



NORDIC SC-L0118 Cordless Chain Sharpener User Manual

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**18V CORDLESS
CHAIN SHARPENER**

NORDIC

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PRODUCT SPECIFICATION

Voltage:	18V
Rated Idle Speed n0:	5000min -1
Adjustment Angle:	35° left/right
Grinding Disc Outer Dia:	Ø 104mm
Grinding Disc Bore hole:	Ø 22mm
Grinding Disc Thickness:	3.2mm
Grinding Disc Rotational Speed:	max 40m/s
Weight (incl accessories)	2.2kg
Sound pressure Level (LPA)	68,5 dB (A); KpA= 3 dB (A)
Sound power level (LwA)	74,1 dB(A); KwA= 3 dB(A)
Vibration (an)	3,05 m/s2; K= 1,5 m/s2

GENERAL POWER TOOL SAFETY WARNINGS

Read all safety warnings and instructions. Failure to heed warnings and follow instructions may result in electric shock, fire and/or serious injury.

Keep safety warnings and instructions for future reference.

BEFORE USE

Remove any packing material and loose parts from unit.

Check the accessories before use. It should be fit with the machine and your purpose.

If the machine is new, the battery must first be charged.

Attention! After long time storage, the battery capacity will be reduce.

A new battery or one which has not been used for an extended period achieves full performance only after charging and discharging cycles. A substantial drop in operating period per charge indicates that the battery is worn out and must be replaced.

WORKING AREA

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- Do not operate in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

ELECTRICAL SAFETY

- Always check that the power supply corresponds to the voltage on the rating plate.
- Plugs must match the outlet. Never modify the plug in any way. Do not use adapter plugs with earthed equipment.

Unmodified plugs and matching outlets will reduce the risk of an electric shock.

- Avoid body contact with earthed surfaces such as pipes, radiators, kitchen ranges and refrigerators. There is an increased risk of an electric shock if your body is earthed.
- Do not expose to rain or wet conditions. If water gets inside, it will increase the risk of an electric shock.
- If operating in a damp location is unavoidable, use a power supply protected by a residual current device (RCD). Using an RCD reduces the risk of an electric shock.

SERVICE

Your power tool should be serviced by a qualified specialist using only standard spare parts. This will ensure that it meets the required safety standards.

- a) Use only the manufacturer's recommended replacement parts and accessories.
- b) Inspect and maintain the machine regularly. Have the machine repaired only by an authorized repairer.
- c) When not in use, store the machine out of the reach of children.

SPECIFIC SAFETY INSTRUCTIONS FOR CHAIN SHARPENER

The chain sharpener is suitable for sharpening all common types of saw chain.

The device is not intended for any other type of application (e.g. grinding with a coolant solution, grinding other workpieces or hazardous materials such as asbestos).

The device is intended to be used by DIY users. It was not designed for heavy commercial use. Commercial use will invalidate the guarantee.

The device is intended for use by adults. Children under the age of 16 may not use the device, except under supervision. The manufacturer is not liable for damage caused by improper use or incorrect operation.

Unpack the device and check for completeness:

- Chain sharpener with pre-installed grinding discs
 - Hand-grip
 - Chain tensioning unit with retaining screw
 - Adjusting screw with fixing nut
 - Two screws with nuts and washers for fixing to the table
- Dispose of the packaging material properly.
- Never use damaged attachment tools. Check attachment tools such as grinding discs for chipping or cracks before each use. If you have checked the attachment tool and attached it, keep yourself and any nearby persons out of the plane of the rotating attachment tool and allow the device to run for 1 min. at the highest rotational speed.

Damaged tools usually break during this test period.

- The allowable rotation speed of the attachment tools must be at least as high as the highest rotation speed indicated on the power tool. Accessories that run faster than the allowable speed can break and fly apart.
- Ensure that you and all persons in the vicinity keep out of the plane of the rotating disk. The protective guard is designed to protect the operator from flying debris and accidental contact with the abrasive surface.
- Grinders may only be used for the recommended attachment options. For example: Never grind using the side surfaces of the grinding discs. Grinding using the side surfaces can cause the grinding disc to burst and fly apart.
- Always use undamaged clamping flanges of the correct size and shape for the grinding disc you selected.

