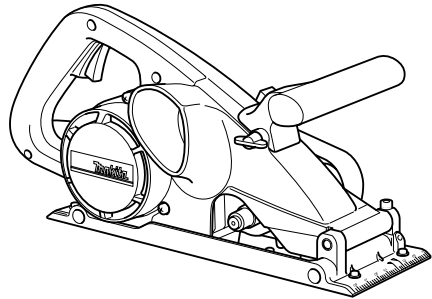




Groove Cutter

MODEL 3803A



004818

I N S T R U C T I O N M A N U A L

⚠ WARNING:

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

SPECIFICATIONS

Model	3803A
Max. cutter blade size	46 mm x 120 mm (1-13/16" x 4-3/4")
Max. cutting depth	31 mm (1-7/32")
No load speed (RPM)	9,000/min.
Overall length	411 mm (16-3/16")
Net weight	6.8 kg (15 lbs)

- Manufacturer reserves the right to change specifications without notice.
- Specifications may differ from country to country.

GENERAL SAFETY RULES

USA001-3

(For All Tools)

⚠ WARNING:

Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

Work Area

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate power tools 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.
3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

Electrical Safety

4. **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adaptor plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.

-
5. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
 6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
 7. **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
 8. **When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”.** These cords are rated for outdoor use and reduce the risk of electric shock.

Personal Safety

9. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
10. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
11. **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
12. **Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
13. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.

14. **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Ordinary eye or sun glasses are NOT eye protection.

Tool Use and Care

15. **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
16. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
17. **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
18. **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
19. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
20. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
21. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
22. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

23. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.

24. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of electric shock or injury.

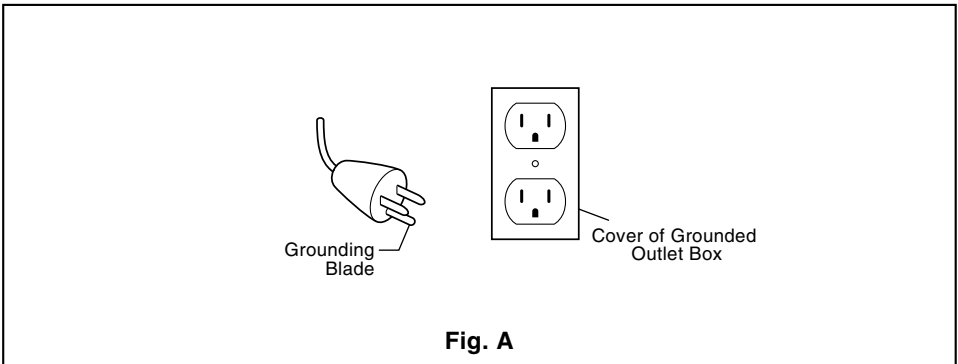
USE PROPER EXTENSION CORD: Use only three-wire extension cords that have three-prong grounding-type plugs and three-pole receptacles that accept the tool's plug. Make sure your extension cord is in good condition. Replace or repair damaged or worn cord immediately. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

Table 1: Minimum gage for cord

Ampere Rating		Volts	Total length of cord in feet			
		120 V	25 ft.	50 ft.	100 ft.	150 ft.
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	12	Not Recommended	

GROUNDING INSTRUCTIONS:

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. Your unit is for use on 120 volts and has a plug that looks like Fig. "A".



SPECIFIC SAFETY RULES

USB084-1

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to groove cutter safety rules. If you use this tool unsafely or incorrectly, you can suffer serious personal injury.

1. Inspect for and remove nails or foreign matter from the workpiece before operation.
2. Check the cutter blade carefully for cracks or damage before operation. Replace cracked or damaged cutter blade immediately.
3. Secure the workpiece firmly.
4. Do not wear gloves during operation.
5. Hold the tool firmly with both hands.
6. Keep hands away from the underside of the belt cover and the cutting blade. Also keep the cord away from them.
7. Never force the tool or cut too fast for existing conditions.
8. Release the switch immediately if the cutter blade binds or the tool stalls.
9. Never remove the tool from a cut while the cutter blade is rotating.
10. Never leave the tool running unattended.
11. Never attempt to cut with the tool held upside down in a vise. This is extremely dangerous and can lead to serious accidents.
12. Switch off and unplug the tool and wait for the cutter blade to come to a complete stop before removing wood chips if wood chips are jammed in the chip chute. Always use a wooden stick, etc. to remove them.
13. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.

