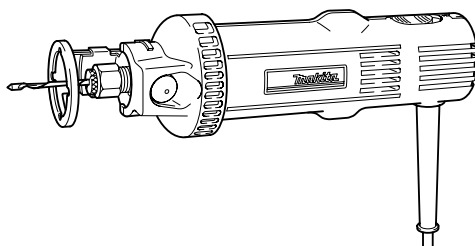



INSTRUCTION MANUAL

Cutout Tool

3706



004550

 DOUBLE INSULATION

IMPORTANT: Read Before Using.

ENGLISH (Original instructions)

SPECIFICATIONS

Model	3706
Collet chuck capacity	3.18 mm, 6.35 mm
No load speed (min ⁻¹)	32,000
Overall length	250 mm
Net weight	1.1 kg
Safety class	II/III

- Due to our continuing programme of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- Weight according to EPTA-Procedure 01/2003

END201-5

ENG900-1

Symbols

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.

ENE012-1

Intended use

The tool is intended for cutting gypsum, wood, plastic and soft wall tiles.

ENF002-2

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 and can, therefore, also be used from sockets without earth wire.

ENG905-1

Noise

The typical A-weighted noise level determined according to EN60745:

Sound pressure level (L_{pA}) : 82 dB(A)

Sound power level (L_{WA}) : 93 dB(A)

Uncertainty (K) : 3 dB(A)

Wear ear protection

Vibration

The vibration total value (tri-axial vector sum) determined according to EN60745:

Work mode : rotation without load
Vibration emission (a_{h1}) : 2.5 m/s² or less
Uncertainty (K) : 1.5 m/s²

ENG901-1

- The declared vibration emission value has been measured in accordance with the standard test method and may be used for comparing one tool with another.
- The declared vibration emission value may also be used in a preliminary assessment of exposure.

⚠WARNING:

- The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is used.
- Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

ENH101-15

For European countries only

EC Declaration of Conformity

We Makita Corporation as the responsible manufacturer declare that the following Makita machine(s):

Designation of Machine:

Cutout Tool

Model No./ Type: 3706

are of series production and

Conforms to the following European Directives:
2006/42/EC

And are manufactured in accordance with the following standards or standardised documents:

EN60745

The technical documentation is kept by our authorised representative in Europe who is:

Makita International Europe Ltd.
Michigan Drive, Tongwell,
Milton Keynes, Bucks MK15 8JD, England

30.1.2009



000230

Tomoyasu Kato
Director
Makita Corporation
3-11-8, Sumiyoshi-cho,
Anjo, Aichi, 446-8502, JAPAN

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.**

GEB083-1

CUTOUT TOOL SAFETY WARNINGS

1. **Hold power tool by insulated gripping surfaces, because the cutter may contact its own cord.** Cutting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
2. **Use clamps or another practical way to secure and support the workpiece to a stable**

platform. Holding the work by your hand or against the body leaves it unstable and may lead to loss of control.

3. **Wear eye protection and dust mask.**
4. **Ventilate your work area adequately.**
5. **Check the bit carefully for cracks or damage before operation. Replace cracked or damaged bit immediately.**
6. **Check for the proper clearance beneath the workpiece before cutting so that the bit will not strike a hard surface such as the floor, workbench, etc.**
7. **Do not cut metal objects such as nails and screws. Inspect for and remove all nails, screws and other foreign material from the workpiece before operation.**
8. **Check that the bit is not contacting the workpiece before the switch is turned on. Always hold the tool with two hands while switching the tool on. The motor torque can cause the tool to turn.**
9. **Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate improperly installed bit.**
10. **Make sure that the shaft lock is released before the switch is turned on.**
11. **Always use with the shoe securely attached to the tool and positioned flat and firmly against the workpiece.**
12. **Hold the tool firmly.**
13. **Do not perform any operation using your hands to support or guide the workpiece.**
14. **Keep hands away from moving parts.**
15. **Do not use this tool for drilling.**
16. **Do not leave the tool running. Operate the tool only when hand-held.**
17. **Always switch off and wait for the bit to come to a complete stop before removing the bit from workpiece.**
18. **Do not touch the bit or the workpiece immediately after operation; they may be extremely hot and could burn your skin.**
19. **Always lead the power supply cord away from the tool towards the rear.**
20. **Draw attention to the need to use cutters of the correct shank diameter and which are suitable for the speed of the tool.**

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

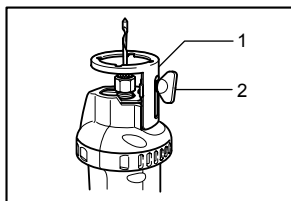
failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

FUNCTIONAL DESCRIPTION

⚠CAUTION:

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

Adjusting depth of cut

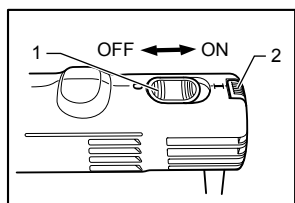


1. Shoe
2. Thumb screw

001624

To adjust the shoe, turn the thumb screw to loosen. Slide the shoe to the desired position and tighten the thumb screw securely. Check for the proper clearance beneath the workpiece before cutting so that the bit will not strike a hard surface such as the floor, workbench, etc.

