



ELECTRIC CHAIN SAW SHARPENER



ASSEMBLY AND OPERATING ORIGINAL INSTRUCTIONS

JR

32 rue Aristide Bergès, ZI du Casque, 31270 CUGNAUX - FRANCE

Technical specifications

Motor	230V~ 50Hz, 220W
R/min	7500/min
Table/Vise Angles	35 Degrees Right to Left
Arbor Diameter	10mm
Wheel Dimensions	100mm Dia. x 3.2mm thick
Overall Dimensions	175mm W x 320mm L x 210mm H
Weight	1.78kg
Sound pressure level, L_{pA}	87 dB(A), K= 3dB(A)
Sound power level, L_{WA}	100dB(A), K= 3dB(A)
Vibrations	3,73 m/s ² , K=1,5 m/s ²

NOTE: The declared vibration value has been measured in accordance with a standard test method and may be used for comparing one product with another. The declared vibration value may also be used in a preliminary assessment of exposure.

WARNING !

Depending on the actual use of the product the vibration values can differ from the declared total.

Adopt proper measures to protect yourself against vibration exposures. Take the whole work process including times the product is running under no load or switched off into consideration.

Proper measures include among others regular maintenance and care of the product and accessories, keeping hands warm, periodical breaks and proper planning of work processes !

KEEP THIS MANUAL

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep the manual in a safe and dry place for future reference.

WARNING! When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.

Read all these instructions before attempting to operate this product and save these instructions.

1. Keep work area clear

- Cluttered areas and benches invite injuries.

2. Consider work area environment

- Do not expose tools to rain.
- Do not use tools in damp or wet locations.
- Keep work area well lit.
- Do not use tools in the presence of flammable liquids or gases.

3. Guard against electric shock

- Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, refrigerators).

4. Keep other persons away

- Do not let persons, especially children, not involved in the work touch the tool or the extension cord and keep them away from the work area.

- 5. Store idle tools**
 - When not in use, tools should be stored in a dry locked-up place, out of reach of children.
- 6. Do not force the tool**
 - It will do the job better and safer at the rate for which it was intended.
- 7. Use the right tool**
 - Do not force small tools to do the job of a heavy duty tool.
 - Do not use tools for purposes not intended; for example, do not use circular saws to cut tree limbs or logs.
- 8. Dress properly**
 - Do not wear loose clothing or jewelry; they can be caught in moving parts.
 - Non-skid footwear is recommended when working outdoors.
 - Wear protective hair covering to contain long hair.
- 9. Use protective equipment**
 - Use safety glasses.
 - Use face or dust mask if working operations create dust.
- 10. Connect dust extraction equipment**
 - If the tool is provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.
- 11. Do not abuse the cord**
 - Never yank the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.
- 12. Secure work**
 - Where possible use clamps or a vice to hold the work. It is safer than using your hand.
- 13. Do not overreach**
 - Keep proper footing and balance at all times.
- 14. 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 them repaired by an authorized service facility.
 - Inspect extension cords periodically and replace if damaged.
 - Keep handles dry, clean and free from oil and grease.
- 15. Disconnect tools**
 - When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.
- 16. Remove adjusting keys and wrenches**
 - Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
- 17. Avoid unintentional starting**
 - Ensure switch is in "off" position when plugging in.
- 18. Use outdoor extension leads**
 - When the tool is used outdoors, use only extension cords intended for outdoor use and so marked.
- 19. Stay alert**
 - Watch what you are doing, use common sense and do not operate the tool when you are tired.
- 20. Check damaged parts**
 - Before further use of tool, it should be carefully checked to determine that it will operate

properly and perform its intended function.

- Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation.
- A guard or other part that is damaged should be properly repaired or replaced by an authorized service centre unless otherwise indicated in this instruction manual.
- Have defective switches replaced by an authorized service centre.
- Do not use the tool if the switch does not turn it on and off.

21. Warning

- The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury.

