

T ECHNICAL INFORMATION

Makita

PRODUCT

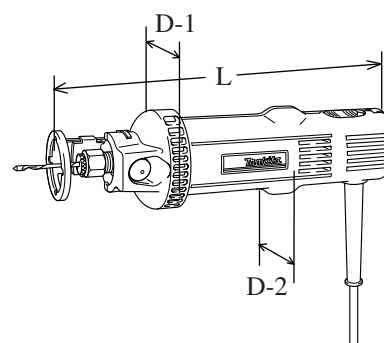
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Models No. ▶ 3706

Description ▶ Cut out tool

CONCEPTION AND MAIN APPLICATIONS

This machine is qualified for cutting drywall, especially for boring for wall sockets setting.
The easy and comfortable operation thanks to its slender body.



Dimensions : mm (")	
Length (L)	250 (9-7/8)
Body diameter (D-1)	74 (2-15/16)
Body diameter (D-2)	58 (2-1/4)

► Specification

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
110	5.3	50/60	550	230	450
120	5.0	50/60	570	230	450
220	2.6	50/60	550	230	450
230	2.5	50/60	550	230	450
240	2.4	50/60	550	230	450

No load speed : (min -1= rpm)		32,000
Collet capacity : mm (")		3.18 (1/8) 6.35 (1/4)
Protection from electric shock		by double insulation
Cord length : m (ft)	for North America	3.0 (10.0)
	for Australia	2.0 (6.6)
	for Europe	4.0 (13.1)
Net weight : kg (lbs)		1.1 (2.4)

► Standard equipment

- * Drywall guide bit 3E 2 pcs.
- * Adaptor 6.35 1 pc.
- * Collet cone 6.35 1 pc.
- * Collet nut 1 pc.
- * Spanner 17 1 pc.
- * Wrench holder 1 pc.

< Note > The standard equipment for the tool shown may differ from country to country.

► Optional accessories

- * Drywall guide bit 3E
- * Circular guide
- * Dust collecting cover

Easy and comfortable operation thanks to its slender body

Equipped dust proof ball bearings

Excellent performance in cutting speed

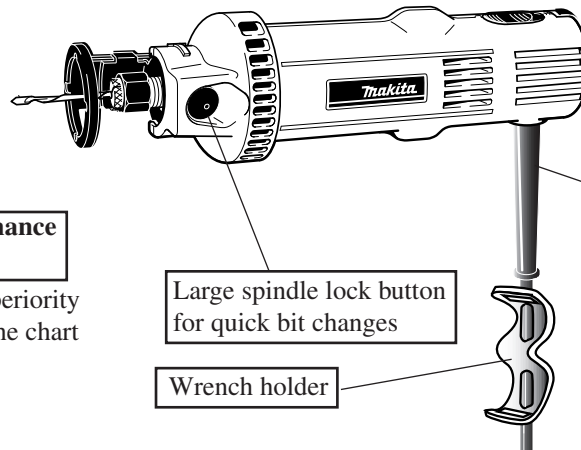
You can see its superiority to competitors in the chart shown below

Large spindle lock button for quick bit changes

Wrench holder

Outlet designed to turn the air flow away from the operator

Excellent in flexibility to protect power supply cord from disconnection



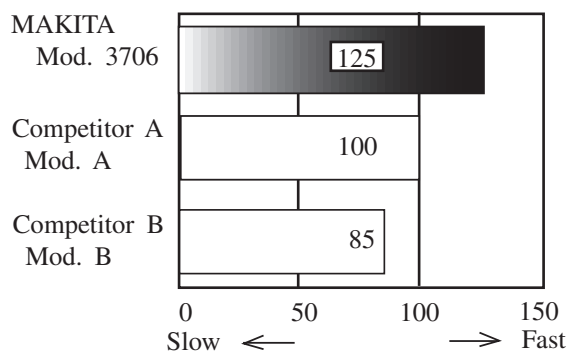
► **Comparison of products**

Comparison of products for low voltage area

(Numbers in chart below are relative values when setting Model A 's capacity as 100.)

