

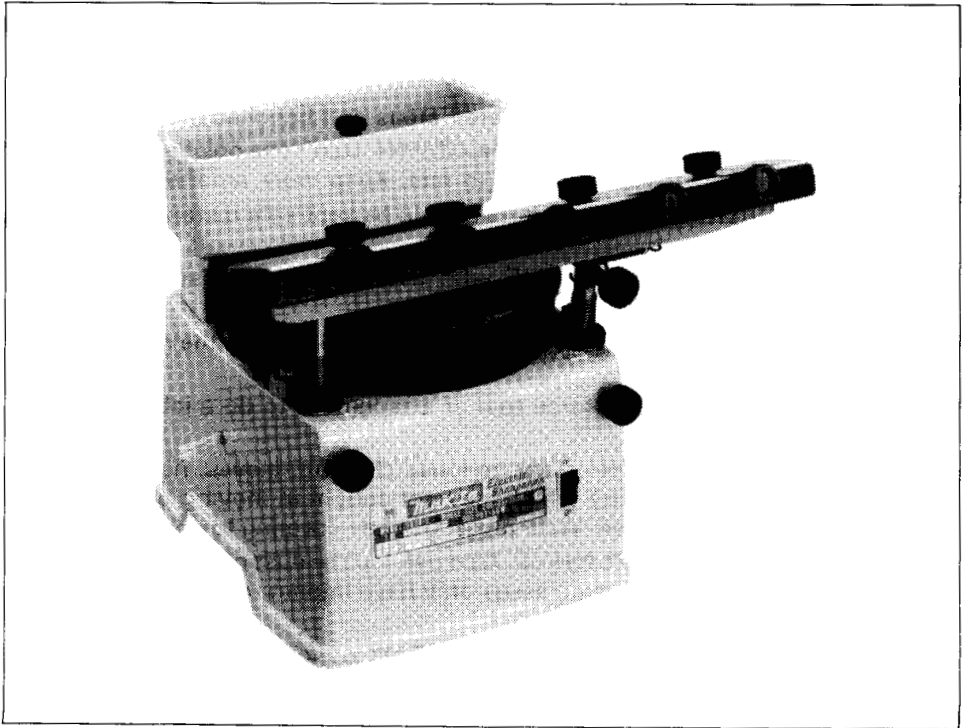
Makita

アメリカ

Sharpener

200 mm (7-7/8") MODEL 9820-2

INSTRUCTION MANUAL



SPECIFICATIONS

Wheel size	No load speed	Overall length	Net weight
200 mm x 25 mm x 75 mm (7-7/8" x 1" x 3")	560 R/min.	390 mm (15-3/8")	11 kg (24.3 lbs)

* Manufacturer reserves the right to change specifications without notice.

* Note: Specifications may vary from country to country.

BEFORE CONNECTING YOUR TOOL TO A POWER SOURCE

**Be sure you have read all
GENERAL POWER TOOL SAFETY RULES**

GENERAL SAFETY PRECAUTIONS (For All Tools)

1. **KNOW YOUR POWER TOOL.** Read the owner's manual carefully. Learn the tools applications and limitations, as well as the specific potential hazards peculiar to it.
2. **KEEP GUARDS IN PLACE** and in working order.
3. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
4. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
5. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
6. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
7. **MAKE WORKSHOP KID PROOF** with padlocks, master switches, or by removing starter keys.
8. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
9. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.
10. **WEAR PROPER APPAREL.** Wear no loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
11. **ALWAYS USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
12. **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
13. **DON'T OVERREACH.** Keep proper footing and balance at all times.
14. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. **DISCONNECT TOOLS** before servicing; when changing accessories such as blades, bits, cutters, and the like.
16. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.

17. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
18. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
19. **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.
20. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.
22. **PROPER GROUNDING.** This tool should be grounded while in use to protect the operator from electric shock.
23. **EXTENSION CORDS:** Use only three-wire extension cords which have three-prong grounding-type plugs and three-pole receptacles which accept the tool's plug. Replace or repair damaged or worn cord immediately.

