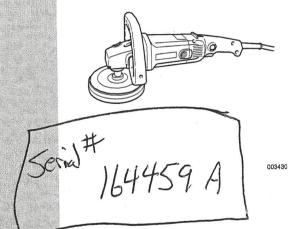


INSTRUCTION MANUAL MANUEL D'INSTRUCTION MANUAL DE INSTRUCCIONES

# **Electronic Sander Polisher** Ponceuse-polisseuse électronique Lijadora Pulidora

9227C 9227CY



**⚠ WARNING:** 

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

## **⚠ AVERTISSEMENT:**

Pour votre propre sécurité, prière de lire attentivement avant l'utilisation. GARDER CES INSTRUCTIONS POUR RÉFÉRENCE ULTÉRIEURE.

Para su seguridad personal, LEA DETENIDAMENTE este manual antes de usar la herramienta. GUARDE ESTAS INSTRUCCIONES PARA FUTURA REFERENCIA.

#### **ENGLISH**

#### **SPECIFICATIONS**

Mo	del	9227C/9227CY	
Max capacities	Wool pad	180 mm (7")	
	Abrasive disc	180 mm (7")	
Spindle thread		5/8"	
No load speed (RPM)		0 - 3,000/min.	
Overall length		470 mm (18-1/2")	
Net weight		3.0 kg (6.6 lbs)	

- 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.

#### **GENERAL SAFETY RULES**

USA001-3

#### (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**

- Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.
- 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.
- 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.
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigera-

- tors. There is an increased risk of electric shock if your body is grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 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.
- 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**

- 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.
- 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.
- 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.
- 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.
- 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. Ordinary eye or sun glasses are NOT eye protection.

#### **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.
- 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

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of initury.
- 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.

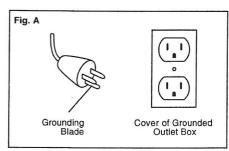
USE PROPER EXTENSION CORD: Use only three-wire extension cords that have three-prong grounding-type plugs and three-pole receptacles that accept the tool's plug. Make sure your extension cord is in good condition. Replace or repair damaged or worn cord immediately. When using an-extension cord, be sure 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	To	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 Reco	mmende

#### **GROUNDING INSTRUCTIONS:**

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. Your unit is for use on 120 volts and has a plug that looks like Fig. "A".



#### **SPECIFIC SAFETY RULES**

USB047-4

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

- 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. Maximum operating speed of accessories should be higher than the highest no load speed marked on the tool's nameplate.
- 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.
- Check the backing pad carefully for cracks, damage or deformity before operation. Replace cracked, damaged or deformed pad immediately.
- NEVER use tool with wood cutting blades or other sawblades. Such blades when used on a polisher frequently kick and cause loss of control leading to personal injury.
- 5. Hold the tool firmly.
- 6. Keep hands away from rotating parts.
- Make sure the abrasive disc or wool bonnet is not contacting the workpiece before the switch is turned on.
- 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.
- Do not leave the tool running. Operate the tool only when hand-held.

- Do not touch the workpiece immediately after operation; it may be extremely hot and could burn your skin.
- 11. Check that the workpiece is properly supported.
- 12. Pay attention that the wheel continues to rotate after the tool is switched off.
- 13. This tool has not been waterproofed, so do not use water on the workpiece surface.
- Ventilate your work area adequately when you perform sanding operations.
- Use of this tool to sand some products, paints and wood could expose user to dust containing hazardous substances. Use appropriate respiratory protection.

#### SAVE THESE INSTRUCTIONS

**⚠ WARNING:** 

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

#### **SYMBOLS**

USD101-2

The followings show the symbols used for tool.

V ......volts

A .....amperes

Hz .....hertz

…...alternating current

no moload speed

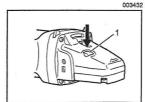
.../min .....revolutions or reciprocation per

#### **FUNCTIONAL DESCRIPTION**

#### **⚠** CAUTION:

 Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

#### Shaft lock



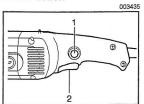
1. Shaft lock

#### **△** CAUTION:

 Never actuate the shaft lock when the spindle is moving. The tool may be damaged.

Press the shaft lock to prevent spindle rotation when installing or removing accessories.

