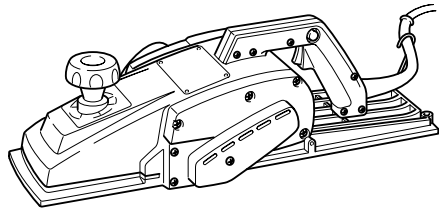




Power Planer

MODEL 1806B



002542



INSTRUCTION MANUAL

⚠ WARNING:

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

SPECIFICATIONS

Model	1806B
Planing width	170 mm
Planing depth	2 mm
No load speed (min ⁻¹)	15,000
Overall length	529 mm
Net weight	8.8 kg
Safety class	□/II

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

SYMBOLS

END201-2

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



.....Read instruction manual.



.....DOUBLE INSULATION



.....Only for EU countries

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

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

Intended use

The tool is intended for planing wood.

Power supply

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

For public low-voltage distribution systems of between 220 V and 250 V.

Switching operations of electric apparatus cause voltage fluctuations. The operation of this device under unfavorable mains conditions can have adverse effects to the operation of other equipment. With a mains impedance equal or less than 0.42 Ohms it can be presumed that there will be no negative effects. The mains socket used for this device must be protected with a fuse or protective circuit breaker having slow tripping characteristics.

For European countries only

Noise and Vibration

The typical A-weighted noise levels are
 sound pressure level: 90 dB (A)
 sound power level: 101 dB (A)
 Uncertainty: 3 dB(A)

– Wear ear protection. –

The typical weighted root mean square acceleration value is not more than 2.5 m/s².

These values have been obtained according to EN60745.

EC-DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product is in compliance with the following standards of standardized documents;

EN60745, EN55014, EN61000 in accordance with Council Directives, 89/336/EEC, 98/37/EC.

Yasuhiko Kanzaki **CE2006**

Director

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Responsible manufacturer:
 Makita Corporation Anjo Aichi Japan

GENERAL SAFETY RULES

GEA001-3

WARNING:

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

SAVE THESE INSTRUCTIONS

Work area safety

1. **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

4. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
5. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
8. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

Personal safety

9. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

10. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
11. **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
12. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
13. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
14. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
15. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

Power tool use and care

16. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
17. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
18. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

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

Service

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

GEB010-2

SPECIFIC SAFETY RULES

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

1. **Wait for the cutter to stop before setting the tool down.** An exposed cutter may engage the surface leading to possible loss of control and serious injury.
2. **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
3. **Rags, cloth, cord, string and the like should never be left around the work area.**
4. **Avoid cutting nails. Inspect for and remove all nails from the workpiece before operation.**
5. **Use only sharp blades. Handle the blades very carefully.**
6. **Be sure the blade installation bolts are securely tightened before operation.**
7. **Hold the tool firmly with both hands.**

8. **Keep hands away from rotating parts.**
9. **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 blade.**
10. **Make sure the blade is not contacting the workpiece before the switch is turned on.**
11. **Wait until the blade attains full speed before cutting.**
12. **Always switch off and wait for the blades to come to a complete stop before any adjusting.**
13. **Never stick your finger into the chip chute. Chute may jam when cutting damp wood. Clean out chips with a stick.**
14. **Do not leave the tool running. Operate the tool only when hand-held.**
15. **Always change both blades or covers on the drum, otherwise the resulting imbalance will cause vibration and shorten tool life.**
16. **Use only Makita blades specified in this manual.**
17. **Always use the correct dust mask/respirator for the material and application you are working with.**

SAVE THESE INSTRUCTIONS.

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

FUNCTIONAL DESCRIPTION

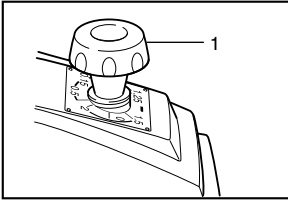
⚠ CAUTION:

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

Adjusting depth of cut

Depth of cut may be adjusted by simply turning the knob on the front of the tool.

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1. Knob

Switch action

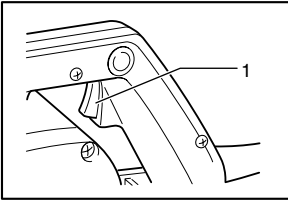
⚠ CAUTION:

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

For tool without lock button and lock-off button

To start the tool, simply pull the switch trigger. Release the switch trigger to stop.