Suitable flanges support the grinding disc and thus reduce the danger of the grinding disc breaking.

- The outside diameter and thickness of the attachment tool must correspond to the dimensions indicated for your power tool. Attachment tools which are wrongly dimensioned cannot be sufficiently shielded or controlled.
- The grinding discs and flanges must fit the grinding spindle of your power tool precisely. Disks that do not fit the grinding spindle precisely rotate unevenly, vibrate sharply and can lead to loss of control.
- Wear personal protective equipment. Depending on the application, use full face shields, eye protection or safety goggles. In so far as it is appropriate, wear dust masks, ear protection, gloves or special aprons which keep small grinding and material particles away from you. Eye protection must be worn to protect against foreign matter flying around during the various applications. Dust or breathing masks should filter the dust that is created during operation. If you are exposed to loud noise for a long time, you may suffer hearing loss.
- Ensure that other people are at a safe distance to your working area. Anyone who enters the working area should wear personal protective equipment. Broken bits from the piece being worked or broken attachment tools can fly away and cause injuries even beyond the direct working area.
- Keep the connection cable away from the rotating attachment tool. If you lose control of the device, the connection cable can become separated or caught and your hand or arm may be pulled into the rotating attachment tool.
- Clean the ventilation slits of your power tool routinely. The motor air pulls dust into the housing and, should too much metallic dust collect, could cause electrical hazards.
- Never use the power tool near flammable material. Never use the power tool when it is standing on a flammable surface such as wood. Sparks could ignite this material.
- Do not use attachment tools which require liquid coolant. Using water or another coolant could lead to electrical shock.
- Keep the mains cable and extension cable away from the grinding disc. In the event that it is damaged or severed, immediately disconnect the plug from the socket. Do not touch the cable before it has been disconnected from the mains. Risk of electric shock. The replacement of the plug or the connection line must always be executed by the manufacturer of the electric tool or his/her customer service in order to avoid any hazards.

ADDITIONAL SAFETY INSTRUCTIONS FOR BATTERIES AND CHARGERS



Use only batteries and chargers applicable for this machine.

BATTERIES

- Never attempt to open for any reason.
- Do not store in locations where the temperature may exceed 40 °C.
- Charge only at ambient temperatures between 4 °C and 40 °C.
- When disposing of batteries, follow the instructions given in the section “Protecting the environment”.
- Do not cause short circuits. If connection is made between the positive (+) and negative (-) terminal directly or via accidental contact with metallic objects, the battery is short circuited and an intense current will flow causing heat generation which may lead to casing rupture or fire.
- Do not heat. If batteries are heated to above 100 °C, sealing and insulating separators and other polymer components may be damaged resulting in electrolyte leakage and/or internal short circuiting leading to heat generation causing rupture or fire. Moreover do not dispose of the batteries in fire, explosion and/or intense burning may result.
- Under extreme conditions, battery leakage may occur. When you notice liquid on the battery, proceed as

follows:

- Carefully wipe the liquid off using a cloth. Avoid skin contact.
- In case of skin or eye contact, follow the instructions below:
 1. Immediately rinse with water. Neutralize with a mild acid such as lemon juice or vinegar.
 2. In case of eye contact, rinse abundantly with clean water for at least 10 minutes.
 3. Consult a physician.















Fire hazard! Avoid short-circuiting the contacts of a detached battery. Do not incinerate the battery.

CHARGERS

- Never attempt to charge non-rechargeable batteries.
- Have defective cords replaced immediately.
- Do not expose to water.
- Do not open the charger.
- Do not probe the charger.
- The charger is intended for indoor use only.

SYMBOLS

In this manual and/or on the machine the following symbols are used:

	Denotes risk of personal injury or damage to the tool.
	Read manual before use
	Wear eye protection
	Wear ear protection
	Wear safety gloves
	In accordance with essential requirements of the European directive(s)
	Class II – The machine is double insulated; Earthing wire is therefore not necessary (only for charger)
	Ambient temperature 40°C max. (only for battery)
	Do not expose charger and battery pack to water
	Use battery and charger only in closed rooms
	Do not incinerate battery pack or charger
	Protect from the rain.

