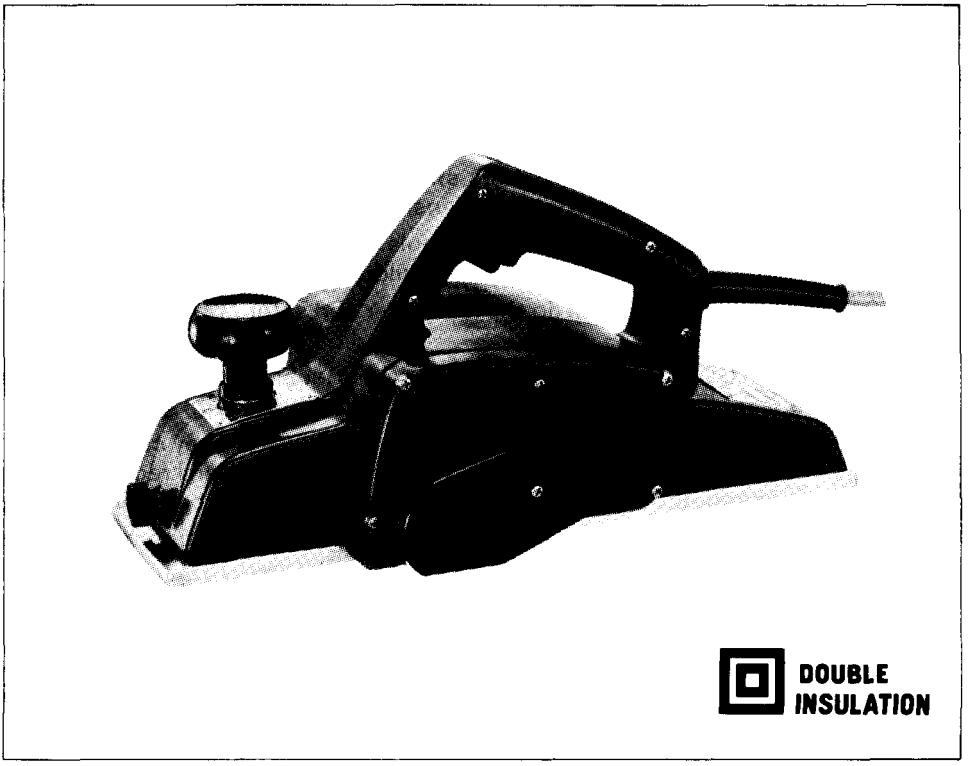
アメリカ

Makita Power Planer

110 mm (4-3/8") MODEL 1911B

INSTRUCTION MANUAL



SPECIFICATIONS

Planing width	Planing depth	No load speed (RPM)	Overall length	Net weight
110 mm (4-3/8")	2 mm (1/16")	16,000	355 mm (14")	4.2 kg (9.3 lbs)

* Manufacturer reserves the right to change specifications without notice.
* Note: Specifications may differ from country to country.

IMPORTANT SAFETY INSTRUCTIONS

(For All Tools)

WARNING: WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS.

1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.
2. CONSIDER WORK AREA ENVIRONMENT. Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain. Don't use tool in presence of flammable liquids or gases.
3. KEEP CHILDREN AWAY. All visitors should be kept away from work area. Don't let visitors contact tool or extension cord.
4. STORE IDLE TOOLS. When not in use, tools should be stored in dry, and high or locked-up place — out of reach of children.
5. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was intended.
6. USE RIGHT TOOL. Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended.
7. DRESS PROPERLY. Don't 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.
8. USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty.
9. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
10. SECURE WORK. Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
11. DON'T OVERREACH. Keep proper footing and balance at all times.
12. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool 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.
13. DISCONNECT TOOLS. When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.

14. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
15. AVOID UNINTENTIONAL STARTING. Don't carry plugged-in tool with finger on switch. Be sure switch is OFF when plugging in.
16. OUTDOOR USE EXTENSION CORDS. When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
17. STAY ALERT. Watch what you are doing, use common sense. Don't operate tool when you are tired.
18. CHECK DAMAGED PARTS. Before further use of the tool, 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 authorized service center. Don't use tool if switch does not turn it on and off.
19. GUARD AGAINST ELECTRIC SHOCK. Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
20. REPLACEMENT PARTS. When servicing, use only identical replacement parts.

