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1. GENERAL INFORMATION

WARNING: Please read and understand perfectly the present instruction before using the machine.

This manual provides you with the necessary instructions to start, use, maintain and in your case, repair of the present machine. All aspects as far as the safety and health of the users is concerned have been stated. Respecting all instructions and recommendations assures safety and low maintenance. As such, reading this manual carefully is compulsory for any person responsible for the use, maintenance or repair of this machine.

As such, reading this manual carefully is compulsory for any person responsible for the use, maintenance or repair of this machine.

It is recommended to have always this manual in an easily accessible place where the machine is being used.



WARNING: Do not cut with the saw other materials (metals, ceramics, plastics, etc...) Should be cut only wood and chipboard pressing wood particles and waste for which it was designed the machine.

An original electromechanical brake system that requires no maintenance and ensures the immobilization of the disc in a shorter time than that required by the EEC.



WARNING: IT IS NOT ALLOW use of this machine without the security features that the electrical and mechanical form, guards, protectors, etc. .., working without safety features, is very risky and can cause very serious injuries and accidents. Should therefore be strictly followed safety rules recommended in this Manual as well as labour safety standards in this field in each country, it must be remembered that any change in any of its parts or elements, or inappropriate use is considered dangerous and unwise.

2. GENERAL DESCRIPTION OF THE MACHINE

- The table saw is a machine whose design and manufacturing has been directed to use wooden cutting boards or chipboard with steel disc with carbide teeth.
- Cutting height remains constant.
- The transparent protection disc, allows viewing of the cut line. This safeguard is designed to cover the entire disc surface exposed cutting.
- The cutting disc is driven by electric motor.
- It has handles on the front and rear wheels for easy transport.
- It is equipped with an electric brake motor according to EU rules.
- Start and stop electrical controls, are clearly identified by their colours and satisfy the requirements imposed by EC rules.
- The legs are built in order to be enabling to fix them to the ground and prevent the rollover.
- The rule that serves as guidance for the cutting, is mounted on a base that allows longitudinal and transverse positioning for different forms of cutting, this rule has two different height positions in accordance with EC rules.
- As an accessory the machine has a pusher to help cut into pieces of smaller dimensions and a driving device, thereby avoiding the hands are closer to the disk, the pusher element is built according to CE standards.

3. TRANSPORT

The machine is packed in the factory on a pallet, easy to lift with forklifts or hand pallet trucks. Due to its dimensions and weight (See the technical features table in this manual), it is possible to transport it in light vehicles.

When it is needed to transport the machine for too long distances by vehicles, cranes or other means of elevation, the latter should be safe.

By lifting the machine with cranes or hoists, normalised slings must be used. These are chosen en fonction of the required work load limit, the way of use and the nature of the load. The choice is correct if special norms of use are respected.



ATTENTION: To avoid any possible danger, stay away from elevated loads and be careful with their possible displacement during transport, whether during lifting or mooring. Therefore, it is essential to choose the correct slings and remain particularly vigilant in sensitive operations (elevation, coupling, mooring or discharging).

4. SUPPLY CONDITIONS.

Circular saws SIMA EUOTRON PLUS model is supplied in sealed packaging and reinforced wooden pallet with the size just to fit the pallet. The machines are introduced on the package so that it can withstand storage at various heights if necessary.

When you open the package the user will find the following elements:

- Table is ready.
- Hard steel with carbide teeth disc \varnothing 315 mm.
- Axle and wheels are ready.
- Instruction manual and its warranty.

A box with the following accessories:

1. Protection blade
2. Aluminium Rule
3. Rule support with its elements.
4. Pusher
5. Driving device
6. Splitter knife
7. Key kit
8. Screws to set the splitter knife

5. ELECTRIC CONNECTION AND ADEQUACY OF DIRECTION OF ROTATION

When you receive the machine and before connecting to the electric supply. We will make sure the mains voltage is correct to connect the machine; the operating voltage of the machine is visible through the indication of voltage switch next to it.



WARNING: Do not connect the machine to the electric supply. If you are not sure of the supply voltage available, otherwise if the tension was not the right engine would be irreparably damaged and unusable and unserviceable.

Once you have completed the previous step before inserting the disc and to handle the engine, it is necessary to check and adjust the rotation of the motor shaft to the proper rotation direction, connect the machine to the electric supply. and implement it, noting the direction rotation to be clockwise if necessary and with three phase motors can change the direction of rotation if the exchange between two drivers in phase at the air base or the extension cord plug that will feed the machine.

If necessary the exchange of electrical wires to change the direction of rotation of the engine, always do it with the machine disconnected from the electric supply...



WARNING: NOT touch the power cables or electrical lead wires of the machine, if not totally disconnected from the electric supply.

Once you've got to adjust the direction of rotation of the engine, the machine will be available to assembling the blade.

