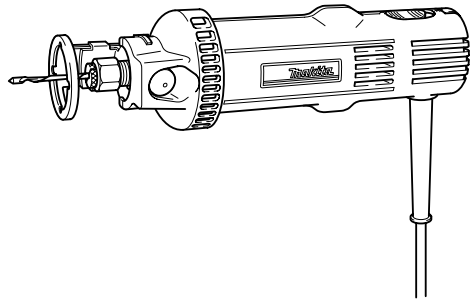




Cutout Tool

MODEL 3706



I N S T R U C T I O N M A N U A L

⚠ WARNING:

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

www.makitatools.com

SPECIFICATIONS

Collet chuck capacity	No load speed (RPM)	Overall length	Net weight
1/4", 1/8"	32,000/min.	250 mm (9-7/8")	1.1 kg (2.4 lbs)

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

GENERAL SAFETY RULES

USA002-2

(For All Tools)

WARNING:

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


SAVE THESE INSTRUCTIONS

Work Area

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

Electrical Safety

4. **Double insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit**

fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation  eliminates the need for the three wire grounded power cord and grounded power supply system.

5. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace**

damaged cords immediately. Damaged cords increase the risk of electric shock.

- 8. When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”.** These cords are rated for outdoor use and reduce the risk of electric shock.

Personal Safety

- 9. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- 10. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- 11. Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- 12. Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- 13. Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- 14. Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. 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.

- 20. Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.

- 21. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.

- 22. Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

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

- 24. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of electric shock or injury.

USE PROPER EXTENSION CORD: Make sure your extension cord is in good condition. 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	Total length 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 Recommended	

SPECIFIC SAFETY RULES

USB049-2

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

1. 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.
2. Wear eye protection and dust mask.
3. Ventilate your work area adequately.
4. Check the bit carefully for cracks or damage before operation. Replace cracked or damaged bit immediately.
5. 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.
6. 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.
7. 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.
8. 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.
9. Make sure that the shaft lock is released before the switch is turned on.

-
- 10. Always use with the shoe securely attached to the tool and positioned flat and firmly against the workpiece.
 - 11. Hold the tool firmly.
 - 12. Do not perform any operation using your hands to support or guide the workpiece.
 - 13. Keep hands away from moving parts.
 - 14. Do not use this tool for drilling.
 - 15. Do not leave the tool running. Operate the tool only when hand-held.
 - 16. Always switch off and wait for the bit to come to a complete stop before removing the bit from workpiece.
 - 17. Do not touch the bit or the workpiece immediately after operation; it may be extremely hot and could burn your skin.
 - 18. Always lead the power supply cord away from the tool towards the rear.
 - 19. Some material contains chemicals which may be toxic. Take caution to prevent working dust inhalation and skin contact. Follow material supplier safety data.
-



SAVE THESE INSTRUCTIONS

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

SYMBOLS

USD201-2

The followings show the symbols used for tool.

- | | | | |
|--|---------------------|---|---|
| V | volts | n_0 | no load speed |
| A | amperes |  | Class II Construction |
| Hz | hertz | .../min..... | revolutions or reciprocation per minute |
|  | alternating current | | |

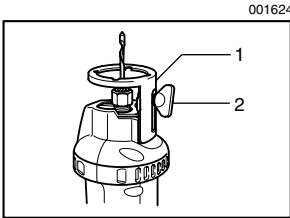
FUNCTIONAL DESCRIPTION

⚠ CAUTION:

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

Adjusting depth of cut

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.



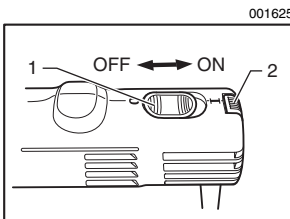
1. Shoe
2. Thumb screw

Switch action

⚠ 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.



1. Switch lever
2. Bump off switch

ASSEMBLY

⚠ CAUTION:

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

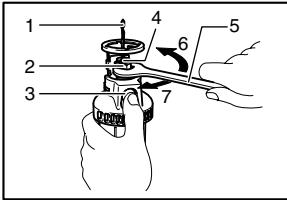
Installing or removing bit

⚠ 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 (1/4") shank diameter, first remove the adapter from the collet cone, then install the bit.

001626



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

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.

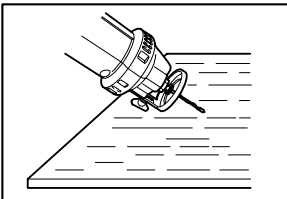
To remove the bit, follow the installation procedure in reverse.

OPERATION

⚠ 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.

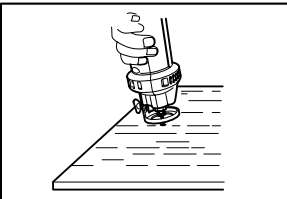
001627



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.

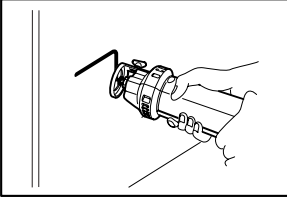
When starting the multipurpose bit into the material, hold the tool at approximately a 45 degree angle with the edge of the shoe base contacting the material.

001628



Carefully bring the tool to a straight position so the shoe base is in full contact with the material.

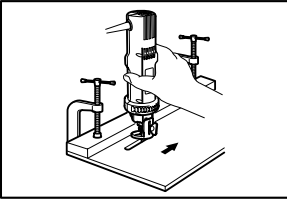
001629



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.

Move the tool slowly with a constant pressure in a clockwise direction to make the cut.

001630



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.

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.