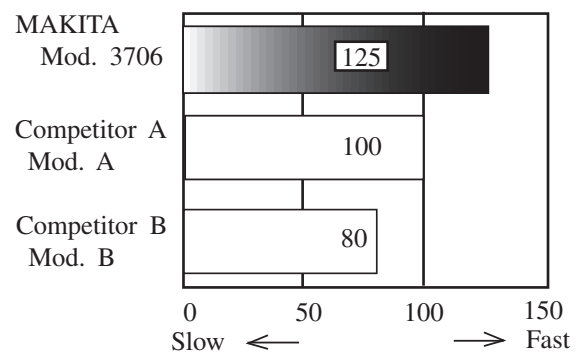
Testing conditions

- * Work piece : Drywall with 12.5mm (1/2") in thickness
- * Bit diameter : 1/8" (approx. 3.18mm)
- * Connected with 30m (98.4ft) extension cord



Testing conditions

- * Work piece : Drywall with 12.5mm (1/2") in thickness
- * Bit diameter : 1/4" (approx. 6.35mm)
- * Connected with 30m (98.4ft) extension cord

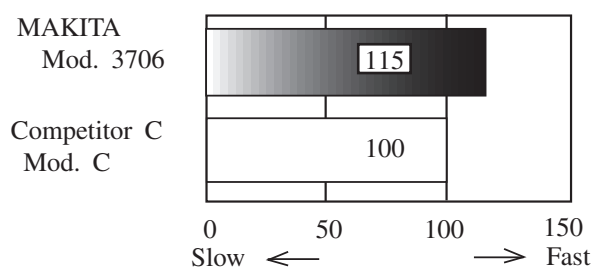


Comparison of products for high voltage area

(Numbers in chart below are relative values when setting Model C's capacity as 100.)

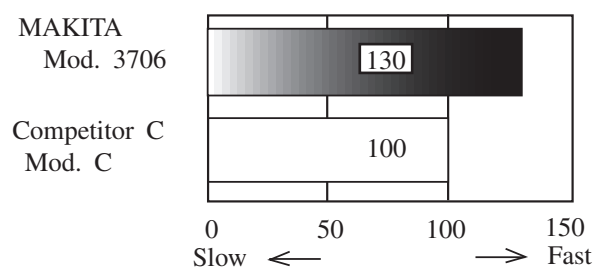
Testing conditions

- * Work piece : Drywall with 12.5mm (1/2") in thickness
- * Bit diameter : 1/8" (approx. 3.18mm)
- * Connected with 50m (164ft) extension cord



Testing conditions

- * Work piece : Drywall with 12.5mm (1/2") in thickness
- * Bit diameter : 1/4" (approx. 6.35mm)
- * Connected with 50m (164ft) extension cord



Comparison with the American made products

Model No. Specifications		MAKITA	Competitor A	Competitor B
		3706	A	B
Collet size		1/8" 1/4"	1/8" 1/4"	1/8" 1/4"
Rated Ampere under 120V : (A)		5.0	3.6	3.4
No load speed : (min -1= rpm)		32,000	30,000	28,000
Diameter of motor housing: mm (")		58 (2-1/4)	66 (2-5/8)	* 59 (2-5/16) * 63 (2-1/2)
Switch action		by sliding	by sliding	by sliding
Shaft lock		Yes	Yes	Yes
Protection from electric shock		by double insulation	by double insulation	by double insulation
* Cord length : m (ft)		* 3.0 (10)	3.0 (10)	3.0 (10)
Dimensions : mm (")	Length	250 (9-7/8)	220 (9-7/8)	185 (7-1/4)
	Diameter	74 (2-15/16)	79 (3-1/8)	99 (3-7/8)
Net weight : kg (lbs)		1.1 (2.4)	1.1 (2.4)	1.0 (2.2)

* Cord length : m (ft) * 3.0 (10) for North American market

* 59 (2-5/16) * 63 (2-1/2) : Motor housing of Model B is ecliptic form.