#### Switch action



Lock button
 Switch trigger

#### **⚠** CAUTION:

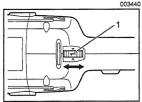
- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.
- Switch can be locked in "ON" position for ease of operator comfort during extended use. Apply caution when locking tool in "ON" position and maintain firm grasp on tool.

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.

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



 Speed adjusting dial

The tool speed can be changed by turning the speed adjusting dial to a given number setting from 1 to 6. (At the time when the switch trigger is fully pulled.)

Higher speed is obtained when the dial is turned in the direction of number 6. And lower speed is obtained when it is turned in the direction of number 1.

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

#### 003441

Number	min-1 (RPM)
1	600
2	900
3	1,500
4	2,100
5	2,700
6	3,000

#### 

- If the tool is operated continuously at low speeds for a long time, the motor will get overloaded, resulting in tool malfunction.
- The speed adjusting dial can be turned only as far as 6 and back to 1. Do not force it past 6 or 1, or the speed adjusting function may no longer work.

#### **ASSEMBLY**

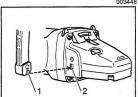
#### 

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

#### Installing loop handle (For 9227C only)

#### 

 Always be sure that the loop handle is installed securely before operation.



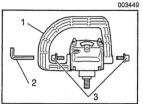
Protrusion of loop handle

Matching hole in gear housing

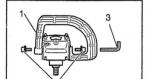
Always install the loop handle on the tool before operation. Hold the tool's switch handle and the loop handle firmly with both hands during operation.

Install the loop handle so that its protrusion will fit into the matching hole in the gear housing.

Install the bolts and tighten them with the hex wrench. The loop handle can be installed in two different directions as shown in the figures whichever is convenient for your work.



- 1. Loop handle
- 2. Hex wrench
- 3. Bolt



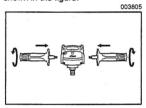
- 1. Loop handle
- 2. Bolt
- 3. Hex wrench

## Installing side grip (handle) (For 9227CY only)

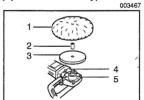
#### A CALITION

 Always be sure that the side grip is installed securely before operation.

Screw the side grip securely on the position of the tool as shown in the figure.



# Installing or removing the wool bonnet (optional accessory)



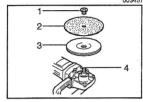
- 1. Wool bonnet 2. Sleeve 18
- Backing pad
- 4. Spindle
- 5. Shaft lock

To install the wool bonnet, first remove all dirt or foreign matter from the backing pad. Press the shaft lock and screw the backing pad onto the spindle. Insert the sleeve 18 into the center hole of the backing pad.

Using the sleeve 18 as a positioning guide, install the wool bonnet on the backing pad with the sleeve 18 inserted through the center hole of the wool bonnet. Then remove the sleeve 18 from the backing pad.

To remove the wool bonnet, just tear it off the backing pad. Then unscrew the backing pad while pressing the shaft lock.

# Installing or removing abrasive disc (optional accessory)



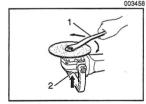
- 1. Lock nut
- 2. Abrasive disc
- 3. Rubber pad
- 4. Spindle

#### NOTE:

 Use sander accessories specified in this manual. These must be purchased separately.

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

To tighten the lock nut, press the shaft lock firmly so that the spindle cannot revolve, then use the lock nut wrench and securely tighten clockwise.



- 1. Lock nut wrench
- 2. Shaft lock

To remove the disc, follow the installation procedure in reverse

#### **OPERATION**

#### Polishing operation



#### **⚠** CAUTION:

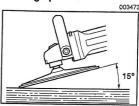
Always wear safety glasses or a face shield during

Hold the tool firmly. Turn the tool on and then apply the wool bonnet to the workpiece.

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

Apply slight pressure only. Excessive pressure will result in poor performance and premature wear to wool bonnet.

#### Sanding operation



#### ⚠ CAUTION:

- Always wear safety goggles or a face shield during operation.
- Never switch on the tool when it is in contact with the workpiece, it may cause an injury to operator.
- Never run the tool without the abrasive disc. You may seriously damage the pad.

Hold the tool firmly. Turn the tool on and then apply the

abrasive disc to the workpiece. In general, keep the abrasive disc at an angle of about 15 degrees to the workpiece surface.

