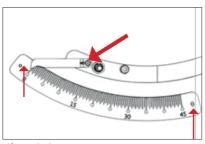
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5. Adjust as needed



Locate the tilt adjustment screw. Screw it in to expand the tilt range slightly.

6. Adjust scale (if needed)



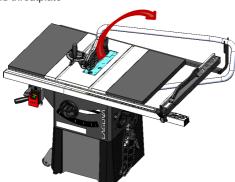
Adjust the scale and tilt indicator on the cabinet if needed.

Changing the belt:

- Unplug the table saw!
 Remove all throatplates and blade guard with the hose.
- 3. Remove saw blade.
- 4. Remove tool storage.
- 5. Remove dust hood.
- 6. Remove fixing plate.
- 7. Turn arbor height control to remove the belt.
- 8. Reverse the steps and reassemble.

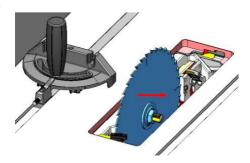
Use Caution: DO NOT OVERTIGHTEN BELT! The weight of the motor is adequate to put enough tension on the belt. Only tight enough to prevent slippage.

2. Remove blade guard, hose assembly and throatplate



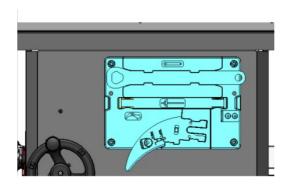
WARNING: MAKE SURE SAW IS UNPLUGGED. AVOID removing the table top. The belt can easily be changed without removing the table top.

3. Loosen the nut and remove saw blade.

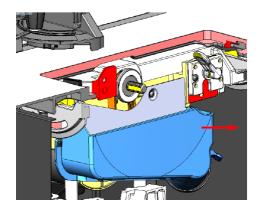




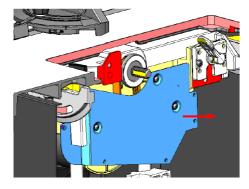
4. Remove tool storage.



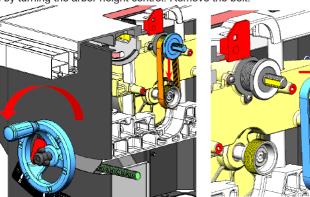
5. Remove dust hood



6. Remove fixing plate



7. Lower the arbor about 50 mm by turning the arbor height control. Remove the belt.

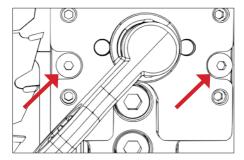


8. Place the belt on the upper arbor and drive it upwards to prevent the belt from falling out. It is now easier to reach the lower arbor. Rotate the arbor to gradually thread the belt onto the lower arbor. When fitted, reverse the steps and reassemble.

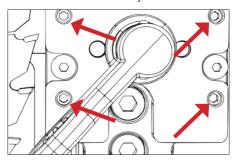
7.5 Accessory adjustments Insert block adjustments (For all Safety Accessories):

The Riving knife, blade guard, or splitter must be aligned with the blade to be used affectively. The riving knife should only be used with blades specified on the riving knife. To adjust the position of the blade safety attachments, relative to the saw blade: NOTE: Ff the cam action lever does not lock or is too hard to lock, adjust the nut on the back side of the cam action axil. You will need to remove the motor cover.

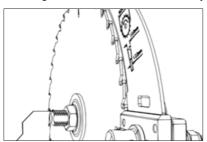
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Loosen the two middle setting bolts. These two bolts fasten the assembly in-between the set screws and the arbor block.



Adjust the set screws as needed to correct an out of align blade attachment. Do small adjustments and check.



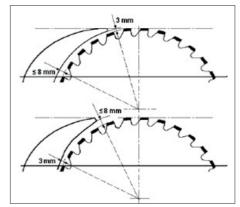
As adjustments are made, the blade attachments will translate, not rotate, by design. This ensures that the workpiece will not get held up. CHECK COMPONENTS BEFORE EVERY CUT.

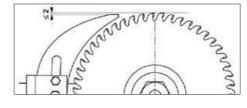
Riving knife adjustments:

After changing a saw blade, always check that the riving knife is correctly set! The distance of the riving knife from the gear rim must be between 3 mm and 8 mm. The highest point of the riving knife must be set at least 2mm beneath the topmost tooth. The riving knife must be at least 0,2 mm thicker

than the main saw blade.