6. INSTALLATION INSTRUCTIONS

6.1 ASEMBLING THE BLADE

The circular saw blades, meet the safety requirements of EC standards. Fully support the maximum number of revolutions indicated compliance with safety standards.

In case of change discs, always check that discs are steel with carbide teeth and the measures necessary for the machine model.

A suitable disc ensures a great performance at the machine and a better functioning of the same, so we recommend using only original blade.

To mount the blade we proceed as follows:

1 Make sure the table saw is not connect to the power supply.

2 If we are going to change the blade and the protection blade is on, we will lift it to the maximum point and hold that position with the help of an object. **IF IT NOT NECESSARY TO REMOVE THE PROTECTION BLADE IN ORDER TO CHANGE THE DISK.**

3 Loosen the screw **T, Fig.2** of grooved plastic lid **P, Fig.2** and remove it up and move forward to get it out of position.

4 Block the rotation of the motor shaft by introducing the key punch **A, Fig.2** in the drill that incorporates this axis, and loosen the nut **C, Fig.2** with the hexagonal key **D, Fig.2** the motor shaft nut is threaded anticlockwise.

5 Remove the outer flange **B, Fig.2** and place the disk, taking into account the sense that it must turn and is identified in the direction of the tooth cutting. The direction of the arrow drawn in the protection of the disc, must match the direction of the arrow on the disc, and in turn, with the direction of rotation of the engine.

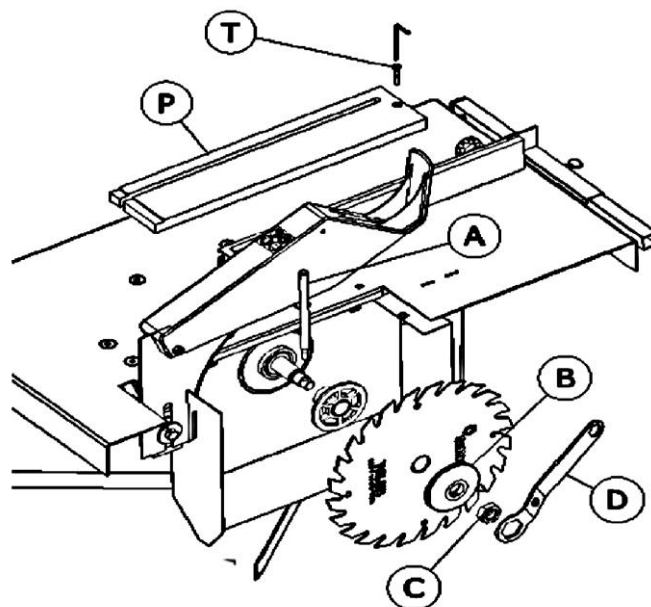
In the event that the motor rotation is different from that indicated for three-phase motors and then switching the motor direction of rotation of two threads sharing each phase at the air base or the extension cord plug for connection to the power supply.

Warning: Check the proper coupling between the flanges and the disc, taking care that the key external flange becomes lodged in the groove presents the motor shaft, thereby preventing the disk to rollover the shaft. Now you can definitely tighten the nut (left-hand thread) from fixation.

6 then proceed in the reverse order that was followed to reach this point.



WARNING: Remove the tool used, before starting the machine and make sure all pieces are in the correct position.



6.2 TO SET THE SPLITTER KNIFE

The knife-divisor **C, Fig 6** is a part of the machinery of great importance for normal development of the cut. It seeks to enable and maintain the separation of parts of the piece when you are cutting, in turn reducing the risk of dullness and cutting wheel lock.

The thickness of the splitter knife should be suitable for the size of the disk and the width of cut; it makes the disc and the knife divider set to be considered inseparable, both for the quality of work as per security.

It is therefore very important that this piece is always properly installed, for which will follow the following recommendations:

