

Cordless Chain Saw

MODEL UC120D



INSTRUCTION MANUAL

WARNING:

For your personal safety, READ and UNDERSTAND before using. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

SPECIFICATIONS

Model UC120D									
Chain speed	Length o	of	f Saw chain						
per minute	guide ba		Туре	Pitch		No. of drive links	Overall length	Net weight	
160 m/min.	115 mm (4-1/2")		25 AP	1/4"		42	468 mm (18-1/2")	2.2 kg (4.8 lbs)	
Battery Cartridge 1222		Model DC1414 Battery Charger							
Voltage		Input			Output		Charging time		
12 V		A.C. only 50 Hz - 60 Hz		D.C	. 7.2 V - 14.4 V	45	45 min.		
Battery Cartridge 1234		Model DC1414 Battery Charger							
Voltage		Input			Output		Charging time		
12 V		A.C. only 50 Hz - 60 Hz			D.C	. 7.2 V - 14.4 V	60 min.		
Battery Cartridge 1235		Model DC1414 Battery Charger							
Voltage		Input			Output		Char	Charging time	
12 V		A.C. only 50 Hz - 60 Hz			D.C	. 7.2 V - 14.4 V	70 min.		

• Manufacturer reserves the right to change specifications without notice.

• Specifications may differ from country to country.

INPORTANT SAFETY INSTRUCTIONS

USA013-1

▲ WARNING: WHEN USING A CORDLESS CHAIN SAW, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND INJURY TO PERSONS, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS

1. Keep Work Area Clean

Cluttered areas invite injuries. Do not start cutting until you have a clear work area, secure footing, and a planned retreat path from the falling tree. Consider Work Area Environment Use extreme caution when cutting small size brush and saplings because the slender material may catch the saw chain and be whipped toward you or pull you off balance. Do not operate a chain saw in a tree unless specifically trained to do so. When cutting a limb that is under tension be alert for spring back so that you will not be struck when the tension in the wood fibers is released. Do not expose chain saw to rain. Do not use chain saw in damp or wet locations. Do not use chain saw in presence of flammable liquids or gases.

- 3. Guard Against Electric Shock Prevent body contact with grounded surfaces. For example: metal pipes, wire fences.
- Keep Children Away Do not let visitors contact chain saw. All visitors should be kept away from work area.
- Store Idle Chain Saw When not in use, chain saws should be stored in a dry, and high or locked-up place - out of the reach of children. When storing saw, use a scabbard or carrying case.
- Do not Force Chain Saw It will do the job better and safer at the rate for which it was intended.
- 7. Use Right Tool

Cut wood only. Do not use chain saw for purpose not intended - for example - Do not use chain saw for cutting plastic, masonry non-wood building materials.

8. Dress properly

Do not wear loose clothing or jewelry. They can get caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.

9. Use Safety Glasses

Also use safety footwear; snug fitting clothing; protective gloves; and head protection.

10. Carrying Saw

Carry the chain saw with the saw stopped, finger off the switch, the guide bar and saw chain to the rear. 11. Maintain Chain Saw With Care

Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Keep handles dry, clean, and free from oil and grease.

12. Disconnect Chain Saw

Disconnect battery cartridge from chain saw when not in use, before servicing, and when changing accessories and attachments, such as saw chain and guard.

13. Stay Alert

Watch what you are doing. Use common sense. Do not operate chain saw when you are tired. Keep all parts of the body away from the saw chain when the motor is operating. Before you start the saw, make sure the saw chain is not contacting anything.

14. Check Damaged Parts

Before further use of the chain saw, a quard or other part that is damaged 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 center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use chain saw if switch does not turn it on and off. Do not operate a chain saw that is damaged, improperly adjusted, or is not completely and securely assembled. Be sure that the saw chain stops moving when the trigger is released.

15. Guard Against Kickback

WARNING: KICKBACK may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a lightning fast reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious injury to user.

The following precautions should be followed to minimize kickback.