OPERATION

Before using the equipment:

BATTERY CHARGER

The lithium-ion battery can be charged at any time and will not develop a “memory” when charged after only a partial discharge. It is not necessary to run down the battery pack charge before recharging. Remove the battery pack from the tool when convenient for you and your job. You can “top-off” your battery pack’s charge before starting a big job or long period of use.

Due to lithium-ion’s fade-free properties, the only time it is necessary to charge the lithium-ion battery pack is when the pack has reached the end of its charge. To signal the end of charge, power to the tool will drop quickly. Charge the battery pack as needed.

CHARGING THE BATTERY


This lithium-ion battery pack is shipped partially charged. Before using it the first time, fully charge the battery pack. A fully discharged battery pack with a temperature between 0°C and 40°C will charge in about 1 hour.


Plug the charger adapter into power source. The green light on the charger stand will illuminate, indicating the charger is powered.

Slide the battery all the way into the charger stand. The red light on the charger stand will illuminate, indicating

that the battery is charging.

The red light will go off after charging is complete and a green light will appear.

 **NOTE:** Batteries may become warm while charging. This is normal. If the battery is hot after continuous use in the tool, allow it to cool down to room temperature before charging. This will extend the life of your batteries.

 **WARNING:** Always disconnect the battery pack from the tool before any assembly, adjustments or changing accessories.

OVERVIEW (SEE FIG. A)

1. On/off switch 2. Grinding head 3. Grinding disc cover 4. Hand-grip 5. Mounting screws for grinding disc cover 6. Adjusting screw with adjusting nut for the depth stop 7. Chain guide rail 8. Grinding base 9. Adjusting nut for the chain tensioning unit 10. Scale for sharpening angle (+35° to -35°) 11. Chain tensioning unit with rotary plate 12. Tension lever for fixing chain 13. Adjusting screw with adjusting nut for the chain feed 14. Stop 15. Cable holder (not depicted)	16. Mains connection cable 17. Grinding disc 18. Viewing guard 19. LED lamp (not depicted) 20. Ventilation holes (not depicted) FIG. C 21. Worktop 22. Stop notch 23. Screws 24. Nuts 24a. Washers FIG. D 25. Cutting tooth 26. Depth gauge nib FIG. E 17a. Grinding disc nut
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DESCRIPTION OF FUNCTIONS


The device must be securely fixed to a worktop before the initial start-up. It is powered by an electric motor with thermal protection and restart stop for additional safety.

The sharpening angle can be easily adjusted from -35° to +35°. The chain guide rail has a variably adjustable stop. Sharpening is carried out by swiveling the grinding head. The device is provided with a viewing guard for the protection of the user.

Please refer to the descriptions below for information on how the operating elements work.

ASSEMBLY (FIG. B)

 Ensure that you have sufficient space in which to work, and that you do not endanger other people.

 Always fasten the device on to the worktop with screws of sufficient length and thickness in order to maintain control of the device.

1. Remove the cable ties.
2. Screw the hand grip (4) onto the grinding head (2).
3. Loosen the retaining screw (9) on the chain tensioning unit (11).
4. Place the chain tensioning unit (11) on the grinding base (8) and tighten it with the retaining screw (9).
5. Secure the mains connection cable (16) in the cable holder (15).


FIXING ADJUSTING SCREW:


6. Screw the adjusting screw with the adjusting nut for the depth stop (A 6) through the threaded hole on the back of the device.


SETTING UP THE DEVICE (FIG. C):


- Thickness of table edge: 20-30 mm

- Drill diameter: 10.5 mm
 - Screw gauge: M10
1. Use the stop notch (22) to position the device on the worktop (21). The grinding base (8) must project over the edge of the table.
 2. Mark the drill holes with a pen and remove the device.
 3. Drill two holes into the worktop (21).
 4. Screw the grinding base to the worktop using the screws (23), washers (24a) and nuts (24) supplied.