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1. Switch trigger

For tool with lock button

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.

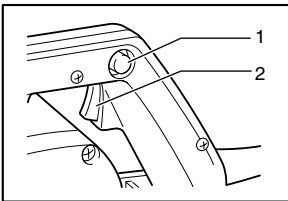
To stop the tool from the locked position, pull the switch trigger fully, then release it.

For tool with lock-off button

To prevent the switch trigger from being accidentally pulled, a lock-off button is provided.

To start the tool, depress the lock-off button and pull the switch trigger. Release the switch trigger to stop.

004883



1. Lock button/Lock-off button
2. Switch trigger

ASSEMBLY

⚠ CAUTION:

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

Removing or installing planer blades

⚠ CAUTION:

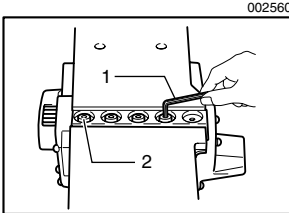
- Tighten the blade installation bolts carefully when attaching the blades to the tool. A loose installation bolt can be dangerous. Always check to see they are tightened securely.
- Handle the blades very carefully. Use gloves or rags to protect your fingers or hands when removing or installing the blades.
- Use only the Makita wrench provided to remove or install the blades. Failure to do so may result in overtightening or insufficient tightening of the installation bolts. This could cause an injury.

To remove the blades on the drum, unscrew the five installation bolts with the hex wrench. The drum cover comes off together with the blades.

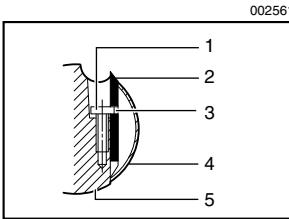
To install the blades, first clean out all chips or foreign matter adhering to the drum or blades. Use blades of the same dimensions and weight, or drum oscillation/vibration will result, causing poor planing action and, eventually, tool breakdown.

There are two adjusting screws for each blade. When installing the blade, the notch in the blade should fit over the head of the adjusting screw. Then fit on the drum cover and secure all the installation bolts only finger-tight.

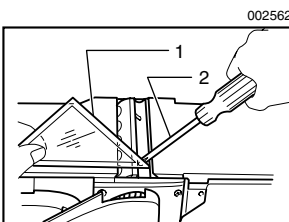
Turn the drum until the blade edge is right in the middle between the front and rear bases.



1. Hex wrench
2. Bolt



1. Adjusting screw
2. Planer blade
3. Notch in the blade
4. Drum cover
5. Drum



1. Triangular rule
2. Screwdriver

Place the triangular rule flat on the rear base and run it out over and across the blade edge. Turn the two adjusting screws to adjust the blade protrusion. The blade setting should be made so that the protrusion will be uniform all the way across. Thus the triangular rule should be flush with the entire width of the blade edge. After adjusting both blades, tighten all the installation bolts evenly and alternately with the wrench.

After tightening the bolts, secure the adjusting screws fully.

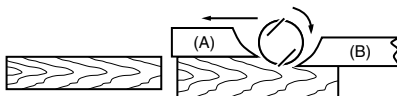
For the correct planer blade setting

Your planing surface will end up rough and uneven, unless the blade is set properly and securely. The blade must be mounted so that the cutting edge is absolutely level, that is, parallel to the surface of the rear base.

Refer to some examples below for proper and improper settings.

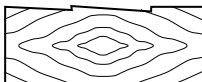
- (A) Front base (Movable shoe)
 (B) Rear base (Stationary shoe)

Correct setting



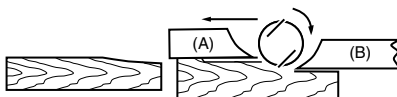
Although this side view cannot show it, the edges of the blades run perfectly parallel to the rear base surface.

Nicks in surface



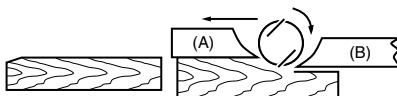
Cause: One or both blades fails to have edge parallel to rear base line.

Gouging at start



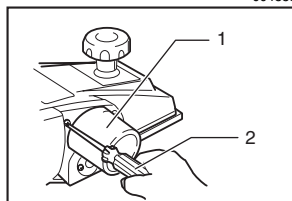
Cause: One or both blade edges fails to protrude enough in relation to rear base line.