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.

GROUNDING INSTRUCTIONS

ALL GROUNDED, CORD-CONNECTED TOOLS: In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

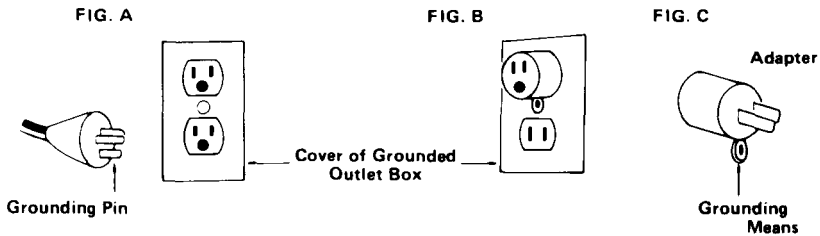
Do not modify the plug provided — if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in Figure A. The tool has a grounding plug that looks like the plug illustrated in Figure A. A temporary adapter, which looks like the adapter illustrated in Figure B and C, may be used to connect this plug to a 2-pole receptacle as shown in Figure B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, etc. extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

GROUNDING METHODS



ADDITIONAL SAFETY RULES

1. Use only wheels having a maximum operating speed at least as high as "No Load RPM" marked on the tool's nameplate.
2. Check the wheel carefully for cracks or damage before operation. Replace cracked or damaged wheel immediately.
3. Secure the wheel carefully.
4. Be careful not to damage the spindle or the bolt, or the wheel itself might break.
5. Keep a space of 5 mm (3/16") between the sharpening platform guide (rail) and the grinding wheel.
6. Keep hands away from rotating parts.
7. Make sure the workpiece is not contacting the wheel before the switch is turned on.
8. Before using the tool on an actual workpiece, let it run for several minutes. Watch for flutter that might be caused by incorrect installation or a poorly balanced wheel.
9. Use the upper surface of the wheel only. Don't use the side surface.
10. If the wheel stops during operation, makes an odd noise or begins to vibrate, switch off the tool immediately.
11. Always switch off and wait for the wheel to come to a complete stop before adjustment or inspection.
12. Do not touch the workpiece immediately after operation, it may be extremely hot and could burn your skin.
13. Dry the wheel by idling the tool after operation to prevent the wheel from freezing in cold weather. Freezing can crack the wheel.
14. Store wheels in a dry location only.

SAVE THESE INSTRUCTIONS.

WARNING

**For Your Own Safety Read Instruction
Manual Before Operating Grinder**

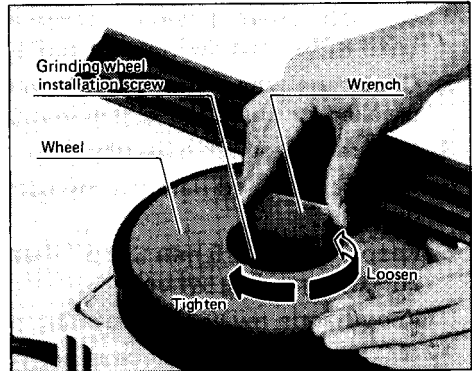
1. Wear eye protection.
2. Use grinding wheel suitable for speed of grinder.
3. Replace cracked wheel immediately.
4. Always use guards and eye shields.
5. Do not overtighten wheel nut.
6. Use only flanges furnished with the grinder.

HOW TO USE

Replacing grinding wheel

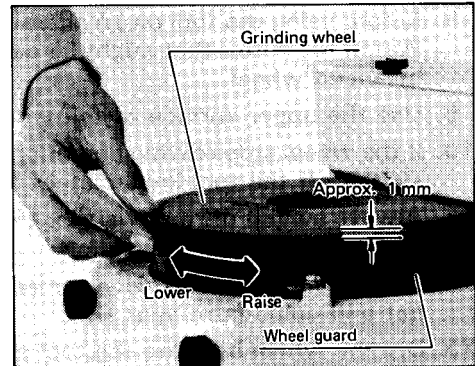
Use the wrench provided to release the grinding wheel by turning the installation screw counterclockwise.