Comparison with the European made products

Model No. Specifications		MAKITA	Competitor C
		3706	C
Collet size		1/8" 1/4"	1/8" 1/4"
Power Input (W)		570	450
No load speed : (min -1= rpm)		32,000	30,000
Diameter of motor housing: mm (")		58 (2-1/4)	66 (2-5/8)
Switch action		by sliding	by sliding
Shaft lock		Yes	Yes
Protection from electric shock		by double insulation	by double insulation
* Cord length : m (ft)		* 4.0 (13.1)	3.0 (13.1)
Dimensions : mm (")	Length	250 (9-7/8)	220 (8-5/8)
	Diameter	74 (2-15/16)	79 (3-1/8)
Net weight : kg (lbs)		1.1 (2.4)	1.2 (2.6)

* Cord length : m (ft) * 4.0 (13.1) for European market

<1> Disassembling shaft lock button

- 1) Place housing (L) with pin cap facing up. See Fig. 1.
- 2) Place 3.0mm or smaller punch on top of pin 4-6.5. See Fig. 1.
- 3) Press pin 4-6.5 out of pin cap. See Fig. 1A.

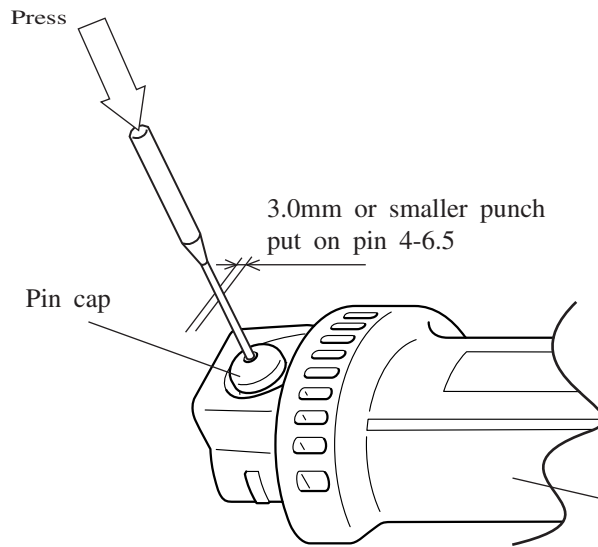


Fig. 1

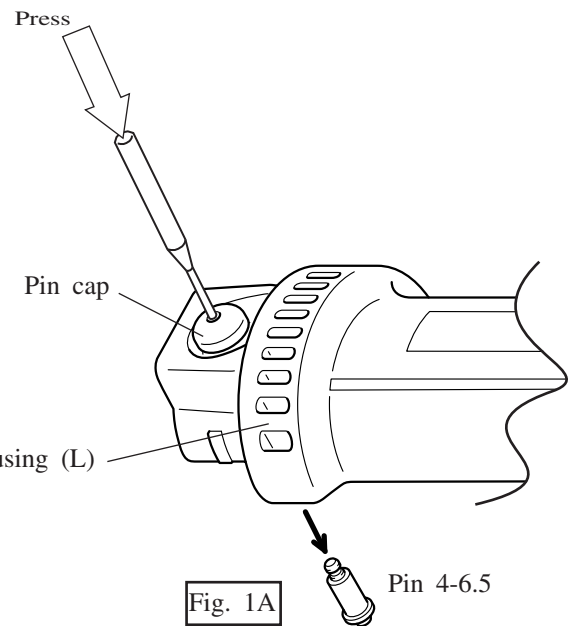


Fig. 1A

<2> Assembling shaft lock button

- 1) Place pin 4-6.5 into hole in housing (L). See Fig. 2.
- 2) Place housing (L) over support material (example: steel bar) to support pin 4-6.5 during final assembly. See Fig. 2.
- 3) Place compression spring 8 over pin 4-6.5. See Fig. 2A.
- 4) Place pin cap on top of pin 4-6.5 aligning hole in pin cap with pin 4-6.5. See Fig. 1A
- 5) Press pin cap until it snaps into position on the pin 4-6.5.

