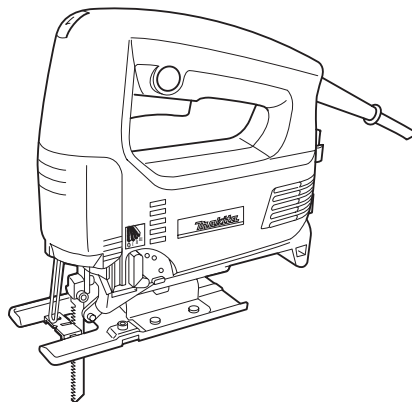
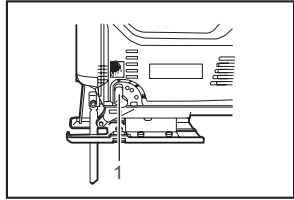




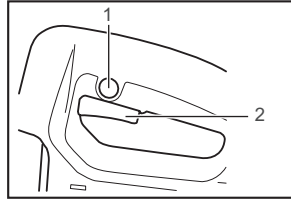
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PL	Wyrzynarka	INSTRUKCJA OBSŁUGI
RO	Ferăstrău pendular	MANUAL DE INSTRUCȚIUNI
DE	Stichsäge	BEDIENUNGSANLEITUNG
HU	Szúrófűrész	HASZNÁLATI KÉZIKÖNYV
SK	Lupienková píla	NÁVOD NA OBSLUHU
CZ	Elektronická přímočará píla s předkyvem	NÁVOD K OBSLUZE

4324

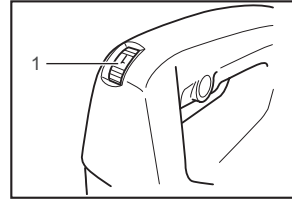




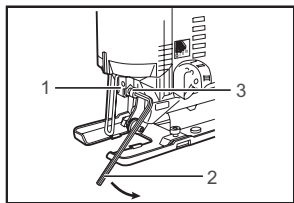
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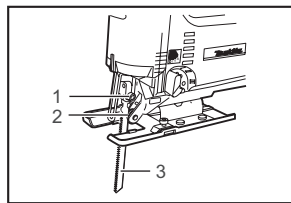
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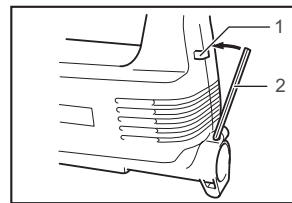
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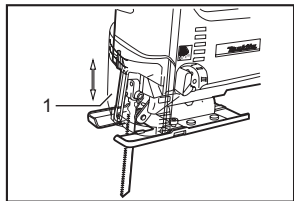
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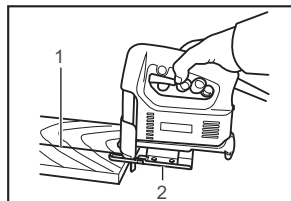
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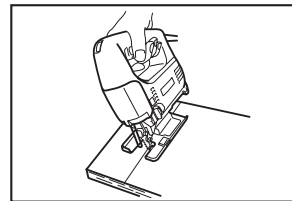
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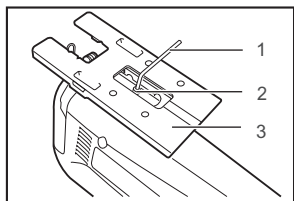
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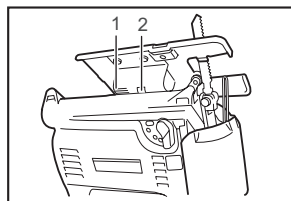
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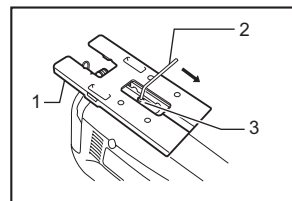
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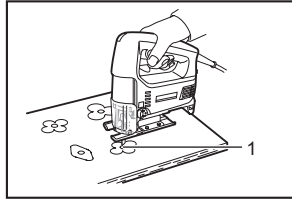
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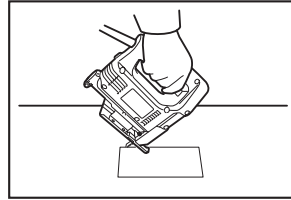
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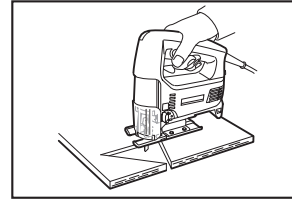
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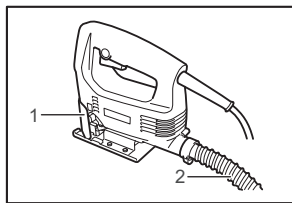
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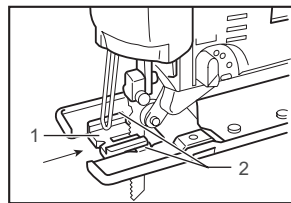
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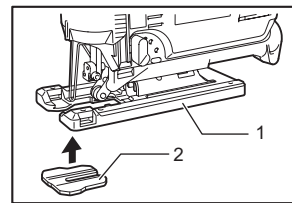
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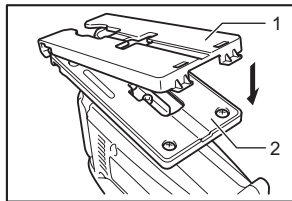
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ENGLISH

