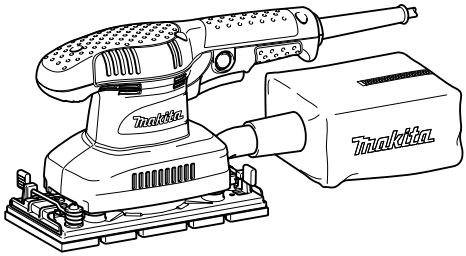
INSTRUCTION MANUAL

Finishing Sander

BO3710
BO3711



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DOUBLE
INSULATION

⚠WARNING:
For your personal safety, READ and UNDERSTAND before using.
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

SPECIFICATIONS

Model	BO3710	BO3711
Pad size	93 mm x 185 mm (3-5/8" x 7-1/4")	
Abrasive paper size	93 mm x 228 mm (3-5/8" x 9")	
Orbits per minute	11,000	4000 - 11,000
Overall length	253 mm (10")	
Net weight	1.6 kg (3.5 lbs)	

• Due to our continuing programme 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

GEA008-1

General Power Tool Safety Warnings

⚠ **WARNING Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

1. **Keep work area clean and well lit.** Cluttered or 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.
9. **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of an GFCI reduces the risk of electric shock.

Personal Safety

10. **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.
11. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
12. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. .** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
13. **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.
14. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
15. **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.

16. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

Power tool use and care

17. **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.
18. **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.
19. **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.
20. **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.
21. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
22. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
23. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, 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

24. **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.
25. **Follow instruction for lubricating and changing accessories.**
26. **Keep handles dry, clean and free from oil and grease.**

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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SANDER SAFETY WARNINGS

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

1. **Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses.**
2. **Hold the tool firmly.**
3. **Do not leave the tool running. Operate the tool only when hand-held.**
4. **This tool has not been waterproofed, so do not use water on the workpiece surface.**
5. **Ventilate your work area adequately when you perform sanding operations.**
6. **Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.**
7. **Use of this tool to sand some products, paints and wood could expose user to dust containing hazardous substances. Use appropriate respiratory protection.**

8. **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.

USD205-1

Symbols

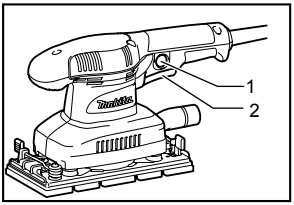
The followings show the symbols used for tool.

V	·	volts
A	·	amperes
Hz	·	hertz
~	·	alternating current
n_o	·	no load speed
⧈	·	Class II Construction
/min	·	orbits 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



1. Lock button
2. Switch trigger

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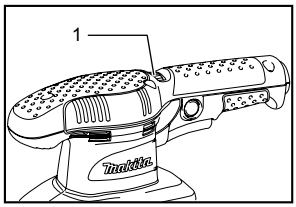
⚠CAUTION:
- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

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 BO3711 only



1. Speed adjusting dial

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⚠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.

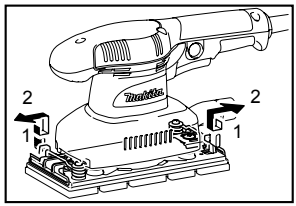
The tool speed can be infinitely adjusted between 4,000 and 11,000 orbits per minute by turning the speed adjusting dial, which is marked 1 to 5. Higher speed is obtained when the dial is turned in the direction of number 5, lower speed is obtained when it is turned in the direction of number 1. Adjust 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):



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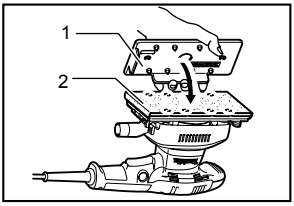
Press down the clamp lever (1 in the figure) and with the clamp lever pressed down slide it toward the tool (2 in the figure) and the clamper will be released.
Insert the paper end between a clamper and the pad

aligning the holes in the paper with those in pad. Then return the clamp lever to the original position to secure it. Release the other clamp lever by repeating the same procedure.
While pulling abrasive paper to maintain the proper tension, insert and secure the other end of abrasive paper between another clamper and the pad and return the clamp lever to the original position.
To remove the paper, release the clamper as stated above.

For conventional type of abrasive paper without pre-punched holes (available on the market):



1. Punch plate
2. Abrasive paper without pre-punched holes

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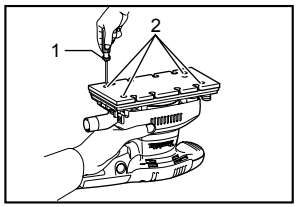
Press down the clamp lever 1 and with the clamp lever pressed down slide it toward the tool 2 and the clamper will be released.
Insert the paper end between a clamper and the pad aligning the paper edges even and parallel with the sides of the base. Then return the clamp lever to the original position to secure it.
Release the other clamp lever by repeating the same procedure.
While pulling abrasive paper to maintain the proper tension, insert and secure the other end of abrasive paper between another clamper and the pad and return the paper clamp lever to the original position.
Place the punch plate (optional accessory) over the paper so that the guide of the punch plate is flush with the sides of the base. Then press the punch plate to make holes in the paper.
To remove the paper, release the clamper as stated above.

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

⚠CAUTION:

- Always use hook-and-loop type of abrasive papers. Never use pressure-sensitive abrasive paper.



1. Screwdriver
2. Screw

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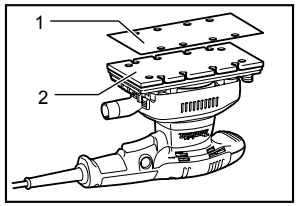
Remove the pad for the conventional type of abrasive paper from the tool with a screwdriver. Install the pad for the hook-and-loop type of abrasive paper (optional accessory) on the tool. Tighten the screws firmly to secure the pad.



1. Abrasive paper
2. Pad

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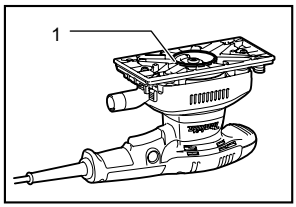
Remove all dirt or foreign matter from the pad. Attach the paper to the pad, aligning the holes in the paper with those in the pad.



1. O-ring

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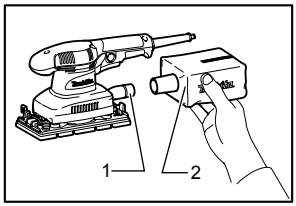
⚠CAUTION:

- When removing the pad, O ring may come out of the tool. When this occurs, return the O ring to the original position and then install the pad.

Dust bag



1. Dust spout
2. Dust bag

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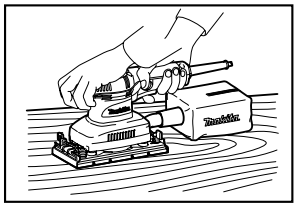
Attach the dust bag onto the dust spout. The dust spout is tapered. When attaching the dust bag, push it onto the dust spout firmly as far as it will go to prevent it from coming off during operation.

For the best results, empty the dust bag when it becomes approximately half full, tapping it lightly to remove as much dust as possible.

OPERATION

Sanding operation



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⚠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 or shorten tool life.

Hold the tool firmly. Turn the tool on and wait until it attains full speed. Then gently place the tool on the workpiece surface. Keep the pad flush with the workpiece and apply slight 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.

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)
- Hook-and-loop type of abrasive paper
- Punch plate
- Backing pad (For use with hook-and-loop type of abrasive paper)
- Backing pad (For use with conventional type of abrasive paper)
- Dust bag
- Dust box
- Filter
- Hose