Switch action



1. Switch lever
2. Bump off switch

001625

⚠CAUTION:

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

To start the tool, move the switch lever to the "ON" position.

To stop the tool, move the switch lever to the "OFF" position.

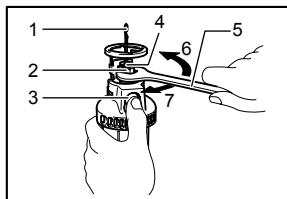
This can be done in the forward area of the switch lever or by bumping off the rear area of the switch lever.

ASSEMBLY

⚠CAUTION:

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

Installing or removing bit



1. Bit
2. Collet nut
3. Shaft lock
4. Adapter
5. Wrench
6. Loosen
7. Tighten

001626

⚠CAUTION:

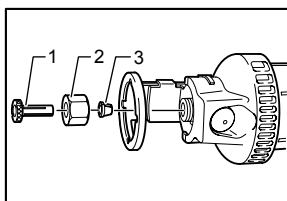
- Do not tighten the collet nut without inserting a bit, or the collet cone will break.
- When using the bit with 6.35 mm shank diameter, first remove the adapter from the collet cone, then install the bit.

To install the bit, insert the bit all the way into the collet cone.

Press the shaft lock to keep the shaft stationary and use the wrench to tighten the collet nut securely.

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

Changing the collet cone



1. Adapter
2. Collet nut
3. Collet cone

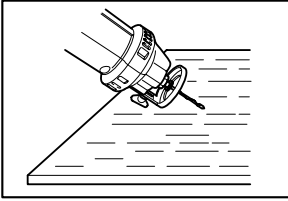
004554

⚠CAUTION:

- Use the correct size collet cone and adapter for the bit which you intended to use.
- Do not tighten the collet nut without inserting a bit, or the collet cone will break.

To change the collet cone, loosen the collet nut and remove. Remove installed collet cone and adapter and replace with desired collet cone and adapter. Reinstall collet nut.

OPERATION

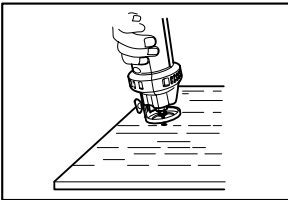


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⚠ CAUTION:

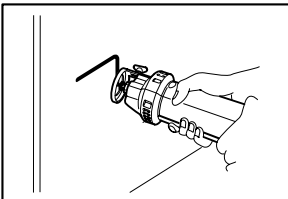
- Avoid forcing the bit to bend or twist. It may snap.
- Before turning the tool on, make sure the bit and collet nut are securely tightened.

Hold the tool secure with the bit pointing in a safe direction not contacting any surface and slide the switch to the "ON" position. Wait until the tool attains full speed. When starting the multipurpose bit into the material, hold the tool at approximately a 45 degree angle with the edge of the shoe base contacting the material. Carefully bring the tool to a straight position so the shoe base is in full contact with the material.



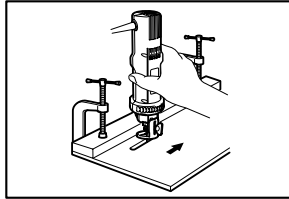
001628

When inserting the drywall guide bit into the drywall, carefully insert the bit straight until the shoe base is in full contact with the material.



001629

Move the tool slowly with a constant pressure in a clockwise direction to make the cut. When cutting straight line, clamp a straight board firmly to the material and use it as a guide. Move the tool in the direction of the arrow with the shoe base flush with the side of the guide board.



001630

When the cut is complete, turn the tool off and wait for the bit to stop rotating and then carefully remove it from the material.

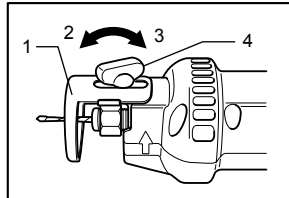
NOTE:

1. When using this tool, the rotating action causes the tool to pull. The less pressure applied to the tool causes less pull and provides a more accurate cut. Excessive pressure or fast cutting can cause the bit to dull or break premature.
2. When cutting drywall around outlet boxes, cut in a counterclockwise direction for ease of cut.
3. The standard bit included with this tool is for cutting drywall only. When cutting materials other than drywall, do not use the standard drywall guide bit.

