

Makita

アメリカ

Dust Collector

MODEL 410

INSTRUCTION MANUAL



SPECIFICATIONS

Peak air flow when hose and dust bag are installed	Sealed suction	No load speed (RPM)	Dimensions (L x W x H)	Net weight
8.7 m ³ /min. (307 cu. ft./min.)	510 mm (20") of water	10,000	287 mm x 285 mm x 280 mm (11-1/4" x 11-1/4" x 11")	9.3 kg (20.4 lbs)

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

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE

WARNING — To reduce the risk of fire, electric shock, or injury:

1. Do not leave appliance when plugged in. Unplug from outlet when not in use and before servicing.
2. Electric shock could occur if used on wet surfaces. Do not expose to rain. Store indoors.
3. Do not allow to be used as a toy. Close attention is necessary when used by or near children.
4. Use only as described in this manual. Use only manufacturer's recommended attachments.
5. Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
6. Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.
7. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
8. Do not handle plug or appliance with wet hands.
9. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
10. Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
11. This tool is for collecting dust or shavings exhausted from wood shop tools. Do not attempt to collect wood chips, metal, rocks, string, liquids or the like.
12. Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
13. Turn off all controls before unplugging.

14. Use extra care when cleaning on stairs.
15. Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
16. **EXTENSION CORDS:** Use only three-wire extension cords which have three-prong grounding-type plugs and three-pole receptacles which accept the tool's plug. Replace or repair damaged or worn cord immediately.
17. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
18. Connect to a properly grounded outlet only. See Grounding Instructions.
19. **AVOID UNINTENTIONAL STARTING.** Be sure switch is OFF when plugging in.
20. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. *For example; pipes, radiators, ranges, refrigerator enclosures.*

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.

ADDITIONAL SAFETY RULES

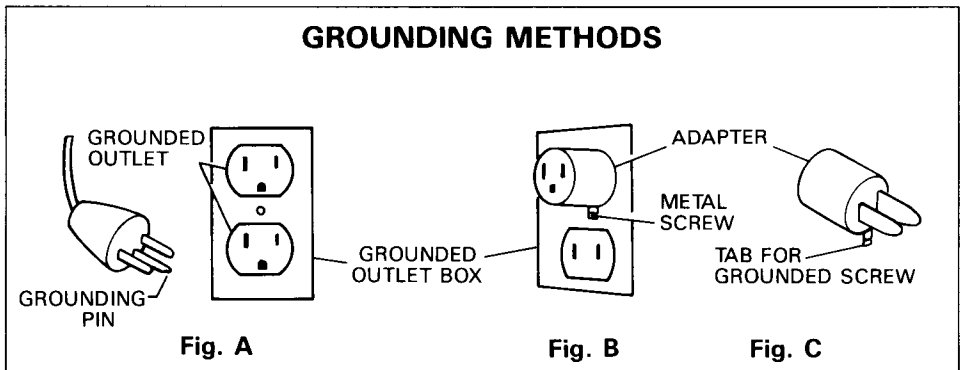
1. Always use protective goggles, a cap and mask when using as a blower.
2. Never point the nozzle at anyone in the vicinity when using as a blower.
3. Do not block cooling vents. These vents permit cooling of the motor. Blockage should be carefully avoided lest the motor burn out from lack of ventilation.
4. Do not fold, tug nor step on the hose.
5. Always switch off and wait for the fan to come to a complete stop before installing or removing the hose.
6. Never stick your hands into the inlet or outlet.

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER — Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the grounding wire to a live terminal. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance — if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 115-volt circuit, and has a grounding plug that looks like the plug illustrated in Fig. A. A temporary adapter that looks like the adapter illustrated in Fig. B and C may be used to connect this plug to a 2-pole receptacle as shown in Fig. B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet (Fig. A) can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a metal screw.



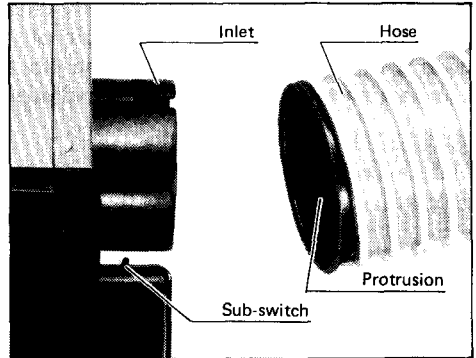
SAVE THESE INSTRUCTIONS.

