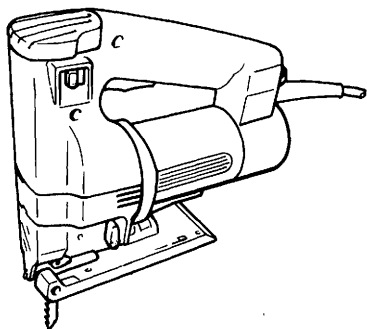


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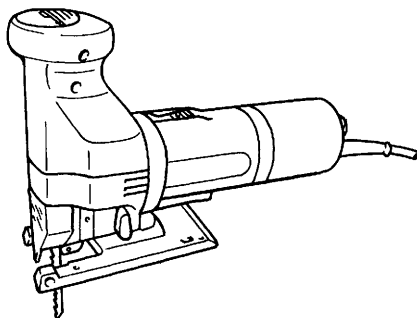
Jig Saw

MODEL 4304T
MODEL 4305T

INSTRUCTION MANUAL



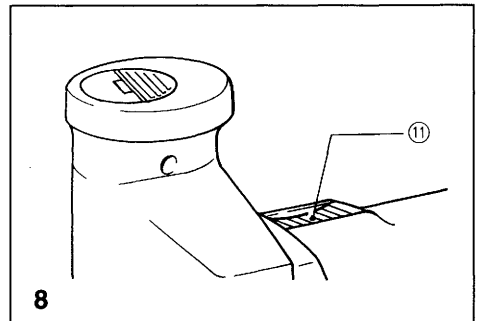
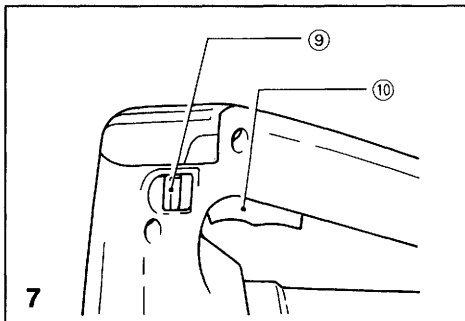
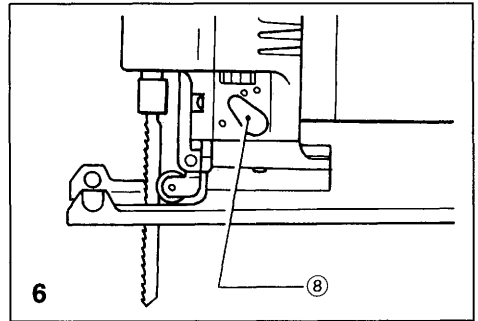
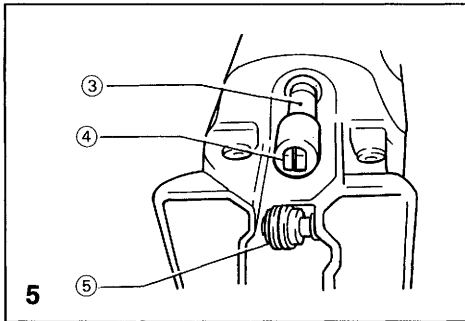
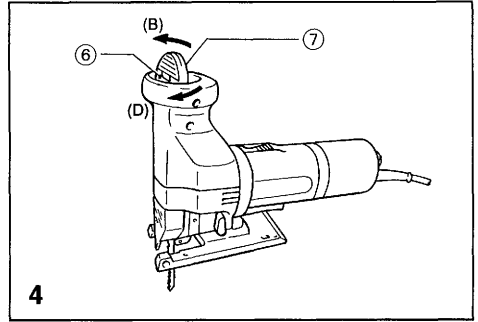
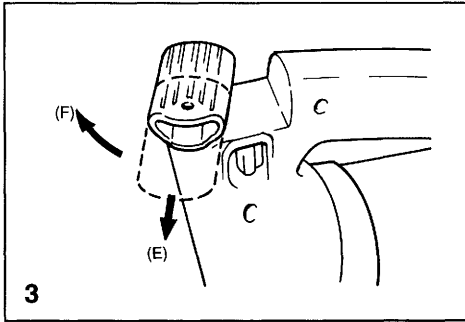