Check that the saw blade clamping system is tight before operating the machine!





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Dust collection:

There is a 100 mm dust outlet located on the lower side of the saw cabinet allowing for an extraction hose connection to a dust collector (not included). User must wear dustproof mask. Fit the 100 mm extraction hose over the dust port and secure in place with a hose clamp. Make sure the hose cannot come off.

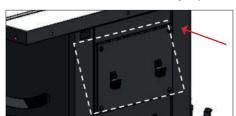


Required air flow: 934 m3/h Recommended pressure: 1500 Pa

Warning: Always turn on the dust collector before starting the saw and stop the saw before turning off the dust collector. A tight fit is necessary for proper

performance.

Warning: Always turn off the table saw before removing any cover of the machine.

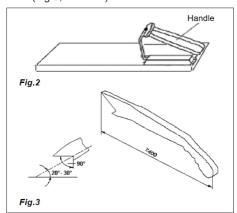




Remove the side cover to clean dust and debris from dust hood.

7.6 Push block and push stick

A push block (Fig.2, not included) and push stick (Fig.3, included) must be used when working.



If the workpiece is less then 120 mm wide, use the push stick as a safety measure. Push block should be used to cut narrow workpieces and to push the workpiece against the fence. A push block can be made by the operator as Fig.2.

Warning: Use only the push stick provided by the manufacturer or constructed in accordance with the manual. A push stick protects your hand from touching the saw blade.

Warning: Never use a damaged or cut push stick. A damaged push stick may break causing your hand to slip into the saw blade.

8. Types of cut

Warning: Always wear safety glasses, a respirator and hearing protection when operating this machine. This saw is only designed to cut wood.



8.1 Ripping



Cutting a wood plank or sheet of plywood lengthwise to reduce its width is called "ripping". To rip stock, hold the work with both hands pushing it into the blade as well as firmly against the fence so that it is cut straight.

Never rip or cut wood without using the rip fence or mitre fence to guide it because the stock could kick back.

Always use the blade guard and riving knife. The riving knife prevents the saw "kerf" (the slit cut by the blade) from closing and binding the blade, which can overload the motor or cause kickback. The blade guard keeps your fingers away from the blade and also reduces the amount of sawdust flying free.

Some jobs may require removing the riving knife along with the cover. Do not forget to put them back when you are done.

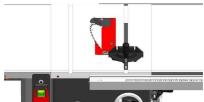
As you complete the cut, the wood will either remain on the table, tilt up to be caught on the end of the guard, or fall onto the floor (or outfeed table). The waste part of the stock remains on the table to be removed only after the saw is stopped (unless it is large enough for immediate safe removal).

If the work to be ripped is narrow, it is safer to use a push stick, rather than the hands, to feed it into the blade. Push sticks with non-slip grippers can be purchased, but a shop-made one works just as well. When ripping extremely narrow or very thin stock, a strip of wood as an auxiliary guide can be attached to the fence.

WARNING: Keep the blade guard installed and in the down position. Failure to do this could result in serious personal injury or death. WARNING: Never reach in towards the blade while the blade is still spinning! Whenever a rip cut is completed, turn off the saw and wait for the blade to come to a complete stop before reaching in to remove the workpiece or the waste material.

8.2 Bevel ripping

Bevel ripping is performed the same as ripping but with the saw blade set to an angle. You can tilt the blade to the left, anywhere between 0° and 45°. This is used most often when cutting bevels, compound mitres or chamfers.



After changing the bevel angle verify the alignment of the guard and splitter; make sure there is clearance with the saw blade.

Digital read-out calibration

Step 1: Set the wheel perpendicular to the table. There is 0° on the scale. Press ZERO to reset, 0.0 will be displayed.

Step 2: Turn the wheel to set 45°, press and hold the SET button.

Step 3: While holding SET, press and hold ZERO for 3 seconds. When the ZERO button is released, 45° is displayed.

8.3 Ripping small workpieces

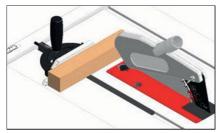
Do not attempt rip cuts if the work piece is too small, as this will oblige you to place your hands too close to the blade and put you at serious risk of injury. When ripping narrower widths; use a push block or a push stick in order to avoid placing hands near the blade.