This appliance is intended for commercial use.

1. When using this tool to collect dust into the dust bag

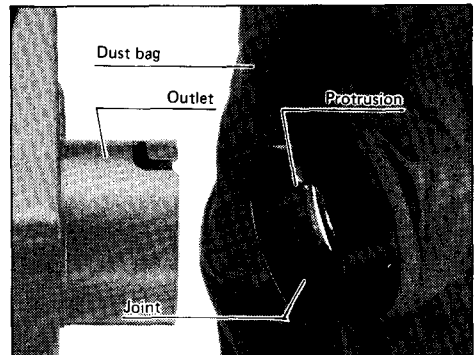
Installing hose

Attach the end of hose (the metal end) to the inlet. To attach it, align the protrusions on the inside of hose with the slots in the inlet, push the hose in and turn it clockwise.



Installing dust bag

Attach the joint of dust bag to the outlet in the same manner as the hose. When attaching it, be careful not to twist the dust bag.



Switch action

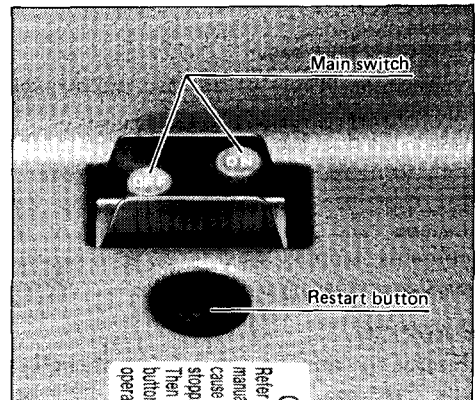
This tool is equipped with a main switch and a sub-switch. To start the tool, both switches should be turned on.

Main switch:

To turn on the main switch, press the "ON" button. Press the "OFF" button to turn it off.

Sub-switch:

When the hose is attached to the inlet, the sub-switch is automatically turned on. When the hose is removed or loose, it is automatically turned off.



CAUTION:

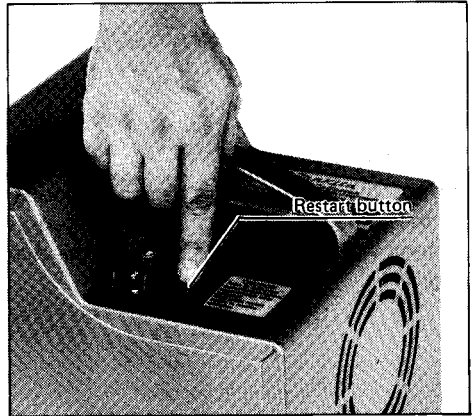
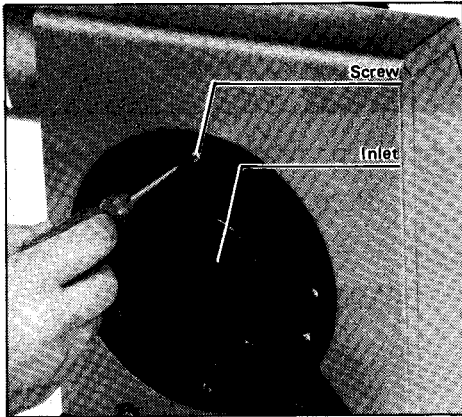
For your own safety, do not defeat the sub-switch by holding it in the "ON" position with tape, etc.

Overload protector

The overload protector automatically cuts out to break the circuit whenever heavy work is prolonged. If this occurs, first turn off the main switch and unplug the tool. Then detach the hose and the inlet from the tool and remove the foreign matter clogging the fan. Now attach the inlet and the hose and press the restart button.

CAUTION:

Before pressing the restart button, always be sure to wait 20 seconds after the tool stopped.



Operation

Avoid using the tool with the end of hose buried in a pile of dust, or the tool may become clogged.

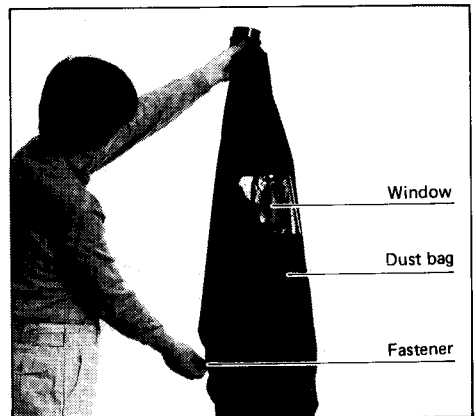
Emptying dust bag

Inspect the insides of the dust bag through the window.