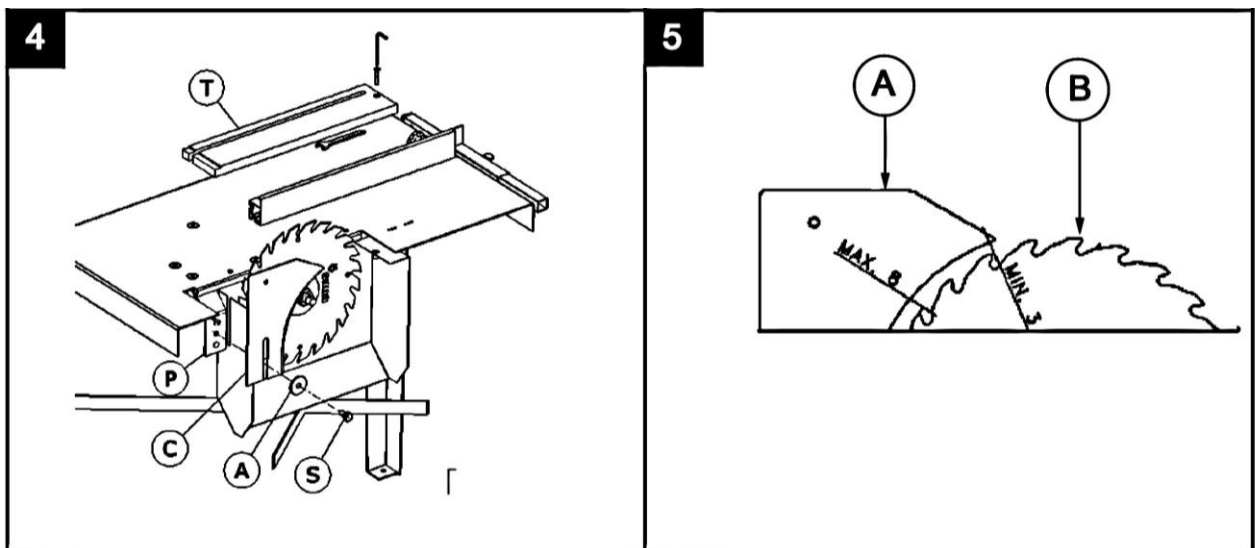
Remove the lid top slot **T, Fig.4** loosening the countersunk screw that attaches to the table. We will place the knife divisor **C, Fig.4** hosting this with the two studs that protrude from the support piece knife **P Fig.4** strongly fixing this with the washer to **A, Fig.4** and the screw **S, Fig.4**.



WARNING: Adjust the distance and height above the disk, so that the closest point to it (circle radius and tooth) not less than 3 mm. Nor more than 8 mm, measured radially, see Fig 5

- The divisor knife should be revised and adjusted each time you change the blade.
- The knife splitter, by its very nature, is unique for each type of machine. Replacement if necessary, it shall make an identical in design and original measures.

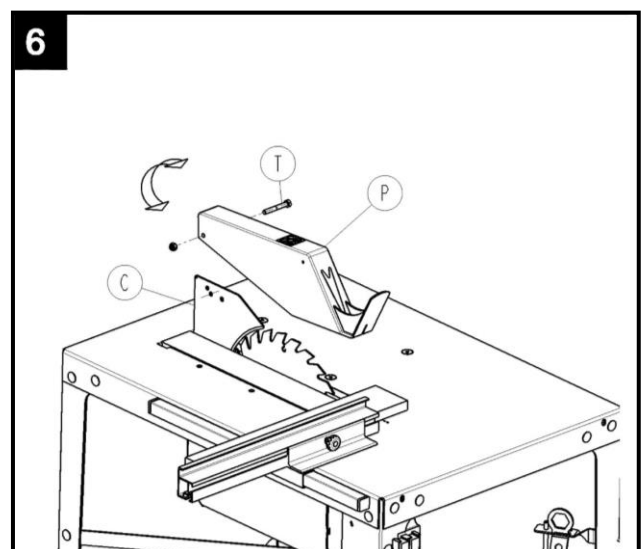
The splitter knife which incorporate the machine is designed and manufactured for use with steel discs with carbide teeth of 315 mm. diameter.



6.3 ASEMBLING THE PROTECTION DISK

We will proceed as follows:

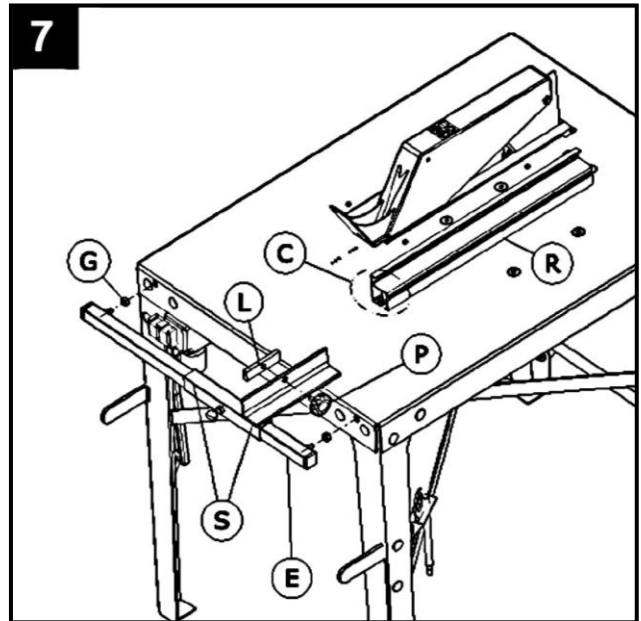
- Loosen and remove the screw **T, Fig.6**.
- Place the guard **P Fig.6** on the splitter knife **C, Fig.6** that supports the protection blade.
- Replace the screw previously removed by passing through the hole that has the splitter knife for this purpose.
- Tighten the nut enough to not let the guard locked, allowing the knife to rotate freely on the divisor, and has free drop under its own weight on the table.