8.4 Cross cutting

Cutting against the grain, to shorten the length of a board is crosscutting.

With some smaller sized and rectangular pieces, you often have the choice of ripping or crosscutting. Always use the mitre fence when crosscutting; never cut a piece unsupported. The mitre fence may be used in either slot, but most operators prefer the left slot. When the blade is tilted for bevel cutting, use the table slot that does not cause interference with the saw blade guard.



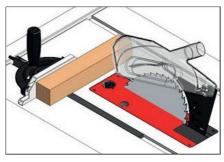


To begin crosscutting, place the workpiece against the mitre fence and, with the motor OFF, slide it up close to the blade to align the outer edges of the teeth with your cut mark (see pic). Keep a firm grip as you pull the mitre fence and the wood back away from the blade. Lower the blade guard, turn on the saw and make the cut. When the work is cut through, move one or both cut pieces.

Warning: When cross cutting round stock it is necessary to secure the workpiece against rotation by using a suitable jig or holder and to use a suitable saw blade.

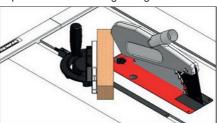
8.5 Bevel cross cutting

This procedure is the same as cross cutting except that the blade is set to an angle. After changing the angle, verify the alignment of the guard and riving knife.



8.6 Mitre cuts

This operation is the same as cross cutting, except the mitre fence is set to an angle. Hold the work piece firmly against the mitre fence and feed the workpiece slowly into the blade to prevent it from moving during the cut.



9. Maintenance

To keep you Laguna Tools machine in top performance for many years please follow this maintenance schedule and refer to any instructions.

Check daily for:

- Loose mounting bolts
- Damaged saw blade
- Damaged riving knife or blade guard
- Worn or damaged wires
- Any other unsafe condition

Check weekly for:

- Clean table surface and mitre slot
- Clean cast-iron parts
- Clean rip fence

Check monthly for:

- Dust buildup from inside cabinet and off motors.
- Belt for proper tension, damage or wear.

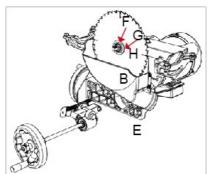
Every 6-12 Months:

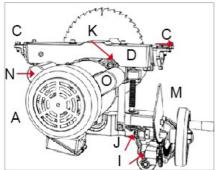
- Lubricate trunnion slides.
- Lubricate worm gear.
- Lubricate leadscrew.
- Lubricate gearing and gearboxes.



9.1 Internal Components Map

- A. Motor B. Dust Shroud
- C. Trunnion Slides (Support)
- D. Upper Trunnion
 E. Lower Trunnion
- F. Arbor Nut
- G. Arbor Washer (Flange)
- H. Blade
- I. Tilt Gearing
- J. Height Gearing
- K. Belt
- L. Worm Screw
- M. Tilt Plate
- N. Start Capacitor
- O. Run Capacitor