To install the grinding wheel, follow the removal procedure in reverse.



Adjusting wheel guard

The top of the wheel guard should be 1 mm (approx. 1/32") below the surface of the grinding wheel. Adjust height by turning the guard clockwise to lower it, or counterclockwise to raise it.

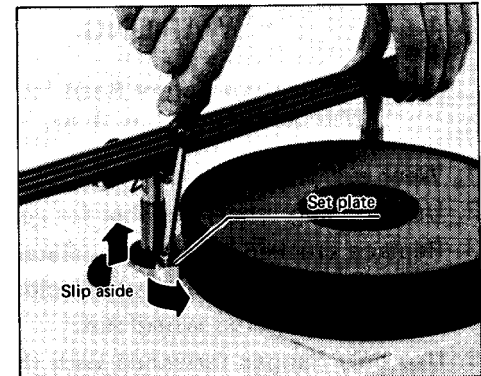


Wiping off the antirust

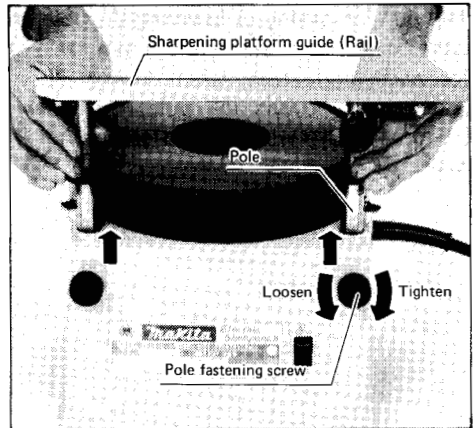
Wipe off the antirust on the sharpening platform guide (rail) and the sharpening holder. Coat the sharpening platform guide and the sharpening holder with machine oil or spindle oil.

Removing or installing sharpening platform guide

To remove the sharpening platform guide, loosen the screw and slip the set plate aside.

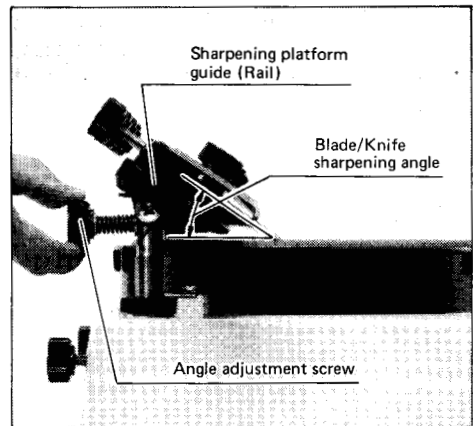


Loosen the pole fastening screws and lift off the sharpening platform guide.
To install the sharpening platform guide, follow the removal procedure in reverse.

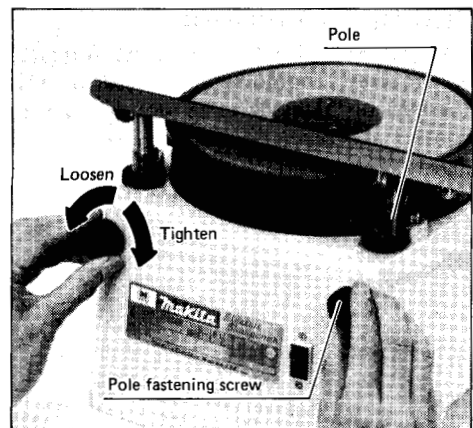


Adjusting sharpening platform guide

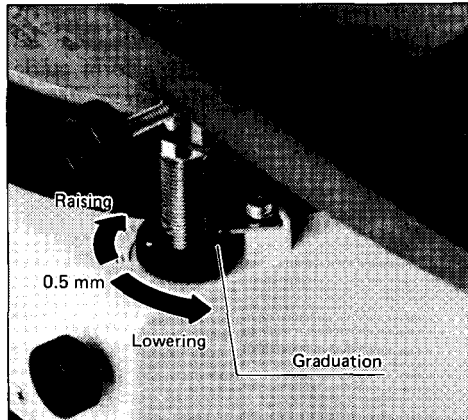
In using the sharpening platform guide to sharpen blade/knife, adjust the angle adjustment screw to the desired blade/knife sharpening angle. The bevel becomes acute as the angle adjustment screw is turned clockwise.



