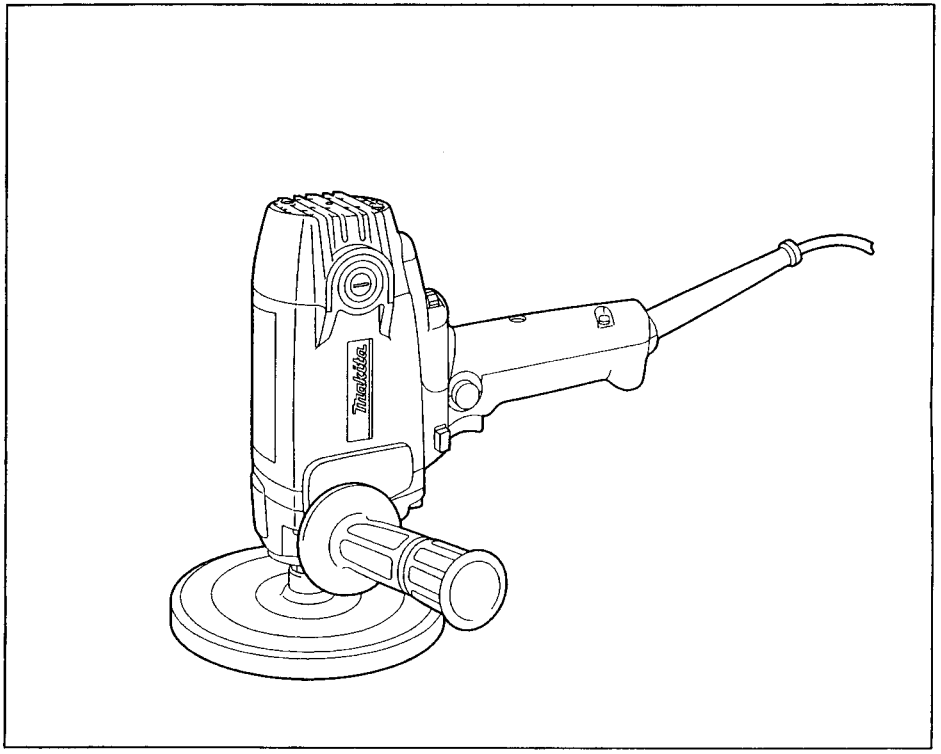
Electronic Polisher

180 mm (7") MODEL PV7001C

INSTRUCTION MANUAL



SPECIFICATIONS

No load speed (RPM)	Overall length	Net weight	Spindle thread
600 — 2,000/min.	210 mm (8-1/4")	2.0 kg (4.4 lbs)	5/8"

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

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

GENERAL SAFETY RULES

USA001-1

(For All Tools)

WARNING! Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

Work Area

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

Electrical Safety

4. **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adaptor plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
5. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is 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 to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
8. **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W."** These cords are rated for outdoor use and reduce 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 tool while 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. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
11. **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
12. **Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
13. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
14. **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

Tool Use and Care

15. **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
16. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
17. **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
18. **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
19. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
20. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
21. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
22. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.

Service

23. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
24. **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

Specific Safety Rules

USB048-1

1. **Accessories must be rated for at least the speed recommended on the tool warning label.** Wheels and other accessories running over rated speed can fly apart and cause injury.
2. **Hold tool 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.
3. **Check the backing pad carefully for cracks, damage or deformity before operation. Replace cracked, damaged or deformed pad immediately.**
4. **Hold the tool firmly.**
5. **Keep hands away from rotating parts.**
6. **Make sure the abrasive disc or wool bonnet is not contacting the workpiece before the switch is turned on.**
7. **When sanding metal surfaces, watch out for flying sparks. Hold the tool so that sparks fly away from you and other persons or flammable materials.**
8. **Do not leave the tool running. Operate the tool only when hand-held.**
9. **Do not touch the workpiece immediately after operation; it may be extremely hot and could burn your skin.**
10. **Check that the workpiece is properly supported.**
11. **Pay attention that the wheel continues to rotate after the tool is switched off.**
12. **This tool has not been waterproofed, so do not use water on the workpiece surface.**
13. **Ventilate your work area adequately when you perform sanding operations.**

SAVE THESE INSTRUCTIONS.

SYMBOLS

The followings show the symbols used for tool.

