

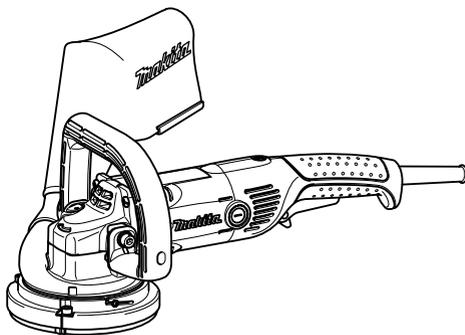
INSTRUCTION MANUAL



# Concrete Planer

PC5000C

PC5001C



009839

 DOUBLE INSULATION

**⚠WARNING:**

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

## ENGLISH SPECIFICATIONS

Model	PC5000C	PC5001C
Wheel diameter	125 mm	
Hole diameter	22.23 mm	
Rated speed (n)/No load speed (n <sub>0</sub> )	10000 min <sup>-1</sup>	
Overall length	437 mm	479 mm
Net weight	4.0 kg	5.1 kg
Safety class	II / I	

- 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.
- Weight according to EPTA-Procedure 01/2003

END202-6

### Symbols

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



- Read instruction manual.



- DOUBLE INSULATION



- Wear safety glasses.



- 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.

ENE002-1

### Intended use

The tool is intended for planing concrete surfaces.

ENF002-1

### 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.

GEA005-3

## 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 residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
10. **Use of power supply via a RCD with a rated residual current of 30mA or less is always recommended.**

#### Personal safety

11. **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.
12. **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.
13. **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.
14. **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.
15. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
16. **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.
17. **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

18. **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.
19. **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.
20. **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.

21. **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.
22. **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.
23. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
24. **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

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

GEB043-4

## CONCRETE PLANER SAW SAFETY WARNINGS

### Safety Warnings for Grinding Operation:

1. **This power tool is intended to function as a grinder with offset diamond wheels. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
2. **Operations such as grinding with abrasive wheels, sanding, wire brushing, polishing or cutting-off are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.
3. **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.

4. **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
5. **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
6. **The arbour size of wheels, flanges or any other accessory must properly fit the spindle of the power tool.** Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
7. **Do not use a damaged accessory. Before each use inspect the accessory such as offset diamond wheels for chips and cracks. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.
8. **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
9. **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
10. **Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
11. **Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
12. **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
13. **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
14. **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
15. **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
16. **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

#### **Kickback and Related Warnings**

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- a) **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- b) **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- c) **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- d) **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

e) Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control

#### Safety Warnings Specific for Grinding Operation:

a) Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel. Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.

b) Always use undamaged wheel flanges that are of correct size and shape for your selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.

#### Additional safety warnings:

17. Always install the dust cover before operation.
18. Be careful not to damage the spindle, the flange (especially the installing surface) or the lock nut. Damage to these parts could result in wheel breakage.
19. Make sure the wheel is not contacting the workpiece before the switch is turned on.
20. Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced wheel.
21. Watch out for flying sparks. Hold the tool so that sparks fly away from you and other persons or flammable materials.
22. Do not leave the tool running. Operate the tool only when hand-held.
23. Do not touch the offset diamond wheel immediately after operation; it may be extremely hot and could burn your skin.
24. Always be sure that the tool is switched off and unplugged or that the battery cartridge is removed before carrying out any work on the tool.
25. Observe the instructions of the manufacturer for correct mounting and use of wheels. Handle and store wheels with care.
26. Do not use separate reducing bushings or adaptors to adapt large hole wheels.
27. Use only flanges specified for this tool.
28. Pay attention that the wheel continues to rotate after the tool is switched off.
29. If working place is extremely hot and humid, or badly polluted by conductive dust, use a short-circuit breaker (30 mA) to assure operator safety.
30. Do not use the tool on any materials containing asbestos.
31. Do not use water or grinding lubricant.
32. Ensure that ventilation openings are kept clear when working in dusty conditions. If it should become necessary to clear dust, first

disconnect the tool from the mains supply ( use non metallic objects ) and avoid damaging internal parts.