Explanation of general view

1-1. Cutting action changing lever	6-2. Hex wrench	12-3. Bolt
2-1. Lock button	7-1. Dust cover	13-1. Starting hole
2-2. Switch trigger	8-1. Cutting line	16-1. Dust cover
3-1. Speed adjusting dial	8-2. Base	16-2. Hose
4-1. Blade holder	10-1. Hex wrench	17-1. Anti-splintering device
4-2. Hex wrench	10-2. Bolt	17-2. Protrusions
4-3. Bolt	10-3. Base	18-1. Aluminum base
5-1. Bolt	11-1. Graduation	18-2. Anti-splintering device
5-2. Roller	11-2. Edge	19-1. Cover plate
5-3. Blade	12-1. Base	19-2. Aluminum base
6-1. Hook	12-2. Hex wrench	

SPECIFICATIONS

Model		4324
Length of stroke		18 mm
Max. cutting capacities	Wood	65 mm
	Mild steel	6 mm
Strokes per minute (min ⁻¹)		500 - 3,100
Overall length		207 mm (Steel base type)
		214 mm (Aluminum base type)
Net weight		1.9 kg (Steel base type)
		2.0 kg (Aluminum base type)
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.

END201-2

ENF002-1

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.

ENE019-1

Intended use

The tool is intended for the sawing of wood, plastic and metal materials. As a result of the extensive accessory and saw blade program, the tool can be used for many purposes and is very well suited for curved or circular cuts.

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.

ENG004-2

For European countries only

Noise and Vibration

The typical A-weighted sound pressure level is 82 dB (A). Uncertainty is 3 dB(A).

The noise level under working may exceed 85 dB (A).

Wear ear protection.

The typical weighted root mean square acceleration value is 9 m/s².

These values have been obtained according to EN60745.

ENH101-5

Model; 4324

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 **CE2005**



000087

Director

MAKITA INTERNATIONAL EUROPE LTD.

Michigan Drive, Tongwell, Milton Keynes, Bucks MK15 8JD, ENGLAND

Responsible manufacturer:

Makita Corporation Anjo Aichi Japan

GEB016-1

SPECIFIC SAFETY RULES

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

1. **Hold power tools 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. **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. **Always use safety glasses or goggles. Ordinary eye or sun glasses are NOT safety glasses.**
4. **Avoid cutting nails. Inspect workpiece for any nails and remove them before operation.**
5. **Do not cut oversize workpiece.**
6. **Check for the proper clearance beyond the workpiece before cutting so that the blade will not strike the floor, workbench, etc.**
7. **Hold the tool firmly.**
8. **Make sure the blade is not contacting the workpiece before the switch is turned on.**
9. **Keep hands away from moving parts.**
10. **Do not leave the tool running. Operate the tool only when hand-held.**
11. **Always switch off and wait for the blade to come to a complete stop before removing the blade from the workpiece.**
12. **Do not touch the blade or the workpiece immediately after operation; they may be extremely hot and could burn your skin.**
13. **Do not operate the tool at no-load unnecessarily.**
14. **Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.**
15. **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.

Selecting the cutting action

Fig.1

This tool can be operated with an orbital or a straight line (up and down) cutting action. The orbital cutting action thrusts the blade forward on the cutting stroke and greatly increases cutting speed.

To change the cutting action, just turn the cutting action changing lever to the desired cutting action position. Refer to the table to select the appropriate cutting action.

Position	Cutting action	Applications
0	Straight line cutting action	For cutting mild steel, stainless steel and plastics.
		For clean cuts in wood and plywood.
I	Small orbit cutting action	For cutting mild steel, aluminum and hard wood.
II	Medium orbit cutting action	For cutting wood and plywood.
		For fast cutting in aluminum and mild steel.
III	Large orbit cutting action	For fast cutting in wood and plywood.

