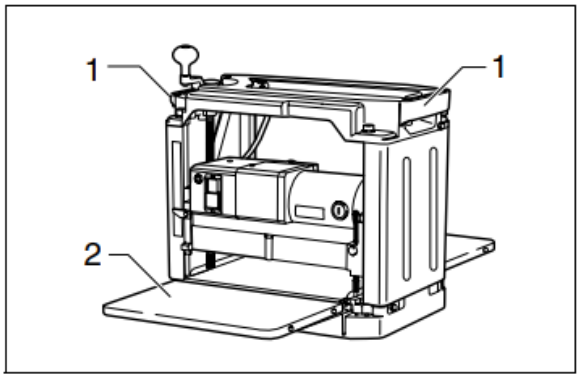
Makita Portable Thicknesser 2012NB

A compact and lightweight thickness planning machine. Planes up to 3mm deep and 150mm wide. The machine features a unique feeding mechanism to assure a smooth finish with minimal snipe on stock.

User Benefits

- Easily adjusted for an accurate & even finish
- Cutterhead powered by a powerful 1650W
- Lowest noise motor raises and lowers on four columns for stability
- Double insulated automatic thickness planer with indicator lamp ready to operate
- Depth stop can be set in any position from 3mm to 100mm for desired thickness of stock

Machine Specifications	
Cutting Width	304 mm
Max. Cutting Depth	3.0 mm of stock width less than 150 mm 1.5 mm of stock width from 150 mm to 240 mm 1.0 mm of stock width from 240 mm to 304 mm
Feed Rate (min-1)	8.5 m
Table Size (L x W)	771 x 304 mm
No Load Speed (min-1)	8500
Overall Length (L x W x H)	771 x 483 x 401 mm
Net Weight	27 kg



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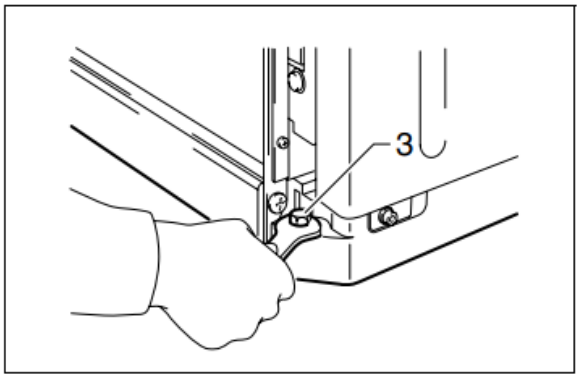

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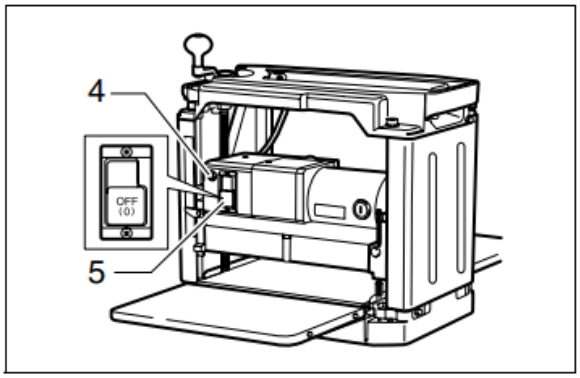

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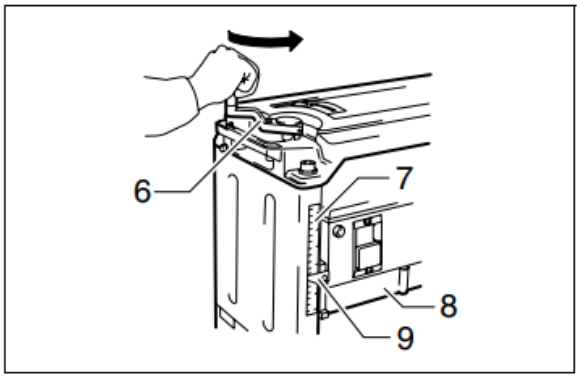

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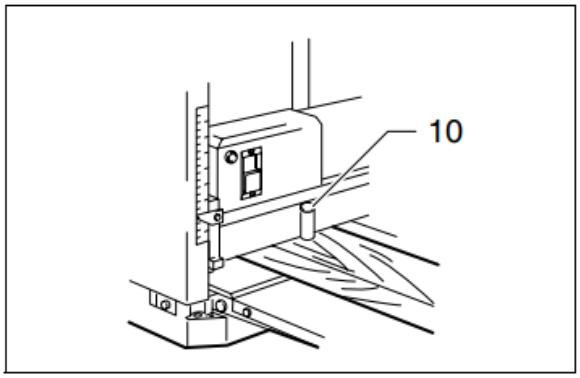