 **Caution!** Only use grinding discs and accessories recommended by the manufacturer. Using other attachment tools and other accessories may represent a risk of injury to you. Never operate the device without a viewing guard. Do not use any saw blades. Always remove the mains plug before working on the device. Always inspect the grinding disc before starting the device: Check the distance between the viewing guard and the grinding disc. Do not use any broken, cracked or otherwise damaged grinding discs. Only switch the device on once it is safely fixed to the worktop. Never operate the device without a viewing guard, chain tensioning unit or grinding disc cover. Risk of injury!

 Make sure that you have a secure footing when working and always ensure that the device is securely fastened to the worktop.


 Only use grinding discs sold in specialist shops, the dimensions of which do not deviate from the dimensions given in the technical data (Ø104×3.2×Ø22 mm). Information on reordering grinding discs can be found under "Spare parts/ accessories".

 **Caution!** Risk of injury! Wear eye and hearing protection!

When working with the saw chain, wear cut-resistant protective gloves and, if necessary, an apron to prevent cuts.

 Keep your hands away from the grinding disc and teeth of the chain when the device is in operation. Do not move the chain by hand. There is a risk of injury.

SWITCHING ON AND OFF

 Only switch the device on once it is safely fixed to the worktop.

1. Press the ON/OFF switch (position "I") to start the device. The device starts up (see 1).
2. Press the ON/OFF switch (position "0") to switch off the device. The device switches off (see 1).

 The grinding disc still runs even after the device has been switched off. There is a risk of injury.


THERMAL PROTECTION WITH RESTART STOP:


If the device automatically shuts down due to overuse, it will not restart automatically.

Press the ON/OFF switch (position "I") again to start the device. The device starts up (see A 1).

TRIAL RUN: Always carry out a trial run of at least 30 seconds duration without load before carrying out your first grinding procedure and after every grinding disc replacement. Switch the device off immediately if the disc is not rotating smoothly, if considerable vibration occurs or if you hear abnormal noises.

SHARPENING THE SAW CHAIN (FIG. D)

 When working under dust-prone conditions, ensure ventilation holes are clear.

 An incorrectly sharpened saw chain can cause damage and increases the danger of saw kickback! Ensure the chain is precisely aligned. Observe the correct sharpening angle and saw chain minimum dimensions. Remove as little material as possible. Do not grind into driving links (a) or connecting links (b), otherwise the saw chain may break. If this is not observed, there is a risk of accidents when working with the chainsaw.

INFORMATION ON SHARPENING

- Clean the saw chain before sharpening. Remove oily wood or oil residues with a brush or cloth.

- After sharpening, all the cutting links must have the same length and breadth.
- The chain has become worn down and must be replaced with a new saw chain when only around 4 mm of the cutting tooth remains.

INSERTING THE SAW CHAIN:

1. To open the chain guide rail, turn the tension lever (12) counterclockwise. To do this, return the tension lever to its initial position several times. To release the tension lever, pull the tension lever outwards and, after returning it to its original position, allow it to reengage.
2. Place the saw chain into the chain guide rails (7). The cutting edges must face the grinding discs (17).
3. Fold the stop (14) down and pull back the saw chain until the cutting tooth (25) to be sharpened rests on the stop (see figure 1).

ADJUSTING THE WORKING ANGLE:

4. Unscrew the retaining screw (9) and use the scale (10) to adjust the required sharpening angle α on the rotary plate of the chain tensioning unit (11). Follow the instructions of the saw chain manufacturer regarding the required sharpening angle.
5. Retighten the retaining screw.

