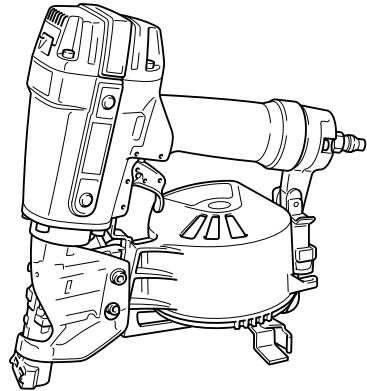




Pneumatic Roofing Coil Nailer

MODEL AN451



005622

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	AN451
Air pressure	4.5 - 8.5 kgf/cm ² G (65 - 120 PSIG)
Nail length	22 mm (7/8") - 45 mm (1-3/4")
Nail capacity	120 pcs.
Min. hose diameter	6.5 mm (1/4")
Dimensions (L X H X W)	245 mm X 265 mm X 114 mm (9-5/8" X 10-3/8" X 4-1/2")
Net weight	2.3 kg (5.1 lbs)

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

IMPORTANT SAFETY INSTRUCTIONS

USB087-1

WARNING: WHEN USING THIS TOOL, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF PERSONAL INJURY, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS.

1. For personal safety and proper operation and maintenance of the tool, read this instruction manual carefully before using the tool.
2. Always wear safety glasses to protect your eyes from dust or nail injury. The safety glasses should conform with the requirements of ANSI Z87.1.
WARNING:
It is an employer's responsibility to enforce the use of safety eye protection equipment by the tool operators and by other persons in the immediate working area.
3. Wear hearing protection to protect your ears against exhaust noise and head protection. Also wear light but not loose clothing. Sleeves should be buttoned or rolled up. No necktie should be worn.

4. Rushing the job or forcing the tool is dangerous. Handle the tool carefully. Do not operate when under the influence of alcohol, drugs or the like.
5. General Tool Handling Guidelines:
 - (1) Always assume that the tool contains fasteners.
 - (2) Do not point the tool toward yourself or anyone whether it contains fasteners or not.
 - (3) Do not actuate the tool unless the tool is placed firmly against the workpiece.
 - (4) Respect the tool as a working implement.
 - (5) No horseplay.
 - (6) Do not hold or carry the tool with a finger on the trigger.

-
- (7) Do not load the tool with fasteners when any one of the operating controls is activated.
 - (8) Do not operate the tool with any power source other than that specified in the tool operating/safety instructions.
6. An improperly functioning tool must not be used.
 7. Sparks sometimes fly when the tool is used. Do not use the tool near volatile, flammable materials such as gasoline, thinner, paint, gas, adhesives, etc.; they will ignite and explode, causing serious injury.
 8. The area should be sufficiently illuminated to assure safe operations. The area should be clear and litter-free. Be especially careful to maintain good footing and balance.
 9. Only those involved in the work should be in the vicinity. Children especially must be kept away at all times.
 10. There may be local regulations concerning noise which must be complied with by keeping noise levels within prescribed limits. In certain cases, shutters should be used to contain noise.
 11. Do not play with the contact element: it prevents accidental discharge, so it must be kept on and not removed. Securing the trigger in the ON position is also very dangerous. Never attempt to fasten the trigger. Do not operate a tool if any portion of the tool operating controls is inoperable, disconnected, altered, or not working properly.
 12. Operate the tool within the specified air pressure on the tool label for safety and longer tool life. Do not exceed the recommended max. operating pressure. The tool should not be connected to a source whose pressure potentially exceeds 14.0 kgf/cm²G (200 PSIG).
 13. Never use the tool with other than compressed air. If bottled gas (carbon dioxide, oxygen, nitrogen, hydrogen, air, etc.) or combustible gas (hydrogen, propane, acetylene, etc.) is used as a power source for this tool, the tool will explode and cause serious injury.
 14. Always check the tool for its overall condition and loose screws before operation. Tighten as required.
 15. Make sure all safety systems are in working order before operation. The tool must not operate if only the trigger is pulled or if only the contact element is pressed against the wood. It must work only when both actions are performed. Test for possible faulty operation with nails unloaded and the contact element in fully pulled position.
 16. Check walls, ceilings, floors, roofing and the like carefully to avoid possible electrical shock, gas leakage, explosions, etc. caused by striking live wires, conduits or gas pipes.
 17. Use only nails specified in this manual. The use of any other nails may cause malfunction of the tool.
 18. Do not permit those uninstructed to use the tool.
 19. Make sure no one is nearby before nailing. Never attempt to nail from both the inside and outside at the same time. Nails may rip through and/or fly off, presenting a grave danger.
 20. Watch your footing and maintain your balance with the tool. Make sure there is no one below when working in high locations, and secure the air hose to prevent danger if there is sudden jerking or catching.
 21. On rooftops and other high locations, nail as you move forward. It is easy to lose your footing if you nail while inching backward. When nailing against perpendicular