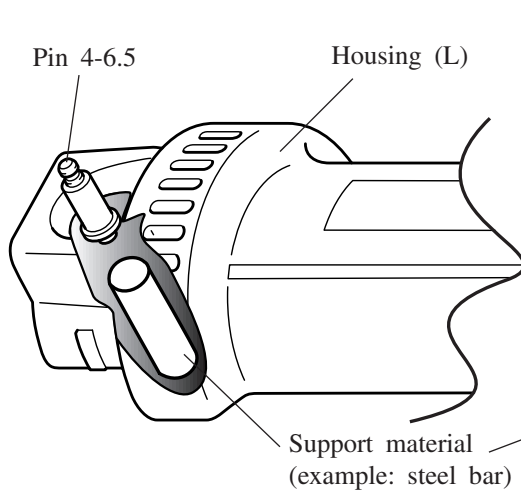


Fig. 2

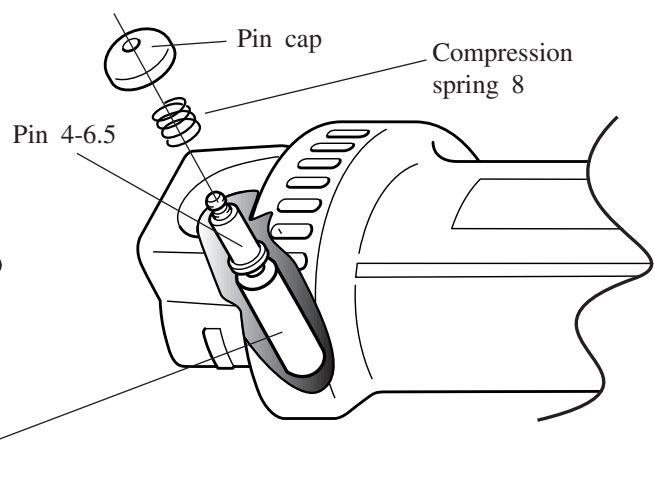



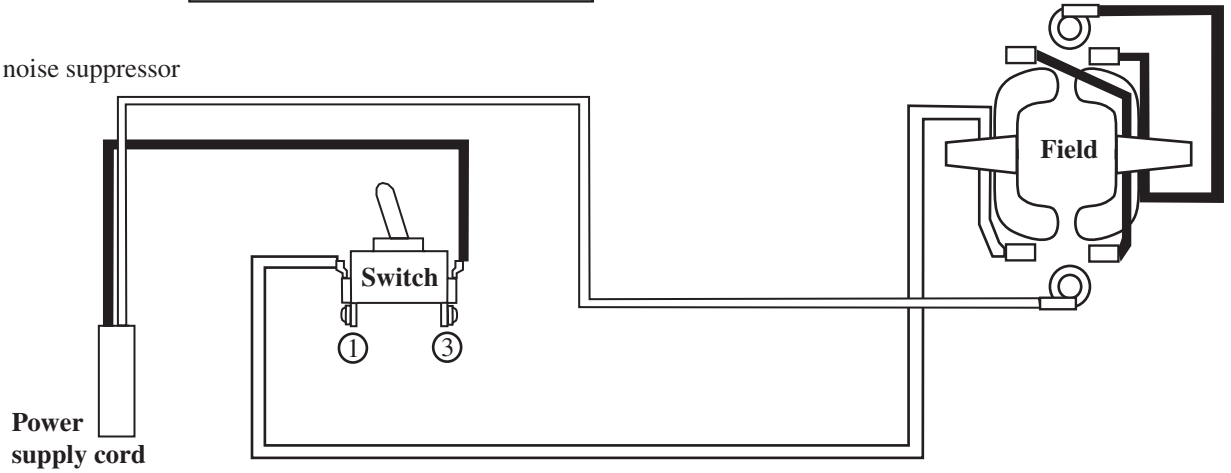


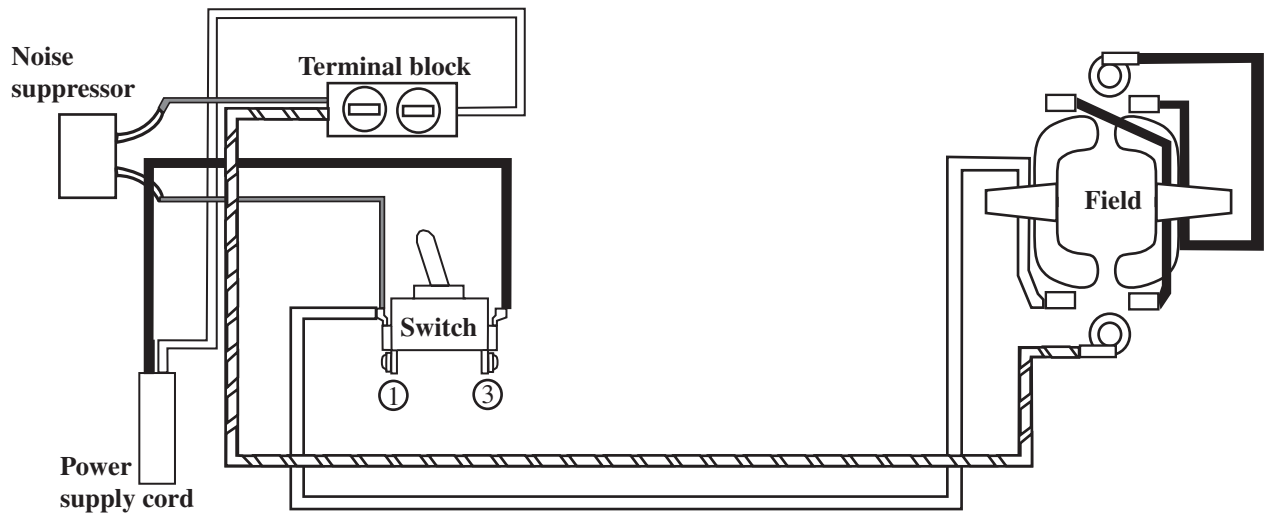
Fig. 2A