ADJUSTING THE STOP:

6. Move the grinding head (2) on the handgrip (4) downwards with the motor switched off.
 7. Using the adjusting screw for the chain feed (13a), bring the cutting tooth (25) closer to the grinding disc (17) until the cutting tooth is in contact with the grinding disc (see figure 2). Secure the adjusting screw (13a) using the adjusting nut (13b).
 8. Fix the chain links in the chain guide rail (7) by turning the tension lever (12) clockwise (see 1.).
 9. Adjust the depth stop using the adjusting screw (6a) so that the grinding disc (17) touches the base of the tooth (see figure 2). Secure the grinding depth with the adjusting nut (6b).
- SHARPENING:**
10. Turn the device on (see "Switching on/ off").
 11. Press the handgrip (4) gently to move the grinding head (2) downwards and sharpen the cutting tooth (25). The grinding disc (17) must not be brought to a standstill with the brakes. To avoid this, reduce the pressure in good time.
 12. Switch off the device to move the saw chain onward. Loosen the tension lever (12) and fix the next chain link to be sharpened using the adjusted stop (14) and the tension lever in the chain guide rail (7).



First sharpen the teeth on one side of the chain. Then adjust the sharpening angle and sharpen the teeth on the other side.

TEST DEPTH GAUGE DISTANCE (SEE FIG D 3)

The cutting parts of the chain are the cutting links which consist of a cutting tooth (25) and a depth gauge nib (26). The vertical distance between these two determines the depth gauge distance A.

1. After every third sharpening, check the depth gauge distance A according to the saw chain manufacturer's instructions.
2. File the tip of the depth gauge nib (26) with a flat file and round off the depth gauge nib slightly after resetting. The original shape must be maintained.

REPLACING THE GRINDING DISC (SEE FIG. E)

- Never operate the device without a viewing guard (A18).
- Ensure that the rotation speed stated on the grinding disc (A17) is the same or higher than the nominal rotation speed of the device. Ensure that the disc dimensions match those of the device.
- Only use grinding discs in perfect working order (sound test).
- Only use grinding discs with a locating hole of Ø 22mm. Never re-drill a locating hole which is too small for the grinding disc to make it larger.
- Never use separate bushings or adapters in order to make grinding discs with a hole that is too large fit the device.
- Do not use any saw blades.
- Always reassemble the device completely after replacing the grinding disc.
 1. Unscrew the 3 mounting screws to the grinding disc cover (5).
 2. Remove the grinding disc cover (3).
 3. Unscrew the grinding disc nuts (17a) by hand.
 4. Remove the grinding disc from the holder (17).
 5. Place the new grinding disc onto the holder and manually screw on the grinding disc nut.
 6. Screw the grinding disc cover (3) back on.

CLEANING AND MAINTENANCE



DANGER! Always pull out the mains power plug before starting any cleaning work.

CLEANING

Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible. Wipe the equipment with a clean cloth or blow it with compressed air at low pressure.

We recommend that you clean the device immediately each time you have finished using it.

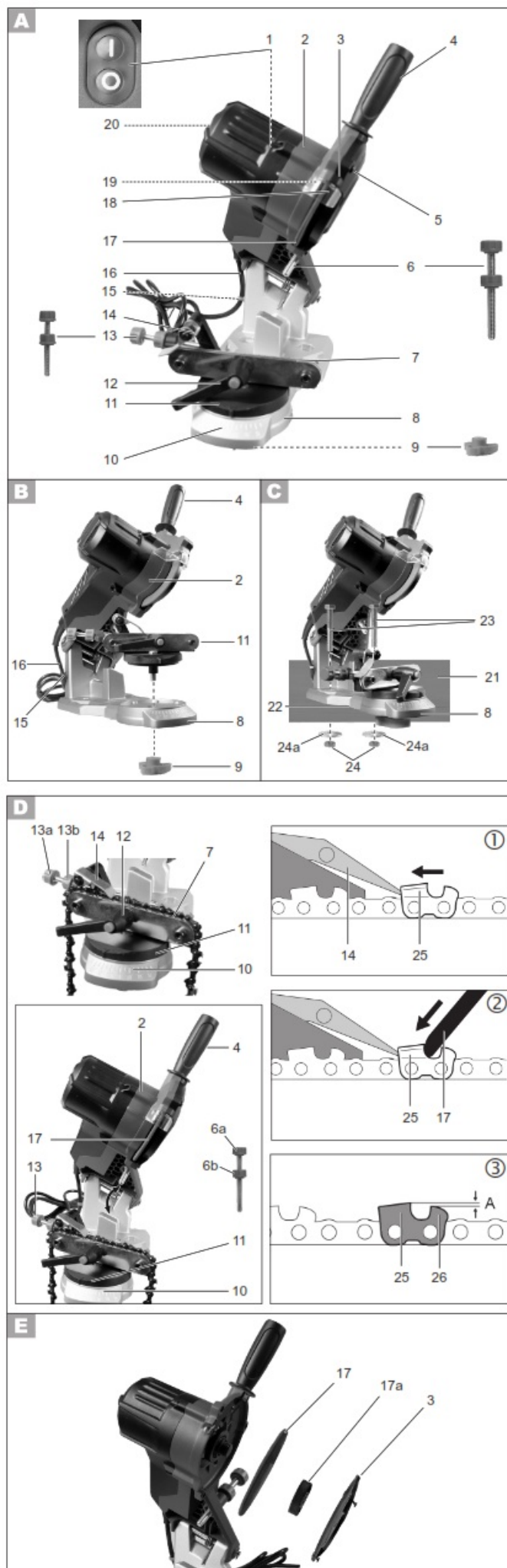
Clean the equipment regularly with a moist cloth and some soft soap. Do not use cleaning agents or solvents; these could attack the plastic parts of the equipment. Ensure that no water can seep into the device. The ingress of water into an electric tool increases the risk of an electric shock.