-
- surface, nail from the top to the bottom. You can perform nailing operations with less fatigue by doing so.
22. A nail will be bent or the tool can become jammed if you mistakenly nail on top of another nail or strike a knot in the wood. The nail may be thrown and hit someone, or the tool itself can react dangerously. Place the nails with care.
 23. Do not leave the loaded tool or the air compressor under pressure for a long time out in the sun. Be sure that dust, sand, chips and foreign matter will not enter the tool in the place where you leave it setting.
 24. Do not point the ejection port at anyone in the vicinity. Keep hands and feet away from the ejection port area.
 25. When the air hose is connected, do not carry the tool with your finger on the trigger or hand it to someone in this condition. Accidental firing can be extremely dangerous.
 26. Handle the tool carefully, as there is high pressure inside the tool that can be dangerous if a crack is caused by rough handling (dropping or striking). Do not attempt to carve or engrave on the tool.
 27. Stop nailing operations immediately if you notice something wrong or out of the ordinary with the tool.
 28. Always disconnect the air hose and remove all of the nails:
 - (1) When unattended.
 - (2) Before performing any maintenance or repair.
 - (3) Before cleaning a jam.
 - (4) Before moving the tool to a new location.
 29. Perform cleaning and maintenance right after finishing the job. Keep the tool in tip-top condition. Lubricate moving parts to prevent rusting and minimize friction-related wear. Wipe off all dust from the parts.
 30. Do not modify tool without authorization from Makita.
 31. Do not attempt to keep the trigger or contact element depressed with tape or wire. Death or serious injury may occur.
 32. Always check contact element as instructed in this manual. Nails may be driven accidentally if the safety mechanism is not working correctly.
 33. Ask Makita's Authorized service centers for periodical inspection of the tool.
 34. To maintain product SAFETY and RELIABILITY, maintenance and repairs should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.
-

SAVE THESE INSTRUCTIONS

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

SYMBOLS

USD501-1

The followings show the symbols used for tool.



..... Read and understand tool labels and manual.



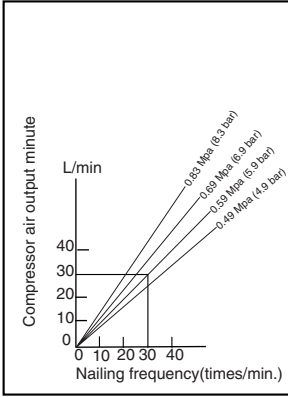
..... Keep fingers away from trigger when not driving fasteners to avoid accidental firing.



..... Operators and others in work area must wear safety glasses with side shields.

INSTALLATION

005623



Selecting compressor

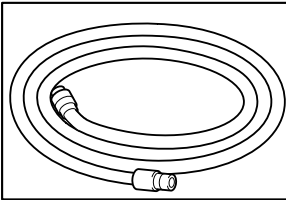
The air compressor must comply with the requirements of ANSI B19.3.

