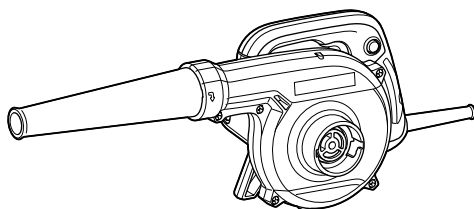


INSTRUCTION MANUAL

Blower

UB1103



DOUBLE
INSULATION

014255

IMPORTANT: Read Before Using.

ENGLISH (Original instructions)

SPECIFICATIONS

Model		UB1103
Capacities	Air pressure (water column)	0 - 5.7 kPa (0 - 580 mm; 0 - 23")
	Max. air volume	0 - 4.1 m ³ /min (0 - 145cu.ft./min)
No load speed (RPM)		0 - 16,000 /min
Overall length		479 mm (18-7/8")
Net weight		2.0 kg (4.3 lbs)

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- Weight according to EPTA-Procedure 01/2003

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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. Do not use 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. Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
12. Do not use without dust bag in place when collecting dust.
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. **AVOID UNINTENTIONAL STARTING.** Do not carry plugged-in appliance with finger on switch. Be sure switch is OFF when plugging in.
17. **OUTDOOR USE EXTENSION CORDS.** When appliance is used outdoors, use only extension cords intended for use outdoors and so marked.
18. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
19. This appliance is provided with double insulation. Use only identical replacement parts. See instructions for Servicing of Double-Insulated Appliances.
20. **POLARIZED PLUGS.** To reduce the risk of electric shock, this appliance 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.

SERVICING OF DOUBLE INSULATED APPLIANCES

In a double-insulated appliance, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated appliance, nor should a means for grounding be added to the appliance. Servicing a double-insulated appliance requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated appliance must be identical to the parts they replace. A double-insulated appliance is marked with the words "DOUBLE INSULATION" or "DOUBLE INSULATED." The symbol (square within a square) □ may also be marked on the appliance.

SAVE THESE INSTRUCTIONS.

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

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SPECIFIC SAFETY RULES

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

1. Always use protective goggles, a cap and mask when using the blower. Ordinary eye or sun glasses are **NOT** safety glasses.
2. Never point the nozzle at anyone in the vicinity when using the blower.
3. Always use the dust bag when collecting dust, chips and the like.
4. Do not collect still smoldering cigarette ashes, freshly cut metals shavings, screws, nails and the like.
5. Never block suction inlet and/or blower outlet. Increased motor revolution may cause dangerous fan breakage.

6. The blower is not intended for use by young children or infirm persons without supervision.
7. Young children should be supervised to ensure that they do not play with the blower.
8. 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.



This appliance is intended for household use.

⚠WARNING:

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

Symbols

The followings show the symbols used for tool.

- v · volts
- A · amperes
- Hz · hertz
-  · alternating current
- n_0 · no load speed
-  · Class II Construction
- \dots /min
r/min · revolutions or reciprocation per minute

FUNCTIONAL DESCRIPTION

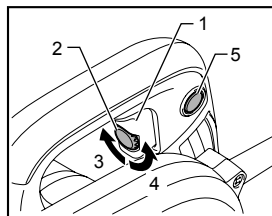
⚠CAUTION:

- 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.



1. Switch trigger
2. Speed control screw
3. Higher
4. Lower
5. Lock button

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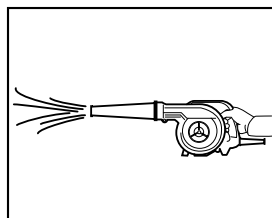
To start the tool, simply pull the switch trigger. Tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop. Switch can be locked in "ON" position for ease of operator comfort during extended use. Apply caution when locking tool in "ON" position and maintain firm grasp on tool.

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

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

A speed control screw is provided so that maximum tool speed can be limited (variable). Turn the speed control screw clockwise for higher speed, and counterclockwise for lower speed.

OPERATION



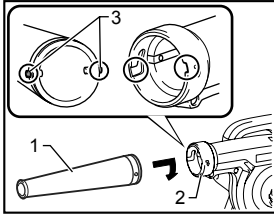
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⚠CAUTION:

- Always hold the tool only by the handle when performing an operation. Do not touch the metal part.

- Do not use the tool for blowing air into objects, like rubber rafting, balls or other inflatable products. Increased motor revolution may cause dangerous fan breakage.

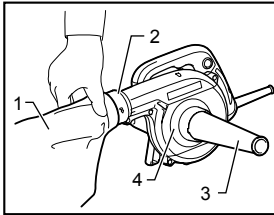
Blowing



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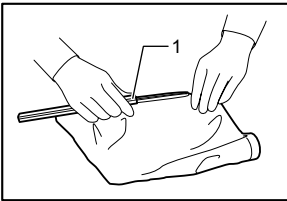
For dust blowing, attach nozzle to blower outlet. Turn it clockwise until it clicks.

Dust suction (optional accessory)



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For dust suction, fit nozzle onto suction inlet and dust bag onto blower outlet. Turn them clockwise until it clicks.



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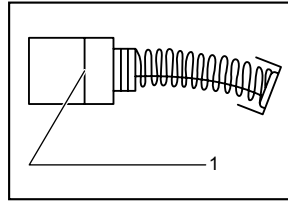
After the bag fills with dust, empty the contents of the dust bag into a dust bin by releasing the fastener.

MAINTENANCE

⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.
- Never use gasoline, benzene, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

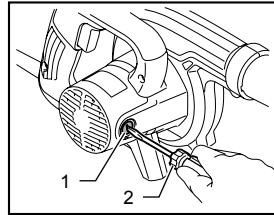
Replacing carbon brushes



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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. 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.

1. Limit mark



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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.

1. Brush holder cap
2. Screwdriver

OPTIONAL 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.

- Joint
- Nozzle assembly
- Dust bag assembly
- Flexible hose
- Nozzle assembly (Long size)

NOTE:

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

< USA only >

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.