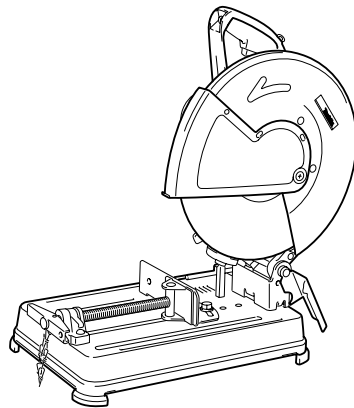




Portable Cut-Off

MODEL 2414DB



003753



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.

www.makitatools.com

SPECIFICATIONS

Model	2414DB
Wheel diameter	355 mm (14")
Hole diameter	25.4 mm (1")
No load speed (RPM)	3,800 /min.
Dimensions (L x W x H)	500 mm x 280 mm x 600 mm (19-3/4" x 11" x 23-5/8")
Net weight	16.4kg (36.2 lbs)

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

For Your Own Safety Read Instruction Manual Before Operating Tool Save it for future reference GENERAL SAFETY PRECAUTIONS

USA007-1

(For All Tools)

1. **KNOW YOUR POWER TOOL.** Read the owner's manual carefully. Learn the tool's applications and limitations, as well as the specific potential hazards peculiar to it.
2. **KEEP GUARDS IN PLACE** and in working order.
3. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted. Don't use tool in presence of flammable liquids or gases.
6. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
7. **MAKE WORKSHOP KID PROOF** with padlocks, master switches, or by removing starter keys.
8. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.
10. **WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

-
11. **ALWAYS USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
 12. **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
 13. **DON'T OVERREACH.** Keep proper footing and balance at all times.
 14. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
 15. **DISCONNECT TOOLS** before servicing; when changing accessories such as blades, bits, cutters, and the like.
 16. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.
 17. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
 18. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
 19. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard 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.
 20. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
 21. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.
 22. **REPLACEMENT PARTS.** When servicing use only identical replacement parts.
 23. **POLARIZED PLUGS.** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

VOLTAGE WARNING: Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in **SERIOUS INJURY** to the user - as well as damage to the tool. If in doubt, **DO NOT PLUG IN THE TOOL.** Using a power source with voltage less than the nameplate rating is harmful to the motor.

USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. 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	

SPECIFIC SAFETY RULES

USB078-1

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

1. Wear hearing protection during extended periods of operation.
2. Use only wheels having a maximum operating speed at least as high as “No Load RPM” marked on the tool’s nameplate. Use only fiberglass-reinforced cut-off wheels.
3. Check the wheel carefully for cracks or damage before operation. Replace cracked or damaged wheel immediately. Run the tool (with guard) at no load for about a minute, keeping tool away from others. If wheel is flawed, it will likely separate during this test.
4. Secure the wheel carefully.
5. Use only flanges specified for this tool.
6. Be careful not to damage the spindle, the flange (especially the installing surface) or the bolt. Damage to these parts could result in wheel breakage.
7. Do not operate the tool without guards in place. Check wheel guard for proper closing before each use. Do not operate the tool if wheel guard does not move freely and close instantly. Never clamp or tie the wheel guard into the open position.
8. Hold the handle firmly.
9. Keep hands away from rotating parts.
10. Make sure the wheel is not contacting the workpiece before the switch is turned on.

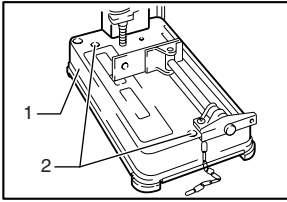
-
11. Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced wheel.
 12. Watch out for flying sparks when operating. They can cause injury or ignite combustible materials.
 13. Remove material debris from the area that might be ignited by sparks. Be sure that others are not in the path of the sparks. Keep a proper , charged extinguisher closely available.
 14. Use the cutting edge of the wheel only. Never use side surface.
 15. Do not attempt to keep the trigger in the ON position.
 16. If the wheel stops during operation, makes an odd noise or begins to vibrate, switch off the tool immediately.
 17. Turn off the tool and wait for the wheel to stop before moving workpiece or changing settings.
 18. Do not touch the workpiece immediately after operation; it is extremely hot and could burn your skin.
 19. Store wheels in a dry location only.