10. Trouble-Shooting

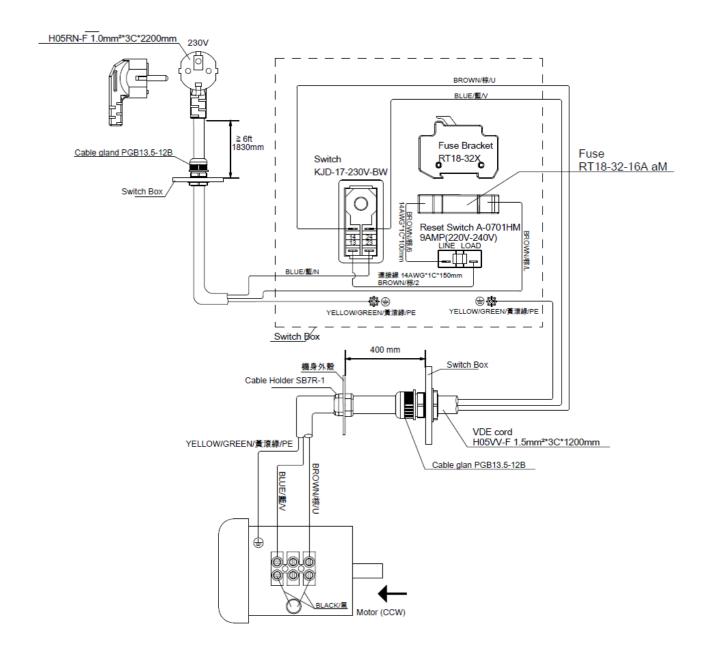
10. Trouble Chicothing	
Machine will not start or continues to trip the breaker. Possible Causes 1. Start capacitor at fault. 2. Motor connection wired wrong. 3. Wiring at fault. 4. Motor Start/Stop switch at fault. 5. Motor at fault. 6. Run capacitor at fault. 7. Wall circuit breaker tripped or at fault. 8. Power supply switched OFF or at fault. 9. Plug/receptacle at fault or wired incorrectly. Machine is excessively loud or is experiencing excessive vibration. Possible Causes 1. Motor or component loose 2. Blade at fault 3. Motor mount loose/broken 4. Machine incorrectly mounted 5. Arbor pulley loose 6. Belts worn or loose 7. Pulley loose or at fault 8. Arbor bearings at fault 9. Motor bearings at fault	Possible Solution 1. Test/replace if faulty. 2. Correct motor wiring connections. 3. Check/fix broken, disconnected, or corroded wires. 4. Replace switch. 5. Test/repair/replace. 6. Test/replace if faulty. 7. Ensure circuit size is correct/replace weak breaker. 8. Ensure power supply is on/has correct voltage. 9. Test wires and contacts; correct the wiring. Possible Solution 1. Inspect/replace damaged bolts/nuts, and re-tighten with thread-locking fluid. 2. Replace warped/bent blade; re-sharpen dull blade. 3. Tighten/replace. 4. Tighten mounting bolts; relocate/shim machine. 5. Retighten/replace arbor pulley. 6. Adjust tension of/replace belt 7. Realign/replace shaft, pulley, setscrew, and key. 8. Replace arbor housing bearings; replace arbor. 9. Test by rotating shaft; grinding/loose shaft requires bearing replacement.
Machine trips the overload, or feels underpowered during operation. Possible Causes 1. Feed rate/cutting speed too fast 2. Workpiece material unsuitable for machine 3. Pulley/sprocket slipping on shaft 4. Motor bearings at fault 5. Contactor at fault 6. Motor overheated 7. Workpiece crooked; fence not aligned 8. Machine undersized for task; wrong blade 9. Run capacitor at fault 10. Belt is slipping from pulley 11. Motor wired incorrectly 12. Plug/receptacle at fault 13. Motor at fault	Possible Solution 1. Decrease feed rate/cutting speed. 2. Only cut wood; ensure moisture is below 20%. 3. Replace loose pulley/shaft. 4. Test/repair/replace. 5. Test for good contacts/correct wiring. 6. Clean motor, let cool, and reduce workload. 7. Straighten or replace workpiece; adjust fence. 8. Use correct blade; reduce feed rate or depth of cut. 9. Test all legs for power/replace if faulty. 10. Adjust tension of/replace belt. 11. Test/repair/replace. 12. Wire motor correctly. 13. Test/repair/replace.

Wiring should only be done by professional electricians. Always make sure the machine is properly earthed. All exposed conductive parts should be connected to the protective bonding circuit. Close and lock the door of cabinets.