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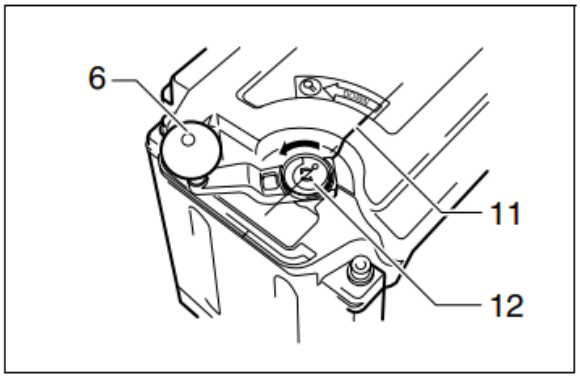

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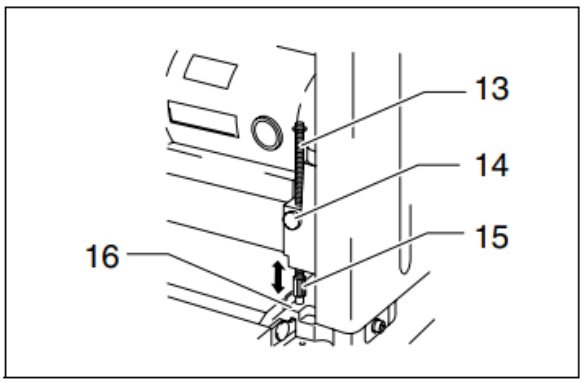

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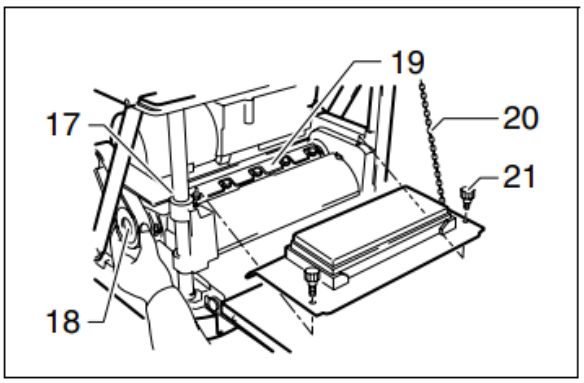

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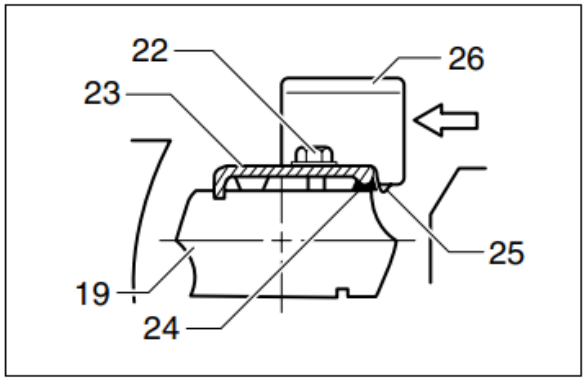

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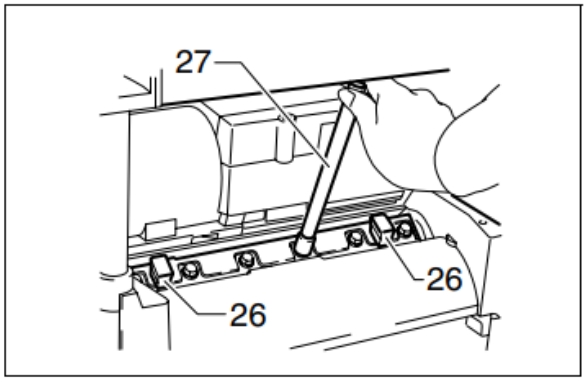

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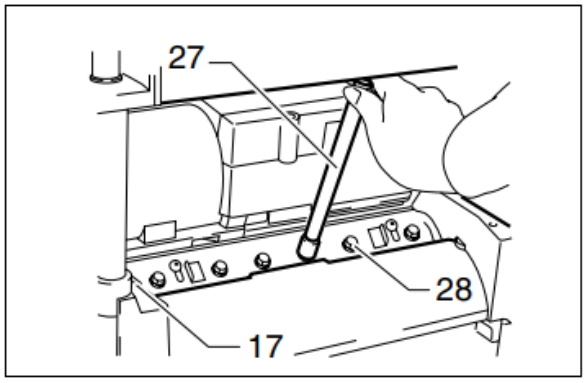

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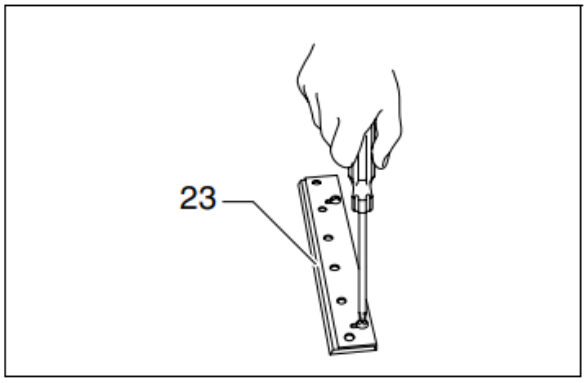