Circular guide

Circular cutting diameters: 10 cm - 34 cm

Installing circular guide

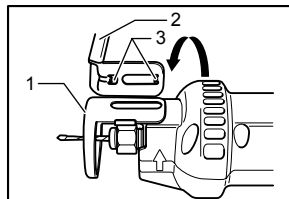


001631

Release the thumb screw which serves to secure the shoe.

Align the projections in the circular guide with the grooves in the shoe, and secure the shoe and circular guide using the thumb screw.

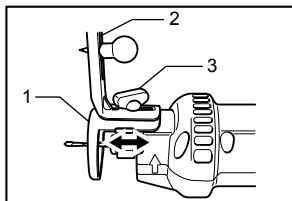
1. Shoe
2. Loosen
3. Tighten
4. Thumb screw



001632

1. Shoe
2. Circular guide
3. Projections

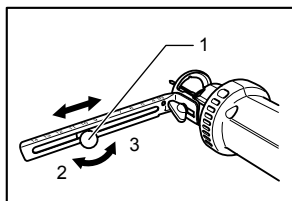
To adjust the cutting depth, proceed first by loosening the thumb screw and then by sliding the shoe and circular guide together. After completion of the adjustment, tighten the thumb screw securely.



001633

1. Shoe
2. Circular guide
3. Thumb screw

OPERATION

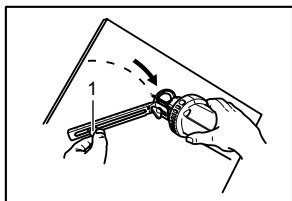


001634

1. Knob
2. Tighten
3. Loosen

Loosen the knob, and adjust its position in accordance with the size of the circle to be cut. (The hole dimensions to be cut are indicated on the side of the circular guide as a general guideline.) After completion of the adjustment, tighten the knob securely.

Insert the end of the knob into the center of the circle to be cut, and proceed to cut in a clockwise direction.



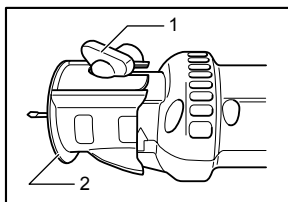
001635

1. Knob

Vacuum cover

Cleaner operations can be performed by connecting the cutout tool to Makita vacuum cleaner or dust collector.

Installing vacuum cover

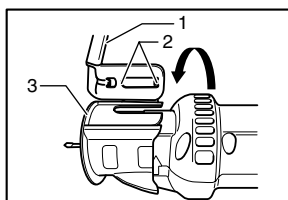


001636

1. Thumb screw
2. Vacuum cover

Loosen the thumb screw and remove the shoe. Attach the vacuum cover, and fasten it securely using the thumb screw.

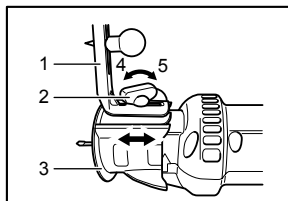
Installing vacuum cover with circular guide



001637

1. Circular guide
2. Projections
3. Vacuum cover

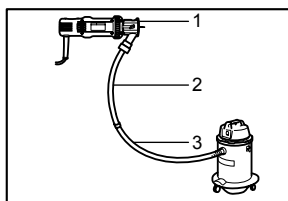
Release the thumb screw which serves to secure the vacuum cover. Align the projections in the circular guide with the grooves in the vacuum cover, and secure the vacuum cover and circular guide using the thumb screw. To adjust the cutting depth, proceed first by loosening the thumb screw and then by sliding the vacuum cover and circular guide together. After completion of the adjustment, tighten the thumb screw securely.



001638

1. Circular guide
2. Thumb screw
3. Vacuum cover
4. Loosen
5. Tighten

Connecting to Makita vacuum cleaner or dust collector

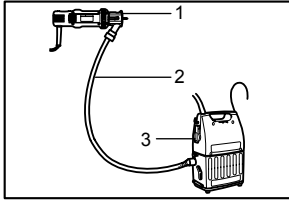


001639

1. Vacuum cover
2. Hose 28
3. Hose for vacuum cleaner

Connect the hose of a vacuum cleaner/dust collector to the dust nozzle. When connecting to Makita vacuum cleaner, an optional hose 28 mm in inner diameter is necessary.

When connecting to Makita dust collector, connect the hose for the dust collector directly to the dust nozzle.



1. Vacuum cover
2. Hose 28
3. Dust collector

001640

MAINTENANCE

⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

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

OPTIONAL 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.

- Drywall guide bit 1/8", 1/4", 3 mm, 6 mm
- Collet cone 6 mm
- Collet cone 6.35 mm (1/4")
- Adapter 3.18 - 6.35 mm / 3 - 6 mm
- Wrench 17
- Circular guide
- Vacuum cover

NOTE:

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

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