6.4 ASEMBLING THE RULE

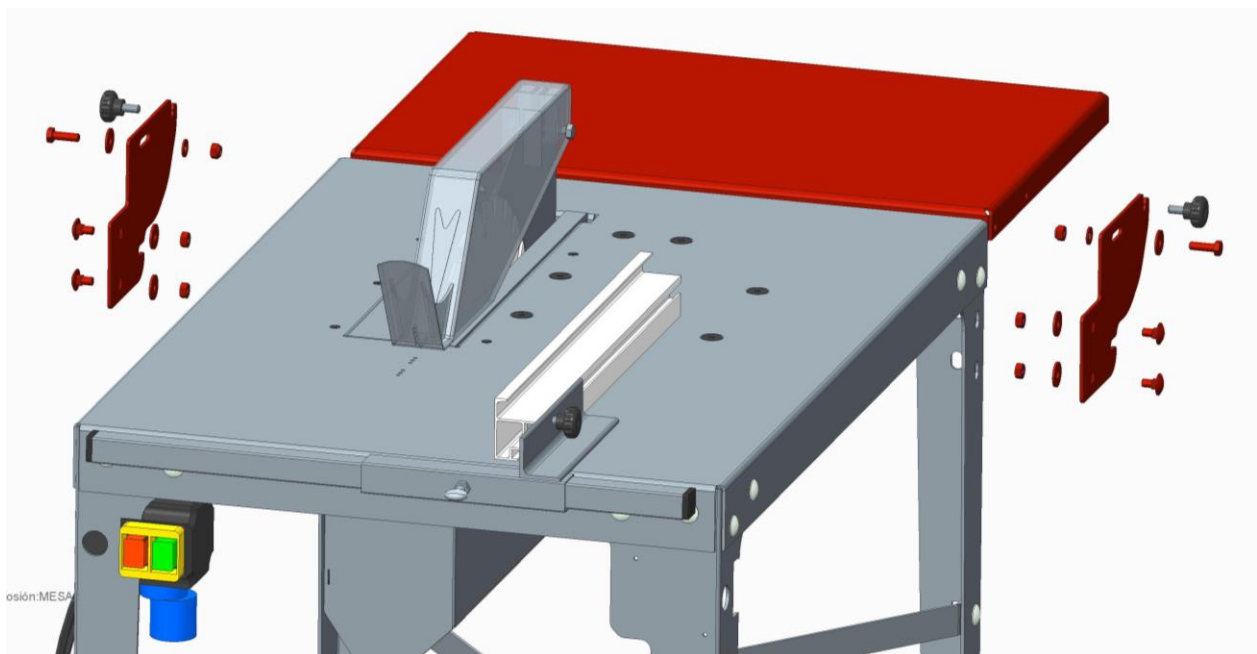
Loosen the steering wheel lock **P, Fig.7** rule support **S, Fig.7**, freeing the piece nut which incorporates **L, Fig.7** without removing completely and mount one of the two houses of aluminium rule **R Fig. 7**, according to the chosen position is obtained with a height of side support rule under (12 mm.) for cutting thin materials, or a position with high side support (60 mm.) cutting thick materials (**C fig. 7**).

Slide the rule to the desired position and secured to the support by tightening the locking wheel mentioned above, the rule support is in the guide that incorporates the table **E, Fig.7**, this guide in turn can be located in front, as shipment position, or left side, removing the nuts **G, Fig.7** underneath the table, then put the guide on the desire side introducing screws in the holes of the table prepared for this purpose and re-fix the nuts again.



6.5 MOUNTING EXTENSIBLE TABLE.

The machine is provided with an extensible table for cutting pieces of scale. Mount according to the following image.



7. ELECTRIC CONNECTION.

The table saw is built under IP54.

The switch-Plug that these machine incorporate under voltage protection that prevents unexpected start of the table saw.

In the event there is a power outage or a voltage drop that stop the machine, and once restored to normal conditions of supply, the engine will not start until you press the green button to start.

7.1 SINGLEPHASE ELECTRIC MOTOR

Circular saws for wood assembled with single-phase motors, incorporate an electro mechanical brake disc stop in the engine.

The switch has a single phase switch including thermal protection. The objective of such protection is to prevent the engine burns down on intensity, so that stops its operation when for some unforeseen cause the temperature rises more than allowed, if this does happen it is necessary to check the machine and the installation to locate the cause. Once settled, let the engine to cool down to its normal operating temperature and rearm the thermal protection operating the small button located at the bottom of the switch.

The engine will restart by pressing the green button.