006582

Switch action

Fig.2

⚠CAUTION:

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

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.

Speed adjusting dial

Fig.3

The tool speed can be infinitely adjusted between 500 and 3,100 strokes per minute by turning the adjusting dial. Higher speed is obtained when the dial is turned in the direction of number 6; lower speed is obtained when it is turned in the direction of number 1.

Refer to the table to select the proper speed for the workpiece to be cut. However, the appropriate speed may differ with the type or thickness of the workpiece. In general, higher speeds will allow you to cut workpieces faster but the service life of the blade will be reduced.

Workpiece to be cut	Number on adjusting dial
Wood	5 - 6
Mild steel	3 - 6
Stainless steel	3 - 4
Aluminum	3 - 6
Plastics	1 - 4

006583

⚠CAUTION:

- If the tool is operated continuously at low speeds for a long time, the motor will get overloaded and heated up.
- The speed adjusting dial can be turned only as far as 6 and back to 1. Do not force it past 6 or 1, or the speed adjusting function may no longer work.

ASSEMBLY

⚠CAUTION:

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

Installing or removing saw blade

Fig.4

⚠CAUTION:

- Always clean out all chips or foreign matter adhering to the blade and/or blade holder. Failure to do so may cause insufficient tightening of the blade, resulting in a serious personal injury.
- Do not touch the blade or the workpiece immediately after operation; they may be extremely hot and could burn your skin.
- Always secure the blade firmly. Insufficient tightening of the blade may cause blade breakage or serious personal injury.

To install the blade, loosen the bolt counterclockwise on the blade holder with the hex wrench.

With the blade teeth facing forward, insert the blade into the blade holder as far as it will go. Make sure that the back edge of the blade fits into the roller. Then tighten the bolt clockwise to secure the blade.

Fig.5

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

NOTE:

- Occasionally lubricate the roller.

Hex wrench storage

Fig.6

When not in use, store the hex wrench as shown in the figure to keep it from being lost.

Dust cover

Fig.7

⚠CAUTION:

- Always wear safety goggles even when operating the tool with the dust cover lowered.

Lower the dust cover to prevent chips from flying. However, when making bevel cuts, raise it all the way.

OPERATION

⚠CAUTION:

- Always hold the base flush with the workpiece. Failure to do so may cause blade breakage, resulting in a serious injury.
- Advance the tool very slowly when cutting curves or scrolling. Forcing the tool may cause a slanted cutting surface and blade breakage.

Turn the tool on without the blade making any contact and wait until the blade attains full speed. Then rest the base flat on the workpiece and gently move the tool forward along the previously marked cutting line.

Fig.8

Bevel cutting

Fig.9

⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before tilting the base.
- Raise the dust cover all the way before making bevel cuts.

With the base tilted, you can make bevel cuts at any angle between 0° and 45° (left or right).

Loosen the bolt on the back of the base with the hex wrench. Move the base so that the bolt is positioned in the center of the cross-shaped slot in the base.

Fig.10

Tilt the base until the desired bevel angle is obtained. The edge of the motor housing indicates the bevel angle by graduations. Then tighten the bolt to secure the base.

Fig.11

Front flush cuts

Fig.12

Loosen the bolt on the back of the base with the hex wrench and slide the base all the way back. Then tighten the bolt to secure the base.

Cutouts

Cutouts can be made with either of two methods A or B.

A) Boring a starting hole

Fig.13

For internal cutouts without a lead-in cut from an edge, pre-drill a starting hole 12 mm or more in diameter. Insert the blade into this hole to start your cut.

B) Plunge cutting

Fig.14

You need not bore a starting hole or make a lead-in cut if you carefully do as follows.

- (1) Tilt the tool up on the front edge of the base with the blade point positioned just above the workpiece surface.
- (2) Apply pressure to the tool so that the front edge of the base will not move when you switch on the tool and gently lower the back end of the tool slowly.
- (3) As the blade pierces the workpiece, slowly lower the base of the tool down onto the workpiece surface.
- (4) Complete the cut in the normal manner.

Finishing edges

Fig.15

To trim edges or make dimensional adjustments, run the blade lightly along the cut edges.

Metal cutting

Always use a suitable coolant (cutting oil) when cutting metal. Failure to do so will cause significant blade wear. The underside of the workpiece can be greased instead of using a coolant.

Dust extraction

Fig.16

Clean cutting operations can be performed by connecting this tool to a Makita vacuum cleaner. Insert the hose of the vacuum cleaner into the hole at the rear of the tool. Lower the dust cover before operation.