When the dust bag is about 2/3 (two thirds) full, turn off the main switch and remove the dust bag from the tool. Unzip the fastener and empty the dust bag of its contents, tapping it lightly so as to remove particles adhering to the insides.

CAUTION:

Empty the dust bag of its contents before the dust bag is full, or the tool may become clogged.



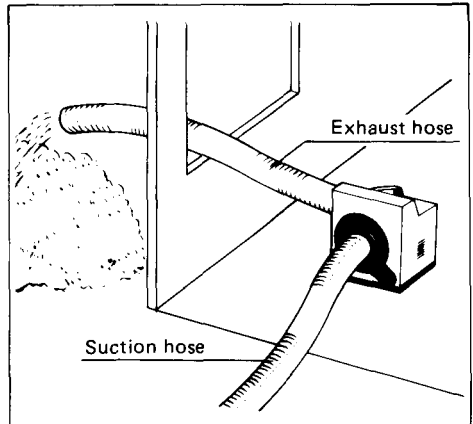
2. When exhausting dust from indoors to outdoors

Installing hoses

Attach one hose to the inlet and another hose to the outlet in the same manner as mentioned in page. 5.

CAUTION:

The total length of exhaust hose and suction hose should be less than 10 meters (32 feet). Otherwise the tool may become clogged.



MAINTENANCE

CAUTION:

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

The tool will stop when the carbon brushes wear to a certain length. When this occurs, both carbon brushes should be replaced.

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

ACCESSORIES

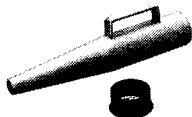
CAUTION:

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. The accessories or attachments should be used only in the proper and intended manner.

When using this tool as blower

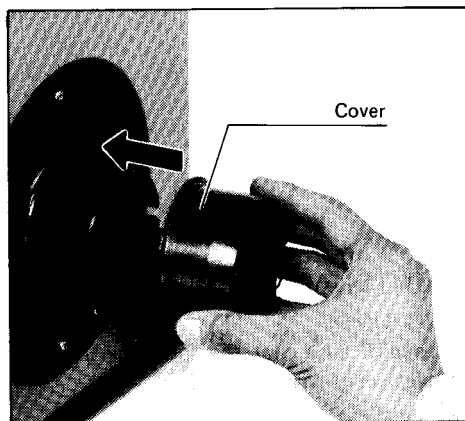
Nozzle & Cover

Part No. 191716-9

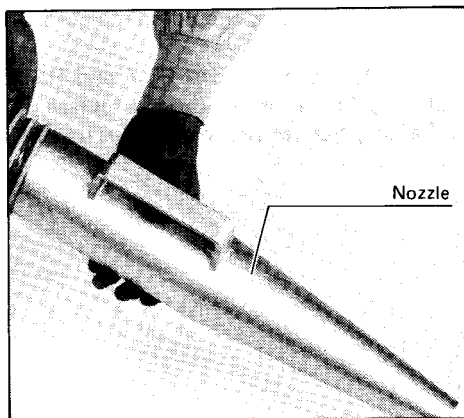


Installing cover and nozzle

Attach the cover to the inlet and the hose to the outlet in the same manner as mentioned in page 5.



Attach the nozzle to the hose.



CAUTION:

Never let anything to get into the inlet during blower operation.

If you connect this dust collector to a Makita planer or planer-jointer, you can perform clean, dust-free operation. To do so, use shaving hoods.

CAUTION:

- When dust or shavings exhausted from the planer or planer-jointer are large or wet, run the planer or the planer-jointer under light load. Otherwise the tools may become clogged.
- The total length of exhaust hose and suction hose should be less than the max. length shown in the Table right. Otherwise the tools may become clogged.

Table	
Max. length of hoses	For Model
20 m (66 feet)	2004
	2030
	2030N
2.5 m (8.2 feet)	2040

- These shaving hoods are for planing operation. You cannot use them for jointing operation.

- **Dust bag**
Part No. 166023-9



- **Flexible hose**
2 m Part No. 191779-5
2.5 m Part No. 191711-9 (with metal end)
5 m Part No. 191712-7
10 m Part No. 191713-5



- **Floor nozzle assembly**
Part No. 122361-9



Can be used to collect chips and sawdust on floor.