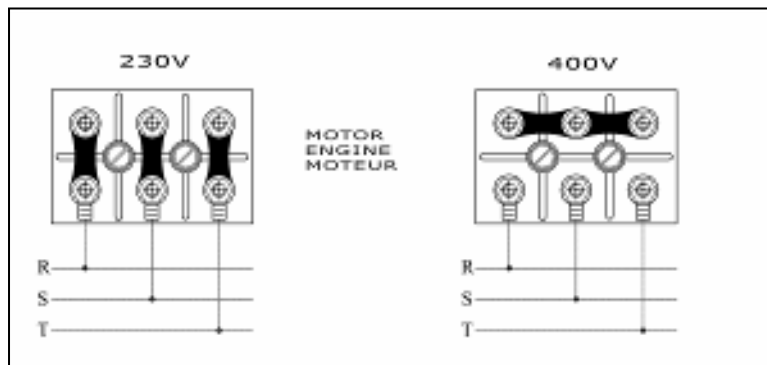
The extension cord used to power the machine must have a minimum area of 3x1, 5 mm², up to 25 meters. For a greater distance we will use 3 x 2.5 mm².

7.2 THREEPHASE ELECTRIC MOTOR

Circular saws for wood mounted with three phase motors, incorporate an electro mechanical brake disc stop the engine, the machines are equipped with three phase switches.

The extension cord used to power the machine must have a minimum area of 4 x1, 5 mm², up to 25 meters. For a longer distance will be use 4 x 2.5 mm².

Circular saws come with three-phase motor connected from by factory default to operate at 400V. When you have a supply voltage of **230V**, change the position of the bridge chips in the motor terminal box, as shown in the figures following connection:



WARNING: In order to change the position of the bridge chips in engines, disconnect the machine from the main supply; you should also change stickers indicating supply voltage, to agree with the change made.

• **The machines with electric motor should always be connected to a standard electrical box that has a breaker and a differential in accordance with the characteristics of the engine:**

2.2kw /3 HP, single phase to 230 V, 20A breaker and differential 20A/300mA

3kw/4 hp, 230V three-phase, 20A breaker and differential 20A/300mA

3kw/4 hp, 400V three-phase, 15A breaker and differential 15A/300mA



WARNING: Earthing should always be connected before the launch of the machine.

- Make sure the voltage supply to the network will be connected to the machine; it matches the voltage indicated on the sticker red voltage display attached to the machine.
- Use extension cords standardised
- Make sure the extension cord to power supply of the machine has not contact points of high temperature, oil, water, sharp edges, avoid being trampled or crushed by passing vehicles and placing things on it.

7.3 PICTOGRAMS

Pictograms included in the machine entail the following:



**READ INSTRUCTIONS
MANUAL**



**USE HELMET AND EYE AND
AUDITIVE PROTECTION**



USE SAFETY GLOVES



USE SAFETY BOOTS

8. MACHINE STARTING-UP AND USING INSTRUCTIONS

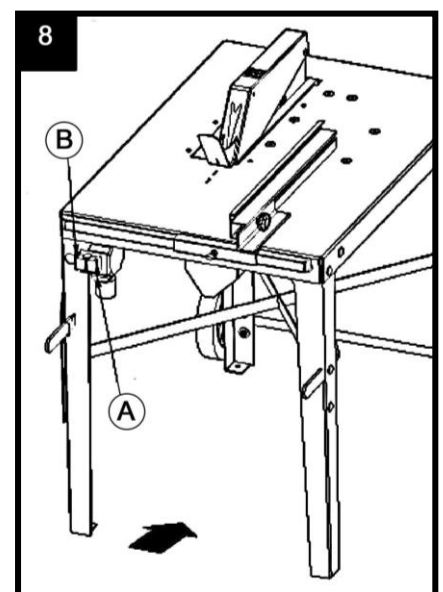


WARNING: Must follow all safety recommendations outlined in this manual and comply with regulations for the prevention of occupational hazards.

8.1 POSITION OF THE MACHINE AND THE OPERATOR, CONNECTION AND DISCONNECTION

Before starting-up the machine, we should have gone through all necessary safety measures (electrical connection, stability, protections, etc....) as mentioned in the previous chapters.

When you begin working with the machine the operator must stand in front of it facing the switch in the forward position where the handles, to lift and move the machine from this position see **Fig.8** can press the green button switch and the machine will start up and ready to begin cutting. The stop the machine we will press the red button of that switch, this button has a projection to disarm the machine without touching the green button (Fig.8) the disk stops within the expected time interval by EC standards.



8.2 LONGITUDINAL SECTION.

To cut lengthwise pieces, stand is placed on the guide rule set in the front position. The extent of the cut to perform is determined by moving the rule on the guide holder to the proper position. Set the rule support tightening the lock screw **V**, **Fig.9**.

To make the cut, we will take the piece of wood supported on aluminium rule and moves on to the disc, sliding over it. Start slowly.