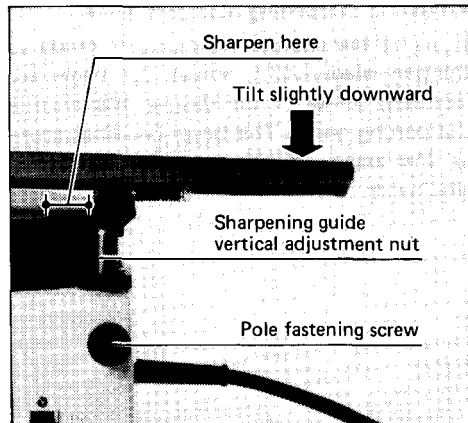
The platform poles are fixed in place by tightening the pole fastening screws on either side.



The nut for raising or lowering the pole on either side raises the pole 0.5 mm (1/32") for each graduation, when turned clockwise, and it lowers the pole, conversely, 0.5 mm (1/32") when turned counterclockwise.

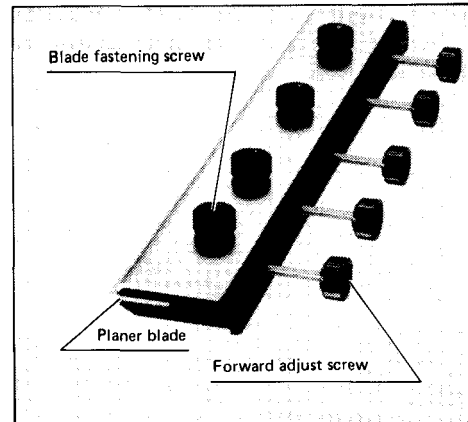


Tilt the sharpening platform guide slightly with right side downward so that the blade contacts the right side surface of the grinding wheel.

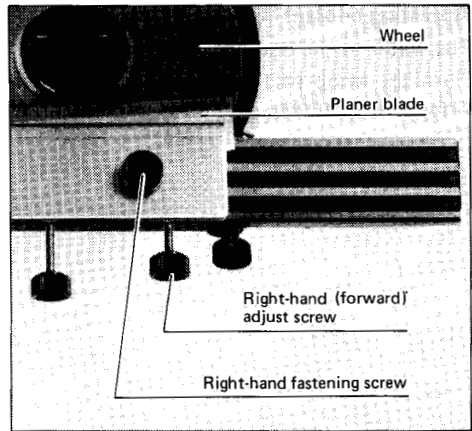


Adjusting sharpening holder

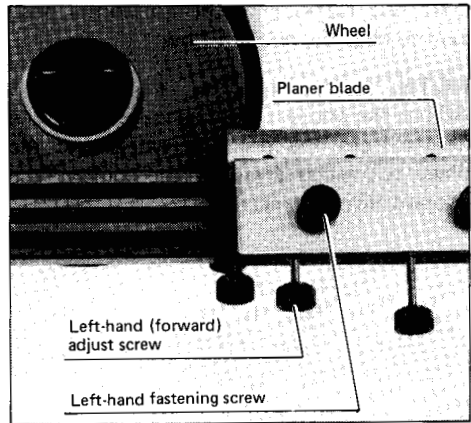
The sharpening holder horizontal (forward) adjust screws should be unscrewed to allow the heel of the blade to be inserted so as to contact the blade fastening screws. Then lightly tighten the blade fastening screws and set the holder on the platform.