22. Have your tool repaired by a qualified person

- This electric tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

Additional Safety Warnings

Grinding Wheel Warnings

1. Do not use a grinding wheel if it is chipped, cracked, or worn. You can check if the wheel has cracks not visible to the human eye by hanging it up by the central hole and tapping it with a non-metal object (ie: screwdriver handle). If it is in good condition it will produce a metallic sound. A dull sound indicates a crack or break.
2. Only use grinding wheels that fit the arbor (7/8"). Do not try to change or modify the mounting hole on a grinding wheel to make it fit.
3. Do not over-tighten the **Nut (#3)**. Hand tighten it only. Over-tightening may cause the wheel to break or disintegrate.
4. Never use the chain saw sharpener without the **Grinding Wheel Cover (#2)** in place.
5. Always test the **Grinding Wheel (#5)** by running it for a minute prior to contact with a chain.
6. Keep away from the wheel when it is turning, and make sure no one is standing close, in the line of the wheel rotation trajectory.
7. If the grinding wheel vibrates, turn off the machine immediately and check that it is mounted securely, and that is not damaged.
8. Never try to stop the grinding wheel with your hands, even if you are wearing safety gloves. The wheel will cut through gloves and your hand, causing serious injury.
9. Never operate tool without the **Grinding Wheel Cover** in place.
10. Replacement grinding wheel listed speed must meet or exceed RPM rating of the tool.

Warning!! This machine is designed to sharpen chain saw chains. Do not attempt to sharpen any other tools and do not attempt to grind any other objects.

Unpacking

When unpacking, check to make sure the parts listed on page 9 are included.

Assembly

1. When installing the sharpener on a workbench, make sure that the **lock wheel (#46)** (is accessible as shown in the mounting picture in **FIGURE 1**.
2. Bolt (bolts not be included) the unit directly to the workbench through the two 1/4" holes on the **base (#40)**. The workbench must have a solid surface capable of supporting the weight of this sharpener, the work-piece and assorted tools. See **FIGURE 2**.

FIGURE 1



1/4" Hole with Bolt

FIGURE 2



Base(#40)

Warning! Always unplug the unit before changing grinding wheels, or when making any adjustments to the Sharpener.

Mounting a Grinding Wheel

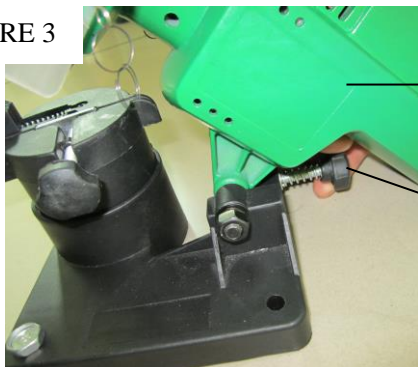
Refer to the assembly drawing on page 10 and **FIGURE 3** and **FIGURE 4** below.

1. Raise the **Engine Casing(#12+24)** and lock it in the up position by tightening the **Screw (# 45)**
2. Remove the two screws holding the **Grinding Wheel Cover (#2)**, Set the cover aside.
3. Unscrew the **Nut (#3)** that holds the **Grinding Wheel (#5)** in place.
4. Install the new wheel on the **Pressure Plate (#4)**, making sure it fits properly.

Note: Do not use a grinding wheel if it chipped, cracked, or worn. You can check if the wheel has cracks not visible to the human eye by hanging it up by the central hole and tapping it with a non metal object (ie: screwdriver handle). If it is in good condition it will produce a metallic sound. A dull sound indicates a crack or break.

5. Replace the **Nut (#3)**.
6. Replace the **Grinding Wheel Cover (#2)**.
7. Release the **Screw (#45)** and lower the top housing.
8. Never operate tool without the Grinding Wheel Cover in place.