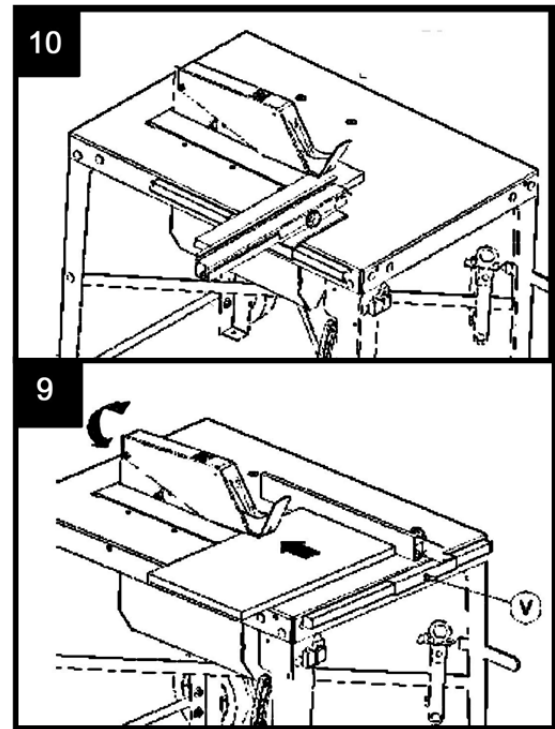
The thrust of the piece itself lift the protection disk sufficiently to achieve this and make the cut with minimal risk **Fig. 9**.

8.3 CROSS SECTION

To make the cross section will be necessary to place the guide on the left side of the table. Be kept loose the screw block **V**, **Fig.9**, to allow movement along the guide.

The aluminium rule must be shift to the left enough so that at no time can be achieved by the disc to move in the direction of the cut.

The cut is made placing the piece on the aluminium rule and held them against it, moving toward the disk by moving the rule on its handler support. **Fig 10**. Likewise, the protection blade is lifted by the thrust of the piece itself.

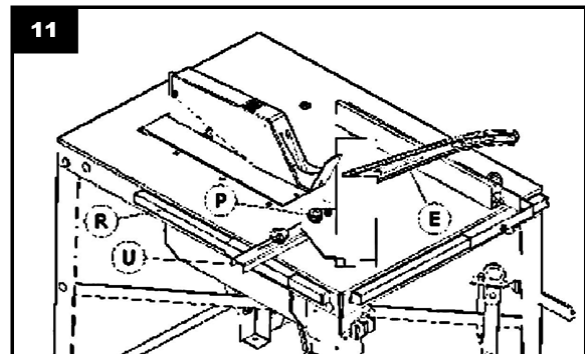


8.4 REALIZATION OF WEDGES

For the realization of wedges or any cutting angle should also be used the guide **R**, **Fig.11** fixed on the side. **You will need a special tool to ensure the cut with maximum security U**, **Fig.11**, lateral rule and rule for mitre cutting **U**, **Fig.11** are optional accessories for the model EUROTRON PLUS.



WARNING: In the final leg of any type of cut and when they have to make parts of small size, it is necessary to use the pusher **E**, **Fig.11**, this will allow you to push on the piece to be cut during cutting until disk is up, reducing the risk of accident to the worker.



The graduation of the angle with which it wants to cut will be achieved by loosening the set screw of the support piece **P**, **Fig.11** and turning it to the desired position.

The cut is made placing work piece on the holder and held it against it, moving towards the disk by moving special tool on the side guide. You can use the rule of aluminium as stopper placing it to the other side of the piece **Fig 11**.



DRIVING DEVICE FOR SMALL PIECES.

When cutting small pieces of wood in different angles, it is compulsory required to use the special driving device (**B**, **Figure 12**) and the push stick (**E**, **Figure 12**) (both supplied as standard) as shown in the **figure 12**.

9. SAFETY RECOMMENDATIONS



NOTE: Before starting the machine, read carefully the instructions and observe safety rules recommended in this manual and labour safety standards of each location to avoid accidents, damage and injury;

Start-up your machine.

- It is very important to ensure the stability of the machine before it is started; you should always place it in horizontal position, bringing it to the floor by fasteners using existing holes leading into the bases of the legs.
- Do not connect the machine until its stability is not guaranteed.
- Always use personal protective equipment (EPI) according to the work being done.
- Before connecting or boot the computer make sure that nobody is in their area of risk.
- Start-up the machine according to the manufacturer's instructions.
- Make sure your computer is located in a firm, level surface.
- Check that the power supply voltage corresponds with the equipment performance.
- Check the direction of the rotation is correct.
- Visually inspect all joints: bolts, nuts, welds, rust, receipts, etc.
- Make sure the extension cord of the machine is not in contact with points of high temperature, oil, water, sharp edges, avoid being trampled or crushed by passing vehicles and placing things on it.

Management of the machine, equipment or facility

- Use the machine for the purposes for which it was designed.
- Do not leave left the machine with the engine running.
- When moving the machine always do it with the engine stopped and moving parts blocked.
- This machine must not be used in the rain.

Stop the machine, equipment or facility

- Never handle or operate on the mechanical and electrical machine with the engine running or connected to the main supply.
- Stop the equipment according to manufacturer's instructions.
- Make general cleaning of equipment / installation.
- Check the condition and securing of equipment, tools, accessories and whether they are adequate.