## SAVE THESE INSTRUCTIONS.

### ⚠WARNING:

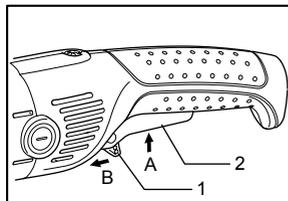
**DO NOT** let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. **MISUSE** or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

## 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 lever
2. Switch trigger

008415

### ⚠CAUTION:

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

#### For tool with the lock-on switch

To start the tool, simply pull the switch trigger (A). Release the switch trigger to stop. For continuous operation, pull the switch trigger (A) and then push in the lock lever (B). To stop the tool from the locked position, pull the switch trigger (A) fully, then release it.

#### For tool with the lock-off switch

To prevent the switch trigger from accidentally pulled, a lock lever is provided. To start the tool, push in the lock lever (B) and then pull the switch trigger (A). Release the switch trigger to stop.

#### For tool with the lock on and lock-off switch

To prevent the switch trigger from accidentally pulled, a lock lever is provided. To start the tool, push in the lock lever (B) and then pull the switch trigger (A). Release the switch trigger to stop. For continuous operation, push in the lock lever (B), pull the switch trigger (A) and then

push in the lock lever (B) further. To stop the tool from the locked position, pull the switch trigger (A) fully, then release it.

## Electronic function

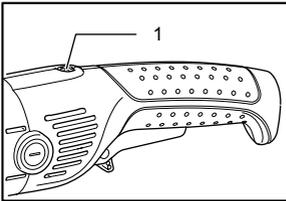
### Constant speed control

- Possible to get fine finish, because the rotating speed is kept constantly even under the loaded condition.
- Additionally, when the load on the tool exceeds admissible levels, power to the motor is reduced to protect the motor from overheating. When the load returns to admissible levels, the tool will operate as normal.

### Soft start feature

- Soft start because of suppressed starting shock.

### Indication lamp



008416

1. Indication lamp

The indication lamp lights up green when the tool is plugged. If the indication lamp does not light up, the mains cord or the controller may be defective. The indication lamp is lit but the tool does not start even if the tool is switched on, the carbon brushes may be worn out, or the controller, the motor or the ON/OFF switch may be defective.

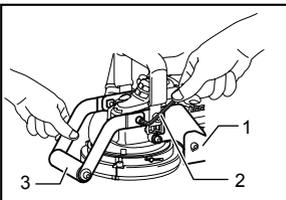
### Unintentional restart proof

Even locking lever keeping the switch trigger depressed (Lock-on position) does not allow the tool to restart even when the tool is plugged.

At this time, the indication lamp flickers red and shows the unintentional restart proof device is on function.

To cancel the unintentional restart proof, pull the switch trigger fully, then release it.

### Level planing (for PC5001C only)

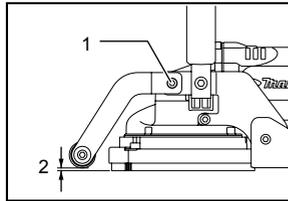


009847

1. Base (for PC5001C only)
2. Hex wrench
3. Front roller

To level a surface, the base of the planer should be aligned with the diamond wheel. The front roller should be adjusted (use hex wrench) upward to the level required for the desired stock removal amount.

To change the amount of stock (concrete) removed, loosen the hex socket head bolts on the base holder with the hex wrench. Raise or lower the front roller to adjust the gap between it and the diamond wheel. The difference is the stock removal amount. Then secure the hex socket head bolts very carefully.