Select a compressor that has ample pressure and air output to assure cost-efficient operation. The graph shows the relation between nailing frequency, applicable pressure and compressor air output.

Thus, for example, if nailing takes place at a rate of approximately 30 times per minute at a compression of 6.0 kgf/cm²G (85 PSIG), a compressor with an air output over 1 ft³/minute is required.

Pressure regulators must be used to limit air pressure to the rated pressure of the tool where air supply pressure exceeds the tool's rated pressure. Failure to do so may result in serious injury to tool operator or persons in the vicinity.

004294



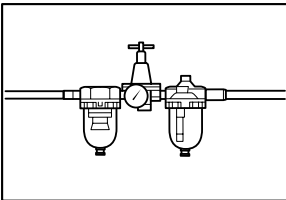
Selecting air hose

Use an air hose as large and as short as possible to assure continuous, efficient nailing operation. With an air pressure of 5.0 kgf/cm²G (70 PSIG), an air hose with an internal diameter of over 6.5 mm (1/4") and a length of less than 20 m (6.6 ft.) is recommended when the interval between each nailing is 0.5 seconds. Air supply hoses shall have a minimum working pressure rating of 10.7 kgf/cm²G (150 PSIG) or 150 percent of the maximum pressure produced in the system whichever is higher.

⚠ CAUTION:

- Low air output of the compressor, or a long or smaller diameter air hose in relation to the nailing frequency may cause a decrease in the driving capability of the tool.

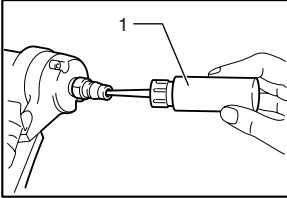
004295



Lubrication

To insure maximum performance, install an air set (oil filter, regulator, air filter) as close as possible to the tool. Adjust the oiler so that one drop of oil will be provided for every 30 nails.

005624



1. Pneumatic tool oil

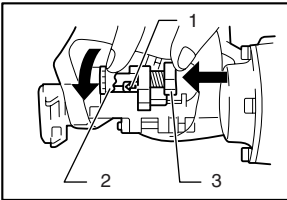
When an air set is not used, oil the tool with pneumatic tool oil by placing 2 (two) or 3 (three) drops into the air fitting. This should be done before and after use. For proper lubrication, the tool must be fired a couple of times after pneumatic tool oil is introduced.

FUNCTIONAL DESCRIPTION

⚠ CAUTION:

- Always disconnect the air hose before adjusting or checking function on the tool.

005625

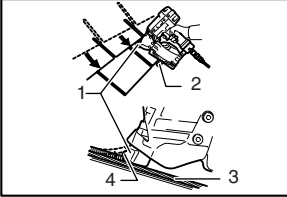


1. Arrow
2. Adjuster
3. Knob

Adjusting depth of nailing

To adjust the depth of nailing, press the knob toward the nose tip and turn the adjuster so that the arrow above the adjuster will point to the number indicated on the adjuster. The depth of nailing is the deepest when the arrow points to the number 1. It will become shallower as the arrow points to higher number. The depth can be changed in approx. 0.8 mm (1/32") increments per graduation. If nails cannot be driven deep enough even when the arrow points to the number 1, increase the air pressure. If nails are driven too deep even when the arrow points to the number 9, decrease the air pressure. Generally speaking, the tool service life will be longer when the tool is used with lower air pressure and the adjuster set to a lower number.

005629



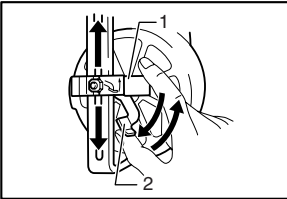
1. Contact element
2. Shingle guide
3. Shingle
4. Projection

Adjusting the shingle guide

The shingle guide is designed for consistent shingle exposure. Place shingle in desired position.