V ..... volts

A ..... amperes

Hz ..... herts

 ..... alternating current

n_0 ..... no load speed

.../min ..... revolutions or reciprocation per minute

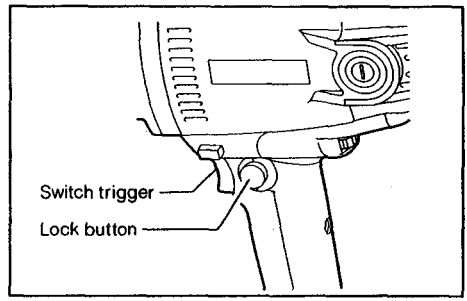
FUNCTIONAL DESCRIPTION

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 trigger. Release the trigger to stop. For continuous operation, pull the trigger and then push in the lock button. To stop the tool from the locked position, pull the trigger fully, then release it.



Speed adjusting dial

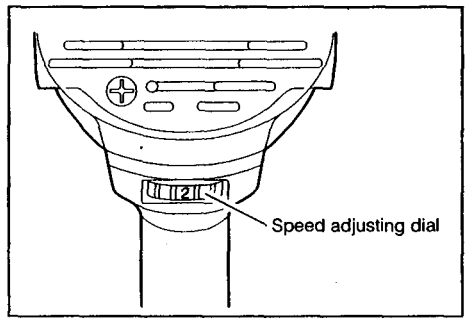
The rotating speed can be changed by turning the speed adjusting dial to a given number setting from 1 to 5.

Higher speed is obtained when the dial is turned in the direction of number 5.

And lower speed is obtained when it is turned in the direction of number 1.

Refer to the table below for the relationship between the number settings on the dial and the approximate rotating speed.

Number	RPM (min)
1	600
≀	≀
2	800
≀	≀
3	1300
≀	≀
4	1800
≀	≀
5	2000



CAUTION:

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 equipped with electronic function is easy to operate because of the following features.

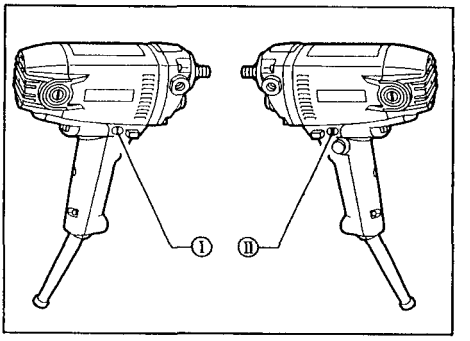
- Electronic speed control for obtaining constant speed
  Possible to get fine finish, because the rotating speed is kept constantly even under the loaded condition.
- Soft start feature
  Safety and soft start because of suppressed starting shock.

High-Low speed setting button

The rotating speed can be changed instantly while the tool is running.

Depress the "I" position for lowest speed and depress the "II" position for a given number setting.

The rotating speed cannot be changed when the button is in "I" position, even if you turn the speed adjusting dial. When you turn the speed adjusting dial, always be sure that the button is depressed in "II" position.



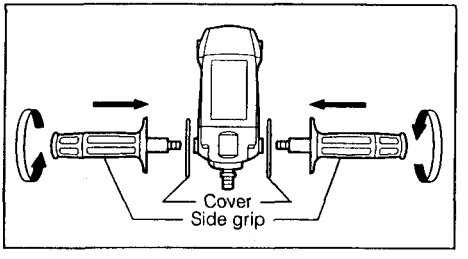
ASSEMBLY

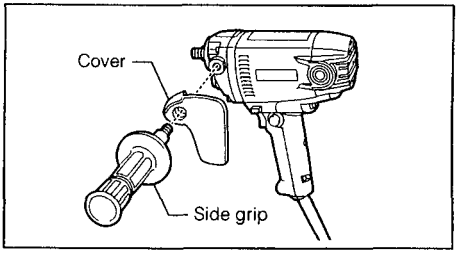
Installing side grip (auxiliary handle) & cover

CAUTION:

- Always be sure that the tool is switched off and unplugged before installing or removing the side grip and the cover.
- Always be sure that the side grip is installed securely.

Install the cover, then screw the side grip on the tool securely. The side grip and the cover can be installed on either side of the tool.





Installing or removing pad

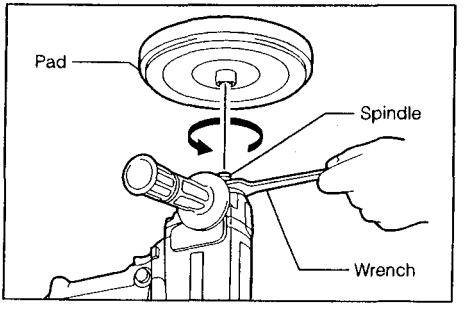
CAUTION:

Always be sure that the tool is switched off and unplugged before installing or removing the pad.