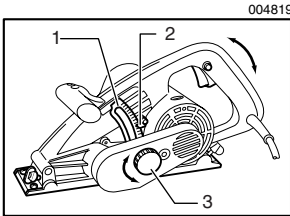
SAVE THESE INSTRUCTIONS

⚠ WARNING:
MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

FUNCTIONAL DESCRIPTION

⚠ CAUTION:

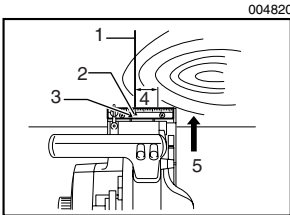
- Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.



1. Depth indicator
2. Indication plate
3. Knob

Adjusting the depth of cut

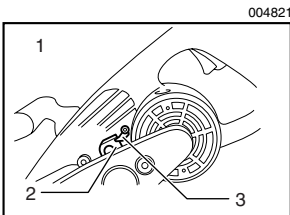
Loosen the knob on the belt cover. Move the handle up or down until the indication plate indicates the graduation for the depth of cut desired. The tighten the knob securely. Each increment on the depth indicator indicates 3 mm (1/8") cutting depth.



1. Cutting line
2. Arrow for conventional cutter blades and four teeth cutter blade
3. Arrow for dado cutter blades
4. Width of cut
5. Direction of cut

Cutting position

This tool may be operated with conventional cutter blades, four teeth cutter blades for grooving or dado cutter blades. There are two arrows on the scale plate located on the front edge of the tool's base plate. The arrow on the cutter cover side is for conventional cutter blades or four teeth cutter blades. The arrow on the belt cover side is for dado cutter blades. Align the appropriate arrow with the cutting line. These arrows are to be used to guide along your desired cutting line. They accurately indicate the left edge of your cut as you are cutting. The width of cut may vary according to the width of cutter blade selected. (3 mm; 1/8" per graduation on the scale plate)



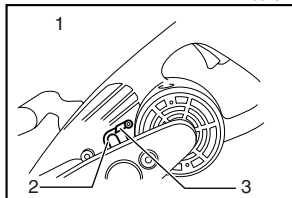
1. When using cutter blades 120 mm (4-3/4") in dia.
2. Depth indicator
3. Indication plate

Adjusting the indication plate

Adjust the indication plate as follows when replacing the cutter blade.

- Loosen the knob on the belt cover. Move the handle up or down until the cutter blade tips are flush with the underside of the tool base while revolving the cutter blade by turning the drive belt by hand. Then tighten the knob securely. Adjust the indication plate so that it points to the "0" graduation.

004822

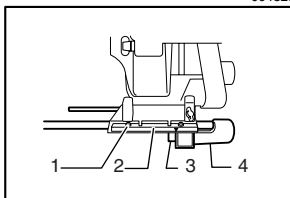


1. When using cutter blades 110 mm (4-3/8") in dia.

2. Depth indicator
3. Indication plate

- When using cutter blades 110 mm (4-3/8") in diameter, simply re-install the indication plate upside down and adjust it so that it points to the "0" graduation.

004823

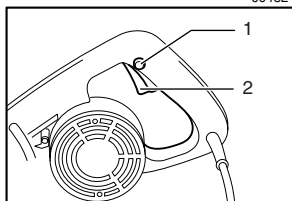


1. Screw
2. Scale plate
3. Cutter blade
4. Guide rule

Adjusting the scale plate

Loosen the screws which secure the scale plate. Adjust the scale plate right or left so that the arrow on the scale plate is aligned with the side of the cutter blade using the guide rule as shown in the figure. Tighten the screws securely.

004824



1. Lock button
2. Switch trigger

Switch action

⚠ CAUTION:

- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To start the tool, simply pull the switch trigger. Release the switch trigger to stop.

For continuous operation, pull the switch trigger and then push in the lock button.

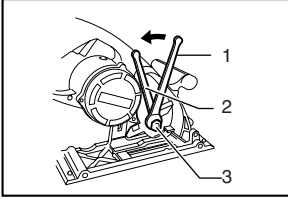
To stop the tool from the locked position, pull the switch trigger fully, and then release it.