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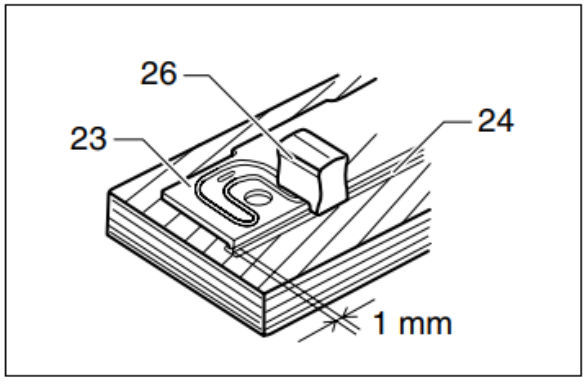

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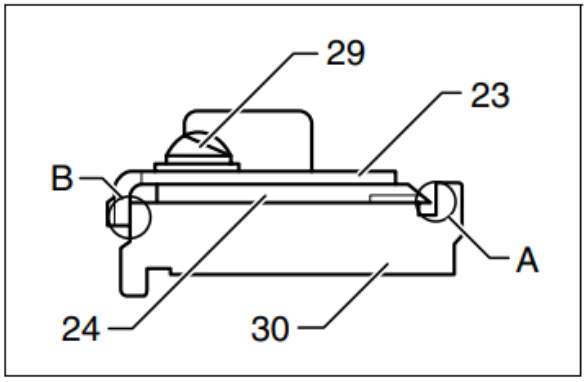

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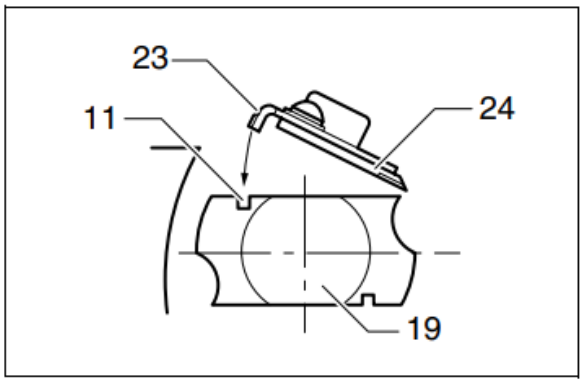

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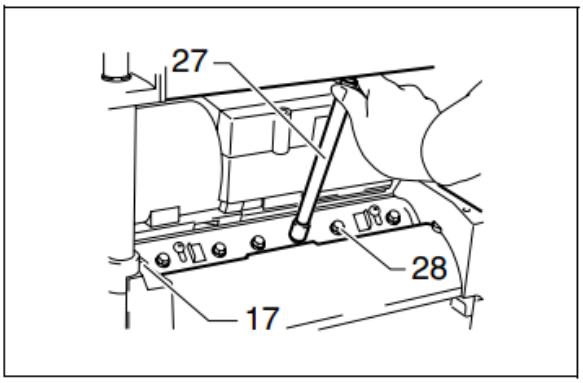

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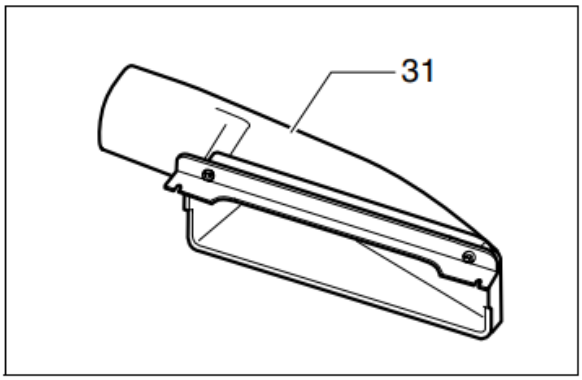

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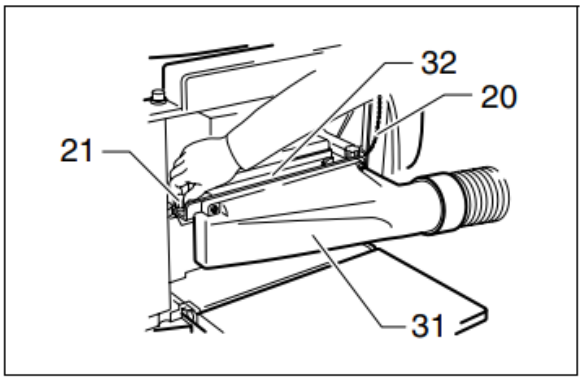