SAVE THESE INSTRUCTIONS

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

INSTALLATION

003800



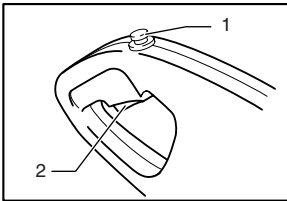
1. Base
2. Bolt holes

Securing cut-off

This tool should be bolted with two bolts to a level and stable surface using the bolt holes provided in the tool's base. This will help prevent tipping and possible personal injury.

FUNCTIONAL DESCRIPTION

003754



1. Lock-off button
2. Switch trigger

⚠ CAUTION:

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

Switch action

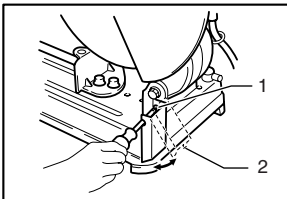
⚠ CAUTION:

- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.
- When not using the tool, remove the lock-off button and store it in a secure place. This prevents unauthorized operation.

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.

003756

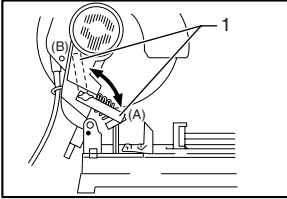


1. Screw
2. Spark guard

Spark guard

The spark guard is factory-installed with its lower edge contacting the base. Operating the tool in this position will cause many sparks to fly around. Loosen the screw and adjust the spark guard to a position at which minimum sparks will fly around.

003757

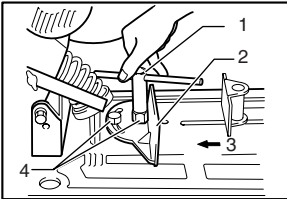


1. Stopper plate

Stopper plate

The stopper plate prevents the cut-off wheel from contacting the workbench or floor. When a new wheel is installed, set the stopper plate to position (A). When the wheel wears down to the extent that the lower portion of the workpiece is left uncut, set the stopper plate to position (B) to allow increased cutting capacity with a worn down wheel.

003758



1. Socket wrench
2. Guide plate
3. Move
4. Hex bolts

Interval between vise and guide plate

The original spacing or interval between the vise and the guide plate is 0 - 170 mm (0 - 6-11/16"). If your work requires wider spacing or interval, proceed as follows to change the spacing or interval.

Remove the two hex bolts which secure the guide plate. Move the guide plate as shown in the figure and secure it using the hex bolts. The following interval settings are possible:

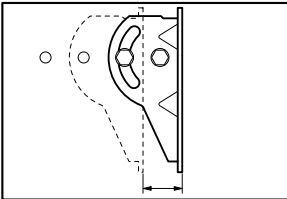
35 - 205 mm (1-3/8" - 8-1/16")

70 - 240 mm (2-3/4" - 9-7/16")

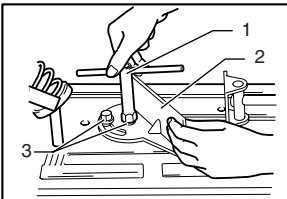
⚠ CAUTION:

- Remember that narrow workpieces may not be secured safely when using the two, wider interval settings.

003759



003760



1. Socket wrench
2. Guide plate
3. Hex bolts

Setting for desired cutting angle

To change the cutting angle, loosen the two hex bolts which secure the guide plate. Move the guide plate to the desired angle (0° - 45°) and tighten the hex bolts securely.

⚠ CAUTION:

- Never perform miter cuts when the guide plate is set at the 35 - 205 mm (1-3/8" - 8-1/16") or 70 - 240 mm (2-3/4" - 9-7/16") position.

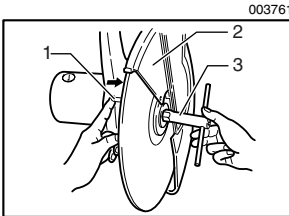
ASSEMBLY

⚠ CAUTION:

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

Removing or installing cut-off wheel

To remove the wheel, raise the safety guard. Press the shaft lock so that the wheel cannot revolve and use the socket wrench to loosen the hex bolt by turning it counterclockwise. Then remove the hex bolt, outer flange and wheel. (Note: Do not remove the inner flange, ring and O-ring.)