- (1) Grip Saw Firmly. Hold the chain saw firmly with both hands when the motor is running. Use a firm grip with thumbs and fingers encircling the chain saw handles.
- (2) Do not over reach.
- (3) Keep proper footing and balance at all times.
- (4) Do not let the nose of the guide bar contact a log, branch, ground, or other obstruction.
- (5) Do not cut above shoulder height.
- (6) Use devices such as special guide bars that reduce the risks associated with kickback.

- (7) Only use replacement bars and chains specified by the manufacturer.
- Replacement Parts when servicing use only identical replacement parts.
- Before marking a felling cut, remove dirt, stones, loose bark, nails, staples and wire from the tree.
- 18. Secure the log so that it will not roll or move suddenly during operation.
- 19. AVOID UNINTENTIONAL STARTING. Do not carry the tool with finger on switch. Be sure switch is in OFF position before inserting battery cartridge.
- 20. Attention! Do not expose this tool to rain.
- 21. The chain saw must not be left outdoors during rain and it must not be used when wet.
- 22. Disconnect battery pack from tool or place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

SAVE THESE INSTRUCTIONS



Bar Tip Guard - An attachment that may be provided on the end of the guide bar to prevent the chain at the end of the guide bar from contacting the wood.

Chain Saw powerhead - A chain saw without the saw chain and guide bar.

Drive Sprocket or Sprocket - The toothed part that drives the saw chain.

Felling - The process of cutting down a tree.

Front Handle - The support handle located at or toward the front of the chain saw.

Handle Guard Front - A structural barrier between the front handle of a chain saw and the guide bar, typically located close to the hand position on the front handle and sometimes employed as an activating lever for a chain brake.

Guide Bar - A solid railed structure that supports and guides the saw chain.

Kickback - The backward or upward motion, or both of the guide bar occurring when the saw chain near the nose of the top area of the guide bar contacts any object such as a log or branch, or when the wood closes in and pinches the saw chain in the cut.

Kickback, **Pinch** - The rapid pushback of the saw which can occur when the wood closes in and pinches the moving saw chain in the cut along the top of the guide bar.

Kickback, Rotational - The rapid upward and backward motion of saw which can occur when the moving saw chain near the upper portion of the tip of the guide bar contacts an object, such as a log or branch.

Rear Handle - The support handle located at or toward the rear of the saw.

Reduced Kickback Guide Bar - A guide bar which has been demonstrated to reduce kickback significantly. **Replacement Saw Chain** - A chain that complies with the kickback performance requirements of ANSI B175.1 when tested with specific chain saws. It may not meet the ANSI performance requirements when used with other saws.

Saw Chain - A loop of chain having cutting teeth, that cut the wood, and that is driven by the motor and is supported by the guide bar.

Spiked Bumper (Spike) - The pointed tooth or teeth for use when felling or bucking to pivot the saw and maintain position while sawing.

Switch - A device that when operated will complete or interrupt and electrical power circuit to the motor of the chain saws.

Lock-Off Button - A Movable stop that prevents the unintentional operation of the switch until manually actuated.

FUNCTIONAL DESCRIPTION



1. Battery cartridge

2. Button



- 1. Battery cartridge
- 2. Charging light
- 3. Battery charger

△ CAUTION:

• Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.

Installing or removing battery cartridge

- Always switch off the tool before insertion or removal of the battery cartridge.
- To remove the battery cartridge, withdraw it from the tool while pressing the buttons on both sides of the cartridge.
- To insert the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Always insert it all the way until it locks in place with a little click. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.
- Do not use force when inserting the battery cartridge. If the cartridge does not slide in easily, it is not being inserted correctly.

Charging

- Plug the battery charger into the proper AC voltage source. The charging light will flash in green color.
- Insert the battery cartridge so that the plus and minus terminals on the battery cartridge are on the same sides as their respective markings on the battery charger. Insert the cartridge fully into the port so that it rests on the charger port floor.
- When the battery cartridge is inserted, the charging light color will change from green to red and charging will begin. The charging light will remain lit steadily during charging.
- When the charging light color changes from red to green, the charging cycle is complete.
- If you leave the battery cartridge in the charger after the charging cycle is complete, the charger will switch into its "trickle charge (maintenance charge)" mode.