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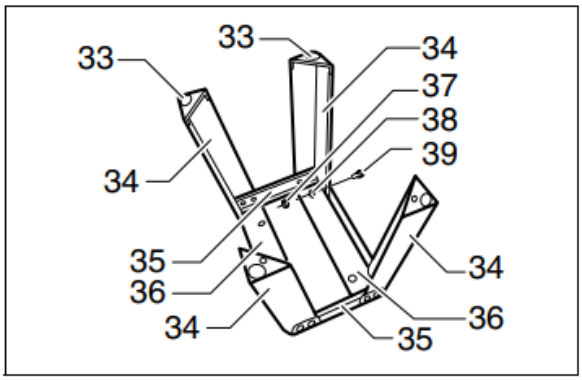

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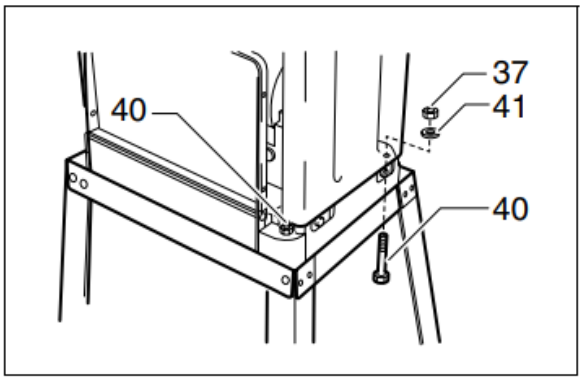

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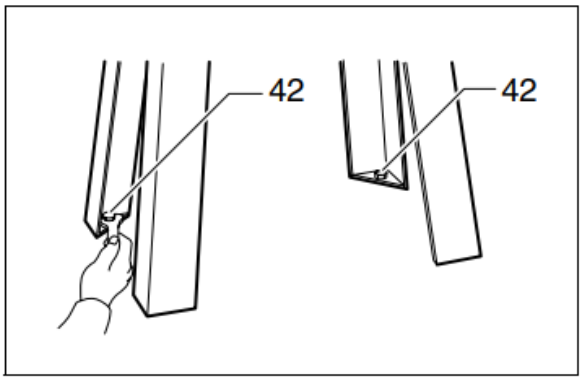

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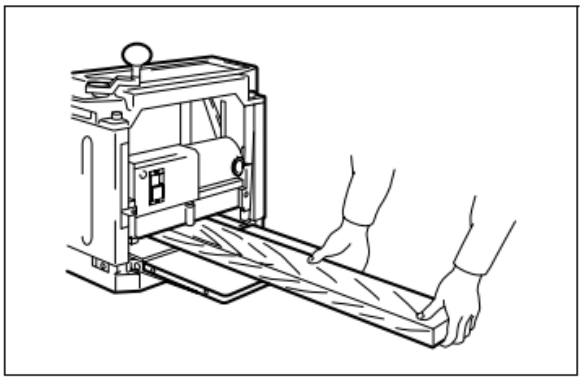

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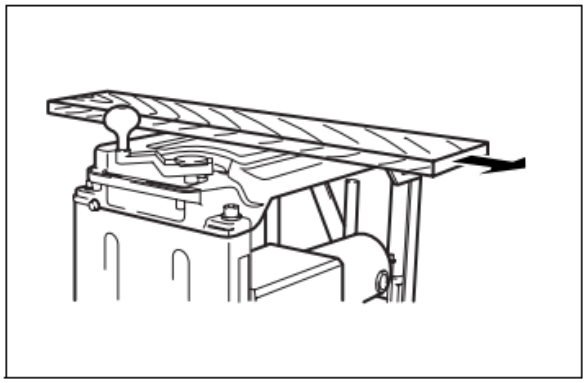

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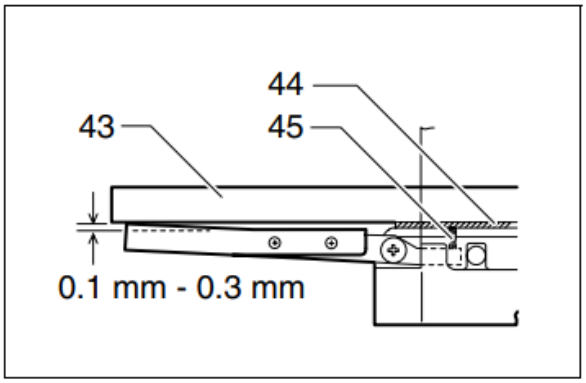