ASSEMBLY

⚠ CAUTION:

- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

004825

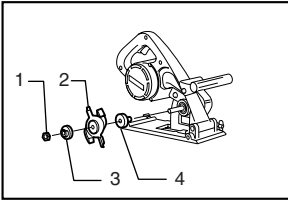


1. Wrench 19
2. Wrench 21
3. Hex nut

Installing or removing cutter blade

To remove the cutter blade, loosen the wing bolt and take off the cutter cover. Hold the outer flange with wrench 21 and loosen the hex nut with wrench 19 by turning counterclockwise. Remove the hex nut, outer flange and cutter blade.

004826



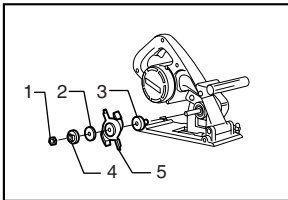
1. Hex nut
2. Cutter blade
3. Flange
4. Flange

To install the cutter blade, mount the flange, cutter blade, flange and hex nut onto the spindle in that order, making sure that the cutter blade is installed with teeth pointing up at the front of the tool.

⚠ WARNING:

- Remove all wood chips or foreign matter adhering to the spindle, flanges, etc. before installing the cutter blade.

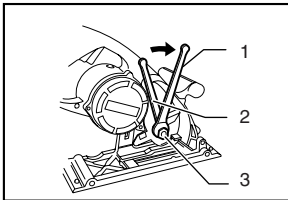
004827



1. Hex nut
2. Flange 35
3. Flange
4. Flange
5. Cutter blade

When using cutter blades 7.5 mm (5/16") wide or less, install a flange 35 between the cutter blade and the flange as shown in the figure.

004828



1. Wrench 21
2. Wrench 19
3. Hex nut

Use the two wrenches to tighten the hex nut securely.

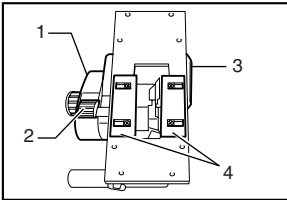
Side plates

The side plates help to prevent splintering of workpiece. This tool is equipped with two side plate 21 - 30 (originally installed on the tool), a side plate 2.4 - 18 (provided as a standard equipment) and a side plate 33 - 46 (provided as a standard equipment). Use the correct combination for the cutter blade to be used. Refer to the table below.

C00105

Width of cutter blade to be used	Correct combination	
	On cutter cover side	On belt cover side
2.4 - 18 mm (3/32" - 23/32")	Side plate 2.4 - 18	Side plate 21 - 30
21 - 30 mm (13/16" - 1-3/16")	Side plate 21 - 30	Side plate 21 - 30
33 - 46 mm (1-5/16" - 1-13/16")	Side plate 33 - 46	Side plate 21 - 30

004829



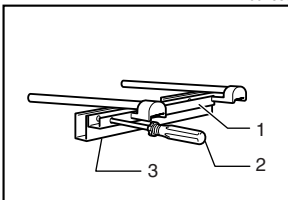
1. Belt cover
2. Drive belt
3. Cutter cover
4. Side plates

When installing the side plates, adjust them so that the clearances between the side of the cutter blade and the side plates are approx. 0.1 mm (0.004"). Slowly revolve the cutter blade by turning the drive belt by hand to make sure that the clearances are adequate. There must be no contact when rotated.

004830

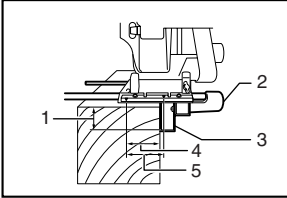
Shiplapping attachment

Use the shiplapping attachment when cutting the edge of the workpiece. Attach the shiplapping attachment to the guide rule using the screws.



1. Guide rule
2. Screwdriver
3. Shiplapping attachment

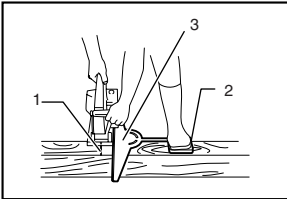
004831



1. Depth of cut
2. Guide rule
3. Shiplapping attachment
4. Width of cut
5. Width of cutter blade

Align the right side of the cutting blade with the cutting line. Move the guide rule until the shiplapping attachment contacts the side of the workpiece. Then tighten the wing bolt to secure the guide rule.