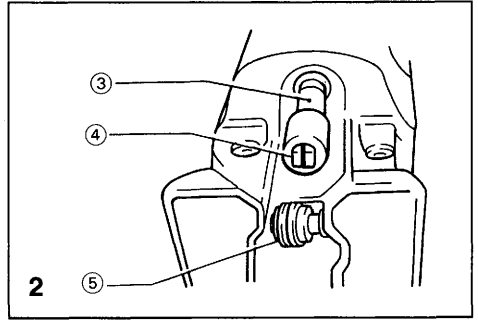
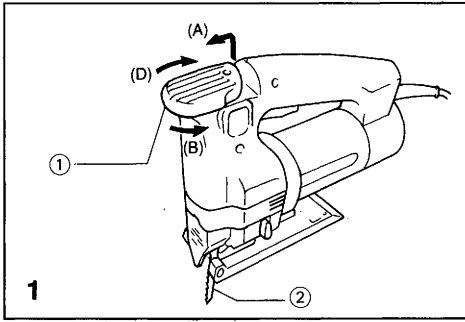
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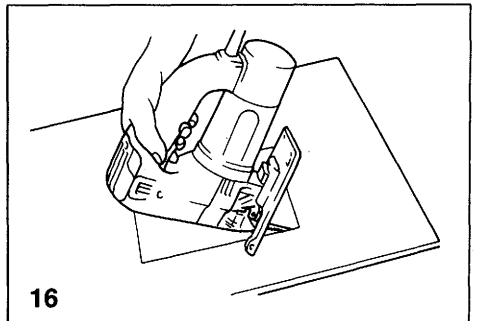
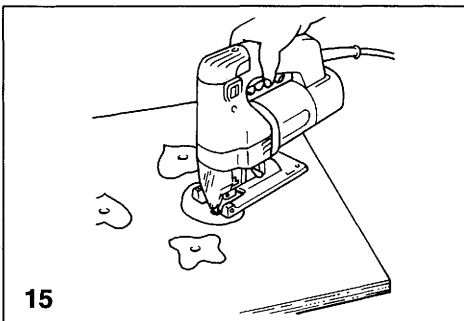
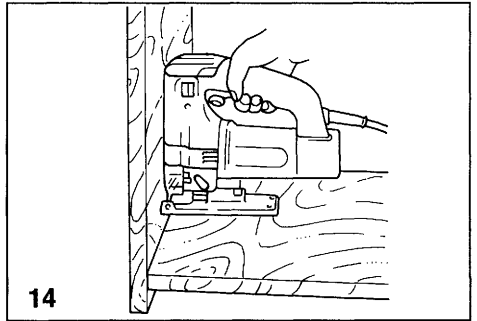
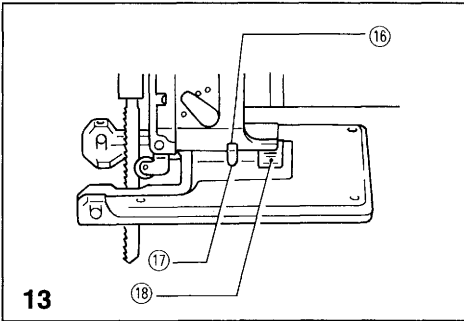
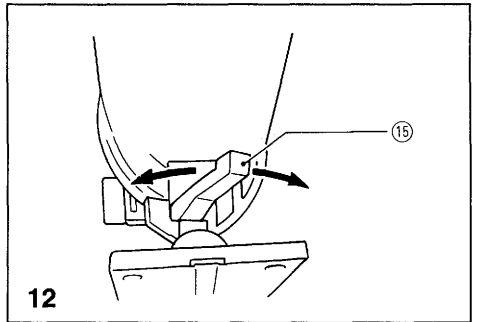
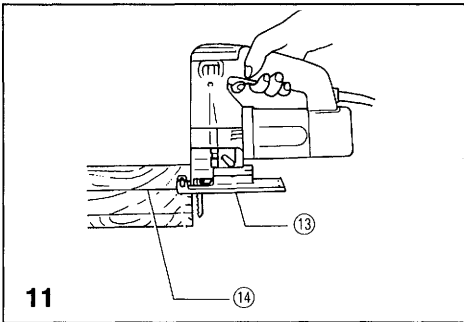
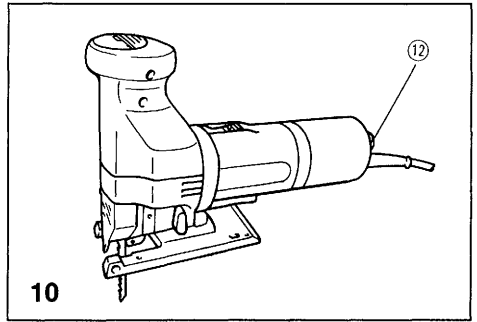
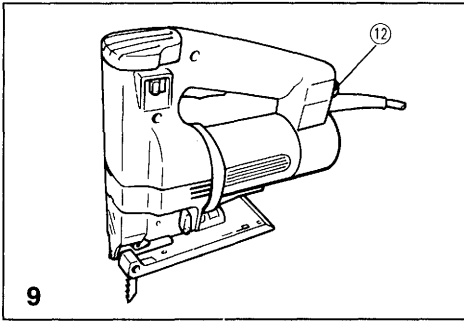