• After charging, unplug the charger from the power source.

△ CAUTION:

- The battery charger is for charging Makita battery cartridge. Never use it for other purposes or for other manufacturer's batteries.
- When you charge a new battery cartridge or a battery cartridge which has not been used for a long period of time, it may not accept a full charge. This is a normal condition and does not indicate a problem. You can recharge the battery cartridge fully after discharging it completely and recharging a couple of times.
- If you charge a battery cartridge from a just-operated tool or a battery cartridge which has been left in a location exposed to direct sunlight or heat for a long time, the charging light may flash in red color. If this occurs, wait for a while. Charging will begin after the battery cartridge cools. The battery cartridge will cool faster if you remove the battery cartridge from the battery charger.
- If the charging light flashes alternately in green and red color, a problem exists and charging is not possible. The terminals on the charger or battery cartridge are clogged with dust or the battery cartridge is worn out or damaged.

Trickle charge (Maintenance charge)

If you leave the battery cartridge in the charger to prevent spontaneous discharging after full charge, the charger will switch into its "trickle charge (maintenance charge)" mode and keep the battery cartridge fresh and fully charged.

Tips for maintaining maximum battery life

- 1. Charge the battery cartridge before completely discharged.
 - Always stop tool operation and charge the battery cartridge when you notice less tool power.
- 2. Never recharge a fully charged battery cartridge.
 - Overcharging shortens the battery service life.

- Charge the battery cartridge with room temperature at 10°C - 40°C (50°F - 104°F).
 - Let a hot battery cartridge cool down before charging it.
- 4. Charge the Nickel Metal Hydride battery cartridge when you do not use it for more than six months.

Switch action

△ CAUTION:

• Before inserting the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To prevent the switch trigger from being accidentally pulled, a lock-off button is provided.

To start the tool, depress the lock-off button and pull the switch trigger. Release the switch trigger to stop.



1. Switch trigger

2. Lock-off button

ASSEMBLY

△ CAUTION:

• Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

Installing or removing saw chain

△ CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before installing or removing the saw chain.
- Always wear gloves when installing or removing the saw chain.
- Use only saw chain and guide bar with bar tip designed for this chain saw (see the Extract from the spare parts list).

• In order to prevent kickback, do not remove the bar tip or replace the guide bar with one without a bar tip.

Loosen the screws with a screwdriver. Remove the sprocket guard.

Loosen the hex socket head bolt with the hex wrench pro-

vided. Remove the guide bar.



1. Screw

2. Sprocket guard



- 1. Hex socket head bolt
- 2. Hex wrench
- 3. Guide bar



Fit the saw chain over the guide bar. Notice that the cutters must be facing the revolving (arrow) direction.

- 1. Guide bar
- 2. Cutter



- 1. Sprocket
- 2. Saw chain tension adjusting spring
- 3. Concave portion of guide bar

Fit the saw chain over the sprocket. Install the guide bar so that its concave portion will contact the saw chain tension adjusting spring.

Tighten the bolt to secure the guide bar. Install the sprocket guard and tighten the screws to secure it.

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Adjusting saw chain tension

The saw chain may become loose after many hours of use. From time to time check the saw chain tension before use.

001736 mm

1. Hex socket head bolt



^{1.} Hex socket head bolt

2. Hex wrench

OPERATION



1. Chain oil

2. Saw chain

Grasp the saw chain in the middle of the guide bar and lift up. The gap between the guide bar and the tie strap of the saw chain should be approx. 2 - 3 mm (5/64" - 7/64"). If the gap is not approx. 2 - 3 mm (5/64" - 7/64"), slightly loosen the hex socket head bolt which secures the guide bar. The gap will be automatically adjusted to approx. 2 -3 mm (5/64" - 7/64") by the saw chain tension adjusting spring.

Then tighten the hex socket head bolt securely after making sure that gap is approx. 2 - 3 mm (5/64" - 7/64").