This equipment will be used only by authorized and trained personnel with specific training and appropriate.

If during use of the machine notes any anomalies, please report immediately to his superior.

10. SAFETY RECOMMENDATIONS & PREVENTION MEASURES

Do not operate the machine if anomalies that may affect the safety of persons.

- Keep safety signs clean installed on the machine and replace any that are missing.
- The maintenance, servicing and general repairs will be made only by authorized personnel.
- Observe all signs point to the work.
- Do not manipulate the safety devices under any circumstances.
- Ensure proper lighting for night work or in low light areas.
- Maintenance of the machine can be dangerous if not done according to manufacturer's specifications.
- Wear work clothes tight. Do not wear rings, bracelets, chains, etc.
- Cleaning and maintenance will be with the machine stopped with no possibility of movement or operation.

MIND YOUR STEP

- Keep work area clean of materials, tools, utensils, etc...
- Be careful to avoid twisting movements and wear appropriate footwear.

PROJECTION OF FRAGMENTS OR PARTICLES.

- Make sure nobody is in the range of the equipment or operating area of its working.
- Check the condition of the equipment, holder tools, tools, accessories and whether they are adequate.
- Do not remove protective shields and other protective components installed.

ENTRAPMENT BY OR BETWEEN OBJECTS.

- Cleaning and maintenance will be with the team standing and unable to move.
- Make sure nobody is in the range of the equipment or operating area of its working.
- Grids and security protection that prevent contact with moving parts must be kept properly adjusted.

COLLISSIONS AND CONTACTS AGAINST MOVING PARTS, MOTIONLESS, OBJECTS AND / OR TOOLS

- Pay attention to anything that is moving in your work area.
- Pay special attention to their movements.
- Be especially careful when traveling in work zones due to the narrowness and outgoing items.
- Store this equipment not used in the places allocated for this purpose.
- Use the tools in good condition and only for jobs that were designed (do not keep in your pockets).
- Do not store sharp tools with cutting edges uncovered.
- Cleaning and maintenance will be done with the machine stopped with no possibility of movement or operation.
- Make sure all grills; casings and protections of the moving parts are properly installed.



WARNING: Must follow all safety recommendations outlined in this manual and comply with regulations for the prevention of occupational hazards in each place.

Manufacturer is not responsible for any consequences that may result in inappropriate use of the table saw for wood.

11. MAINTENANCE.

The circular saw has been designed and built for cutting wood type material panels, boards and pieces that do not exceed the thickness that allows the cutting of the disc. Any change in any of its parts or elements as well as improper use of it, is deemed inappropriate and dangerous.

This machine only requires a basic and simple maintenance.

Clean the machine as often as necessary.

Every day, at the end of the workday, review the status of the disc and discard it if anomalies are discovering (cracks, missing teeth, sprains ...)

It is recommended that every time you put up the machine check the effectiveness of engine braking. Must be stop within limit of ten seconds. Starting and stopping several times successively letting up for one minute. Following this method we can check daily the braking effectiveness.

In case of anomalies observed in the machine, disconnect it from the main supply and have it checked by a technician.

Any repair of the equipment must be performed by qualified personnel.

11.1 CLEANING THE GROOVED LID.

When woody debris getting caught between the blade and the slot of the plastic cap is necessary to remove them.

To do so follow these recommendations

- 1 Stop the machine and disconnect from main supply.
- 2 Loosen the screw that secures the plastic cover with key and freeing remove loose material.
- 3 Clean the area with a brush, lifting previously top disc protection.



WARNING: Although the disc is stopped, this should be done with protective gloves to prevent contact injuries of the hands with the sharp teeth of the cutting disc.

12. SOLUTIONS TO MOST FREQUENT ANOMALIES

ANOMALY	POSSIBLE CAUSE	SOLUTION
Motor does not start up	Power supply fault	Check the power supply in the switch board. Check the position of the thermal electric supply. and the differential in the switch board. Make sure the extension cable is in a good state and well plugged in both ends
	Thermal protection is open (single-phase motors)	Cool down the machine and rearm thermal protection
	Damaged switch	Substitute it
	Blocked disk	Remove obstacles preventing the disk from turning
Motor starts up very slowly and takes long to reach its revolutions	Damaged condenser. (Single phase motors)	Replace it
Cutting power insufficient	Bluntness of the disk segments or diamond bands	Effectuate different cuts on an abrasive material (Sandstone, concrete, stone emery)
	Inappropriate disk	Use appropriate disk for material
	Motor low potency	Let the motor be checked by technical service
Vibrations occurrence	incorrect direction of rotation	Mount the disc again with the proper rotation direction.
		Three phase motors, interchange any two wires.
	Disk subjection defect	Make sure the brides and the motor axis are well adjusted. Tighten well the nut.
	Disk oscillation	Change the disk

13. TECHNICAL CHARACTERISTICS

	1 PHASE	3 PHASE
Outer disk diameter (mm.)	315 mm	
Inner disk diameter (mm.)	30 mm	
Guide splitter knife width	3 mm	
Splitter knife thickness	12 mm	
Maximum cutting height	83 mm	
Type of motor	Single-phase	Three phase
Motor power	3 HP=2,2 KW	4 HP=3 KW
Motor tension	230V	230/400V
Motor r.p.m.	3000	
Dimensions LxWxH	1122x775x950mm	
Weight	56 Kg.	