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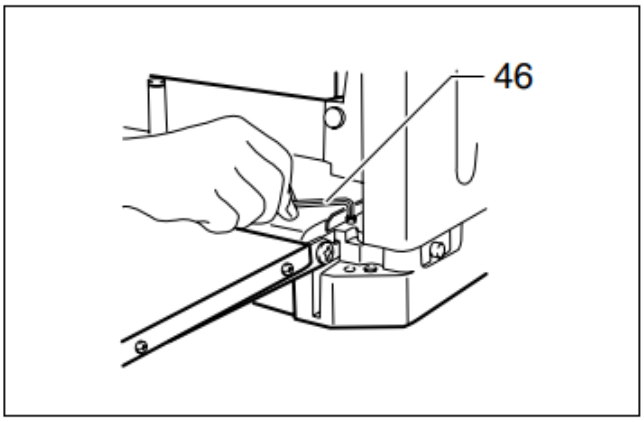

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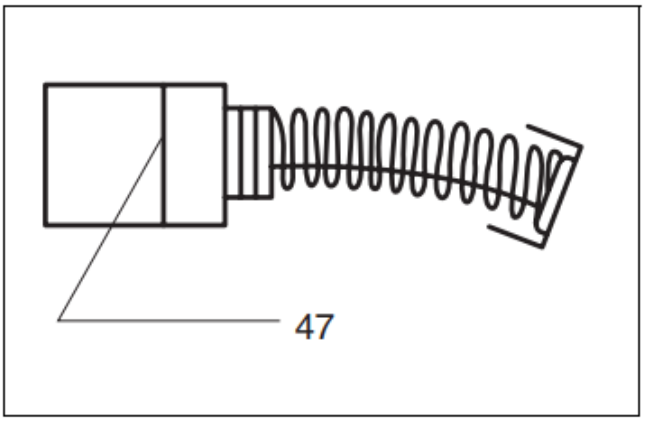

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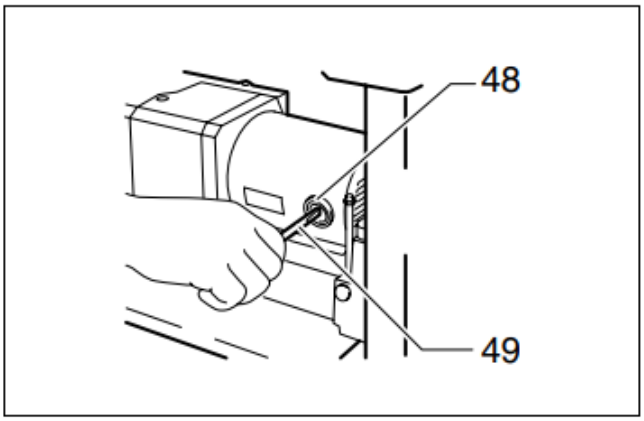

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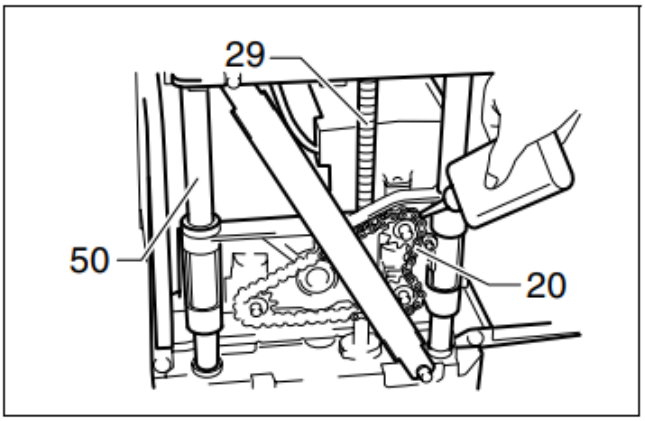

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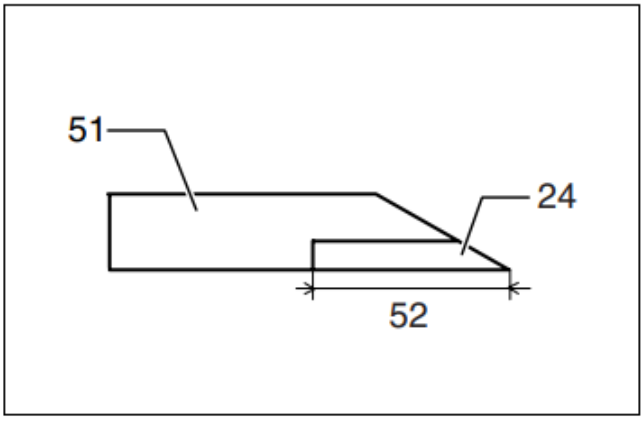


29

Symbols

The followings show the symbols used for the tool. Be sure that you understand their meaning before use.

❑ Read instruction manual.

