

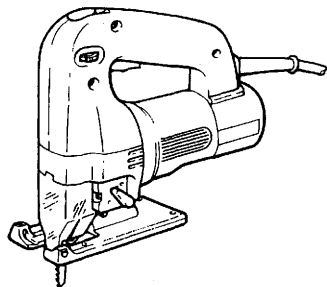
Makita

Jig Saw

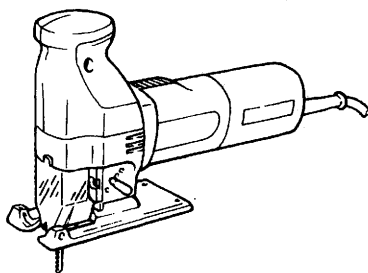
MODEL 4304
MODEL 4305

INSTRUCTION MANUAL

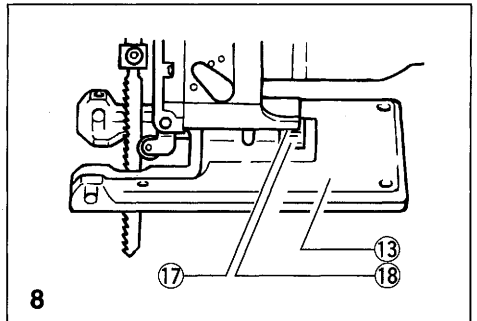
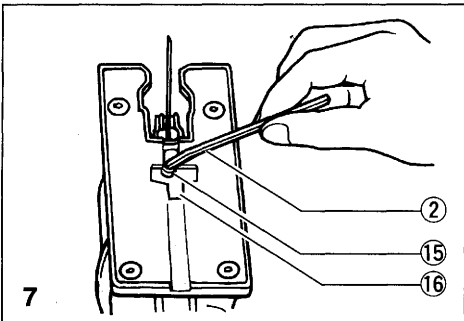
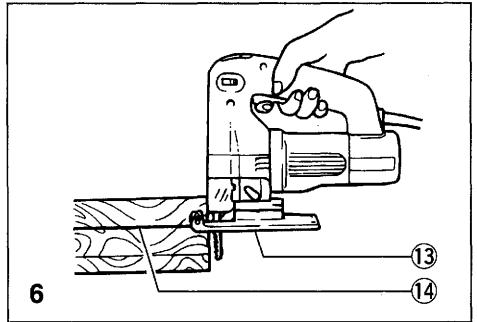
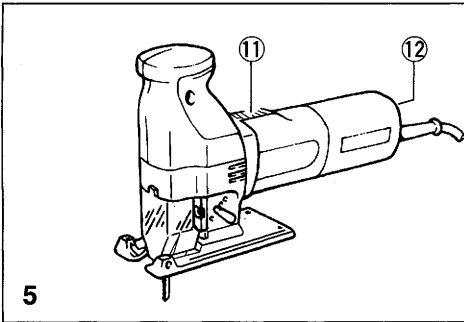
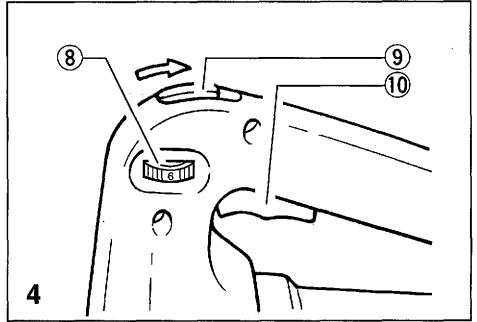
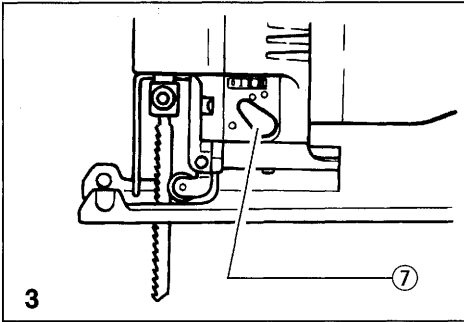
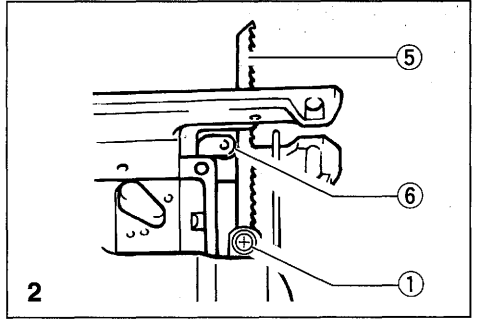