Turn the lever clockwise to release the adjusting plate. Reset the tool on the exposed shingle with the projections of the contact element depressing the bottom of the previous row of the shingle. Slide the adjusting plate up against the bottom of the exposed shingle and turn the lever counterclockwise to lock the adjusting plate.

005630



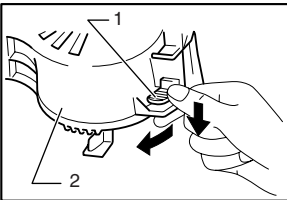
1. Adjusting plate
2. Lever

ASSEMBLY

⚠ CAUTION:

- Always disconnect the air hose before carrying out any work on the tool.

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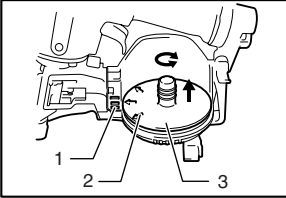


1. Latch lever
2. Magazine cap

Loading nail

Select nails suitable for your work. Depress the latch lever and open the magazine cap.

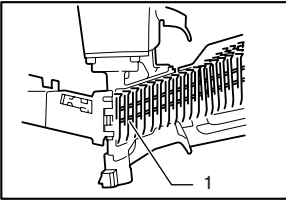
005627



1. Graduation
2. Arrow
3. Coil support plate

Lift and turn the coil support plate so that the arrow with nail size indicated on the coil support plate will point to the corresponding graduation increment marked on the magazine. If the tool is operated with the coil support plate set to the wrong step, poor nail feed or malfunction of the tool may result.

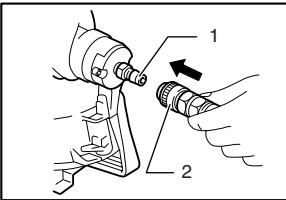
005628



1. Feed Claw

Place the nail coil over the coil support plate. Uncoil enough nails to reach the feed claw. Place the first nail in the driver channel and the second nail in the feed claw. Place other uncoiled nails on feeder body. Close the magazine cap after checking to see that the nail coil is set properly in the magazine.

005631

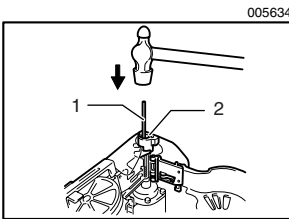
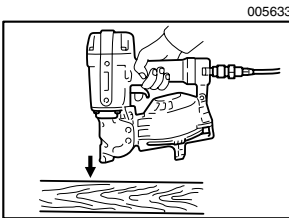
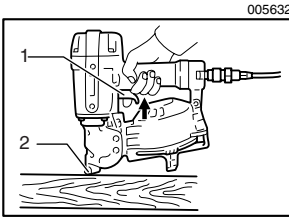


1. Air fitting
2. Air socket

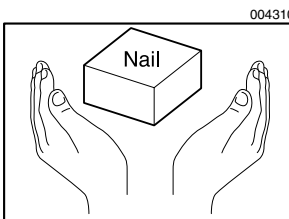
Connecting air hose

Slip the air socket of the air hose onto the air fitting on the nailer. Be sure that the air socket locks firmly into position when installed onto the air fitting. A hose coupling must be installed on or near the tool in such a way that the pressure reservoir will discharge at the time the air supply coupling is disconnected.

OPERATION



1. Small rod
2. Ejection port



⚠ CAUTION:

- Make sure all safety systems are in working order before operation.
1. To drive a nail, you may place the contact element against the workpiece and pull the trigger, or
 2. Pull the trigger first and then place the contact element against the workpiece.
- No. 1 method is for intermittent nailing, when you wish to drive a nail carefully and very accurately. No. 2 method is for continuous nailing.

⚠ CAUTION:

- Operating the tool without nails shortens the life of the tool and should be avoided.