❑ DOUBLE INSULATION

ENGLISH

Explanation of general view

1 Carrying handle
2 Sub-table
3 Bolt or screw
4 Pilot lamp
5 Switch
6 Crank handle
7 Scale
8 Main frame
9 Indicator plate
10 Depth gauge
11 Groove
12 Depth adjusting gauge
13 Stopper
14 Stopper button
15 Stopper knob
16 Table top
17 Lock plate
18 Pulley
19 Drum
20 Chain
21 Thumb screw
22 Blade installation bolt
23 Set plate
24 Blade
25 Claw
26 Magnetic holder
27 Socket wrench
28 Blade installation bolt
29 Screw
30 Blade gauge
31 Hood set
32 Chip cover
33 Rubber cap
34 Leg
35 Stay (B)
36 Stay (A)
37 Hex nut
38 Spring washer
39 Cap square neck bolt
40 Hex bolt
41 Flat washer
42 Bolt
43 Ruler
44 Post card
45 Adjusting screw
46 Hex wrench
47 Limit mark
48 Brush holder cap
49 Screwdriver
50 Column
51 Base
52 More than 4 mm

SPECIFICATION

Model	2012NB
Cutting width	304 mm
Max. cutting depth	3.0 mm of stock width less than 150 mm 1.5 mm of stock width from 150 mm to 240 mm 1.0 mm of stock width from 240 mm to 304 mm
Feed rate (min^{-1})	8.5 m
Table size (W x L)	304 mm x 771 mm
No load speed (min^{-1})	8,500
Overall length (W x L x H)	483 mm x 771 mm x 401 mm
Net weight	27 kg
safety class	⧈/II

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

Intended use
The tool is intended for planing wood.

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.

For public low-voltage distribution systems of between 220 V and 250 V
Switching operations of electric apparatus cause voltage fluctuations. The operation of this device under unfavorable mains conditions can have adverse effects to the operation of other equipment. With a mains impedance equal or less than 0.38 Ohms it can be presumed that there will be no negative effects.
The mains socket used for this device must be protected with a fuse or protective circuit breaker having slow tripping characteristics.

Safety hints
For your own safety, please refer to the enclosed safety instructions.

ADDITIONAL SAFETY RULES

ENB065-1

1. **Wear eye protection.**
2. **Wear suitable personal protective equipment when necessary, such as hearing protection (ear plugs), respiratory protection (dust mask) and gloves when handling rough material.**
3. **Do not use the tool in the presence of flammable liquids or gases.**
4. **Make sure that all covers are installed in place before operation.**
5. **Handle the blades very carefully.**
6. **Check the blades carefully for cracks or damage before operation. Replace cracked or damaged blades immediately.**
7. **Tighten the planer blade installation bolts securely.**
8. **Remove nails and clean the workpiece before cutting. Nail, sand or foreign matter can cause blade damage.**
9. **Do not remove chips from the chip chute when the motor is running. Clean out chips after the blades come to a complete stop. Always use a stick etc. when cleaning them out.**
10. **Do not leave the tool running.**
11. **Do not abuse cord. Never yank cord to disconnect it from receptacle. Keep cord away from heat, oil water and sharp edges.**

SAVE THESE INSTRUCTIONS.

INSTALLATION

Movement and transport of thicknesser (Fig. 1)

CAUTION:
- Watch your step when moving the tool.

Fold the sub-tables. Grasp the carrying handles when moving the tool.
When transporting it by vehicle, secure with a rope or other substantial means to prevent tipping or movement.

Positioning the thicknesser (Fig. 2)

Locate the tool in a well lit and level place where you can maintain good footing and balance. Bolt/screw it to the workbench or thicknesser stand (optional accessory) using the bolt holes provided in the base.

FUNCTIONAL DESCRIPTION

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

Switch action (Fig. 3)

CAUTION:
- Before plugging in the tool, always be sure that the tool is switched off. The pilot lamp lights up when the tool is plugged into the power source.

To start the tool, press the ON (I) button. To stop it, press the OFF (O) button.

Dimensional adjustment (Fig. 4)

Lower the main frame by turning the crank handle counterclockwise until the indicator plate points to the scale graduation indicating the desired finished dimension. One full turn of the crank handle moves the main frame 2 mm up or down. The scale has inch graduations on its right side and metric graduations on its left side.

Adjusting depth of cut

The maximum depth of cut differs depending upon the width of workpiece being cut. Refer to the table. When you need to remove more than the amount specified in the table, set the depth of cut shallower than the amount and make two or more passes.

Width of workpiece being cut	Maximum depth of cut
Less than 150 mm	3.0 mm
150 mm – 240 mm	1.5 mm
240 mm – 304 mm	1.0 mm

To adjust the depth of cut, proceed as follows.
Insert the workpiece flat on the table top. Lower the main frame by turning the crank handle counterclockwise. The depth gauge will rise and the amount of gauge rise indicates the depth of cut. **(Fig. 5)**

CAUTION:
- Always lower the main frame when aligning the indicator plate with the graduation indicating the desired finished dimension. If you raise the main frame into the desired finished dimension, additional play in the screw may result. This may cause an undesired finished dimension.
- Always place the workpiece flat on the table top when predetermining the depth of cut. Otherwise, the predetermined depth of cut will differ from actual depth of cut.