- **Hose joint**
Part No. 191757-5



- **Joint 100 assembly**
Part No. 122336-8

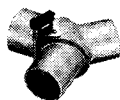


Can be connected with other hood makes (100 φ)

- **Clamp 90**
Part No. 191715-1

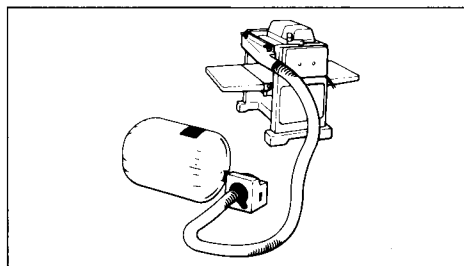


- **Y-joint assembly**
Part No. 122342-3
(For Model 2030, 2030N)

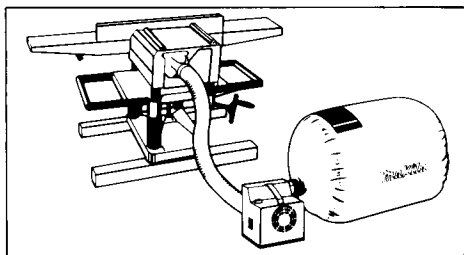


Can be used to collect chips and sawdust from auto-planer or jointer feed side by switching.

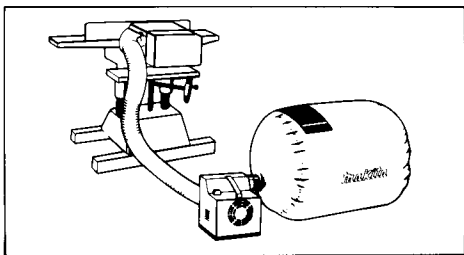
- **Hood for Model 2012**
Part No. 192010-2



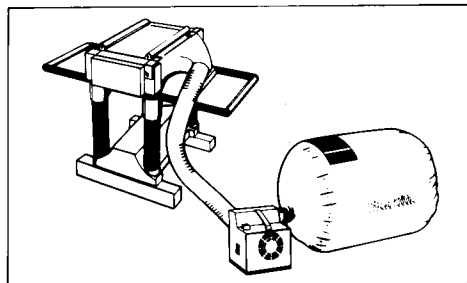
- **Hood for Model 2030N**
Part No. 191719-3



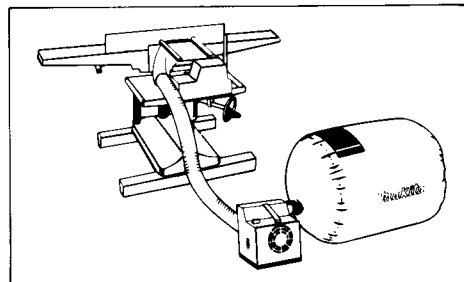
- **Hood for Model 2004**
Part No. 191717-7