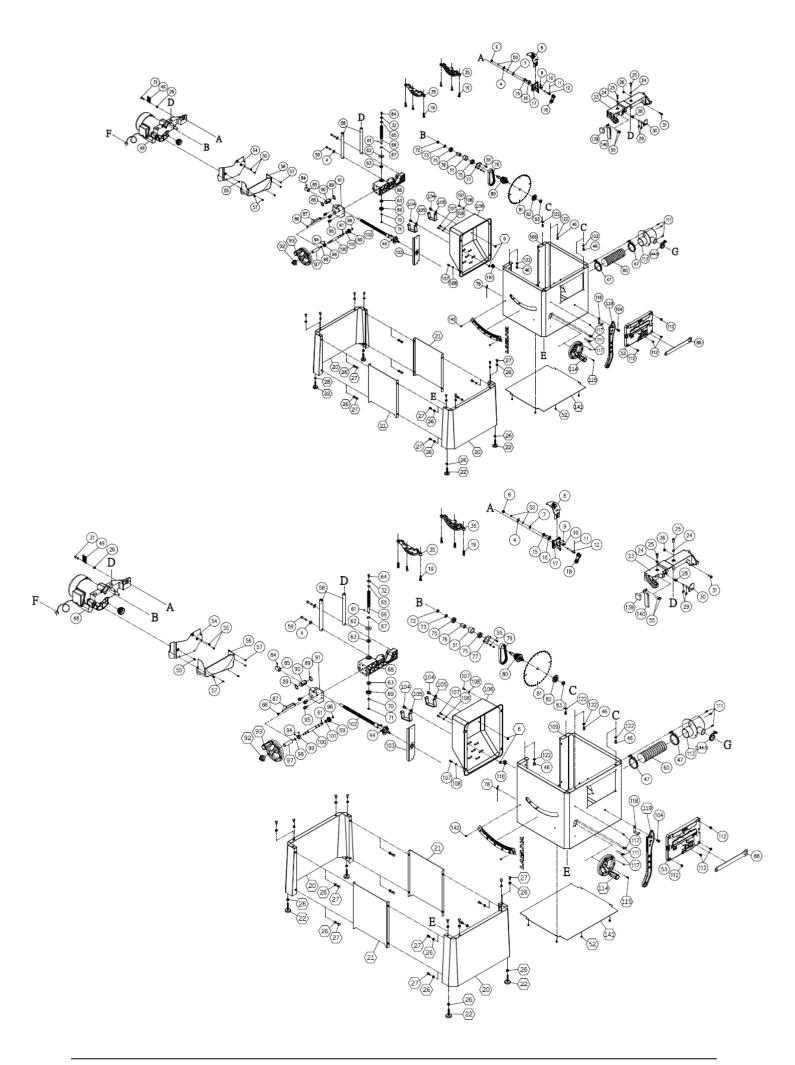
Enough space around the machine and the cabinets should be kept in order to maintain conveniently. The machine should be installed in a workshop with good illumination and ventilation. Over-voltage protection device should be provided by end user on spot.