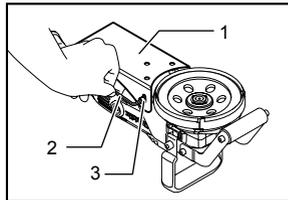
009848

1. Hex socket head bolt
2. Stock removal amount

### NOTE:

- Maximum stock removal should be less than 4.0 mm.

### Tilting base for smoother planing ( for PC5001C only)

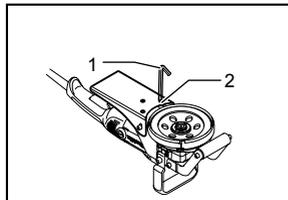


009849

1. Base
2. Hex wrench
3. Hex socket head bolt

For smooth removal of a given surface roughness or texture, tilting the base is helpful. Use the hex wrench to loosen the two hex socket head bolts securing the base on either side.

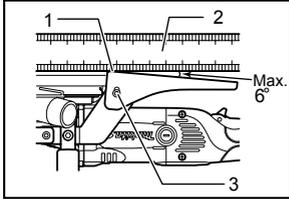
Use a hex wrench to lower the three hex socket head bolts on the base by turning them on the base clockwise.



009850

1. Hex wrench
2. Hex socket head bolt

Use a square or ruler to obtain the desired base angle in relation to the diamond wheel. Then secure carefully the hex socket head bolts on either side of the base. Adjust center of base near wheel so that it is on the same level as the wheel.



009851

1. Same level
2. Square or ruler
3. Hex socket head bolt

**NOTE:**

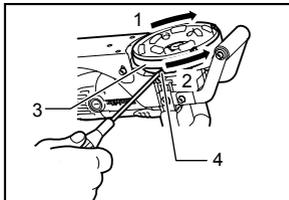
- After base adjustment, turn the three hex socket head bolts on the base counterclockwise until the heads are flush with the back side of the base. Turn gently or base adjustment will be thrown off.

**Base adjustment to compensate for wheel wear (for PC5001C only)**

With long use, the diamond wheel will wear and thus create a gap with the planing surface so that performance becomes poor. Check the tool after every 4 or 5 hours of use.

If the wheel and base surfaces are not aligned, loosen two hex socket head bolts securing the base. Turn three hex socket head bolts on the base clockwise and adjust the base so as to be level with the wheel surface. Retighten firmly the hex socket head bolts securing base and then lightly turn the hex socket head bolts counterclockwise so that the hex socket head bolts do not come loose during operation.

**Dust cover adjustment**



009885

1. Raise
2. Lower
3. Dust cover
4. Screw

Loosen the screw, and adjust the dust cover's brush level. The dust cover's brush should be either flush with the diamond wheel surface or very slightly above (when tool is inverted) 0.5 mm. Suction/pickup will be poor if they are not approximately on the same level. After adjusting, be sure to tighten the screw firmly. To adjust the dust cover, grip it on the outside; turn

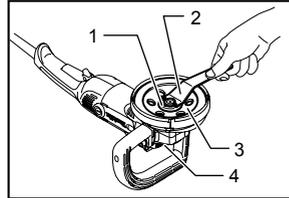
clockwise to raise, counterclockwise to lower.

**ASSEMBLY**

**CAUTION:**

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

**Installing or removing diamond wheel**



009841

1. Lock nut
2. Lock nut wrench
3. Diamond wheel
4. Shaft lock

To replace a worn diamond wheel with a new one, press in the shaft lock to hold the shaft steady, then loosen the lock nut counterclockwise with the lock nut wrench provided.

Remove the worn diamond wheel.

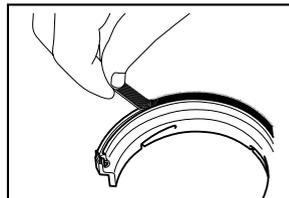
To install a new one, follow the above removal procedure in reverse.

When installing a diamond wheel, always make sure to tighten the lock nut firmly.