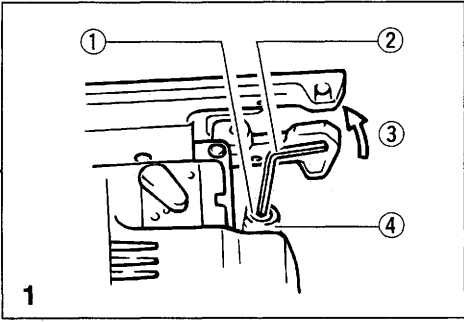
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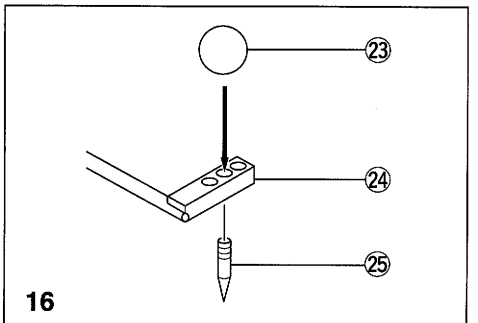
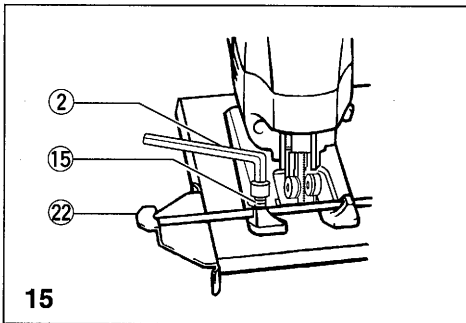
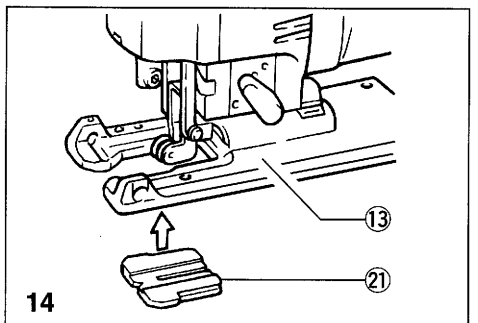
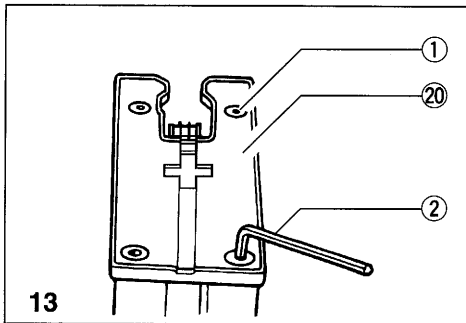
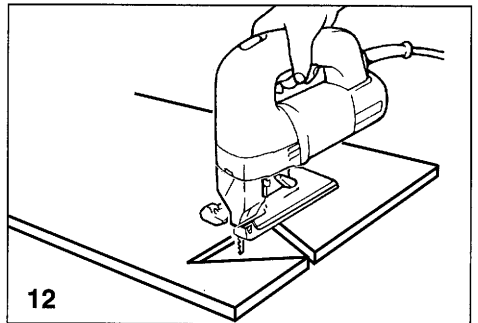
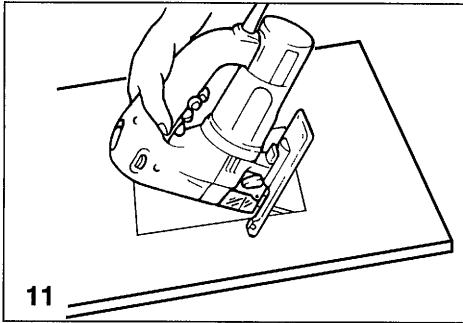
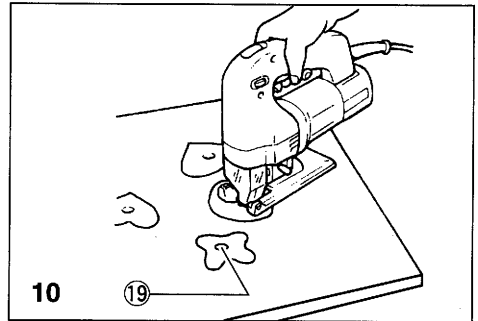
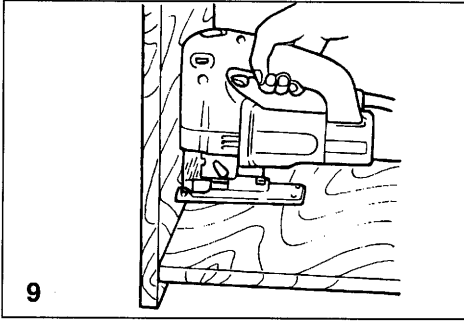