14. WARRANTY

The manufacturer of light machinery for construction possesses an electric supply.

Repairs under warranty made by RED are subject to some strict condition to guaranty a high quality and service.

The manufacturer guarantees all its products against any manufacturing defect; to take into account the conditions stated in the attached document "WARRANTY CONDITIONS". The latter would cease in case of failure to comply with the established payment terms. SIMA S.A. reserves its right to bring modifications and changes to its products without prior notice.

15. SPARE PARTS

The spare parts for the cutting table, are to be found in the spare parts plan, attached to this manual.

To order any spare part, please contact our alter-sales service clearly indicating the serial number of the machine, **model, manufacturing number and year of manufacturing that show on the characteristics plate.**

16. ENVIRONMENT PROTECTION



Raw materials have to be collected instead of throwing away residuals. Instruments, accessories, fluids and packages have to be sent into specific places for ecological reutilisation. Plastic components are marked for selective recycling.



R.A.E.E. Residuals arising of electrical and electronic instruments have to be stored into specific places for selective collection.

17. DECLARATIONS ON NOISES

The values given are emission values only and not necessarily emission levels that can work safely. Although there is a correlation between emission levels and exposure, they cannot reliably be used to determine if preventive measures are necessary supplements. The parameters that influence the actual level of exposure include the duration of exposure, characteristics of the workshop, other sources of noise, etc... I.e. the number of machines and other equipment adjacent. Moreover, permissible exposure levels may vary from one country to another. However, this information allows the user of the machine to better risk assessment.



WARNING: Working long exposures with circular saw is recommended individual hearing protection supplies, along with others already described in this Operating Instructions.

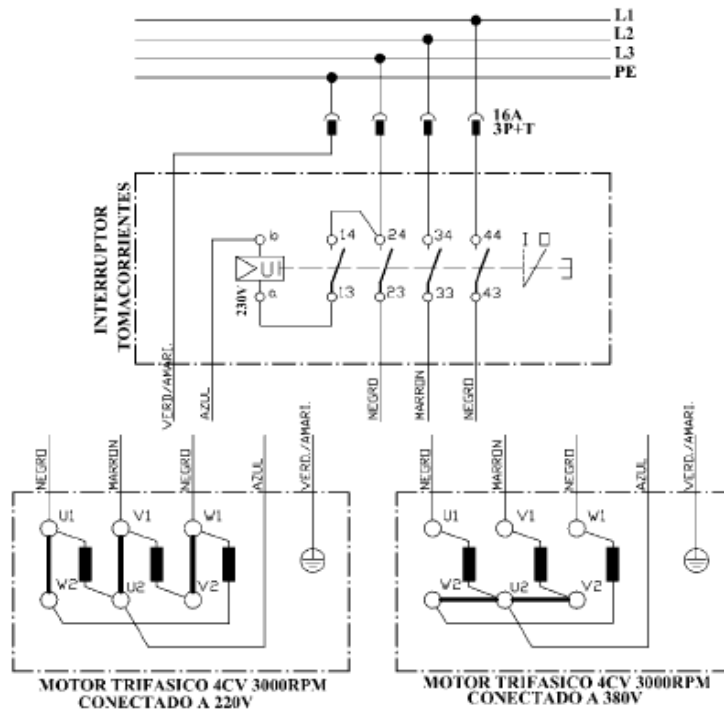
DECLARATION OF THE NOISE EMISSION LEVELS OF CIRCULAR SAW MODEL		
The statement is made with two values of noise emission level measured and consistent statement, as provided in the Rules UNE-EN ISO 4871:1997 y UNE-EN 1870-1:2000.		
	UNLOADED	LOADED
Continuous sound pressure level equivalent, A weighted in the workplace in db (Lp_A)	83	93
Declaration constant db (Kp_A)	4	4
Sound power level emitted by the machine, A weighted, en db (Lw_A)	92	106
Declaration constant db (Kw_A)	4	4
Values determined according to ISO 7960:1995, Anexo A y UNE-EN 1870-1: 2000, utilizando las Normas UNE-EN ISO 11202:1995 y UNE-EN ISO 3746:1995.		

18. DECLARATION ON MECHANICAL VIBRATIONS

Circular Sawing Machines table EUROTRON models M-315 PLUS-315 PLUS T EUROTRON have no mechanical vibration sources that involve risks to health and safety of workers.

19. ELECTRICAL SCHEMES

1 PHASE



- 23 -

3 PHASE