Hold the spindle with the wrench so that it cannot revolve. Then screw the pad onto the spindle all the way.

(The pad can be used to install the optional sponge pad.)

To remove the pad, follow the installation procedure in reverse.

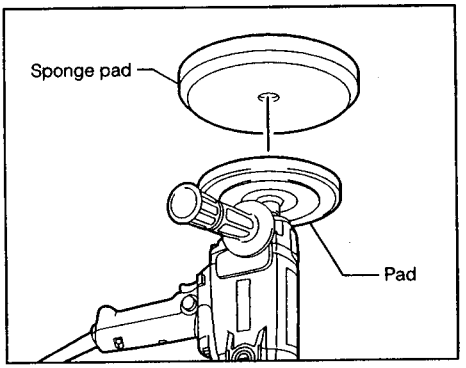


Installing or removing sponge pad

CAUTION:

Always be sure that the tool is switched off and unplugged before installing or removing the sponge pad.

Remove all dirt or foreign matter from the pad. Install the sponge pad to the pad. To remove the pad, pull off it from the pad slowly.

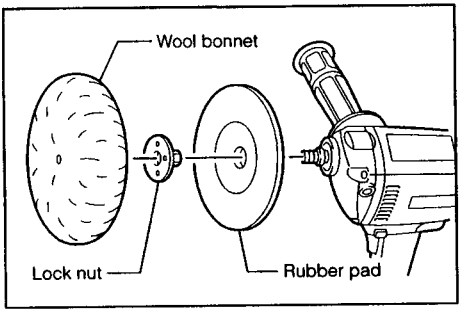


Installing or removing wool bonnet

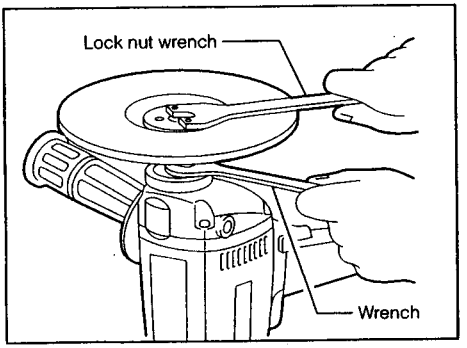
CAUTION:

Always be sure that the tool is switched off and unplugged before installing or removing the wool bonnet.

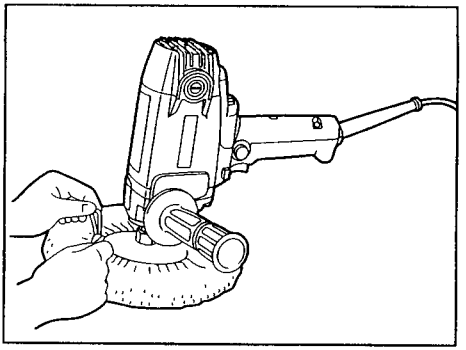
Mount the rubber pad onto the spindle. Screw the lock nut onto the spindle.



To tighten the lock nut, hold the spindle with the wrench so that it cannot revolve, then use the lock nut wrench and securely tighten clockwise.



Fit the wool bonnet completely over the rubber pad and pull the string tight. Tie a bow knot and tuck the knot and any loose strings between the wool bonnet and the rubber pad.



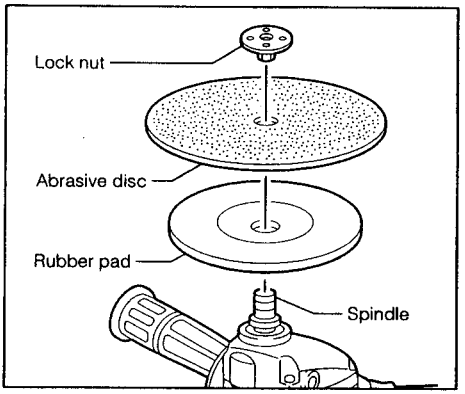
To remove the wool bonnet, follow the installation procedure in reverse.

Installing or removing abrasive disc

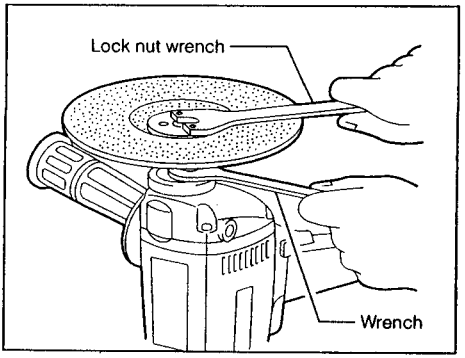
CAUTION:

Always be sure that the tool is switched off and unplugged before installing or removing the abrasive disc.