VOLTAGE WARNING: Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in SERIOUS INJURY to the user — as well as damage to the tool. If in doubt, DO NOT PLUG IN THE TOOL. Using a power source with voltage less than the nameplate rating is harmful to the motor.

ADDITIONAL SAFETY RULES

1. Rags, cloth, cord, string and the like should never be left around the work area.
2. Avoid cutting nails. Inspect for and remove all nails from the workpiece before operation.
3. Handle the blades very carefully.
4. Be sure the blade installation bolts are securely tightened before operation.
5. Hold the tool firmly with both hands.
6. Keep hands away from rotating parts.
7. Before using the tool on an actual workpiece, let it run for a while. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced blade.
8. Make sure the blade is not contacting the workpiece before the switch is turned on.
9. Wait until the blade attains full speed before cutting.
10. Keep at least 200 mm (8'') away from the tool at all times.
11. Always switch off and wait for the blades to come to a complete stop before any adjusting.
12. Never stick your finger into the chip chute. Chute may jam when cutting damp wood. Clean out chips with a stick.
13. Do not leave the tool running. Operate the tool only when hand-held.
14. When leaving the planer, switch off and set it with the front base up on a wooden block, so that the blades do not contact anything.
15. Always change both blades or covers on the drum, otherwise the resulting imbalance will cause vibration and shorten tool life.

SAVE THESE INSTRUCTIONS.

Removing or installing planer blades

CAUTION:

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

The blade is secured with four bolts. Remove the inner two bolts entirely with the socket wrench and loosen the outer two bolts two turns each.

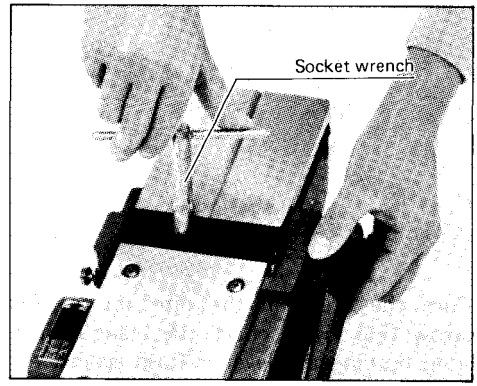


Fig. 1

Press down on the pin in the middle of the drum with one end of the socket wrench handle. The blade can be pushed and jiggled out so as to be removed. (If the blade becomes so short that it cannot be grasped, you must remove the four bolts and the drum cover. Then push the blade out with one end of the socket wrench handle.)

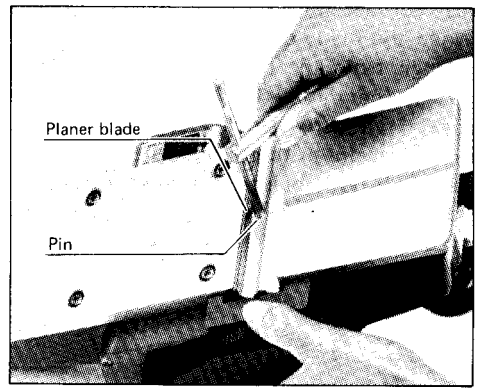


Fig. 2

To install the blades, first clean out all chips or foreign matter adhering to the drum or blades. Use blades of the same dimensions and weight, or drum oscillation/vibration will result, causing poor planing action and, eventually, tool breakdown.

Insert the blade, holding both ends, so that it protrudes from between the blade holder and the drum. Then secure the four bolts only finger-tight.

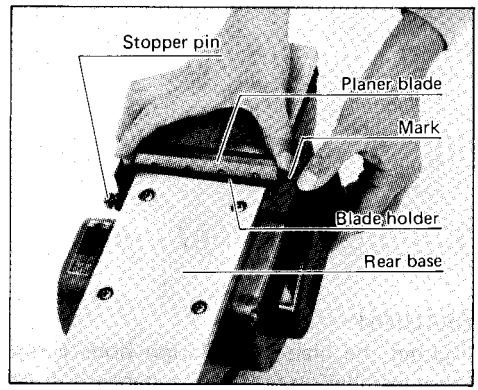


Fig. 3

Align the blade edge with the mark and make the drum stationary by means of the stopper pin. Place the leveller over the rear base and blade, and press the leveller down slightly. Release the stopper pin.