Lubrication

▲ CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before lubricating the saw chain.
- Always use vegetable oil when pruning fruit trees. Mineral oil may harm trees.

Lubricate the whole saw chain evenly before each use. Also lubricate it whenever replacing a fully discharged battery cartridge with a charged one.

Pruning trees

△ CAUTION:

- Keep all parts of the body away from the saw chain when the motor is operating.
- Hold the chain saw firmly with both hands when the motor is running.
- Do not overreach. Keep proper footing and balance at all times.

Bring the tip guide/lower guide into contact with the branch to be cut before switching on. Cutting without bringing the tip guide/lower guide into contact with the branch may cause the guide bar to wobble, resulting in injury to operator.



1. Tip guide



1. Lower guide



When cutting thick branches, first make a shallow undercut and then make the finish cut from the top.



If you try to cut off thick branches from the bottom, the branch may close in and pinch the saw chain in the cut.

If you try to cut off thick branches from the top without a shallow undercut, the branch may splinter.

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If you cannot cut the timber right through with a single stroke: Apply light pressure to the handle and continue sawing and draw the chain saw back a little; then apply the spike a little lower and finish the cut by raising the handle.

Carrying tool



Always remove the battery cartridge from the tool and cover the guide bar with the scabbard before carrying the tool. Also cover the battery cartridge with the battery cover.

- 1. Scabbard (chain cover)
- 2. Battery cover

MAINTENANCE

▲ CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.
- Always wear gloves when performing any inspection or maintenance.

Filing saw chain

File the saw chain so that the cutters meet the specifications indicated in illustration.



Top plate angle
Top filing angle

- 2. Side plate angle
- 4. Depth gauge



1. Filing cutters

Use a round file 4 mm (5/32") in outer diameter to file the cutters. Apply it to the cutter so that it will be angled 30° to the guide bar and protrude 1/5 of the outer diameter from the tip of the cutter. Hold the file level and push it away from you while filing. Be careful not to touch the cutters with the file when pulling it back toward you.





Filing depth gauges
 Use a flat file to file the depth gauge. Hold the file level
 when filing. Round off the front corner of the depth
 gauge to maintain its original shape.



After filing the saw chain, immerse it in oil and wash off filing chips and sawdust from the saw chain.



2. Screwdriver

Cleaning guide bar

Chips and sawdust will build up in the guide bar groove, clogging it and impairing oil flow. Always clean out the chips and sawdust when sharpening or replacing the saw chain.

Storing tool

Clean the tool before storing. Remove any chips and sawdust from the tool after removing the chain cover. After cleaning the tool, run it under no load. Then remove the battery cartridge from the tool and lubricate the saw chain and guide bar.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

EN0001-1



The only way to dispose of a Makita battery is to recycle it. The law prohibits any other method of disposal.

To recycle the battery:

- 1. Remove the battery from the tool.
- 2. a) Take the battery to your nearest Makita Factory Service Center
 - or
 - b) Take the battery to your nearest Makita Authorized Service Center or Distributor that has been designated as a Makita battery recycling location.

Call your nearest Makita Service Center or Distributor to determine the location that provides Makita battery recycling. See your local Yellow Pages under "Tools-Electric".



ACCESSORIES

△ CAUTION:

 These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita service center.

- Various type of Makita genuine batteries and chargers
- Saw chain
- Scabbard
- Guide bar complete
- File
- Hex wrench
- Oil supply

First-Class Postage Required

Post Office will not deliver without proper postage.

Makita U.S.A., Inc. 14930 Northam Street La Mirada, CA 90638-5753

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MAIL THIS PORTION

Your answers to the following questions are appreciated.