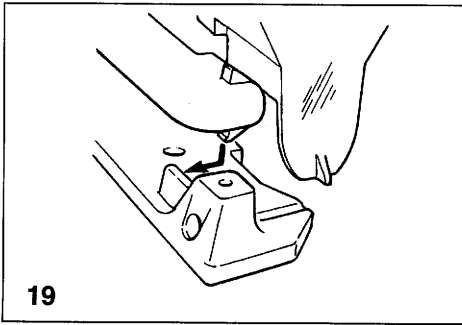
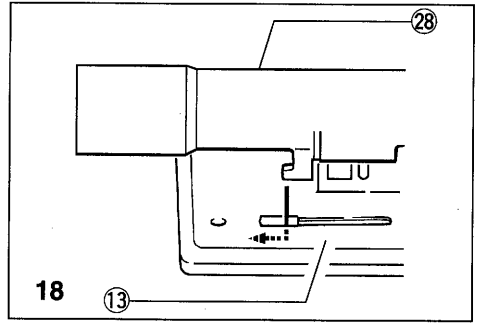
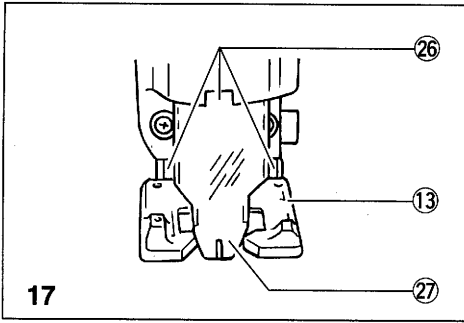
4305



**DOUBLE
INSULATION**







Explanation of general view

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> ① Screw ② Hex wrench ③ Loosen ④ Blade holder ⑤ Jig saw blade ⑥ Roller ⑦ Lever ⑧ Speed adjusting dial ⑨ Lock lever ⑩ Switch trigger | <ul style="list-style-type: none"> ⑪ Switch lever ⑫ Speed adjusting dial ⑬ Base ⑭ Cutting line ⑮ Bolt ⑯ Cross-shaped slot ⑰ Graduations ⑱ Edge of motor housing ⑲ Starting hole ⑳ Plastic base plate | <ul style="list-style-type: none"> ㉑ Anti-splintering device ㉒ Guide rule ㉓ Threaded knob ㉔ Circular guide ㉕ Pin ㉖ Fit into notches ㉗ Plastic cover ㉘ Vacuum head |
|---|--|---|

SPECIFICATIONS

Model	4304	4305
Length of stroke	26 mm	26 mm
Cutting capacities		
Wood	135 mm	135 mm
Mild steel	10 mm	10 mm
Aluminum	20 mm	20 mm
Strokes per minute	500 – 3,000	500 – 3,000
Overall length	249 mm	285 mm
Net weight	2.3 kg	2.3 kg

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

Power supply

The machine 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.