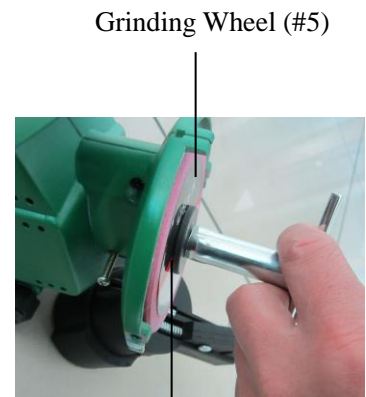
FIGURE 3



Engine Casing (#12+24)

Screw (#45)

FIGURE 4



Grinding Wheel (#5)

Pressure Plate (#4)

Operation

Warning! Always unplug the unit while adjusting chain to be sharpened.

Refer to the assembly drawing on page 10 and the various photographs.

Note: Raise the top housing while adjusting the chain.

1. Clean the chain before sharpening it. Wash it with a non-flammable solvent. Don't use Gasoline to dry the chain.

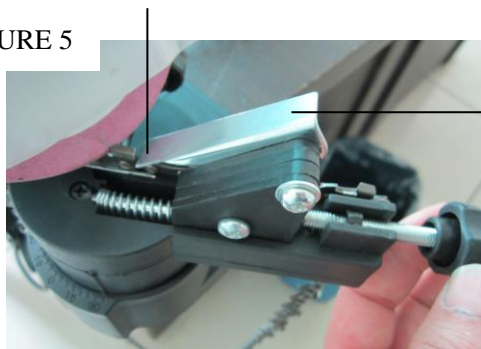
Operation (continued)

2. Lift up the **Chain Stop (#53)** and secure the chain in the **Fixed Disk (#50)**. See **FIGURE 6**.

3. Lower the **Chain Stop (#53)** so that it is positioned on the tooth (blade) you want to start with. See **FIGURE 5**.

Tip of Chain Stop positioned against tooth.

FIGURE 5



Chain Stop (#53)

Screw (#58)

FIGURE 6



Chain Stop (#53)

4. See **FIGURES 5&6**. Loosen the **Lock Wheel (#46)** to allow entire housing to turn. Rotate the housing to match the degree of angle you need on the Angle Gauge. Chains come in various sizes with varying degrees of sharpening angles. Check with your chain manufacturer's manual to determine what degree you need to sharpen at. Once the degree is set, tighten the **Lock Wheel (#46)**.

5. Lower the **Engine Casing (#12+24)** so that the **Grinding Wheel (#5)** skims the chain tooth.

6. Hold it at that position while you Tighten the **Screw (#45)** so that the Wheel will only go down to that point See **FIGURE7**.

7. Depending on the amount of material you wish to remove, tighten or loosen the **Screw (#58)** and set the Lock Nut. See **FIGURE5**.The **Screw (#58)** has a Lock Nut, which will determine how much material is removed. Once you set the Lock Nut, fully tighten the **Screw (#58)**.

FIGURE 7

Screw (#45)



Operation (continued)

8. Lock the chain in the **Fixed Disk (#50)** by turning the **Screw (#52)**.

See **FIGURE 8**. The **Screw (#52)** should be situated so that you can easily release and tighten it . You will need to release it each time you move to the next link, and tighten it to sharpen each link.

FIGURE 8



9. If the chain has been repeatedly sharpened, the chain depth limiting gauges may need to be taken down with a flat file(not included).

See **FIGURES 8&9** .File down each gauge so that they are at a lower level than cutting teeth.

FIGURE 9



1. Put on your protective gear and make sure the immediate area is clear of bystanders.
2. Plug in the **Power Cord (#23)** and press the green button on the **Switch (#25)** to turn on the machine.
3. Slowly lower the grinding wheel as shown in **FIGURE10**. If you notice slight errors in your settings, turn off the unit and unplug it before you make your adjustments.

Note: A good grind occurs when the contact between the wheel and the teeth are gradual and smooth. Do not stop too long time on each tooth.