**NOTE:**

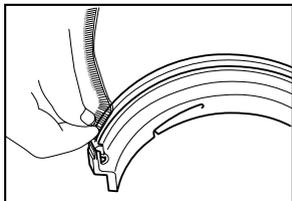
- The ordinary diamond wheels on the market have no exhaust holes, so dust evacuation is poor. Also, if the installing hole is not of the exact diameter, tool vibration occurs and accidents can occur. ALWAYS USE A MAKITA OFFSET DIAMOND WHEEL.

**Replacing dust cover's brush**



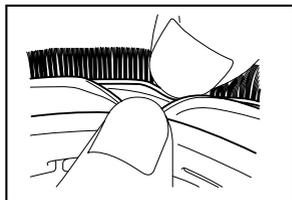
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To remove the dust cover's brush from the dust cover, grab an end of the dust cover's brush and take it out slowly outward.



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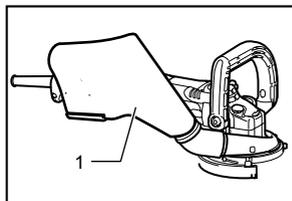
To install a dust cover's brush, put the outer edge of the dust cover's brush in the groove in the dust cover.



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And then expand the groove. With the groove being expanded, insert the inner edge of the dust cover's brush. Repeat this action and insert all the remaining part.

### Dust bag

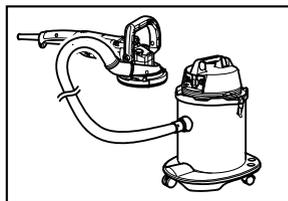


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1. Dust bag

To install dust bag, slip onto dust port. Always make sure to slip onto dust port all the way until it stops so that it does not come off during operation. Remove dust bag when it begins to touch cutting surface. This is a sign that it is full. Failure to empty bag will lead to poor suction/pickup.

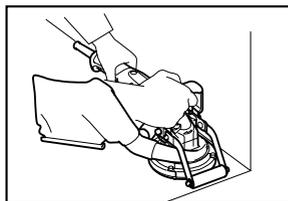
### Connecting a vacuum cleaner



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When you wish to perform clean planing operation, connect a Makita vacuum cleaner to your tool as shown in the figure.

### OPERATION



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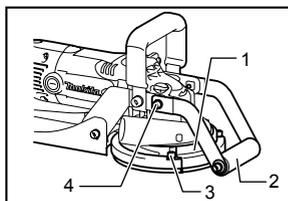
Always use the top grip (auxiliary handle) and firmly hold the tool by top grip and switch handle during operations.

### Planing in corners

#### For PC5000C

Flush planing of corners is possible after first removing the dust cover cap.

#### For PC5001C only

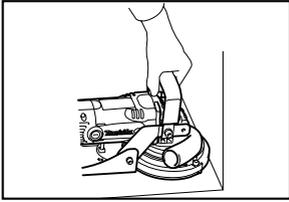


009883

1. Dust cover cap
2. The whole roller holder
3. Hex socket head bolt
4. Hex bolt

Before performing the flush planing of corners, remove the hex bolt which secures roller holder and base holder and then take away the whole roller holder.

Next, loosen the hex socket head bolt and take away the dust cover cap and then adjust the dust cover in a proper position according to your work.



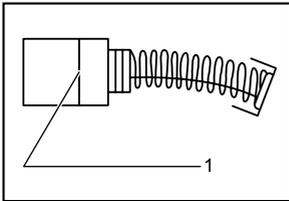
009884

## 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

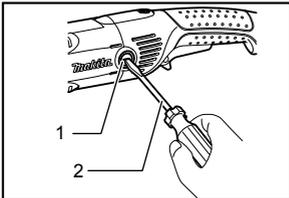


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1. Limit mark

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.



009844

1. Brush holder cap  
2. Screwdriver

To maintain product SAFETY and RELIABILITY, repairs, 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.

- Offset diamond wheel (Dry type)





Makita Corporation