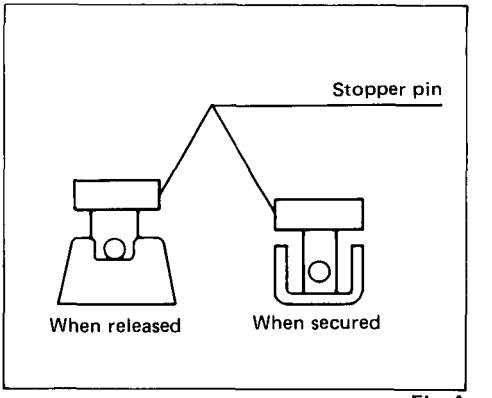


Fig. 4

Turn the drum in the direction of the arrow (Fig. 6) to check the blade protrusion, holding the leveller flush against the blade and rear base. The blade edge should just contact the underside of the leveller. When the blade edge does not protrude far enough from the base, press down on the pin in the middle of the drum with the socket wrench handle, and adjust the blades again as mentioned above. After adjusting both blades, tighten the four installation bolts evenly and alternately with the socket wrench.

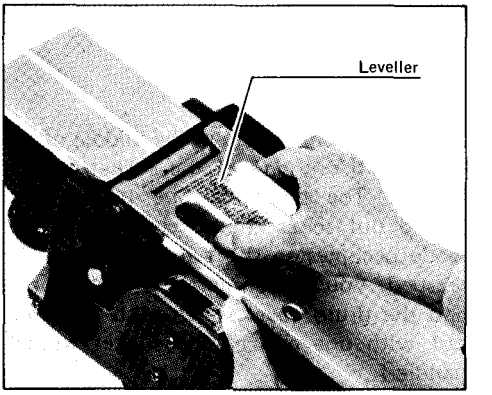


Fig. 5

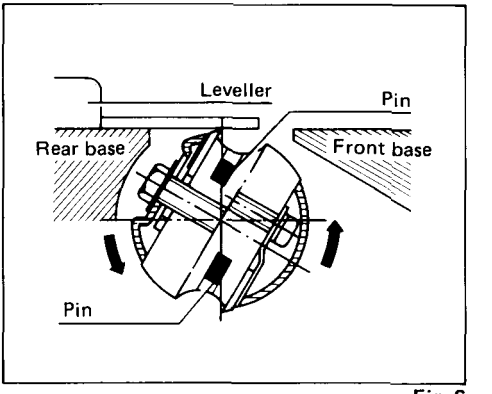


Fig. 6

CATUION:

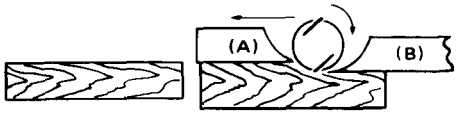
Tighten the blade installation bolts carefully when attaching the blades to the tool. A loose installation bolt can be dangerous. Always check to see they are tightened securely.

For the correct planer blade setting

Your planing surface will end up rough and uneven, unless the blade is set properly and securely. The blade must be mounted so that the cutting edge is absolutely level, that is, parallel to the surface of the rear base. Below are some examples of proper and improper settings.

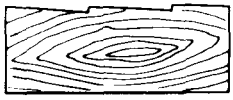
(A) Front base (Movable shoe)
(B) Rear base (Stationary shoe)

Corret setting



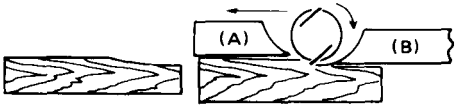
Although this side view cannot show it, the edges of the blades run perfectly parallel to the rear base surface.

Nicks in surface



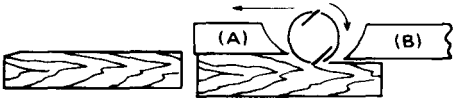
Cause: One or both blades fails to have edge parallel to rear base line.

Gouging at start



Cause: One or both balde edges fails to protrude enough in relation to rear base line.

Gouging at end



Cause: One or both blade edges protrudes too far in relation to rear base line.

Adjusting depth of cut

Depth of cut may be adjusted by simply turning the knob on the front of the tool.

