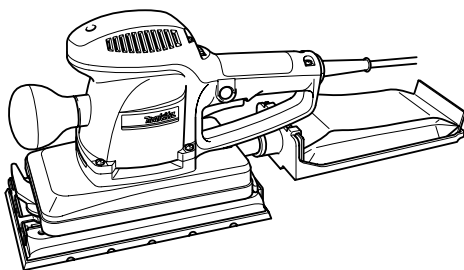


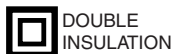


# Finishing Sander

MODEL BO4900V  
MODEL BO4900  
MODEL BO4901



001680



## 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	BO4900V	BO4900	BO4901
Pad size	115 mm x 229 mm	115 mm x 229 mm	115 mm x 229 mm
Abrasive paper size	115 mm x 280 mm	115 mm x 280 mm	115 mm x 280 mm
Orbits per minute (min <sup>-1</sup> )	4,000 - 10,000	10,000	10,000
Sanding stroke rate (min <sup>-1</sup> )	8,000 - 20,000	20,000	20,000
Overall length	289 mm	289 mm	289 mm
Net weight	2.8 kg	2.8 kg	2.8 kg
Safety class	□ / II		

- Due to our continuing programme of research and development, the specifications herein are subject to change without notice.
- Note: Specifications may differ from country to country.

## SYMBOLS

END201-2

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.



.....Read instruction manual.



.....DOUBLE INSULATION



.....Only for EU countries

Do not dispose of electric equipment together with household waste material!

In observance of European Directive 2002/96/EC on waste electric and electronic equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

## Intended use

The tool is intended for the sanding of large surface of wood, plastic and metal materials as well as painted surfaces.

## Power supply

The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated in accordance with European Standard and can, therefore, also be used from sockets without earth wire.

## For European countries only

### Noise and Vibration

The typical A-weighted sound pressure level is 71 dB (A). Uncertainty is 3 dB(A).

The noise level under working may exceed 85 dB (A).

– Wear ear protection. –

The typical weighted root mean square acceleration value is 5 m/s<sup>2</sup>.

These values have been obtained according to EN60745.

### EC-DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product is in compliance with the following standards of standardized documents, EN60745, EN55014, EN61000 in accordance with Council Directives, 89/336/EEC, 98/37/EC.

Yasuhiko Kanzaki **CE 2005**

Director

### MAKITA INTERNATIONAL EUROPE LTD.

Michigan Drive, Tongwell, Milton Keynes, Bucks MK15 8JD, ENGLAND

Responsible manufacturer:

Makita Corporation Anjo Aichi Japan

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# GENERAL SAFETY RULES

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## WARNING:

**Read all instructions.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term “power tool” in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

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## SAVE THESE INSTRUCTIONS

### Work area safety

1. **Keep work area clean and well lit.** Cluttered 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 children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### Electrical safety

4. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
5. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or 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 for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
8. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces 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 a power tool while you are 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. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
11. **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
12. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
13. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
14. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
15. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

### Power tool use and care

16. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
17. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
18. **Disconnect the plug from the power source and/or the battery pack from the power tool before**

- making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
19. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
  20. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
  21. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
  22. **Use the power tool, accessories and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

#### Service

23. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
24. **Follow instruction for lubricating and changing accessories.**
25. **Keep handles dry, clean and free from oil and grease.**

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## Specific Safety Rules

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

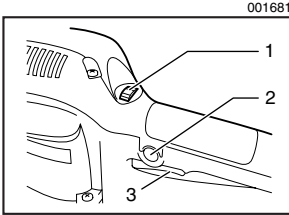
1. **Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
2. **Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses.**
3. **Hold the tool firmly.**
4. **Do not leave the tool running. Operate the tool only when hand-held.**

5. **This tool has not been waterproofed, so do not use water on the workpiece surface.**
6. **Ventilate your work area adequately when you perform sanding operations.**
7. **Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.**
8. **Use of this tool to sand some products, paints and wood could expose user to dust containing hazardous substances. Use appropriate respiratory protection.**
9. **Be sure that there are no cracks or breakage on the pad before use. Cracks or breakage may cause a personal injury.**

## SAVE THESE INSTRUCTIONS.

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

## FUNCTIONAL DESCRIPTION



1. Speed adjusting dial
2. Lock button
3. 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.

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, then release it.

### Speed adjusting dial

#### For BO4900V only

### ⚠ CAUTION:

- If the tool is operated continuously at low speeds, the motor will get overloaded and heated up.
- The speed adjusting dial can be turned only as far as 5 and back to 1. Do not force it past 5 or 1, or the speed adjusting function may no longer work.

The tool speed can be infinitely adjusted between 4,000 and 10,000 orbits per minute by turning the speed adjusting dial, which is marked 1 to 5. Higher speed is obtained when the dial is turned in the direction of number 5, lower speed is obtained when it is turned in the direction of number 1. Adjust the desired tool speed for the kind of work.

## ASSEMBLY

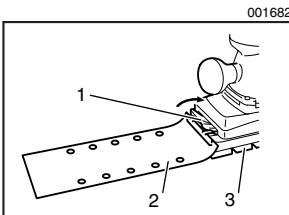
### ⚠ CAUTION:

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

### Installing or removing abrasive paper

#### For conventional type of abrasive paper with pre-punched holes (standard equipment):

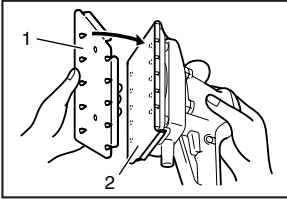
Turn the clamp lever counterclockwise. Insert the paper end into the clasper, aligning the holes in the paper with those in the pad. Then return the clamp lever to the original position to secure the paper. Repeat the same process for the other end of the tool, maintaining the proper paper tension.