Mount the rubber pad onto the spindle.
Fit the abrasive disc on over the pad and screw the lock nut onto the spindle.



Hold the spindle with the wrench so that it cannot revolve, then use the lock nut wrench and securely tighten clockwise.
To remove the lock nut, follow the installation procedure in reverse.



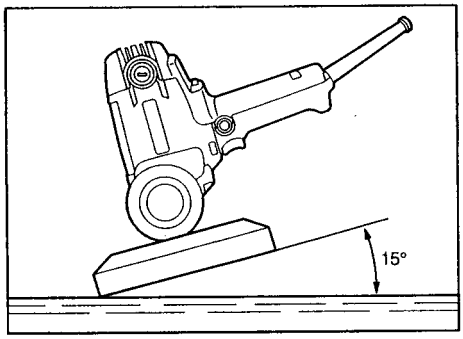
OPERATION

Polishing operation by sponge pad

CAUTION:
Always wear safety glasses or a face shield during operation.

In general, keep the sponge pad at an angle of about 15° to the workpiece surface.

CAUTION:
The sponge pad must be used only.

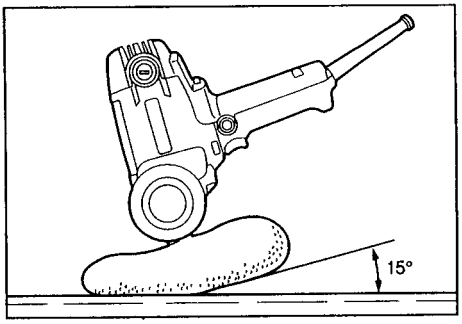


Polishing operation by wool bonnet

CAUTION:
Always wear safety glasses or a face shield during operation.

In general, keep the wool bonnet at an angle of about 15° to the workpiece surface.

CAUTION:
Excessive pressure will result in poor performance and premature wear to the wool bonnet.

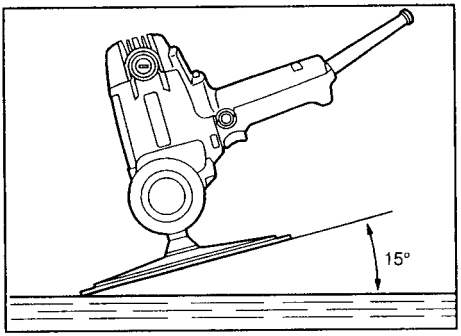


Sanding operation

CAUTION:
Always wear safety glasses or a face shield during operation.

In general, keep the abrasive disc at an angle of about 15° to the workpiece surface.
Apply slight pressure only. Excessive pressure will result in poor performance and premature wear to the abrasive disc.

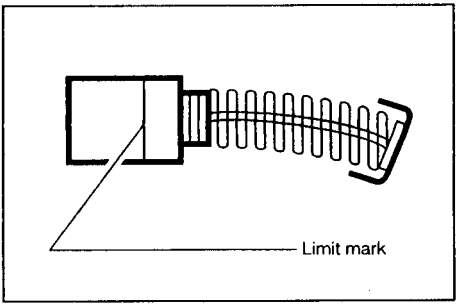
CAUTION:
Never run the tool without the abrasive disc.
You may seriously damage the pad.



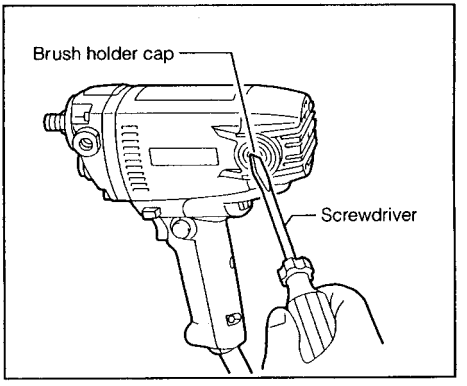
MAINTENANCE

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

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.



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.

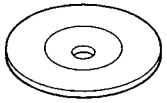


To maintain product SAFETY and RELIABILITY, repairs, maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

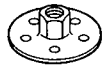
ACCESSORIES

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

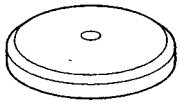
- **Rubber pad**



- **Lock nut**

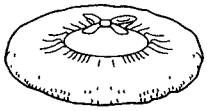


- **Sponge pad**



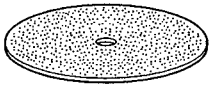
- **Lock nut wrench**

- **Wool bonnet**



- **Wrench**

- **Abrasive disc**



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.

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