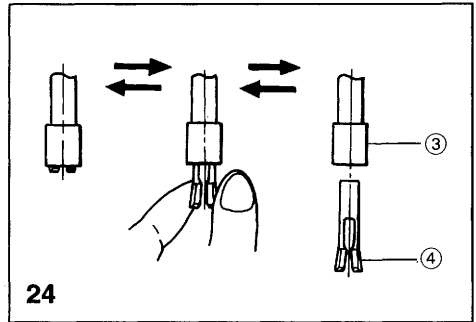
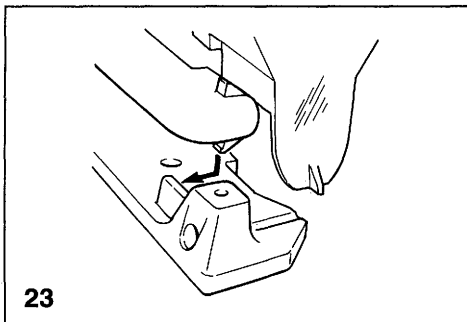
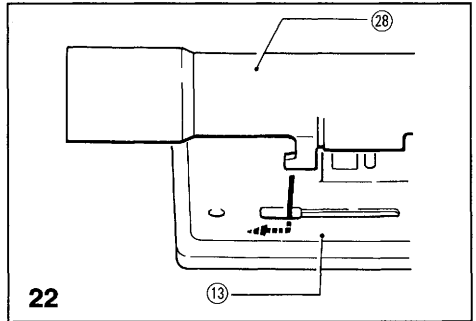
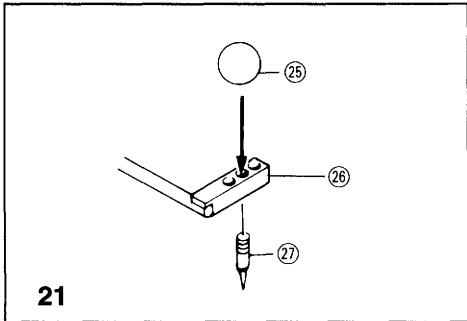
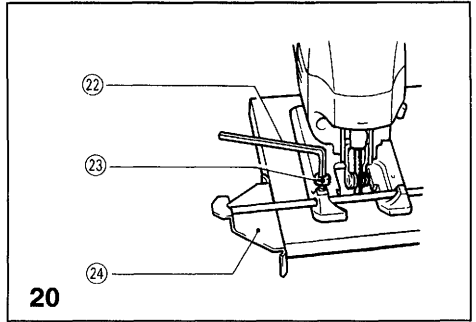
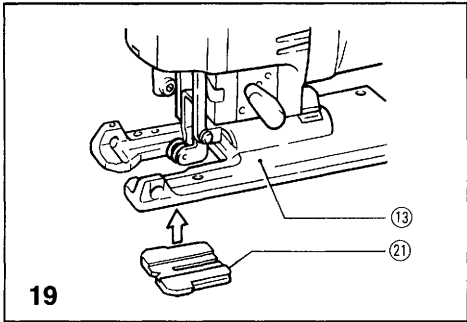
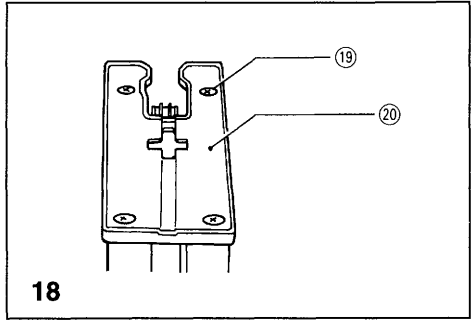
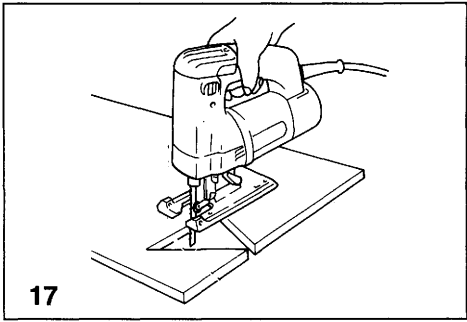
4305T