Depth adjusting gauge (Fig. 6)

Use the depth adjusting gauge when you need to predetermine the depth of cut more accurately. To do so, proceed as follows.
First, plane the workpiece at the predetermined depth of cut. Measure the thickness of the planed piece to know how much more stock you need to remove.
Turn the depth adjusting gauge on the crank handle until the 0 graduation is aligned with the groove on the tool.
Now turn the crank handle counterclockwise until the graduation for the desired depth of cut is aligned with the groove on the tool.

When you need to remove more than the amount specified in the table mentioned in the “Adjusting depth of cut” section, set the depth of cut shallower than the amount and make two or more passes.

Stopper (Fig. 7)

Use the stopper when you need to plane many workpieces to the same thickness. To do so, proceed as follows.
Turn the crank handle until the indicator plate points to the scale graduation indicating the desired finished dimension.
Depress the stopper button and lower the stopper until it just contacts the table top.
If you need fine adjustment of the stopper, turn the stopper knob.

CAUTION:
- When the stopper is not in use, always raise it to the topmost position. Never force the crank handle when the stopper is in contact with the table top. This may cause tool damage.

ASSEMBLY

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

Replacing blades

CAUTION:
- Handle the blades very carefully when removing or installing the blades to prevent cuts or injury from the blades and to prevent damage to the blades. They are razor-sharp.
- Clean out all chips, dust, pitch or foreign matter adhering to the drum or blades before installing the blades.
- Use blades of the same dimensions and weight, or drum oscillation/vibration will result, causing poor cutting action and eventually, tool breakdown.
- Replace both blades at the same time.
- The disposable-type blade has a cutting edge on both sides. When one cutting edge becomes dull, you can use the other cutting edge. Always remove resin and dirt sticking to the reverse side of the blade before using the other cutting edge. This blade must not be re-sharpened. When both cutting edges become dull, the blade should be carefully thrown away.

1. **Removing blades**

   Loosen the thumb screw which secures the chip cover and remove the chip cover. Remove the screws which secure the right side cover. Then remove the right side cover. Turn the pulley until the drum can be locked in the position whereby the blade installation bolts face upward. **(Fig. 8)**

   For throw away blades only

   Place the two magnetic holders on the set plate and push them in the direction of the arrow until the claw contact the blade. Remove the six blade installation bolts using the socket wrench. Grip the magnetic holders and raise them straight up to remove the set plate and the blade from the drum. Press the lock plate and turn the pulley 180° to lock the drum.

   For standard blades only

   Remove the six installation bolts using the socket wrench. Raise the set plate and blade straight up to remove them from the drum. Press the lock plate and rotate the drum by turning the pulley 180° to lock the drum. Remove the other blade as described above. Remove the set plate from the blade. **(Fig. 11 & 12)**

2. **Installing blades**

   CAUTION:
   - Use only Makita socket wrench provided to tighten the blade installation bolts. The use of any other socket wrench may cause overtightening or insufficient tightening of the bolts, resulting in severe injury.

For throw away blades only

Provide a flat wood block approximately 300 mm long and 100 mm wide. Place the blade and the set plate on the wood block so that the blade locating lug of the set plate rests in the groove of the blade. Adjust the set plate so that both ends of the blade protrude approximately 1 mm beyond the end of the set plate. Place the two magnetic holders on the set plate and push them until the claw contacts the blade. **(Fig. 13)**

Grip the magnetic holder and slip the heel of the set plate into the groove in the drum. Install the blade installation bolts. **(Fig. 9)**

After tightening all the blade installation bolts lightly and evenly from the center to the outside, tighten them completely following the same sequence. Remove the magnetic holders from the set plate.

Install the other blade as described above. Rotate the drum slowly while pressing the lock plate to make sure there is nothing abnormal. Then install the chip cover and the side cover. **(Fig. 10)**

CAUTION:
- Do not tighten the blade installation bolts without the blade locating lug of the set plate correctly resting in the groove of the blade. This may cause damage to the blade and potential injury to the operator.
- Do not turn the tool on with the chip cover removed.
- When installing the chip cover, make sure that the chain is not caught by the chip cover.

For standard blades only

Place the blade on the blade gauge so that the blade edge is perfectly flush with the inside of the front rib (A). Place the set plate on the blade, then gently press the heel of the set plate flush with the back side of the blade gauge (B). Tighten the screws to secure the set plate to the blade.

Slip the heel of the set plate into the groove in the drum. Install the blade installation bolts. **(Fig. 14)**

After tightening all the blade installation bolts lightly and evenly from the center to the outside, tighten them completely following the same sequence. **(Fig. 15)**

Install the other blade as described as above. Rotate the drum slowly while pressing the lock plate to make sure there is nothing abnormal. Then install the chip cover and the side cover. **(Fig. 16)**

CAUTION:
- Tighten the blade installation bolts securely when installing the blades.
- Do not turn the tool on with the chip cover open.
- When installing the chip cover, make sure that the chain is not caught by the chip cover.