11. Wiring diagram and Parts List

Wiring diagram: Fusion1 230 V







Parts	list
ı	9252
2	924

2 924708-000 Blade Guard Assembly S17ype 3 924508-000 Miter Guage Assembly S18137000 Spring Pin 3*10 Spring Pin S18026-000 Spring Pin S18026-000 Spring Pin Spring Pi	Parts			11111/000	
3 974562-001 Miter Cauge Assembly 4 051437-000 Extension Table 5 011001-103 Spring Pin 6 97479-300 Table Insert Assembly 7 051426-000 Table 8 006001-049 Flat Washer 8.5*16*2.0t 9 000003-105 Flex Screw M8*1.25*25\$ 10 90932-200 Up-down Bracket M8*1.25*25\$ 11 000005-100 Up-down Bracket M8*1.25*25\$ 12 886-6-6-60 Spring 13 886-6-60 Spring Motor Palley Solved 14 901215-000 Motor Assembly IPH-27* 15 006001-059 Flat Washer 10*20*30*5*501 Plant 10*20*30*5*100 Flat Washer 10*20*30*5*100 Flat Washer 10*20*30*5*100 Flat Washer 10*20*30*5*100 Flat Washer 10*20*30*5*100 Lock Nut M10*1.5*910 M0000*60*60 Flat Washer 10*20*30*5*100 Lock Nut M10*1.5*910 M0000*60*60 Clock Nut M10*1.5*910 M0000*60*60 Clock Nut M10*1.5*910 M0000*60*60 Clock Nut M10*1.5*910 M0000*60*60 Clock Nut M10*1.5*910*60*60*60 Clock Nut M10*1.5*910*60*60*60 Clock Nut M10*1.5*910*60*60*60 Clock Nut M10*1.5*910*60*60*60 Clock Nut M10*1.5*910*60*60*60*60 Clock Nut M10*1.5*910*60*60*60*60 Clock Nut M10*1.5*910*60*60*60*60*60*60*60*60*60*60*60*60*60	1	925200-000	Fence Assembly	L\H (800mm)	I
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99 000003-105 lex. Screw M8*1.25P*15 10 99032-000				8 5*16*2 Ot	22
10 090322-000 Dy-down Bracket M8*I_2SP(138*6.5H) Dy-down Bracket M10 Dy-down Bracket Dy-down B					6
13 290055-901 Round Head Shoulder Screw 100007-230V*50HZ*-	10		Up-down Bracket		I
13 290055-901 Round Head Shoulder Screw 100007-230V*50HZ*-				M8*1.25P(13B*6.5H)	5 1
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33 390040-000 Saw Blade					
33 38028-000 Sawblade Clamp TVS/8"-12(/in)				250mm x 30mm x 40T	i
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65 012002-003 Key 4*4*8 66 174324-000 Washer 57030101-001 Bearing 51100 68 090324-000 Trunnion Base 69 130257-000 Bevel Gear 70 006001-025 Flat Washer 6.4*16*1.0t 71 008317-300 Lock Nut M6*1.0P(108*5H) 72 361246-000 Column 73 002601-108 Locking CAP screw M8*1.25P*35 74 006305-100 Spring Washer 8.2*15.4 175 006001-078 Flat Washer 10.5*19*1.5t 75 006001-078 Flat Washer 10.5*19*1.5t 76 190273-901 Spacer 77 000202-101 SET Screw M5*0.8P*5 78 051469-000 Worm Gear Plate 79 011004-103 Spring Pin 6*25 80 175012-156 Pointer 81 002402-101 Round Head Lock Screw w/Washer 82 361429-901 Shaft 83 251455-615 Bushing 84 240061-008 Handwheel HF-150 86 051470-000 Bracket 88 660229-000 Magetic Ring 89 006706-100 Wave Washer 90 006001-203 Flat Washer 18*28*1t 91 010009-000 Retaining Ring STW-18 93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 95 012002-006 Key 4*4*16 99 006001-120 Flat Washer 100 000104-107 Flat Washer 100 000104-108 Cap Screw 100 1000104-108 Cap Screw 100 1000104-108 Cap Screw 100 1000104-108 Cap Screw 100 1000104-108 Cap Screw 100-1000104-108 Cap Screw 100-1000104-100 Cap Screw 1000104-100 Cap Sc					i
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67 031011-001 Bearing 51100 68 090324-000 Trunnion Base 69 130257-000 Bevel Gear 70 006001-025 Flat Washer 6.4*16*1.0t 71 008317-300 Lock Nut M6*1.0P(108*5H) 72 361246-000 Column 73 002601-108 Locking CAP screw M8*1.25P*35 74 006305-100 Spring Washer 8.2*15.4 I 75 006001-078 Flat Washer 10.5*19*1.5t 76 190273-901 Spacer 77 000202-101 SET Screw M5*0.8P*5 78 051469-000 Worm Gear Plate 79 011004-103 Spring Pin 6*25 81 002402-101 Round Head Lock Screw w/Washer M5*0.8P*12/5*10.5*1.0t 82 361429-901 Shaft 83 251455-615 Bushing 84 240061-008 Handwheel HF-150 85 920703-000 Fixing Knob 86 051470-000 Bracket 88 660229-000 Magetic Ring 89 006706-100 Wave Washer W-18 89 006706-100 Wave Washer WW-18 90 006001-203 Flat Washer 18*28*1t 91 01009-000 Retaining Ring STW-18 93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*16 97 130126-903 Lock Ring 98 006006-120 Flat Washer 20*10.2±0.1*2±0.1 99 006001-107 Flat Washer 100.0010.1*25P*25	65	012002-003		4*4*8	2 1