Screw in clockwise the forward adjust screw on the right until the right upper edge of the blade comes into contact with the grinding wheel. Then fully tighten the fastening screw on the far right.

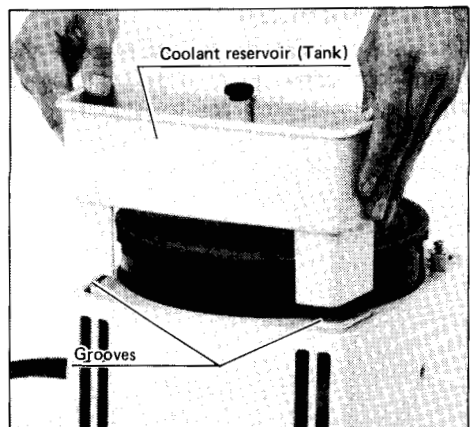


Slide the holder to the right across the sharpening platform guide. Screw in the left-hand forward adjust screw until the left upper edge of the blade contacts the grinding wheel. Now use all four fastening screws to secure the blade on the horizontal.



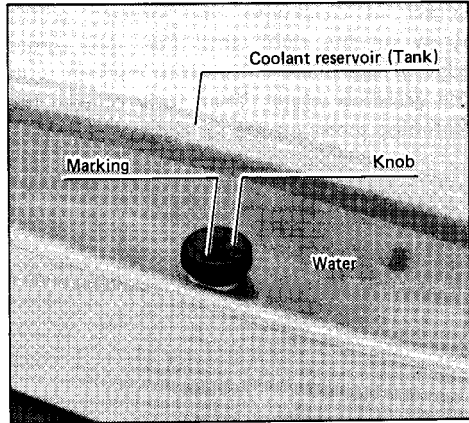
Installing coolant reservoir (Tank)

Insert the reservoir legs into the grooves provided for them on the sharpener frame.



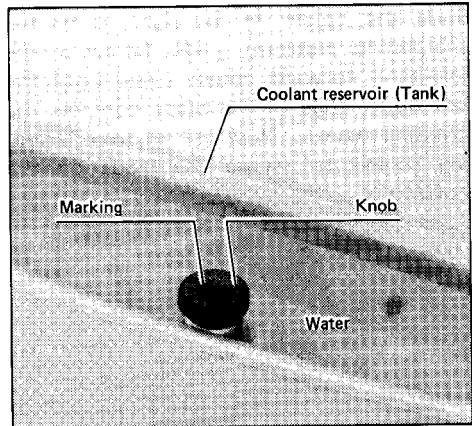
Adjusting coolant flow

Put water in the coolant reservoir.
Turn the knob so that the marking is positioned vertically to make the coolant flow.



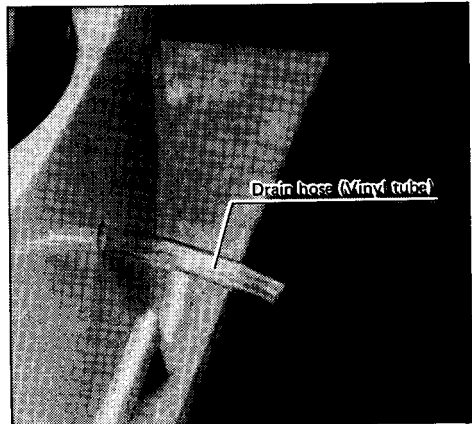
Turn the marking to the horizontal position to stop the coolant flow.

NOTE:
Adjust the coolant flow adequately. If the debris from the grinding wheel and the blade is washed away by the coolant, the coolant flow is excessive.