Safety hints

For your own safety, please refer to enclosed safety instructions.

These symbols means:

- Read instruction manual.
- DOUBLE INSULATION

SAFETY INSTRUCTIONS

Warning! When using electric machines, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following.

Read all these instructions before attempting to operate this product and save these instructions.

For safe operation:

- 1. Keep work area clean**
Cluttered areas and benches invite injuries.
- 2. Consider work area environment**
Don't expose power machines to rain. Don't use power machines in damp or wet locations. Keep work area well lit. Don't use power machines in presence of flammable liquids or gases.
- 3. Guard against electric shock**
Prevent body contact with grounded surfaces (e.g. pipes, radiators, ranges, refrigerators).
- 4. Keep children away**
Do not let visitors contact machine or extension cord. All visitors should be kept away from work area.
- 5. Store idle machines**
When not in use, machines should be stored in dry, high, or locked-up place, out of the reach of children.
- 6. Don't force machine**
It will do the job better and safer at the rate for which it was intended.
- 7. Use right machine**
Don't force small machines or attachments to do the job of a heavy duty machine. Don't use machines for purposes not intended; for example, don't use circular saw for cutting tree limbs or logs.
- 8. Dress properly**
Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.

- 9. Use safety glasses**
Also use face or dust mask if cutting operation is dusty.
- 10. Don't abuse cord**
Never carry machine by cord or yank it to disconnect it from receptacle. Keep cord from heat, oil and sharp edges.
- 11. Secure work**
Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate machine.
- 12. Don't overreach**
Keep proper footing and balance at all times.
- 13. Maintain machines with care**
Keep machines sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect machine cords periodically and, if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.
- 14. Disconnect machines**
When not in use, before servicing, and when changing accessories such as blades, bits and cutters.
- 15. Remove adjusting keys and wrenches**
Form the habit of checking to see that keys and adjusting wrenches are removed from machine before turning it on.
- 16. Avoid unintentional starting**
Don't carry plugged-in machine with finger on switch. Be sure switch is off when plugging in.
- 17. Outdoor use extension cords**
When machine is used outdoors, use only extension cords intended for use outdoors and so marked.
- 18. Stay alert**
Watch what you are doing. Use common sense. Do not operate machine when you are tired.
- 19. Check damaged parts**
Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by an authorized service center. Do not use machine if switch does not turn it on and off.
- 20. Warning**
The use of any other accessory or attachment other than recommended in this operating instruction or the catalog may present a risk of personal injury.
- 21. Have your machine repaired by an expert**
This electric appliance is in accordance with the relevant safety rules. Repairing of electric appliances may be carried out only by experts other wise it may cause considerable danger for the user.

ADDITIONAL SAFETY RULES

1. Always be sure that the machine is switched off and unplugged before carrying out any work on the machine.
2. Make sure the blade is not contacting the workpiece before the switch is turned on.
3. Always direct the power cord to rear away from the machine.
4. Keep hands away from moving parts.
5. Do not saw materials containing asbestos. Wear a protective mask when sawing other fibrous materials.

SAVE THESE INSTRUCTIONS.

OPERATING INSTRUCTIONS

Installing or removing the saw blade (Fig. 1 & 2)

Important:

Always be sure that the machine is switched off and unplugged before installing or removing the blade.

To install the blade, loosen the screw on the blade holder. 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 screw to secure the blade.

Note: Occasionally lubricate the roller.