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76 190273-901 Spacer M5*0.8P*5 77 000202-101 SET Screw M5*0.8P*5 78 051469-000 Worm Gear Plate 6*25 80 175012-156 Pointer 81 002402-101 Round Head Lock Screw w/Washer M5*0.8P*12/5*10.5*1.0t 82 361429-901 Shaft 83 251455-615 Bushing 84 240061-008 Handwheel HF-150 85 920703-000 Fixing Knob 86 051470-000 Bracket 88 660229-000 Magetic Ring 89 006706-100 Wave Washer WW-18 90 006001-203 Flat Washer 18*28*1t 91 010009-000 Retaining Ring STW-18 93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*16 97 130126-903 Lock Ring 98 006004-120 Flat Washer 20*10.2±0.1*2±0.1 99 90 000014-108 Cap Screw M8*1.25P*25	74		Spring Washer		15
77 000202-101 SET Screw M5*0.8P*5 78 051469-000 Worm Gear Plate 79 011004-103 Spring Pin 6*25 80 175012-156 Pointer 81 002402-101 Round Head Lock Screw w/Washer M5*0.8P*12/5*10.5*1.0t 82 361429-901 Shaft 83 251455-615 Bushing 84 240061-008 Handwheel HF-150 85 920703-000 Fixing Knob 86 051470-000 Bracket 88 660229-000 Magetic Ring 89 006706-100 Wave Washer WW-18 90 006001-203 Flat Washer I8*28*1t 91 010009-000 Retaining Ring STW-18 93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*16 97 130126-903 Lock Ring 98 006004-167 Flat Washer 20*10.2±0.1*2±0.1 99 006004-167 Flat Washer 13:5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25		006001-078			I
78				MENO ODNE	ļ
79 011004-103 Spring Pin 6*25 80 175012-156 Pointer 81 002402-101 Round Head Lock Screw w/Washer 82 361429-901 Shaft 83 251455-615 Bushing 84 240061-008 Handwheel HF-150 85 920703-000 Fixing Knob 86 051470-000 Bracket 88 660229-000 Magetic Ring 89 006706-100 Wave Washer WW-18 90 006001-203 Flat Washer I8*28*It 91 010009-000 Retaining Ring STW-18 93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*16 97 130126-903 Lock Ring 98 006004-167 Flat Washer 20*10.2±0.1*2±0.1 99 006004-167 Flat Washer 13.5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25				M5*U.8P*5	4 1
80				6*25	2
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84 240061-008 Handwheel HF-I50 85 920703-000 Fixing Knob 86 86 051470-000 Bracket 88 88 660229-000 Magetic Ring WW-I8 89 006706-100 Wave Washer WW-I8 90 006001-203 Flat Washer I8*28*It 91 010009-000 Retaining Ring STW-I8 93 000104-I10 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft W6*1.0P*6 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*I6 97 130126-903 Lock Ring 98 006006-I20 Flat Washer 20*10.2±0.1*2±0.1 99 006004-I67 Flat Washer 13.5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25					
85 920703-000 Fixing Knob 86 051470-000 Bracket 88 660229-000 Magetic Ring 89 006706-100 Wave Washer WW-18 90 006001-203 Flat Washer 18*28*1t 91 010009-000 Retaining Ring STW-18 93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*16 97 130126-903 Lock Ring 98 006006-120 Flat Washer 20*10.2±0.1*2±0.1 99 006004-167 Flat Washer 13.5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25				HF-150	1 2
86 051470-000 Bracket 88 660229-000 Magetic Ring 89 006706-100 Wave Washer WW-18 90 006001-203 Flat Washer 18*28*1t 91 010009-000 Retaining Ring STW-18 93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*16 97 130126-903 Lock Ring 98 006006-120 Flat Washer 20*10.2±0.1*2±0.1 99 006004-167 Flat Washer 13.5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25			Fixing Knob	i ii =130	2
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90 006001-203 Flat Washer 18*28*1t 91 010009-000 Retaining Ring STW-18 93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*16 97 130126-903 Lock Ring 98 006006-120 Flat Washer 20*10.2±0.1*2±0.1 99 006004-167 Flat Washer 13.5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25	88	660229-000	Magetic Ring		I
91 010009-000 Retaining Ring STW-18 93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*16 97 130126-903 Lock Ring 98 006006-120 Flat Washer 20*10.2±0.1*2±0.1 99 006004-167 Flat Washer 13.5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25					_ [
93 000104-110 Cap Screw M8*1.25P*30 94 360709-901 Worm Shaft 95 001902-109 SET Lock Screw M6*1.0P*6 96 012002-006 Key 4*4*16 97 130126-903 Lock Ring 98 006006-120 Flat Washer 20*10.2±0.1*2±0.1 99 006004-167 Flat Washer 13.5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25					
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98 006006-120 Flat Washer 20*10.2±0.1*2±0.1 99 006004-167 Flat Washer 13.5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25			Key	4*4*16	
99 006004-167 Flat Washer 13.5*26*0.8t 100 000104-108 Cap Screw M8*1.25P*25				30*10 3±0 1*3±0 1	
100 000104-108 Cap Screw M8*1.25P*25					-
			Cap Screw		3
	101				