Gouging at end



Cause: One or both blade edges protrudes too far in relation to rear base line.

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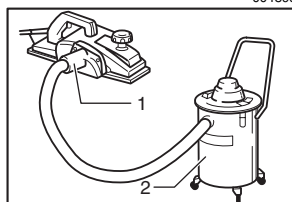
1. Nozzle
2. Screwdriver

Connecting a vacuum cleaner

For European countries and areas

When you wish to perform clean planing operation, connect a Makita vacuum cleaner to your tool. Install the nozzle on the tool using the screws. Then connect a hose of the vacuum cleaner to the nozzle as shown in the figures.

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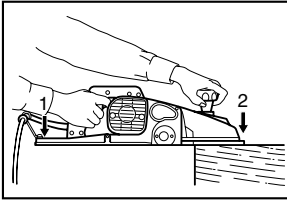
1. Nozzle
2. Vacuum cleaner

For other countries and areas

A nozzle and joint (optional accessories) are necessary to connect a Makita vacuum cleaner to your tool. Consult a Makita catalogue or representative on the nozzle and joint.

OPERATION

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1. End
2. Start

Planing operation

First, rest the tool front base flat upon the workpiece surface without the blades making any contact. Switch on and wait until the blades attain full speed. Then move the tool gently forward. Apply pressure on the front of tool at the start of planing, and at the back at the end of planing. Planing will be easier if you incline the workpiece in stationary fashion, so that you can plane somewhat downhill.

The speed and depth of cut determine the kind of finish. The power planer keeps cutting at a speed that will not result in jamming by chips. For rough cutting, the depth of cut can be increased, while for a good finish you should reduce the depth of cut and advance the tool more slowly.

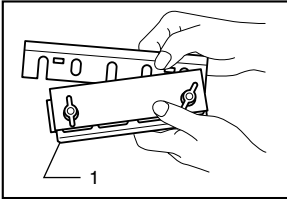
MAINTENANCE

⚠ CAUTION:

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

Sharpening the planer blades

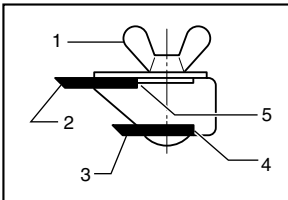
002591



1. Sharpening holder

Always keep your blades sharp for the best performance possible. Use the sharpening holder to remove nicks and produce a fine edge.

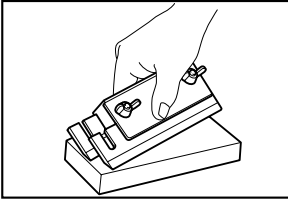
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1. Wing nut
2. Blade (A)
3. Blade (B)
4. Side (D)
5. Side (C)

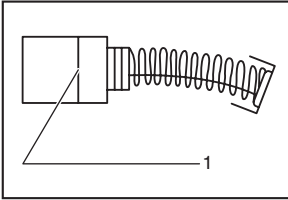
First, loosen the two wing nuts on the holder and insert the blades (A) and (B), so that they contact the sides (C) and (D). Then tighten the wing nuts.

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Immerse the dressing stone in water for 2 or 3 minutes before sharpening. Hold the holder so that the both blades contact the dressing stone for simultaneous sharpening at the same angle.

001145

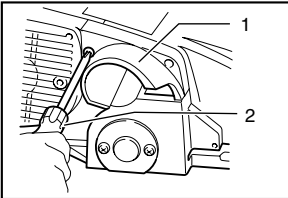


Replacing carbon brushes

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.

1. Limit mark

002595

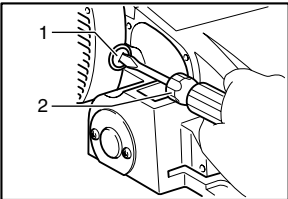


Use a screwdriver to remove the chip cover.

1. Chip cover

2. Screwdriver

002596



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, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

1. Brush holder cap

2. Screwdriver

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.

- High-speed steel Planer blade
- Sharpening holder assembly
- Blade gauge
- Edge fence (Guide rule)
- Extension guide set
- Dressing stone
- Nozzle assembly
- Hex wrench

Makita Corporation Anjo, Aichi, Japan