1. This product was purchased from:	3. How did you learn about this product:						
Home Center Other () Magazine Radio						
Hardware/Lumber Store	From Dealer Exhibition						
Tool Distributor	Newspaper From Friend						
Industrial Supply	Store Display Previous Usage						
Construction Supply	Catalog Other ()						
2. Use of the product is intended for:	4. Most favored points are:						
Construction Trade	Design Repair Service						
Industrial Maintenance	Features Durability						
Home Maintenance	Size Power						
Hobby	Price Other ()						
Other ()	Makita Brand						
5. Any comments:							
DATE PURCHASED	MODEL NO.						
MONTH DAY YEAR		Paste					
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INTL. LAST NAME / COMPANY NAME	Married Single M F	Paste					
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AGE: Under 19 20-29	30-39 40-49 50-60 Over 60	Paste					
		<u> </u>					
BE SURE TO COMPLETE THE CUSTOMER'S PORTION OF THIS FORM AND RETAIN FOR YOUR RECORDS.							
		Ð					
Please return this portion by facsimile or mail.							
Facsimile No: (714) 522-813							

Paste

FACTORY SERVICE CENTERS

1-800-4-MAKITA

RETAIN THIS PORTION FOR YOUR RECORDS

ARIZONA

3707 E. Broadway Rd., Ste. 6 Phoenix, AZ 85040 (602) 437-2850

CALIFORNIA 41850 Christy St. Fremont, CA 94538-5107 (510) 657-9881

14930 Northam St. La Mirada, CA 90638-5753 (714) 522-8088

1970 Fulton Avenue Sacramento, CA 95825 (916) 482-5197

7674 Clairemont Mesa Blvd. San Diego, CA 92111 (858) 278-4471

16735 Saticoy St., Ste. 105 Van Nuys, CA 91406 (818) 782-2440

COLORADO

11839 E. 51st Ave. Denver, CO 80239-2709 (303) 371-2850 FLORIDA 750 East Sample Road Pompano Beach, FL 33064 (954) 781-6333

GEORGIA 4680 River Green Parkway NW Duluth, GA 30096 (770) 476-8911

ILLINOIS 1450 Feehanville Dr. Mt. Prospect, IL 60056-6011 (847) 297-3100

MARYLAND 7397 Washington Boulevard, Suite 104 Elkridge, MD 21075 (410) 796-4401

MASSACHUSETTS 232 Providence Hwy. Westwood, MA 02090 (781) 461-9754

MINNESOTA 6427 Penn Ave. South Richfield, MN 55423 (612) 869-5199 MISSOURI 9876 Watson Road St. Louis, MO 63126-2221 (314) 909-9889

NEBRASKA 4129 S. 84th St. Omaha, NE 68127 (402) 597-2925

NEVADA 3375 S. Decatur Blvd. Suites. 22 - 24 Las Vegas, NV 89102 (702) 368-4277

NEW JERSEY 251 Herrod Blvd. Dayton, NJ 08810-1539 (609) 655-1212

NEW YORK 4917 Genessee Street Cheektowaga, NY 14225 (716) 685-9503

OREGON 828 19th Avenue, N.W. Portland, OR 97209 (503) 222-1823 PENNSYLVANIA 1704 Babcock Blvd. Pittsburgh, PA 15209 (412) 822-7370

PUERTO RICO 200 Guayama St. Hato Rey, PR 00917 (787) 250-8776

TENNESSEE 1120 Elm Hill P. Suile 170 Nashville, TN 372 (615) 248-3321

TEXAS 12801 Stemmons Fwy Ste. 809 Farmers Branch, TX 75234 (972) 243-1150

12701 Directors Dr. Stafford, TX 77477-3701 (281) 565-8665

3453 IH-35 North, Ste. 101 San Antonio, TX 78219 (210) 228-0676

WISCONSIN

Lincoln Plaza Shopping Ctr. 2245 S. 108th St. West Allis, WI 53227 (414) 541-4776

CUSTOMER'S RECORD

When you need service: Send	Date Purchased
complete tool (prepaid) to one of the Makita Factory Service	Dealer's Name & Address
Centers listed, or to an Authorized	
Makita Service Center. Be sure	
to attach a letter to the outside of the carton detailing the problem	Model No.
with your tool.	Serial No.

WARNING

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

- · lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures 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 those dust masks that are specially designed to filter out microscopic particles.

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others:
- repairs are required because of normal wear and tear:
- the tool has been abused, misused or improperly maintained:
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

Makita Corporation

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