Fig. 7

Switch action

To start the tool, simply pull the trigger. Release the trigger to stop. For continuous operation, pull the trigger and then push in the lock button. To stop the tool from the locked position, pull the trigger fully, then release it.

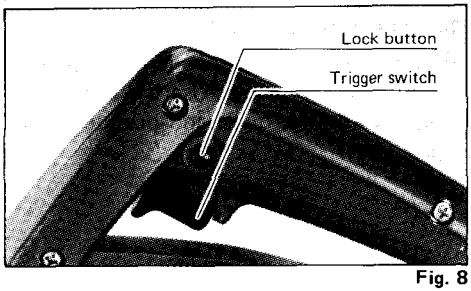


Fig. 8

CAUTION:

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

Planing operation

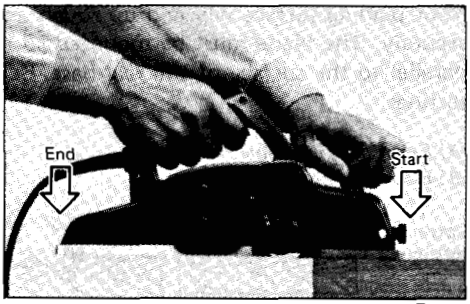
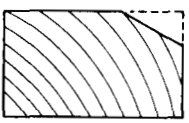


Fig. 9

First, rest the tool front base flat upon the workpiece surface without the blades making any contact. Switch on and wait until the blades attain full speed. Then move the tool gently forward. Apply pressure on the front of tool at the start of planing, and at the back at the end of planing. Planing will be easier if you incline the workpiece in stationary fashion, so that you can plane somewhat downhill. The speed and depth of cut determine the kind of finish. The power planer keeps cutting at a speed that will not result in jamming by chips. For rough cutting, the depth of cut can be increased, while for a good finish you should reduce the depth of cut and advance the tool more slowly.

Chamfering



To make a cut as shown at the right, align the "V" groove in the front base with the edge of the workpiece and plane it as shown in the figure (A).

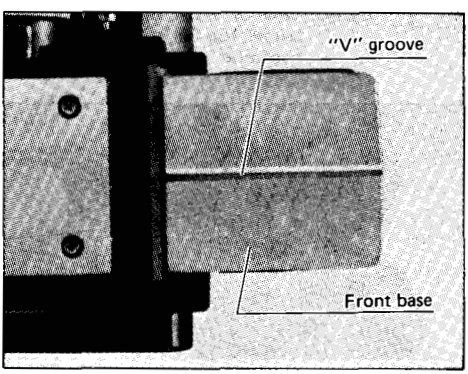


Fig. 10

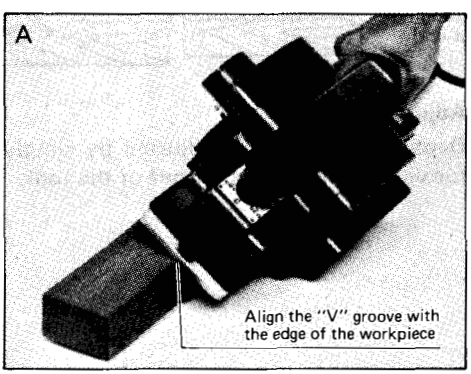


Fig. 11

Sharpening planer baldes

Always keep your blades sharp for the best performance possible. Use the sharpening holder to remove nicks and produce a fine edge.

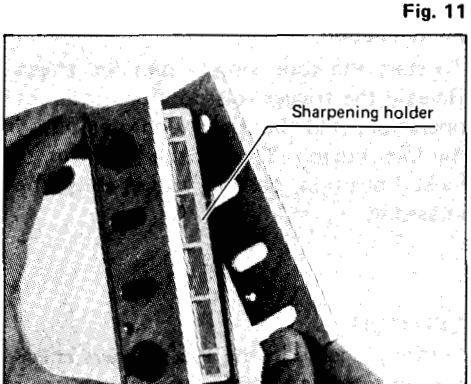


Fig. 12

First, loosen the two wing nuts on the holder and insert the blades (A) and (B) so that they contact the sides (C) and (D). Then tighten the wing nuts.