Jammed nailer

⚠ CAUTION:

- Always disconnect the air hose and remove the nails from the magazine before cleaning a jam.

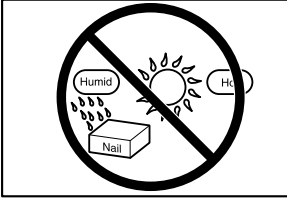
When the nailer becomes jammed, do as follows:

Open the magazine cap and remove the nail coil. Insert a small rod or the like into the ejection port and tap it with a hammer to drive out the nail jamming from the ejection port. Reset the nail coil and close the magazine cap.

Nails

Handle nail coils and their box carefully. If the nail coils have been handled roughly, they may be out of shape or their connector breaks, causing poor nail feed.

004311



Avoid storing nails in a very humid or hot place or place exposed to direct sunlight.

MAINTENANCE

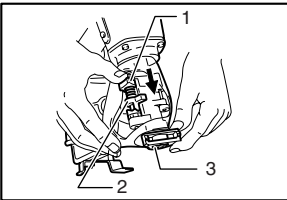
⚠ CAUTION:

- Always disconnect the air hose from the tool before attempting to perform inspection or maintenance.

Cleaning and removal of tar and dirt

Adhesion of tar and dirt to areas around the contact element will prevent smooth movement of the contact element (safety mechanism), causing accidental discharge. Periodically clean the areas around the contact element. Cleaning can be performed easily if the contact element is removed. So proceed as follows.

005635

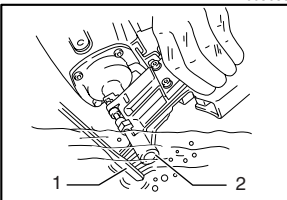


1. knob
2. Adjuster
3. Contact element

Turn the adjuster so that the arrow will point between numbers 1 and 5.

Hold the contact element and press the knob toward the nose tip. While keeping the knob pressed, turn it counter-clockwise fully. Then release the knob and remove the contact element from the driver guide. If you have difficulty removing the contact element because it is caught by the safety cover, open the magazine cap.

005636



1. Brush
2. Ejection port

Use a solvent such as kerosene, #2 fuel oil or diesel fuel. Immerse only the contact element and the areas around the ejection port in solvent and remove tar and dirt with brush. Always wear waterproof gloves to protect your hands. Never immerse the housing, magazine, etc. in solvent. Malfunction of the tool may result. Always dispose of the solvent used in a safe and prudent manner and in compliance with all local and national code requirement.

Dry off the tool before use. Any oil film left after cleanup will accelerate the tar buildup, and the tool will require more frequent recleaning. After drying off the tool, oil the moving parts to prevent rusting and to assure good lubrication and

operation or moving parts. Install the contact element on the driver guide. Press the knob toward the nose tip and turn the knob clockwise to secure.

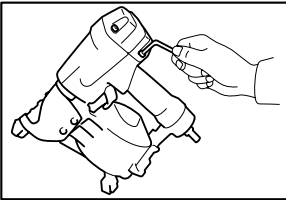
⚠ WARNING:

- Never use gasoline or other similar highly volatile liquids for cleaning. Vapors of such liquids may enter the tool and could be ignited by sparks produced during nailing and cause an explosion.

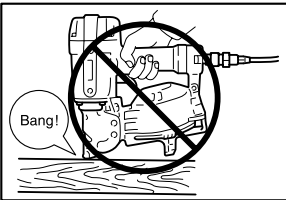
Maintenance of nailer

Always check the tool for its overall condition and loose screws before operation. Tighten as required.