Changing type of blade

This tool can accept either throw away blades or standard blades. If you wish to change the type of blade, buy and use the following parts.

Changing from standard blade to throw-away blade		Changing from throw-away blade to standard blade	
Set plate	2 pcs.	Set plate	2 pcs.
Throw-away blade (306 mm)	2 pcs.	Pan head screw M 4 x 6	4 pcs.
Magnetic holder	2 pcs.	Standard blade	2 pcs.
		Blade gauge	1 pc.

Hood set (Fig. 17)

When you wish to maintain clean operations through easy dust collection, connect the vacuum cleaner to the thicknesser using this hood.
Loosen the thumb screws which secure the chip cover. Attach the hood to the thicknesser and secure the chip cover and the hood together by tightening the thumb screws.

CAUTION:
- When installing the hood set, make sure that the chain is not caught by the chip cover or hood set. **(Fig. 18)**

Stand (optional accessory)

Place the stays on a level location and assemble the legs inside. Secure with the cap square neck bolts, spring washers and hex nuts, then attach the rubber caps to the ends of the legs.
Now set the thicknesser on the top of the assembled stand and secure with the four hex bolts, flat washers and hex nuts. **(Fig. 19)**

NOTE:
- Insert the hex bolts through the holes from the reverse side of the stand and secure them with the flat washers and hex nuts. If you insert the hex bolts from above the thicknesser base, the hex bolts cannot be firmly secured. **(Fig. 20)**

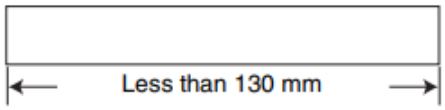
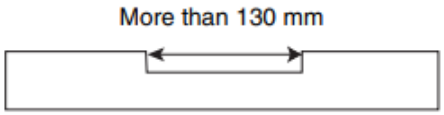
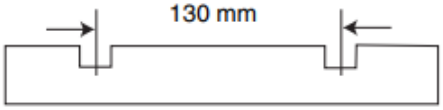
The stand should be bolted with the four bolts to the floor using the bolt holes provided in the legs. **(Fig. 21)**

OPERATION

CAUTION:
- Two or more pieces of narrow but similar thickness stock can be passed through the thicknesser side by side. However, allow some spacing between the stock to permit the feed rollers to grip the thinnest piece of stock. Otherwise, a slightly thinner piece could be kicked back by the cutterhead.

Place the workpiece flat on the table top.
Determine the depth of cut as described before.
Switch on the tool and wait until the blades attain full speed. The workpiece should not be in contact with the feed roller when you turn the tool on.
Then insert the workpiece flush with the table top.
When cutting a long or heavy workpiece, lift up its end slightly at the start and the end of the cut to avoid gouging or snipping at the extreme ends of the workpiece.
The use of the tool top enables quick, effortless return of the workpiece to the infeed table side. This is especially convenient with two operators. **(Fig. 22)**

CAUTION:
- The workpiece with the following dimensions cannot be fed into the tool because the interval between two feed rollers is 129 mm. Do not try to cut them. **(Fig. 23)**

1		Less than 130 mm long
2		Having a groove more than 130 mm wide
3		Having grooves at intervals of 130 mm wide

- Stop the tool when the workpiece has stalled. Allowing the tool to run with a stalled workpiece causes rapid wearing of the feed rollers.

MAINTENANCE

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

Adjusting height of sub-table (Fig. 24 & 25)

The height of sub-table is factory-adjusted. If further adjustment is necessary, proceed as follows.
Place a postcard on the table and also place a ruler on the postcard. Turn the adjusting screw with the hex wrench until the end of the sub-table contacts the ruler. Now the end of the sub-table is from 0.1 mm to 0.3 mm above the table surface.

Replacing carbon brushes (Fig. 26 & 27)

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.
Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.

Keeping blades sharp

Dull blades can cause rough finish, an overload of the motor and dangerous kickback of the workpiece. Replace dull blades immediately.

Lubrication (Fig. 28)

Oil the chain (after removing the side cover R), the four columns and the screws for elevating the main frame. This periodic lubrication should be performed with machine oil.

CAUTION:
- Oiling and all maintenance should be done with the tool turned off and unplugged.

Cleaning

Always brush off dirt, chips and foreign matter adhering to the roller surfaces, motor vents and drums.

Limit for re-sharpening of standard blade (Fig. 29)

Do not use the standard blade whose blade length is under 4 mm.

To maintain product SAFETY and RELIABILITY, repairs, 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.

- Magnetic holder
- Throw-away blade
- Standard blade
- Blade gauge
- Socket wrench 9
- Hex wrench 2.5
- Hood set
- Stand

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