4. After sharpening one tooth, turn off the machine. Lift the **Engine Casing (#12+24)**, release the **Screw (#52)**,and move the chain so that the next link is positioned in the **Chain Stop (#53)**. Tighten the **Screw (#52)**.**Turn the machine back on and continue** sharpening the next tooth. Repeat this process until you have sharpened all of the links set up for this angle.

FIGURE 10



Operation (continued)

5. After you finish sharpening all of the teeth on the chain, turn off the machine by pushing the red button on the **Switch (#25)** and unplug the unit.

6. Loosen the **Lock Wheel (#46)** and reset the angle so that the first tooth that hasn't been sharpened is positioned against the **Screw (#53)** and locked in as explained on page 6. See **FIGURE 11**.

7. As you did with the first half of the chain, be sure to lower the **Engine Casing (#12+24)** so that the **Grinding Wheel (#5)** skims the chain tooth, and lock it in place. See page 6. Follow all of the steps on page 6 double checking everything before you plug in the machine and turn it on again.

FIGURE 11



Remember to turn off the machine and unplug it if you need to make any adjustments.

8. After you repeat all of the steps under sharpening on page 7, your chain is ready to be mounted on your saw.

Maintenance

1. Keep the Sharpener clean and free of dust, metal debris and dirt.
2. Check the grinding wheel before each use to make sure it isn't damaged. Do not use a grinding wheel if it is chipped, cracked, or worn. You can check if the wheel has cracks not visible to the human eye by hanging it up by the central hole and tapping it with a non metal object (ie: screwdriver handle). If it is in good condition it will produce a metallic sound. A dull sound indicates a crack or break.
3. Replace the grinding wheel when it grinds down to a diameter of 3 inches.