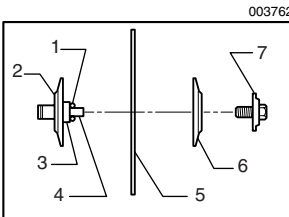


1. Shaft lock
2. Safety guard
3. Socket wrench

To install the wheel, follow the removal procedures in reverse.

⚠ CAUTION:

- Be sure to tighten the hex bolt securely. Insufficient tightening of the hex bolt may result in severe injury. Use the socket wrench provided to help assure proper tightening.
- Always use only the proper inner and outer flanges which are provided with this tool.
- Always lower the safety guard after replacing the wheel.



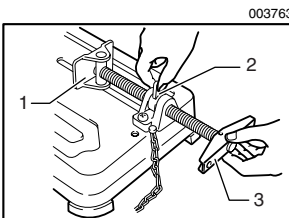
1. O ring
2. Inner flange
3. Ring
4. Spindle
5. Cut-off wheel
6. Outer flange
7. Hex bolt

Securing workpiece

By turning the vise handle counterclockwise and then flipping the vise nut to the left, the vise is released from the shaft threads and can be moved rapidly in and out. To grip workpieces, push the vise handle until the vise plate contacts the workpiece. Flip the vise nut to the right and then turn the vise handle clockwise to securely retain the workpiece.

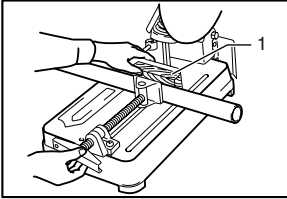
⚠ CAUTION:

- Always set the vise nut to the right fully when securing the workpiece. Failure to do so may result in insufficient securing of the workpiece. This could cause the workpiece to be ejected or cause a dangerous breakage of the wheel.



1. Vise plate
2. Vise nut
3. Vise handle

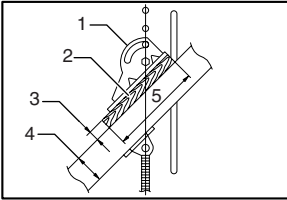
003764



1. Spacer block

When the cut-off wheel has worn down considerably, use a spacer block of sturdy, non-flammable material behind the workpiece as shown in the figure. You can more efficiently utilize the worn wheel by using the mid point on the periphery of the wheel to cut the workpiece.

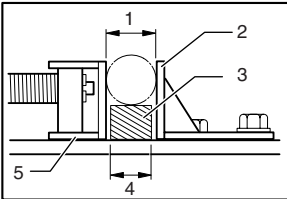
003765



1. Guide plate
2. Straight piece of wood (Spacer)
3. Over 45 mm (1-3/4") long
4. Over 65 mm (2-9/16") long
5. Over 190 mm (7-1/2") long

When cutting workpieces over 65 mm (2-9/16") wide at an angle, attach a straight piece of wood (spacer) over 190 mm (7-1/2") long x 45 mm (1-3/4") wide to the guide plate as shown in the figure. Attach this spacer with screws through the holes in the guide plate.

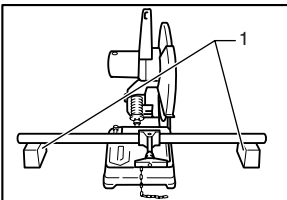
003766



1. Diameter of workpiece
2. Guide plate
3. Spacer block
4. Width of spacer block
5. Vise

If you use a spacer block which is slightly narrower than the workpiece as shown in the figure, you can also utilize the wheel economically.

003767



1. Blocks

Long workpieces must be supported by blocks of non-flammable material on either side so that it will be level with the base top.

OPERATION

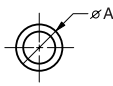

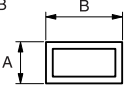

Hold the handle firmly. Switch on the tool and wait until the wheel attains full speed before lowering gently into the cut. When the wheel contacts the workpiece, gradually bear down on the handle to perform the cut. When the cut is completed, switch off the tool and **WAIT UNTIL THE WHEEL HAS COME TO A COMPLETE STOP** before returning the handle to the fully elevated position.