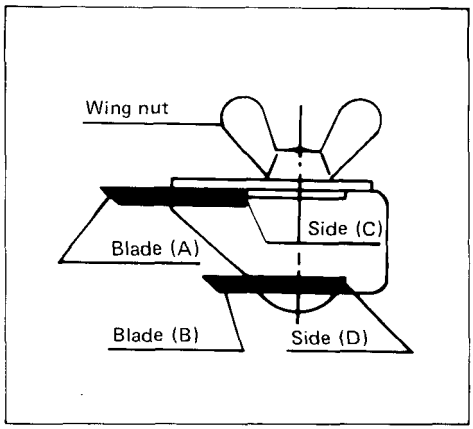


Fig. 13

Immerse the dressing stone in water for 2 or 3 minutes before sharpening. Hold the holder so that the blades both contact the dressing stone for simultaneous sharpening at the same angle.

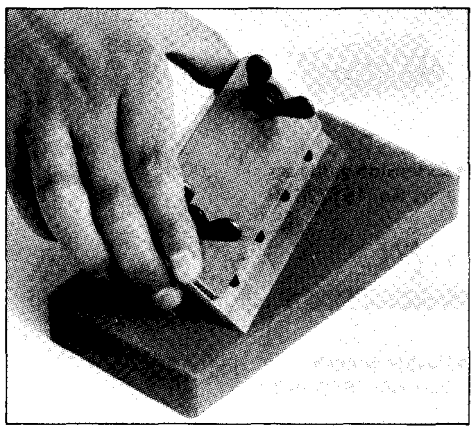


Fig. 14

MAINTENANCE

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

The tool will stop when the carbon brushes wear to a certain length. When this occurs, both carbon brushes should be replaced.

To maintain product SAFETY and RELIABILITY, repairs, carbon brush inspection and replacement, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

ACCESSORIES

CAUTION:

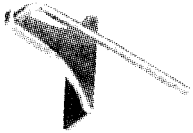
These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. The accessories or attachments should be used only in the proper and intended manner.

- **Planer blade**
  Width: 110 mm (4-3/8")
  Part No. 793008-8

- **Planer blade**
  (Material: Tungsten-carbide)
  Width: 110 mm (4-3/8")
  Part No. 793009-6

- **Dressing stone**
  Part No. 794061-7

- **Guide rule**
  Part No. 164371-0



- ***Extension guide set***
  Part No. 191725-8

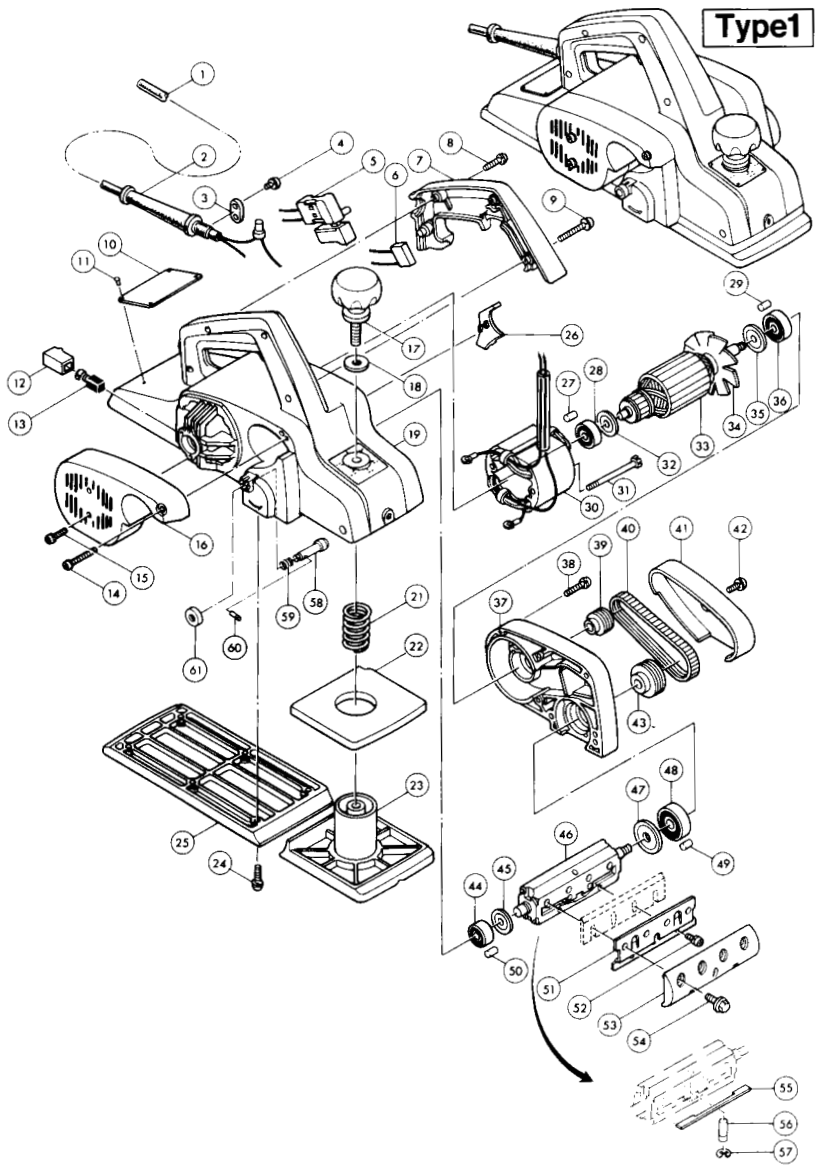
- **Sharpening holder assembly**
  Part No. 123055-9