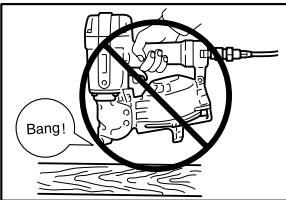
005637



005638

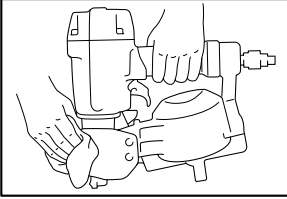


005639



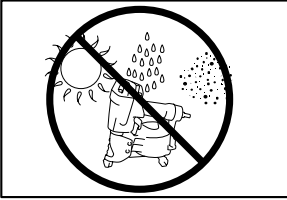
Make sure all safety systems are in working order before operation. The tool must not operate if only the trigger is pulled or if only the contact element is pressed against the wood. It must work only when both actions are performed. Test for possible faulty operation with nails unloaded.

005640

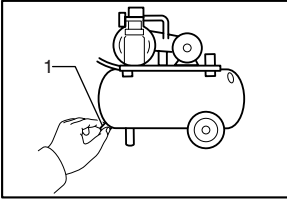


When the tool is not to be used for an extended period of time, lubricate the tool using pneumatic tool oil and store the tool in a safe place. Avoid exposure to direct sunlight and/or humid or hot environment.

005641



004317

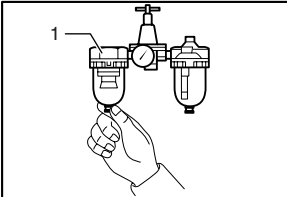


1. Drain cock

Maintenance of compressor, air set and air hose

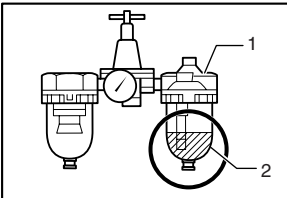
After operation, always drain the compressor tank and the air filter. If moisture is allowed to enter the tool, It may result in poor performance and possible tool failure.

004318



1. Air filter

004319



1. Oiler
2. Pneumatic oil

Check regularly to see if there is sufficient pneumatic oil in the oiler of the air set. Failure to maintain sufficient lubrication will cause O-rings to wear quickly.

004320



Keep the air hose away from heat (over 60°C, over 140°F), away from chemicals (thinner, strong acids or alkalis). Also, route the hose away from obstacles which it may become dangerously caught on during operation. Hoses must also be directed away from sharp edges and areas which may lead to damage or abrasion to the hose.

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.

- Nails
- Air hoses
- Nose adapter
- Safety goggles

Memo

Memo

Cut



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

Stamp
Timbre

Fold

Your answers to the following questions are appreciated.

1. This product was purchased from?

- Hardware/lumber Store Industrial Supply
 Tool Distributor Other ()

3. How did you first learn of Makita Power Tools?

- Magazine/Newspaper Catalog
 From dealer Other ()
 Store display

2. Use of the product is intended for?

- Construction trade Home maintenance
 Industrial maintenance Other ()

4. Most favored points are?

- Design Makita Brand
 Features Power
 Size Other ()
 Price

5. Any comments?

Certificate of Warranty Mail to Makita

Date Purchased <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">Month</td> <td style="text-align: center; border-bottom: 1px solid black;">Day</td> <td style="text-align: center; border-bottom: 1px solid black;">Year 20</td> </tr> <tr> <td style="border: 1px solid black; width: 30px; height: 30px;"></td> <td style="border: 1px solid black; width: 30px; height: 30px;"></td> <td style="border: 1px solid black; width: 30px; height: 30px;"></td> </tr> </table>	Month	Day	Year 20				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Model No.</td> </tr> <tr> <td style="padding: 5px;">Serial No.</td> </tr> </table>	Model No.	Serial No.
Month	Day	Year 20							
Model No.									
Serial No.									
Initial Last Name	Male Female Single Married								
Street Address									
City	Province								
Postal Code									
AGE: <input type="checkbox"/> Under 19 <input type="checkbox"/> 20-29 <input type="checkbox"/> 30-39 <input type="checkbox"/> 40-49 <input type="checkbox"/> Over 50									

Occupation:

Dealer's Name & Address:

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
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.

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