NOTE:

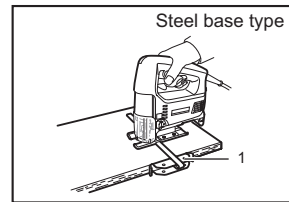
- Dust extraction cannot be performed when making bevel cuts.

Rip fence (optional accessory)

⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before installing or removing accessories.

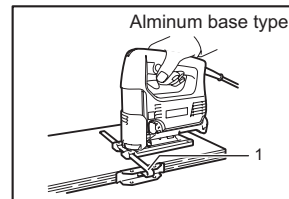
1. Straight cuts



1. Rip fence (Guide rule)

002775

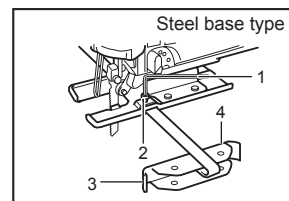
When repeatedly cutting widths of 160 mm or less, use of the rip fence will assure fast, clean, straight cuts.



1. Rip fence (Guide rule)

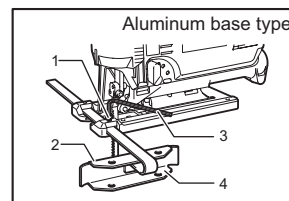
005453

To install, insert the rip fence into the rectangular hole on the side of the base with the fence guide facing down. Slide the rip fence to the desired cutting width position, then tighten the bolt to secure it.



1. Hex wrench
2. Bolt
3. Rip fence (Guide rule)
4. Guide facing

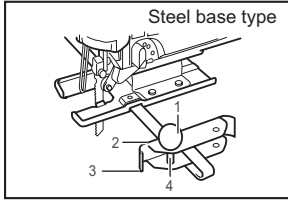
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1. Bolt
2. Fence guide
3. Hex wrench
4. Rip fence (Guide rule)

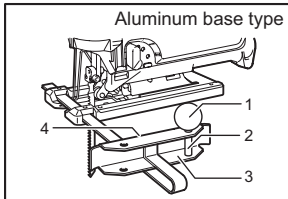
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2. Circular cuts



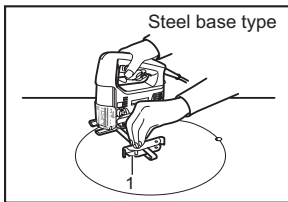
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1. Treaded knob
2. Guide facing
3. Rip fence (Guide rule)
4. Pin



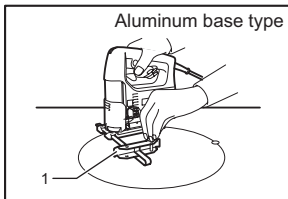
005455

1. Threaded knob
2. Pin
3. Rip fence (Guide rule)
4. Fence guide



002778

1. Rip fence (Guide rule)



005456

1. Rip fence (Guide rule)

When cutting circles or arcs of 170 mm or less in radius, install the rip fence as follows. Insert the rip fence into the rectangular hole on the side of the base with the fence guide facing up. Insert the circular guide pin through either of the two holes on the fence guide. Screw the threaded knob onto the pin to secure the pin. Now slide the rip fence to the desired cutting radius, and tighten the bolt to secure it in place. Then move the base all the way forward.

NOTE:

- Always use blades No. B-17, B-18, B-26 or B-27 when cutting circles or arcs.

Anti-splintering device for steel base (optional accessory)

Fig.17

For splinter-free cuts, the anti-splintering device can be used. To install the anti-splintering device, move the base all the way forward and insert it between the two protrusions of the base.

NOTE:

- The anti-splintering device cannot be used when making bevel cuts.

Anti-splintering device for aluminum base (Optional accessory)

Fig.18

For splinter-free cuts, the anti-splintering device can be used. To install the anti-splintering device, move the tool base all the way forward and fit it from the back of tool base. When you use the cover plate, install the anti-splintering device onto the cover plate.

CAUTION:

- The anti-splintering device cannot be used when making bevel cuts.

Cover plate for aluminum base (Optional accessory)

Fig.19

Use the cover plate when cutting decorative veneers, plastics, etc. It protects sensitive or delicate surfaces from damage. Fit it on the back of the tool base.

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, carbon brush inspection and replacement, 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.

- Jig saw blades
- Hex wrench 3
- Rip fence (guide rule) set
- Anti-splintering device
- Hose (For vacuum cleaner)

Makita Corporation Anjo, Aichi, Japan

884205A907