004832



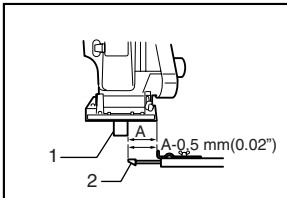
1. Cutting line
2. Foot plate
3. Miter guide rule (Angle guide)

Miter guide rule (optional accessory)

Loosen the wing bolt on the miter guide rule. Place the miter guide rule on the workpiece and adjust it so that the edge of the miter guide rule is aligned with the cutting line. Securely tighten the wing bolt on the miter guide rule. Then position the miter guide rule so that the arrow on the scale plate on the tool is aligned with the cutting line.

Secure the miter guide rule by stepping on the foot plate on the miter guide rule. Move the tool gently forward along the miter guide rule. Be especially careful to maintain proper balance and footing, or else loss of control and subsequent injury may result.

004833



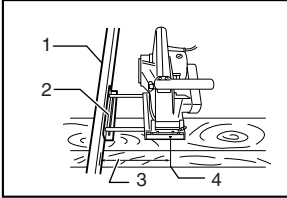
1. Cutter blade
2. Indicator

Also, the miter guide rule position can be determined using the indicator on the miter guide rule. Adjust the indicator so that its length is 0.5 mm (0.02") shorter than the distance (A) between the edge of the tool base and the side of the cutter blade. With this adjustment, the indicator will project toward the cutter blade within 0.5 mm (0.02") of it as the edge of the tool slides along the edge of the miter guide rule. Secure the miter guide rule at the position where the indicator tip is 0.5 mm (0.02") away from the cutting line.

⚠ CAUTION:

- Unplug the tool and re-adjust the indicator when changing the miter angle of the miter guide rule.

004834



1. Straight board
2. Dado cutting guide rule
3. Approx. 150 mm (5-29/32")
4. Cutting line

Dado cutting guide rule (optional accessory)

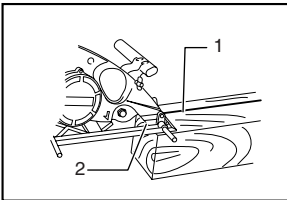
Firmly clamp a straight board to the workpiece parallel to the cutting line and use it as a guide against the dado cutting guide rule. Adjust the dado cutting guide rule so that the arrow on the scale plate is aligned with the cutting line. The best distance between the cutting line and the guide (straight board) is approximately 150 mm (5-29/32").

OPERATION

⚠ WARNING:

- Be sure to clamp or secure the workpiece before cutting. It allows both hands to grip both handles. This helps to maintain secure control of the tool - especially if a kickback occurs.
- Always be sure that the cutter blade is secured firmly before cutting.

004835



1. Cutting line
2. Rib

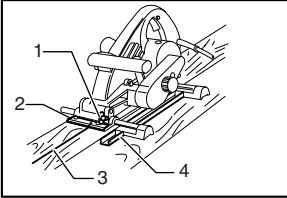
Hold the tool firmly with both hands. Rest the front end of the tool base on the workpiece surface and align the arrow on the scale plate with the cutting line without the cutter blade making any contact with the workpiece. Switch on and wait until the cutter blade attains full speed. Then move the tool gently forward.

Hold the tool base flush with the workpiece at all times. Be alert and maintain firm control of the tool by holding both handles securely. Do not cut "one-handed". When the cut is complete, do not move the tool away from the workpiece until the cutter blade has coasted to a complete stop.

NOTE:

- The cutter blade does not contact the workpiece until the rib on the tool base passes the end of the workpiece.

004836



1. Wing bolt
2. Scale plate
3. Cutting line
4. Guide rule

Guide rule

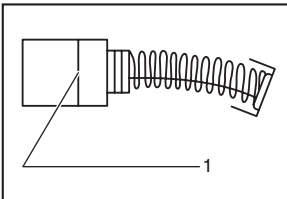
The handy guide rule allows you to make accurate straight cuts parallel to a straight edge of a workpiece. Loosen the wing bolt which secures the guide rule. Align the appropriate arrow on the scale plate with the cutting line. Move the guide rule until it contacts the side of the workpiece. Tighten the wing bolt to secure the guide rule.