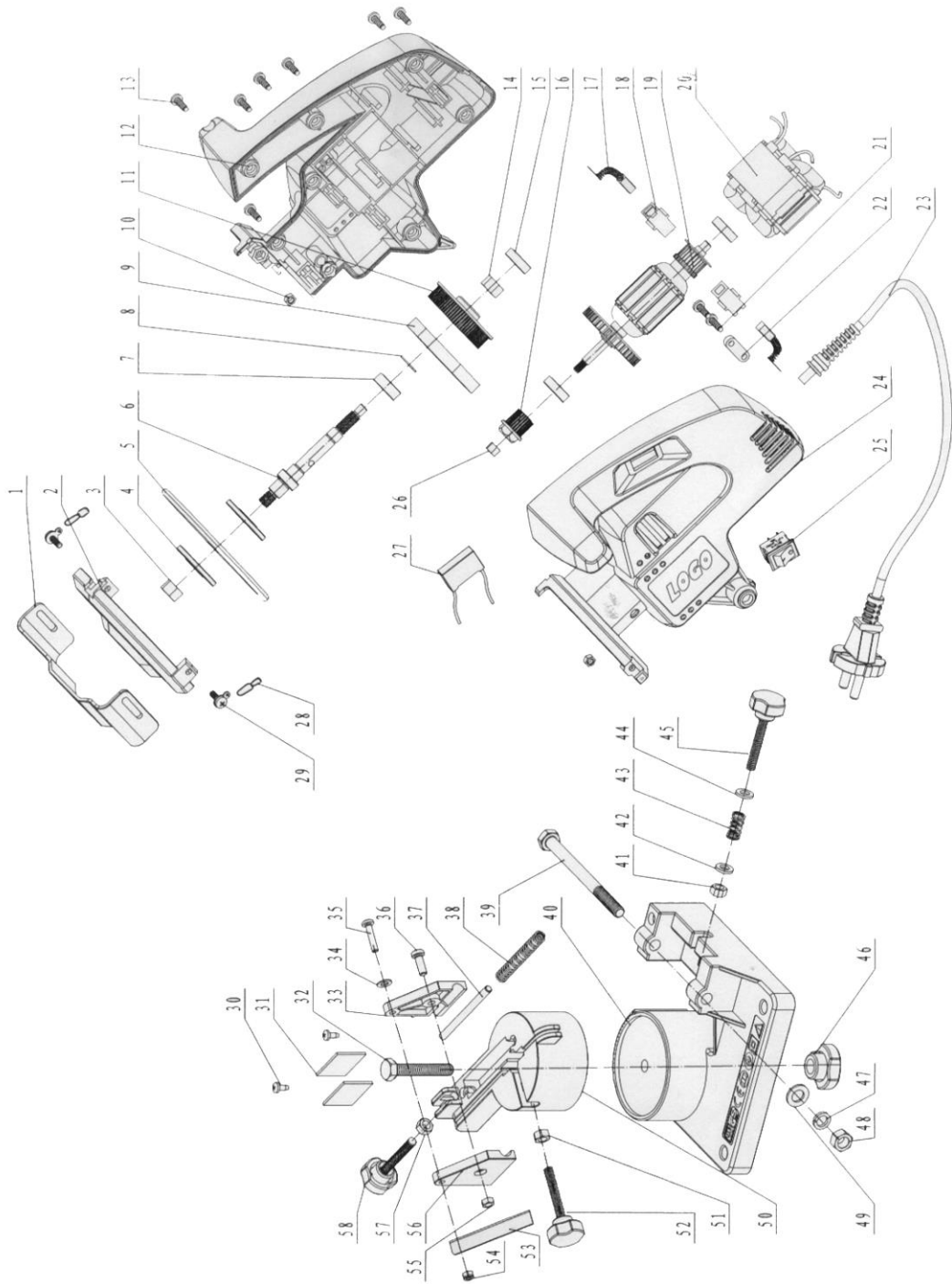
Part#	Description	QTY	Part#	Description	QTY
1	Safe Guard		30	Bolt	
2	Grinding Wheel Cover		31	Clip	
3	Nut		32	Screw	
4	Pressure Plate		33	Left Cover	
5	Grinding Wheel		34	Flat Pad	
6	Output Shaft		35	Screw	
7	Bearing		36	Screw	
8	Shaft Circlip		37	Handspike	
9	Synchronous Belt		38	Spring	
10	Nut		39	Screw	
11	Big Belt Wheel		40	Base	
12	Left Engine Casing		41	Nut	
13	Bolt		42	Flat Pad	
14	Nut		43	Spring	
15	Bearing		44	Flat Pad	
16	Small Belt Wheel		45	Screw	
17	Carbon Brush		46	Lock Wheel	
18	Carbon Brush Holder		47	Spring Pad	
19	Rotor		48	Nut	
20	Stator		49	Flat Pad	
21	Bolt		50	Fixed Disk	
22	Pressing Line Plate		51	Nut	
23	Power Cord		52	Screw	
24	Right Engine Casing		53	Chain Stop	
25	Switch		54	Nut	
26	Nut		55	Nut	
27	Capacitance		56	Right Cover	
28	Chain		57	Nut	
29	Bolt		58	Screw	

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURE AND/OR DISTRIIBUTOR HAS PROVIDED THE PARTS DIARAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER.THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO.OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO

NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

Assembly Drawing



DECLARATION OF CONFORMITY

Declaration of conformity

JR

ZI, 32 rue Aristide Bergès – 31270 Cugnaux - France

Declares that the machinery designated below:

Chain sharpening machine

AFC027

Serial number:

**Complies with the provisions of the Directive "machinery" 2006/42/EC and regulations
National transposing it;**

Also complies with the following European directives:

Electromagnetic compatibility directive 2014/30/EU

**Also complies with European standards, national standards and provisions following
techniques:**

EN 61029-1: 2009+A11: 2010

EN 55014-1: 2006+A1: 2009+A2: 2011

EN 55014-2: 2005

EN 61000-3-2: 2014

EN 61000-3-3: 2013

Responsible of the Technical file: Mr Patriaca

Cugnaux, le 20/07/2018



Philippe MARIE / PDG