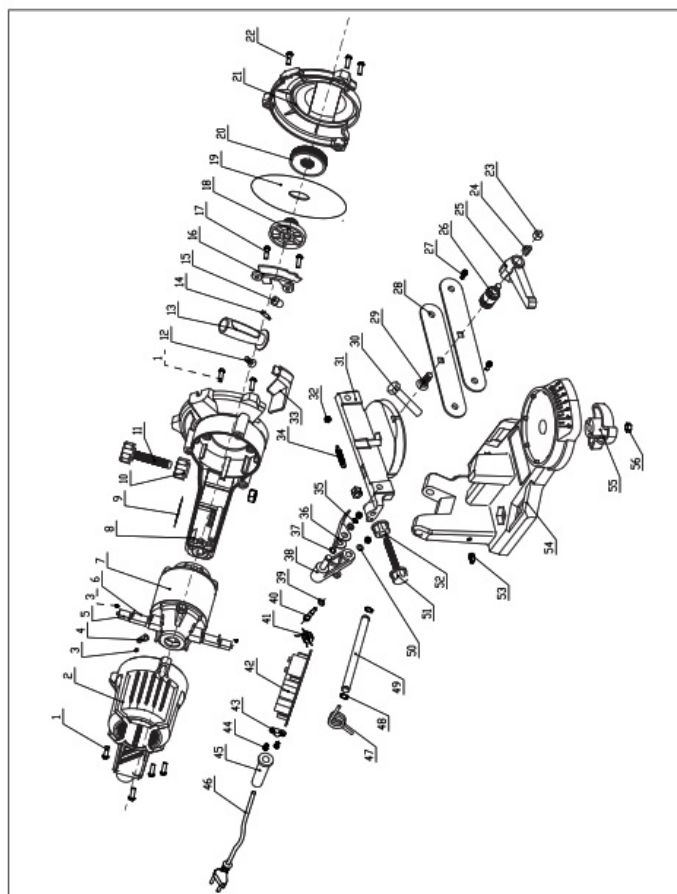
MAINTENANCE

There are no parts inside the equipment which require additional maintenance.


STORING

Store the machine, operating instructions and where necessary the accessories in the original packaging in a dry place. In this way you will always have all the information and parts ready to hand.





Documents / Resources

 <p>NORDIC 18V CORDLESS CHAIN SHARPENER</p>	<p>NORDIC SC-L0118 Cordless Chain Sharpener [pdf] User Manual</p> <p>SC-L0118 Cordless Chain Sharpener, SC-L0118, Cordless Chain Sharpener, Chain Sharpener, Sharpener</p>
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