MAINTENANCE

⚠ CAUTION:

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

001145

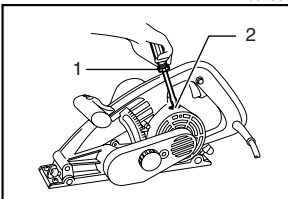


1. Limit mark

Replacing carbon brushes

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

004837



1. Screwdriver
2. Brush holder cap

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.

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.

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.

- Cutter blades

C00106

	Width (mm)					
For groove cutting Dia. 120 mm (4-3/4")	2.4 (3/32")	3.0 (1/8")	3.9 (5/32")	4.5 (3/16")	5.5 (7/32")	6.0 (1/4")
	7.5 (5/16")	9.0 (3/8")	10.5 (7/16")	12.0 (1/2")	13.5 (9/16")	15.0 (5/8")
	16.5 (11/16")	18.0 (3/4")	21.0 (7/8")	30.0 (1-1/8")	33.0 (1-5/16")	36.0 (1-3/8")
For dado cutting Dia. 110 mm (4-3/8")	39.0 (1-7/16")	42.0 (1-21/32")	46.0 (1-13/16")			

- Guide rule (For groove cutting, for dado cutting)
- Shiplapping scale
- Miter guide rule
- Flange 35
(For blade width 2.4 mm (3/32") - 7.5 mm (5/16"))

Cut



**Makita Canada Inc.
1950 Forbes Street,
Whitby, Ontario
L1N 7B7**

Stamp
Timbre

Fold

Factory Service Centres

Head Office:	1950 Forbes St., Whitby, Ontario, L1N 7B7 (905) 571 - 2200	1-800-263-3734
Regional Office:	11771 Hammersmith Way, Richmond B.C. V7A 5H6 (604) 272 - 3104	1-800-663-0909
Regional Office: (Montreal)	6389 boul. Couture, St. Leonard, Quebec H1P 3J5 (514) 323 - 1223	1-800-361-7049
Dartmouth:	202 Brownlow Avenue Dartmouth, N.S., B3B 1T5 (902) 468 - 7064	1-888-625-4821
Ville St. Laurent: (Montreal)	1140 Rue Bégin, Ville St. Laurent, Quebec H4R 1X1 (514) 745 - 5025	1-888-745-5025
Les Saules: (Quebec)	1200 St. Jean Baptiste, Unit 106, Les Saules, Quebec, G2E 5E8 (418) 871 - 5720	1-800-663-5757
Nepean: (Ottawa)	210 Colonnade Road, Unit 11, Nepean, Ontario, K2E 7M1 (613) 224 - 5022	1-888-560-2214
Whitby:	1950 Forbes St., Whitby, Ontario, L1N 7B7 (905) 571 - 2200	1-800-263-3734
London:	317 Adelaide St. S., Unit 117, London, Ontario, N5Z 3L3 (519) 686 - 3115	1-800-571-0899
Mississauga:	6350 Tomken Rd., Unit 8, Mississauga, Ontario, L5T 1Y3 (905) 670 - 7255	1-888-221-9811
Calgary:	#8-6115 Fourth St. S.E., Calgary Alberta, T2H 2H9 (403) 243 - 3995	1-800-267-0445
Edmonton:	11614-149 Street, Edmonton, Alberta, T5M 3R3 (780) 455 - 6644	1-888-455-6644
Richmond:	11771 Hammersmith Way, Richmond, B.C., V7A 5H6 (604) 272 - 3104	1-800-663-0909
Coquitlam:	2131 Hartley Ave., #103 Coquitlam, B.C. V3K 2Z3 (604) 525 - 7434	1-800-266-7738
Winnipeg:	1670 St. James Street, Winnipeg, Manitoba, R3H 0L3 (204) 694 - 0402	1-800-550-5073
Saskatoon:	206A-2750 Faithful Avenue Saskatoon, Saskatchewan, S7K 6M6 (306) 931 - 0111	1-888-931-0111

For the authorized service centre nearest you please refer to the local yellow pages directory under "tools" or contact our customer service department (Tel) 1-800-263-3734

When you need service...

- Explain the problem in a letter
- Enclose the letter with the tool
- Package carefully and send prepaid to the nearest Makita factory or authorized service centre

CUSTOMER RECORD

DATE
PURCHASED: _____
DEALER'S NAME
& ADDRESS: _____
MODEL NO.: _____
SERIAL NO.: _____

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 Centres. 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 normal maintenance is required,
- repairs have been made or attempted by others,
- 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.

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