Color index of lead wires	
Black	
White	
Orange	

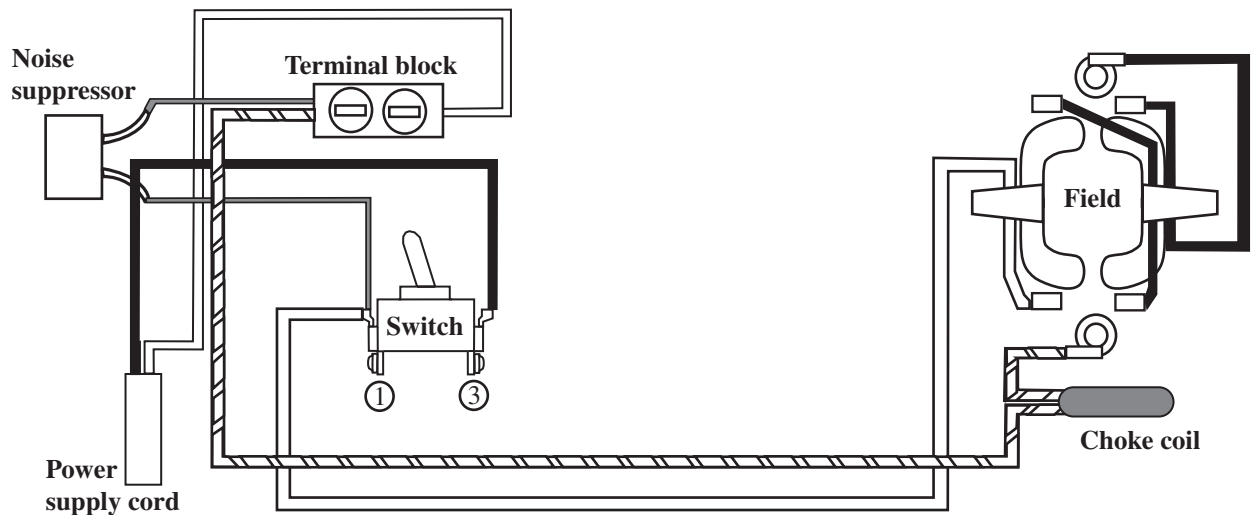
Without noise suppressor



With noise suppressor

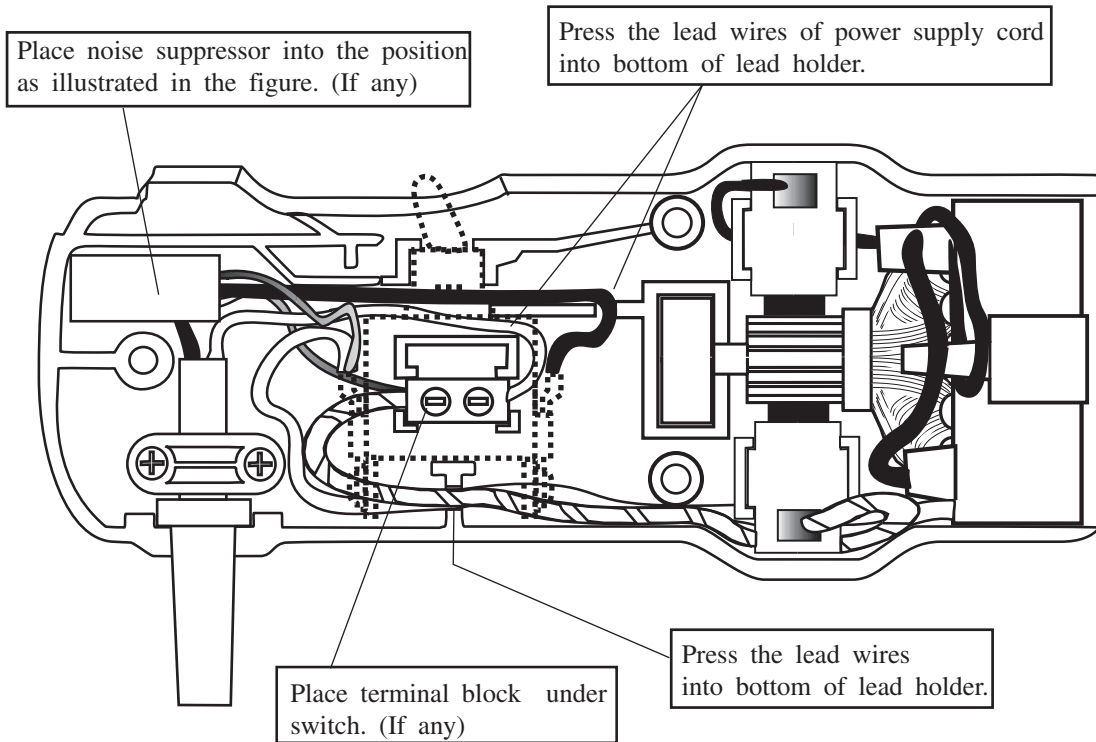


For the market where interference suppresssion is required.



▶ Wiring diagram

Wiring under switch (Before placing switch)



Wiring after placing switch onto terminal block section