**DOUBLE
INSULATION**







Explanation of general view

- | | | | |
|--------------------------|------------------------|---------------------------|------------------|
| ① Blade installing lever | ⑧ Lever | ⑮ Base securing lever | ⑳ Hex wrench |
| ② Blade | ⑨ Lock lever | ⑯ Dent mark | ㉑ Bolt |
| ③ Blade holder | ⑩ Switch trigger | ⑰ Slot | ㉒ Guide rule |
| ④ Clamp | ⑪ Switch lever | ⑱ Graduations | ㉓ Threaded knob |
| ⑤ Roller | ⑫ Speed adjusting dial | ㉀ Screw | ㉔ Circular guide |
| ⑥ Button | ⑬ Base | ㉁ Plastic base plate | ㉕ Pin |
| ⑦ Blade installing knob | ⑭ Cutting line | ㉂ Anti-splintering device | ㉖ Vacuum head |

SPECIFICATIONS

Model	4304T	4305T
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
Stroke per minute	500 – 3,000	500 – 3,000
Overall length	249 mm	287 mm
Net weight	2.4 kg	2.4 mm

• 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. Avoid cutting nails. Inspect for and remove all nails from the workpiece before operation.
2. Don't cut hollow pipe.
3. Do not cut oversize workpiece.
4. Check for the proper clearance beneath the workpiece before cutting so that the blade will not strike the floor, workbench, etc.
5. Always wear eye protection conforming with current national standard. Severe eye injury could result.
6. Hold the machine firmly.
7. Make sure the cord is out of your way and not in the line of cut.
8. Make sure the blade is not contacting the workpiece before the switch is turned on.
9. Keep hands away from moving parts.
10. When cutting through walls, floors or wherever "live" electrical wires may be encountered. DO NOT TOUCH ANY METAL PARTS OF THE MACHINE! Hold the machine only by the insulated grasping surfaces to prevent electric shock if you cut through a "live" wire.
11. Do not leave the machine running. Operate the machine only when hand-held.
12. Always switch off and wait for the blade to come to a complete stop before removing the blade from the workpiece.
13. Do not touch the blade or the workpiece immediately after operation; they may be extremely hot and could burn your skin.

SAVE THESE INSTRUCTIONS.

OPERATING INSTRUCTIONS

Installing or removing the saw blade

CAUTION:

- Always be sure that the machine is switched off and unplugged before installing or removing the blade.
- Always clean off the blade and blade holder before installing the blade. Chips or foreign matter on them may cause insufficient securing of the blade, possibly resulting in blade breakage or serious injury.
- Do not switch on the machine with the clamp protruding from the blade holder. The clamp, blade holder or roller may be damaged.