- **Socket wrench**
  Part No. 782209-3

- **Screwdriver**
  Part No. 783002-8

- **Cutter leveller**
  Part No. 155270-7

110 mm (4-3/8'') POWER PLANER Model 1911B



Note: The switch, noise suppressor and other part configurations may differ from country to country.

アメリカ

ITEM NO.	NO. USED	DESCRIPTION
MACHINE		
1	1	Cord
2	1	Cord Guard
3	1	Strain Relief
4	2	Pan Head Screw M4x18 (With Washer)
5	1	Switch
7	1	Handle Cover
8	3	Pan Head Screw M4x40 (With Washer)
9	1	Pan Head Screw M4x30 (With Washer)
10	1	Name Plate
11	4	Rivet 0-5
12	2	Brush Holder
13	2	Carbon Brush
14	1	Pan Head Screw M4x40 (With Washer)
15	2	Pan Head Screw M4x14 (With Washer)
16	1	Rear Cover
17	1	Knob 50
18	1	Flat Washer 10
19	1	Main Frame
21	1	Compression Spring 18
22	1	Rubber Packing
23	1	Front Base
24	6	Pan Head Screw M5x20 (With Washer)
25	1	Rear Base
26	1	Baffle Plate
27	1	Rubber Pin 4
28	1	Ball Bearing 608LLB
29	1	Rubber Pin 4
30	1	FIELD ASSEMBLY
31	2	Hex. bolt M5x65 (With Washer)
32	1	Insulation Washer
MACHINE		
33	1	ARMATURE ASSEMBLY (With Items 28 & 32 - 36)
34	1	Fan 68
35	1	Dust Seal 10
36	1	Ball Bearing 6200LLB
37	1	Bracket
38	6	Pan Head Screw M4x30 (With Washer)
39	1	V-Pulley 4-24L
40	1	Poly V-Belt 4-272
41	1	Belt Cover
42	1	Pan Head Screw M4x16 (With Washer)
43	1	V-Pulley 4-38
44	1	Ball Bearing 6000ZZ
45	1	Washer 10
46	1	Drum
47	1	Washer 12
48	1	Ball Bearing 6201ZZ
49	1	Rubber Pin 6
50	1	Rubber Pin 4
51	2	Blade Holder
52	4	Pan Head Screw M4x8 (With Washer)
53	2	Drum Plate
54	8	Hex. Flange Head Bolt M6x17
55	1	Leaf Spring
56	1	Pin
57	1	Stop Ring E-3
58	1	Stopper Pin
59	1	Compression Spring 5
60	1	Pin 2
61	1	Nut M4-12

Note: The switch and other part specifications may differ from country to country.

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one-year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centers. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply where:

- repairs have been made or attempted by others;
- repairs are required because of normal wear and tear;
- The tool has been abused, misused or improperly maintained;
- alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND "FITNESS FOR A SPECIFIC PURPOSE," AFTER THE ONE-YEAR TERM OF THIS WARRANTY.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

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