⚠ CAUTION:

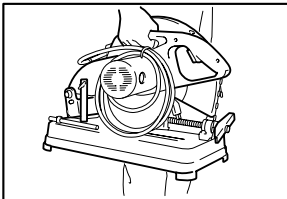
- Proper handle pressure during cutting and maximum cutting efficiency can be determined by the amount of sparks that is produced while cutting. Your pressure on the handle should be adjusted to produce the maximum amount of sparks. Do not force the cut by applying excessive pressure on the handle. Reduced cutting efficiency, premature wheel wear, as well as, possible damage to the tool, cut-off wheel or workpiece may result.

Cutting capacity

Max. cutting capacity varies depending upon the cutting angle and workpiece shape. Applicable wheel diameter: 355 mm (14")

Workpiece shape / Cutting angle				
90°	115mm (4-1/2")	119mm (4-11/16")	115mm x 130 mm (4-1/2" x 5-1/8") 102 mm x 194 mm (4" x 7-5/8") 70 mm x 233 mm (2-3/4" x 9-1/8")	137 mm (5-3/8")
45°	115mm (4-1/2")	106 mm (4-3/16")	115 mm x 103 mm (4-1/2" x 4-1/16")	100 mm (3-15/16")

003768



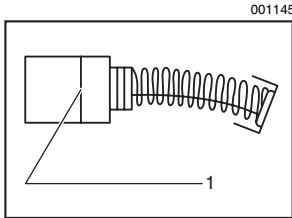
Carrying tool

Fold down the tool head to the position where you can attach the chain to the hook on the handle.

MAINTENANCE

⚠ CAUTION:

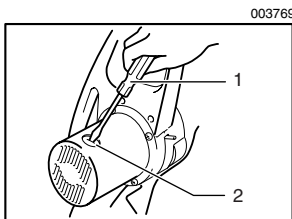
- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.



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.



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.

- Abrasive cut-off wheels
- Socket wrench 17

Cut



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Required

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without proper
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Makita U.S.A., Inc.
14930 Northam Street
La Mirada, CA 90638-5753



Fold

MAIL THIS PORTION

Your answers to the following questions are appreciated.

1. This product was purchased from:

- Home Center Other ()
 Hardware/Lumber Store
 Tool Distributor
 Industrial Supply
 Construction Supply

3. How did you learn about this product:

- Magazine Radio
 From Dealer Exhibition
 Newspaper From Friend
 Store Display Previous Usage
 Catalog Other ()

2. Use of the product is intended for:

- Construction Trade
 Industrial Maintenance
 Home Maintenance
 Hobby
 Other ()

4. Most favored points are:

- Design Repair Service
 Features Durability
 Size Power
 Price Other ()
 Makita Brand

5. Any comments:

DATE PURCHASED			MODEL NO.																						
MONTH		DAY		YEAR		SERIAL NO.																			
INTL.											LAST NAME / COMPANY NAME											STATUS		SEX	
																						Married Single		M F	
STREET ADDRESS																									
CITY																									
STATE		ZIP CODE				PHONE				AREA 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"/> 50-60		<input type="checkbox"/> Over 60													

BE SURE TO COMPLETE THE CUSTOMER'S PORTION OF THIS FORM AND RETAIN FOR YOUR RECORDS.

Please return this portion by facsimile or mail.

Facsimile No: (714) 522-8133

FACTORY SERVICE CENTERS

1-800-4-MAKITA

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3707 E. Broadway Rd., Ste. 6
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(954) 781-6333

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

ILLINOIS

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Mt. Prospect, IL 60056-6011
(847) 297-3100

MARYLAND

7397 Washington Boulevard,
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(410) 476-4401

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(781) 461-9754

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Richfield, MN 55423
(612) 869-5199

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9876 Watson Road
St. Louis, MO 63126-2221
(314) 909-9889

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Omaha, NE 68127
(402) 597-2925

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

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Dayton, NJ 08810-1539
(609) 655-1212

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

OREGON

828 19th Avenue, N.W.
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(503) 222-1823

PENNSYLVANIA

1704 Babcock Blvd.
Pittsburgh, PA 15209
(412) 822-7370

PUERTO RICO

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Hato Rey, PR 00917
(787) 250-8776

TENNESSEE

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Suile 170 Nashville, TN 372
(615) 248-3321

TEXAS

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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

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