Selecting the cutting action (Fig. 3)

This machine can be operated with an orbital or a straight line cutting action. To change the cutting action, just turn the lever to the desired cutting action position. Refer to the table below to select the 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.

Switching ON and OFF

For 4304 (Fig. 4)

Caution:

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

To switch on, press the trigger. To switch off, release the trigger.

For 4305 (Fig. 5)

Caution:

Before plugging in the machine, always check to see that the switch actuates properly.

To switch on, slide the switch lever forward. To switch off, slide the switch lever backward.

Continuous running (Fig. 4)

For 4304 only

Press the trigger and at the same time move the lock lever backward. To stop from this lock position, press the trigger and release it.

Speed adjusting dial

(Fig. 4 for 4304 and Fig. 5 for 4305)

The machine speed can be adjusted between 500 and 3,000 strokes per minute by turning the adjusting dial. The dial is marked 1 (lowest speed) to 6 (full speed). Refer to the table at right 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

Cutting operation (Fig. 6)

Rest the base flat on the workpiece and gently move the machine forward along the previously marked cutting line. When cutting curves, advance the machine very slowly.

Bevel cutting (Fig. 7 & 8)

With the base tilted, you can make bevel cuts at any angle between 0° and 45° (left or right). Loosen the bolt on the bottom of the machine. Move the base so that the bolt is positioned in the center of the cross-shaped slot in the base. Tilt the base until the desired bevel angle is obtained. The edge of the motor housing indicates the bevel angle. (See Fig. 8) then tighten the bolt to secure the base.

Flush cutting (Fig. 9)

Loosen the bolt on the bottom of the machine and move the base all the way back. Then tighten the bolt to secure the blade.

Cutouts

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

A) Boring a starting hole: For internal cutouts without a lead-in cut from an edge, pre-drill a starting hole more than 12 mm in diameter. Insert the blade into this hole to start your cut. (Fig. 10)

B) Plunge cutting: You need not bore a starting hole or make a lead-in cut if you carefully do as follows;

1. Tilt the machine up on the front edge of the base, with the blade point positioned just above the workpiece surface. (Fig. 11)
2. Apply pressure to the machine so that the front edge of the base will not move when you switch on the machine and gently lower the back end of the machine slowly.
3. As the blade pierces the workpiece, slowly lower the base of the machine down onto the workpiece surface.
4. Complete the cut in the normal manner.

Finishing edges (Fig. 12)

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 coolant.

Plastic base plate (Fig. 13)

Use the plastic base plate when cutting decorative veneers, plastics, etc. It protects sensitive surfaces from damage. To replace the base plate, remove the four screws.

Anti-splintering device (Fig. 14)

For splinter-free cuts, the anti-splintering device can be used. Fit it into the base from below.

Guide rule (optional accessory) (Fig. 15)

When cutting widths of under 150 mm repeatedly, use of the guide rule (rip fence) will assure fast, clean, straight cuts. To install it, loosen the bolt on the front of the base. Slip in the guide rule and secure the bolt.

Circular guide (optional accessory) (Fig. 16)

Use of the circular guide insures clean, smooth cutting of circles (radius; under 200 mm). Insert the pin through the center hole and secure it with the threaded knob. Move the base of the machine forward fully. Then install the circular guide on the base in the same manner as the guide rule (rip fence).

Dust extraction (Fig. 17, 18 & 19)

The vacuum head is recommended to perform clean cutting operations. Install the plastic cover on the machine by fitting it into the notches in the machine.

To attach the vacuum head on the machine, insert the hook of the vacuum head into the hole in the base. The vacuum head can be installed on either left or right side of the base. Then connect a Makita vacuum cleaner to the vacuum head.

MAINTENANCE**CAUTION:**

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

To maintain product safety and reliability, repairs, maintenance or adjustment should be carried out by Makita Authorized or Factory Service Center.

Makita Corporation

Anjo, Aichi, Japan

Made in Japan

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