	381463-901	Fix Bushing		I
103	000304-113	Pan Head Screw	M6*1.0P*30	8
104	174789-000	Motor Cover		I
105	051135-000	Trunnion Support		2
106	000003-104	Hex. Screw	M8*1.25P*20	10
107	174315-904	Arbor Wrench		Ī
	000003-115	Hex. Screw	M8*1.25P*55	i
111	006001-001	Flat Washer	4.3*10*1.0t	2
	000302-102			2
112		Pan Head Screw	M4*0.7P*8	2
113	004001-101	Knob	5/16"-18NC*3/4"	2
	000003-316	Hex. Screw	M8*1.25P*60	2
115	250399-615	Wheel		2
116	006001-022	Flat Washer	6.3*13*1.0t	- 1
117	230041-000	Leveling Foot		
118	170541-904	Slide Shelf		2
			M8*1.25P*16/	
119	049201-101	Hex. Screw w/Flat Washer		2
120	175077 000	6:1-6	(13B*6.5H)	
120	175077-000	Side Cover		I
121	001603-102	Round Head Screw w/Washer	M6*1.0P*10/6*13.2*1.0t	2
122	170965-904	Fix Plate		I
123	250407-615	Worm Shaft Bracket		- 1
	938120-000	Magnetic Switch Assembly	230V(9A)-DRO	T
	043322-000	O-Ring	PII	İ
127	924794-000	36" Rail & Rear Table Assembly		H
	924711-000	36" Rail		!
	924796-000	Rear Table . Leg Assembly		l
	251362-615	Push Sticks	<u> </u>	- 1
133	040002-000	Hex. Wrench	2.5mm	- 1
134	040006-000	Hex. Wrench	6mm	- 1
135	174569-904	Open Wrench	10*13	- 1
	925172-000	Cabinet Assembly		i
130	175107-000	Cabinet		i
				- 1
2	950848-000	DRO Assembly	000105100	ı
	023705-011	Strain Relief	PGB13.5-12B	- 1
141	230114-906	Hadle		2
142	000002-101	Hex. Screw	M6*1.0P*12	2
143	006001-033	Flat Washer	6.7*16*1.0t	2
144	008603-100	Square Screw	M6*1.0P(10B*5H)	2
145	012002-005	Key	4*4*12	2
154		Wave Washer	WW-6	I
	006701-100			
157	006001-137	Flat Washer	5.3*16*1.5t	I
159	170542-904	Hook		2
160	002504-102	Round Head Socket Lock Screw	M4*0.7P*6	4
161	006001-045	Flat Washer	8.5*16*1.0t	
162	006702-100	Wave Washer	WW-8	2
163	174711-000	Fix Plate	-	2
103	17 17 11 000	TIX TIACC	LIOZDAL E	
164	453041-040	Power Cord	H07RN-F 1.5mm2*3C*3150mm	- 1
165	000003-102	Hex. Screw	M8*1.25P*16	4
167	200108-000	Sponge		I
	174772-000	Plate		I
169	924854-000	Over Head Guards Assembly	36"	П
- 1	042620-015	Dust Hose	1.5"(I.D.)*2700mm()	Т
2	174887-904	Brace	, ,	Ì
5	850913-000	Hardware Bag for Over head Guard		i
			30.45/1.D.\	2
	042622-003	Clamp	30-45(I.D.)	
	001803-103	CAP Screw w/ Spring Washer	M8*1.25P*25/8.2*13.7	- 1
	006001-049	Flat Washer	8.5*16*2.0t	I
	008006-100	Hex. Nut	M8*1.25P(13B*6.5H)	
171	174672-901	Motor Plate		- 1
172	000801-103	Round Head Screw	M6*1.0P*16	T
173	000701-102	Flat Head Hex. Screw	M5*0.8P*10	2
174	924807-000	Front Rail (L) Assembly		ī
		Knob	+	İ
176	251358-615	KIIOU		- 1
177	049201-102	Hex. Screw w/Flat Washer	M8*1.25P*12/(13B*5.5H)	3
179	130396-000	Bushing		2
180	174971-904	Cord Fix Plate	(M6)	I
181	000304-102	Pan Head Screw	M6*I.0P*I0	2
183	002504-701	Round Head Socket Lock Screw	M4*0.7P*10	Ī
184	006003-199	Flat Washer	4.3*14*2.0t	i
107	000003-177	1 100 1 1031101	1.5 IT 4.0L	- 1