1. Clamp lever
2. Conventional type of abrasive paper with pre-punched holes
3. Pad for conventional type of abrasive paper

**For conventional type of abrasive paper without pre-punched holes (optional accessory):**

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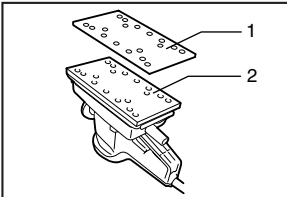
1. Punch plate
2. Conventional type of abrasive paper without pre-punched holes

Turn the clamp lever counterclockwise. Insert the paper end into the clasper, aligning the paper edges even and parallel with the sides of the base. Then return the clamp lever to the original position to secure the paper. Repeat the same process for the other end of the tool, maintaining the proper paper tension.

Place the punch plate (optional accessory) over the paper so that the guide of the punch plate is flush with the sides of the pad. Then press the punch plate to make holes in the paper.

**For hook-and-loop type of abrasive paper with pre-punched holes (optional accessory):**

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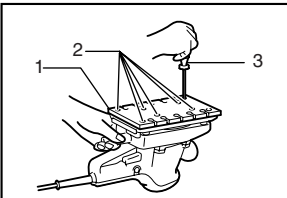
1. Hook-and-loop type of abrasive paper with pre-punched holes
2. Pad for hook-and-loop type of abrasive paper

Remove all dirt or foreign matter from the pad. Attach the paper to the pad, aligning the holes in the paper with those in the pad.

**CAUTION:**

- Never use pressure-sensitive abrasive paper.

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1. Pad
2. Screws
3. Screwdriver

**For BO4901 only**

**NOTE:**

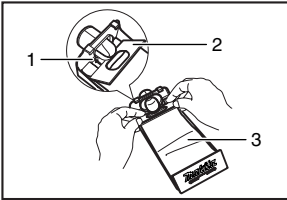
- To use the hook-and-loop type of abrasive paper, first replace the pad. Remove the pad for the conventional type of abrasive paper from the tool with a screwdriver. Install the pad for the hook-and-loop type of abrasive paper (optional accessory) on the tool. Tighten the screws firmly to secure the pad.

## Installing paper dust bag

### For BO4900, BO4900V only

Place the paper dust bag on the paper dust bag holder with its front side upward. Insert the front fixing cardboard of the paper dust bag into the groove of the paper dust bag holder.

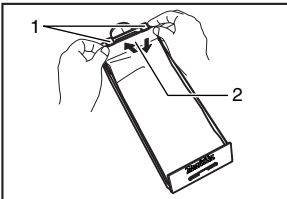
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1. Groove
2. Front fixing cardboard
3. Paper dust bag

Then press the upper part of the front fixing cardboard in arrow direction to hook it onto the claws.

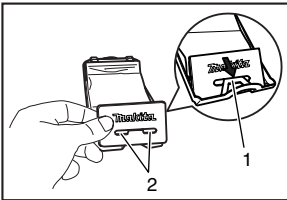
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1. Claws
2. Upper part

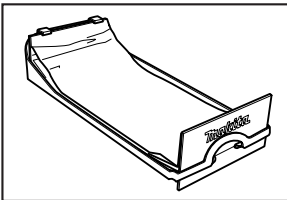
Insert the notch of the paper dust bag into the guide of the paper dust bag holder. Then install the paper dust bag holder set on the tool.

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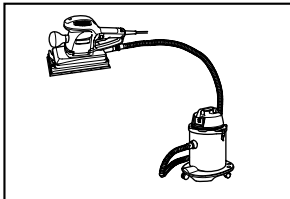


1. Guide
2. Notch

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### Connecting to vacuum cleaner

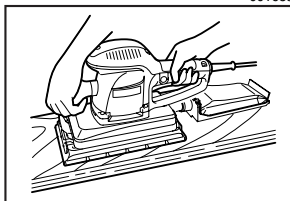
When you wish to perform cleaner operation, connect a vacuum cleaner to your tool. Connect a hose of vacuum cleaner to the dust nozzle.

## OPERATION

### ⚠ CAUTION:

- Never run the tool without the abrasive paper. You may seriously damage the pad.
- Never force the tool. Excessive pressure may decrease the sanding efficiency, damage the abrasive paper and/or shorten tool life.
- The front grip is a screwed type one. Always be sure that the front grip is tightened securely before operation.

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Turn the tool on and wait until it attains full speed. Then gently place the tool on the workpiece surface. Keep the base flush with the workpiece and apply a light pressure on the tool.

## MAINTENANCE

### ⚠ CAUTION:

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

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



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## 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 paper (with pre-punched holes)
- Abrasive paper (without pre-punched holes)
- Hook-and-loop type of abrasive paper
- Joint
- Dust bag and dust nozzle
- Paper dust bag
- Paper dust bag holder
- Punch plate
- Pad (For use with hook-and-loop type of abrasive paper)





Makita Corporation Anjo, Aichi, Japan