For 4304T (Fig. 1, 2 & 3)

1. Pull the blade installing lever in the (A) direction until it stops while lifting is slightly.
2. Rotate the blade installing lever in the (B) direction and the clamp on the blade holder will open. Open the clamp a little more than the thickness of the blade to be installed.
3. 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 properly into the groove of the roller.
4. With the blade held against the blade holder, rotate the blade installing lever in the (D) direction to tighten the clamp.
5. With the blade installing lever held in this position, move it in the (E) direction. Then the blade installing lever in the (F) direction to return it to its original position.

For 4305T (Fig. 4 & 5)

1. Press the button to raise the blade installing knob.
2. Rotate the blade installing knob in the (B) direction and the clamp on the blade holder will open. Open the clamp a little more than the thickness of the blade to be installed.
3. 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 properly into the groove of the roller.
4. With the blade held against the blade holder, rotate the blade installing knob in the (D) direction to tighten the clamp.
5. With the blade installing knob kept in this position, push it back down to its original position.

NOTE:

Occasionally lubricate the roller.

Selecting action (Fig. 6)

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 help determine 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.

Switch action for 4304T (Fig. 7)

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 start the machine, simply pull the trigger. Release the trigger to stop. For continuous operation, pull the trigger and move the lock lever backward. To stop the machine from the locked position, pull the trigger fully, then release it.

For 4305T (Fig. 8)

CAUTION:

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

To start the machine, slide the switch lever forward. Slide the switch lever backward to stop.

Speed adjusting dial (Fig. 9 & 10)

The machine speed can be adjusted and maintained 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 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	2 – 3
Plastics	1 – 4

CAUTION:

Adjust the speed adjusting dial only within the range of numbers 1 through 6. Do not force the dial beyond this range or damage to the machine may result.

Cutting operation (Fig. 11)

CAUTION:

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

Turn the machine on without the blade making any contact. Rest the base flat on the workpiece and gently move the machine forward along the previously marked cutting line.

Bevel cutting (Fig. 12 & 13)

CAUTION:

Always unplug the machine before making any adjustments.

With the base tilted, you can make bevel cuts at any angle between 0° and 45° (left or right). Loosen the base securing lever and move the base so that the dent mark in the motor housing is aligned with the slot in the base. 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 base securing lever to secure the base.

Flush cutting (Fig. 14)

Loosen the base securing lever and slide the base all the way back. Then tighten the base securing lever to secure the base.

Cutouts

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

A) Boring a starting hole (Fig. 15)

For internal cutouts without a lead-in cut from an edge, pre-drill starting hole more than 12 mm in diameter. Insert the blade into this hole and hold the machine firmly against the workpiece to start your cut.

B) Plunge cutting (Fig. 16)

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.
2. Apply firm 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 slices into 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. 17)

To trim edges or make slight 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.

Plastic base plate (Fig. 18)

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

Anti-splintering device (Fig. 19)

To reduce the potential for workpiece surface splintering, the anti-splintering device can be used. Fit it into the base from below so that it surrounds the sides of the blade.

Guide rule (rip fence; optional accessory) (Fig. 20)

When cutting width of under 150 mm repeatedly, use of the guide rule 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. 21)

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

Vacuum head (optional accessory) (Fig. 22 & 23)

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 attempting to perform inspection or maintenance.

Cleaning the clamp on the blade holder (Fig. 24)

If chips or foreign matter get into the clamp on the blade holder, clean out the clamp after removing it from the blade holder.

To remove the clamp, rotate the blade installing lever (for 4304T) or knob (for 4305T) in the blade loosening direction as far as it will go. Then remove the clamp from the blade holder while rotating the clamp counterclockwise. To install the clamp, first make sure that the blade installing lever (for 4304T) or knob (for 4305T) has been rotated in the blade loosening direction as far as possible. Insert the clamp into the blade holder while rotating it clockwise one quarter to one full turn. Grasp the clamp with your fingers so that it will not turn, then rotate the blade installing lever or knob in the blade tightening direction so that the clamp will go into the blade holder.

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.

Makita Corporation

Anjo, Aichi, Japan

Made in Japan

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