- **Hood for Model 2040**
Part No. 191721-6

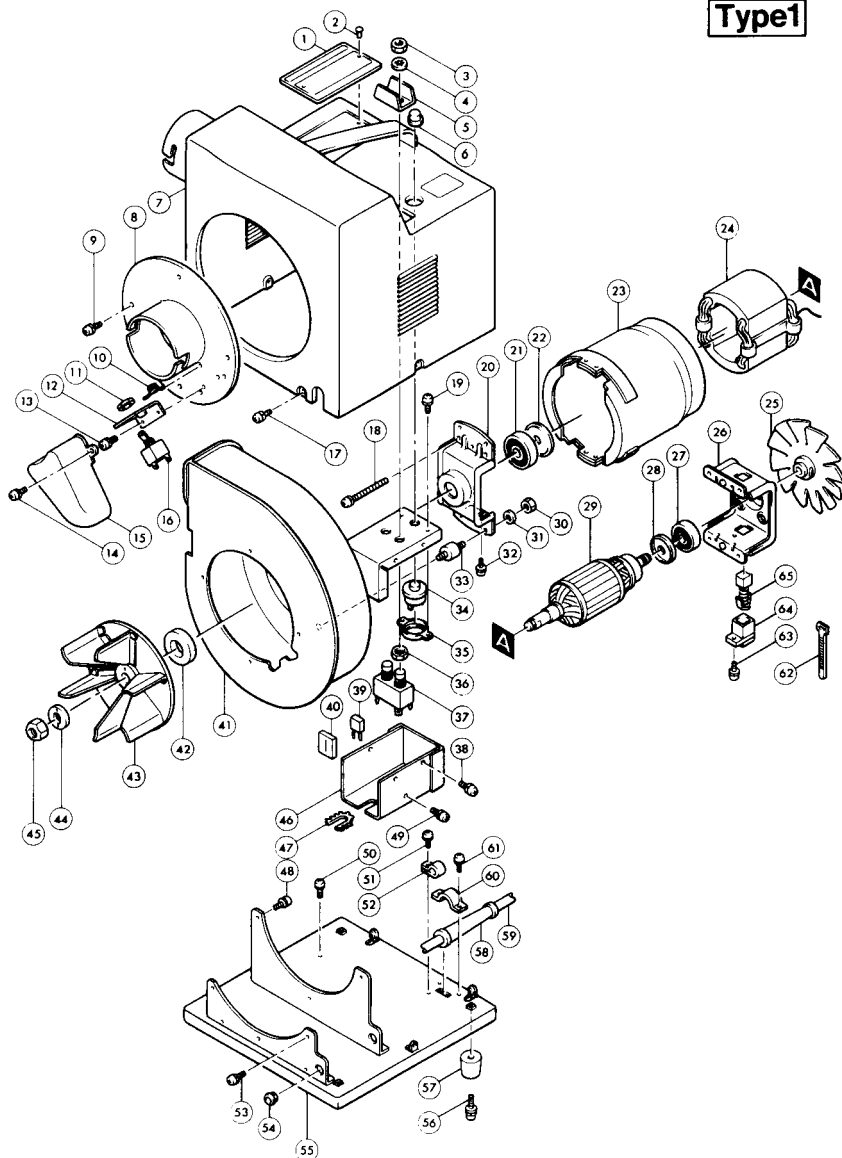


- **Hood for Model 2030**
Part No. 191720-8



DUST COLLECTOR

Model 410

Type1


Note: The switch, noise suppressor and other part configurations may differ from country to country.

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
MACHINE			MACHINE		
1	1	Name Plate	33	4	Mount
2	2	Rivet 0-5	34	1	Over Current Relay KM- 152
3	2	Hex. Nut M12	35	1	Relay Holder
4	2	Washer 12	36	2	Hex. Nut M12
5	1	Switch Protector	37	1	Switch
6	1	Relay Cover	38	1	Pan Head Screw M4x6 (With Washer)
7	1	Cowling	40	1	Sponge Sheet
8	1	Inlet	41	1	Scroll
9	4	Pan Head Screw M4x6 (With Washer)	42	1	Seal
10	1	Torsion Spring 10	43	1	Fan 130
11	1	Hex. Nut M12	44	1	Lock Washer 12
12	1	Switch Holder	45	1	Hex. Nut M10
13	2	Pan Head Screw M4x6 (With Washer)	46	1	Switch Cover
14	2	Pan Head Screw M4x6 (With Washer)	47	1	Grommet
15	1	Switch Guard	48	3	Pan Head Screw M4x6 (With Washer)
16	1	Switch	49	2	Pan Head Screw M4x6 (With Washer)
17	6	Pan Head Screw M4x8 (With Washer)	50	1	Pan Head Screw M4x8 (With Washer)
18	4	Pan Head Screw M5x70 (With Washer)	51	1	Pan Head Screw M5x12 (With Washer)
19	2	Pan Head Screw M4x8 (With Washer)	52	1	Strain Relief
20	1	Bracket A	53	3	Pan Head Screw M4x6 (With Washer)
21	1	Ball Bearing 6202LLB	54	2	Grommet
22	1	Dust Seal 15	55	1	Base
23	1	Motor Cover	56	4	Pan Head Screw M4x16 (With Washer)
24	1	FIELD ASSEMBLY	57	4	Cushion
25	1	Fan 106	58	1	Cord Guard
26	1	End Bell	59	1	Cord
27	1	Ball Bearing 6200LLB	60	1	Strain Relief
28	1	Dust Seal 10	61	2	Pan Head Screw M5x12 (With Washer)
29	1	ARMATURE ASSEMBLY (With Item 21, 22, 27 - 29)	62	1	Band
30	4	Hex. Nut M5	63	2	Pan Head Screw M4x10 (With Washer)
31	4	Spring Washer 5	64	2	Brush Holder
32	4	Pan Head Screw M4x6 (With Washer)	65	2	Carbon Brush

Note: The switch and other part specifications may differ from country to country.

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.

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