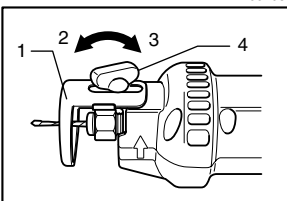
NOTE:

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 (4") - 34 cm (13-3/8")

001631

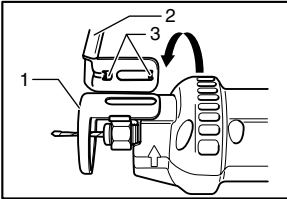


Installing circular guide

Release the thumb screw which serves to secure the shoe.

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

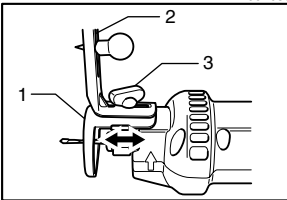
001632



1. Shoe
2. Circular guide
3. Projections

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

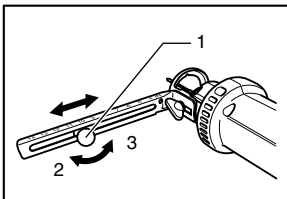
001633



1. Shoe
2. Circular guide
3. Thumb screw

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.

001634

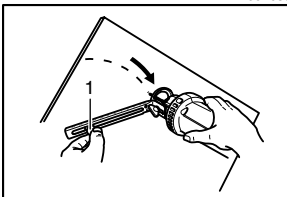


1. Knob
2. Tighten
3. Loosen

Operation

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.

001635



1. Knob

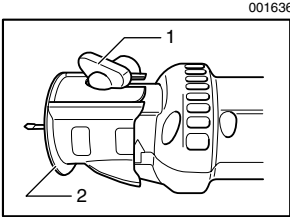
Insert the end of the knob into the center of the circle to be cut, and proceed to cut in a clockwise direction.

Vacuum cover

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

Installing vacuum cover

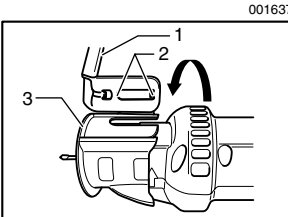
Loosen the thumb screw and remove the shoe. Attach the vacuum cover, and fasten it securely using the thumb screw.



1. Thumb screw
2. Vacuum cover

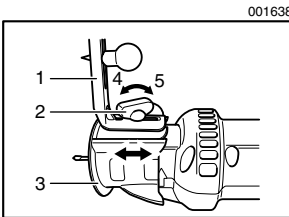
Installing vacuum cover with circular guide

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.



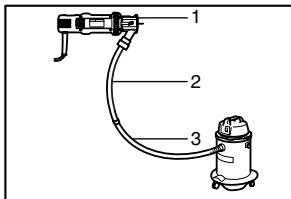
1. Circular guide
2. Projections
3. Vacuum cover

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.



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

001639

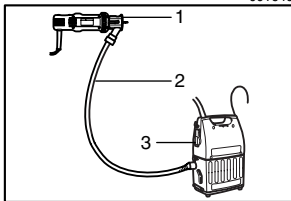


1. Vacuum cover
2. Hose 28
3. Hose for vacuum cleaner

Connecting to Makita vacuum cleaner or dust collector

Connect the hose of a vacuum cleaner/dust collector to the dust nozzle. When connecting to Makita vacuum cleaner, an optional hose 28 mm (1-1/8") in inner diameter is necessary.

001640



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

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

MAINTENANCE

⚠ CAUTION:

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

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.

- Collet cone 1/4"
- Adapter 1/8" - 1/4"
- Drywall guide bit 1/4" and 1/8"
- Wrench 17
- Circular guide
- Vacuum cover

Cut



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14930 Northam Street
La Mirada, CA 90638-5753



Fold

MAIL THIS PORTION

Your answers to the following questions are appreciated.

1. This product was purchased from:

- Home Center Other ()
 Hardware/Lumber Store
 Tool Distributor
 Industrial Supply
 Construction Supply

3. How did you learn about this product:

- Magazine Radio
 From Dealer Exhibition
 Newspaper From Friend
 Store Display Previous Usage
 Catalog Other ()

2. Use of the product is intended for:

- Construction Trade
 Industrial Maintenance
 Home Maintenance
 Hobby
 Other ()

4. Most favored points are:

- Design Repair Service
 Features Durability
 Size Power
 Price Other ()
 Makita Brand

5. Any comments:

DATE PURCHASED			MODEL NO.																						
MONTH		DAY		YEAR		SERIAL NO.																			
INTL.											LAST NAME / COMPANY NAME											STATUS		SEX	
																						Married Single		M F	
STREET ADDRESS																									
CITY																									
STATE		ZIP CODE				PHONE				AREA CODE															
AGE:		<input type="checkbox"/> Under 19		<input type="checkbox"/> 20-29		<input type="checkbox"/> 30-39		<input type="checkbox"/> 40-49		<input type="checkbox"/> 50-60		<input type="checkbox"/> Over 60													

BE SURE TO COMPLETE THE CUSTOMER'S PORTION OF THIS FORM AND RETAIN FOR YOUR RECORDS.

Please return this portion by facsimile or mail.

Facsimile No: (714) 522-8133

FACTORY SERVICE CENTERS

1-800-4-MAKITA

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Tampa, FL 33634
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(847) 297-3100

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Louisville, KY 40222
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St. Louis, MO 63126-2221
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Hato Rey, PR 00917
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Nashville, TN 37211
(615) 331-9922

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Stafford, TX 77477-3701
(281) 955-8665

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(210) 228-0676

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WISCONSIN

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2245 S. 108th St. West Allis, WI
53227
(414) 541-4776

CUSTOMER'S RECORD

<p>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.</p>	Date Purchased
	Dealer's Name & Address
	Model No.
	Serial No.

WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others:
- repairs are required because of normal wear and tear:
- the tool has been abused, misused or improperly maintained:
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

Makita Corporation of America

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