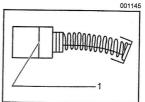
Apply slight pressure only. Excessive pressure will result in poor performance and premature wear to abrasive

### **MAINTENANCE**

#### ⚠ CAUTION:

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

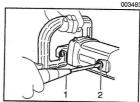
#### Replacing carbon brushes



1. Limit mark

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. Screwdriver
- 2. Brush holder

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.

#### **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.

- Wool bonnet 180 (Hook & loop)
- Backing pad 165 (Hook & loop)
- Abrasive discs
- Rubber pad 170
- Sanding lock nut 5/8 48
- Lock nut wrench 28
- Sleeve 18
- Grip 36
- Loop handle

#### 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.

## **Service & Warranty/Product Registration**

For the service center nearest you or warranty registration, visit: www.makitatools.com

For technical support or questions regarding operation of our tools and accessories, call: 1-800-4-MAKITA

## Servicio y Garantía / Registro de Producto

Para localizar el centro de servicio más cercano o validar el registro de garantía, visítenos en: www.makitatools.com

Para asesoria técnica o preguntas acerca del funcionamiento de nuestras herramientas y accesorios, llame al: 1-800-4-MAKITA

CUSTOMER'S RECORD DATOS PARA EL CLIENTE	Date Purchased/Fecha de compra
When you need service: Send complete tool (prepaid) to one of the Makita Factory Service Centers listed, or to an Authorized Makita Service Center. Be sure to attach a letter to the outside of the carton detailing the problem with your tool.	Dealer's Name & Address/Nombre y direcclón del distribuidor
Cuando necesite servicio: Envíe la herramienta completa (gastos de envío ya pagados) a uno de los Centros de Servicio de Fábrica de la lista,	Model No./No. de Modelo
o a un Centro de Servicio Autorizado de Makita. Asegúrese de incluir una nota en el exterior de la caja detallando el problema de su herramienta.	Serial No./No. de Serie

# **Factory Service Centres Centre de Service-Usine**

# FOR AUTHORIZED SERVICE CENTRES NEAREST YOU AND WARRANTY INFORMATION VISIT

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# \*

#### CANADIAN FACTORY SERVICE CENTRES

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Saskatoon 206A - 2750 Faithful Avenue Saskatoon, SK. S7K 6M6 Phone: 306-931-0111 Toll Free: 1-888-931-0111 Fax: 306-931-4574

Ottawa / Nepean 210 Colonnade Road, Unit 11 Ottawa, ON. K2E 7L5 Phone: 613-224-5022 Toll Free: 1-888-560-2214 Fax: 613-224-2380

Quebec City / Les Saules 1200 St. Jean Baptiste Unit 106 Quebec, QG. G2E 5E8 Phone: 418-871-5720 Toll Free: 1-800-663-5757 Fax: 418-871-6684 Burnaby / Vancouver 2288 Holdom Avenue Burnaby, BC. V5B 4Y4 Phone: 604-291-1511 Toll Free: 1-877-295-1511 Fax: 604-291-1599

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Mississauga / Toronto 6350 Tomken Road Unit 8 Mississauga, DN. L5T 1Y3 Phone: 905-670-7255 Toll Free: 1-888-221-9811 Fax: 905-670-0120

Montreal / Ville St. Laurent 1140 Rue Begin Ville St. Laurent, GC. H4R 1X1 Phone: 514-745-5025 Toll Free: 1-888-745-5025 Fax: 514-745-6141

When SERVICE Counts - Choose Makita



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Tipo de Oficio:
Residential
Residencial
Commercia Trade (check up to 2): Oficio (marque hasta 2 opcie Electrical
Eléctrico
Plumbing
Plomeria
HVAC
Aire Acondi Concrete
Concreto
Stone/Tile
Piedra/Mo Pipe Fitting
Ajustes de Tuber
Wood Framing
Estructuras de Mac Drywali Tabla-Roca Masonary Albafilleria con ce Finish/Cabinets
Terminados/ Gabinetes
Cable Installing
Instalación de Cableados
Automotive
Automotivz Other Otro Metal Fabrication General Contractor Contratista General MODEL NO. DE MODELO 9227C SERIAL NO. NO. DE SERIE 164459 A TRIPLE 902 Sabetha HWY PHONE TELEFONO PRESIDENT 785

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15 ch 16 Triple - C-inc, côm

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