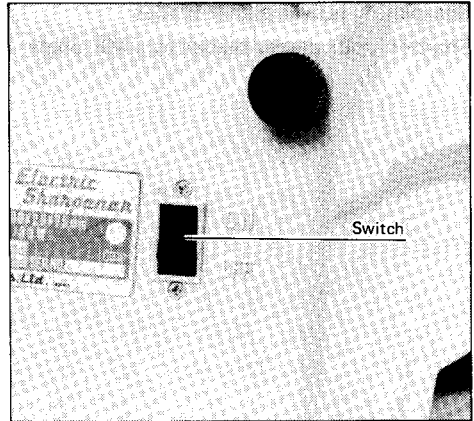
Draining used coolant

The used coolant drains out through the drain hose (vinyl tube) provided. Have a pan or drain system ready to catch it.



Switch action

To start the tool, press the ON side of the switch located on the front of the tool. To turn the tool off, press the OFF side of the switch.

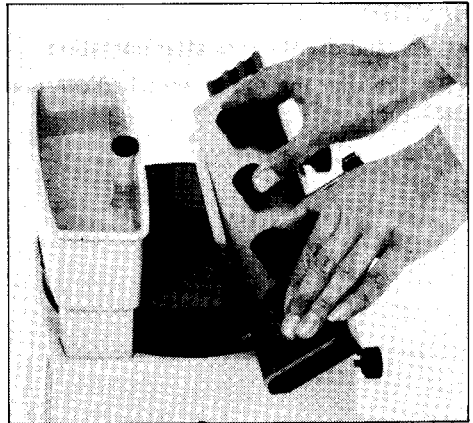


Sharpening blade/knife

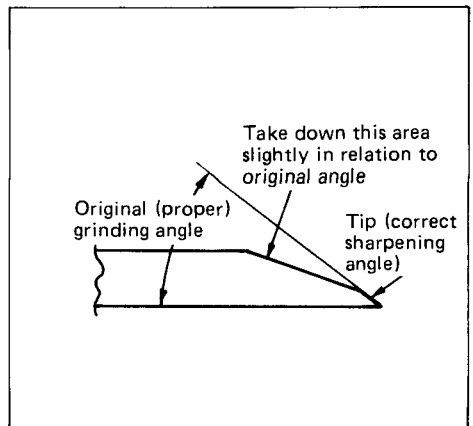
After you have established the correct coolant flow, you can begin sharpening. Sharpen with the cutting edge away from you, holding the sharpening holder with both hands. Slide the sharpening holder back and forth on the sharpening platform guide at a speed of about ten times per minute, applying uniform pressure (about 5 kg; about 11 lbs) on it.

CAUTION:

Always use sharpening platform guide or guide assembly (optional accessory) when sharpening blade/knife.

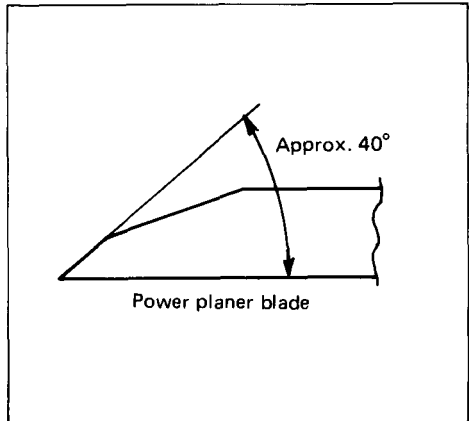


Remove some stock from the tip to the heel in relation to the original grinding angle so as to create a better cutting edge.



Sharpening power planer blades

Sharpen your planer blades to a 40° angle.



CAUTION:

- Clean and dry the tool after operation.
- Be sure that the tool is switched off, unplugged and drained before attempting to move the tool.

MAINTENANCE

CAUTION:

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

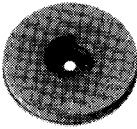
To maintain product SAFETY and RELIABILITY, repairs, any other maintenance and adjustment should be performed by Makita Authorized or Factory Service Centers, always using makita replacement parts.

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.

• Grinding wheels



Size (mm)	Grit	Part No.
200 x 25 x 75 (7-7/8" x 1" x 3")	1000	741070-7
	6000	741071-5
	60	741074-9

• Wrench

Part No. 341391-3

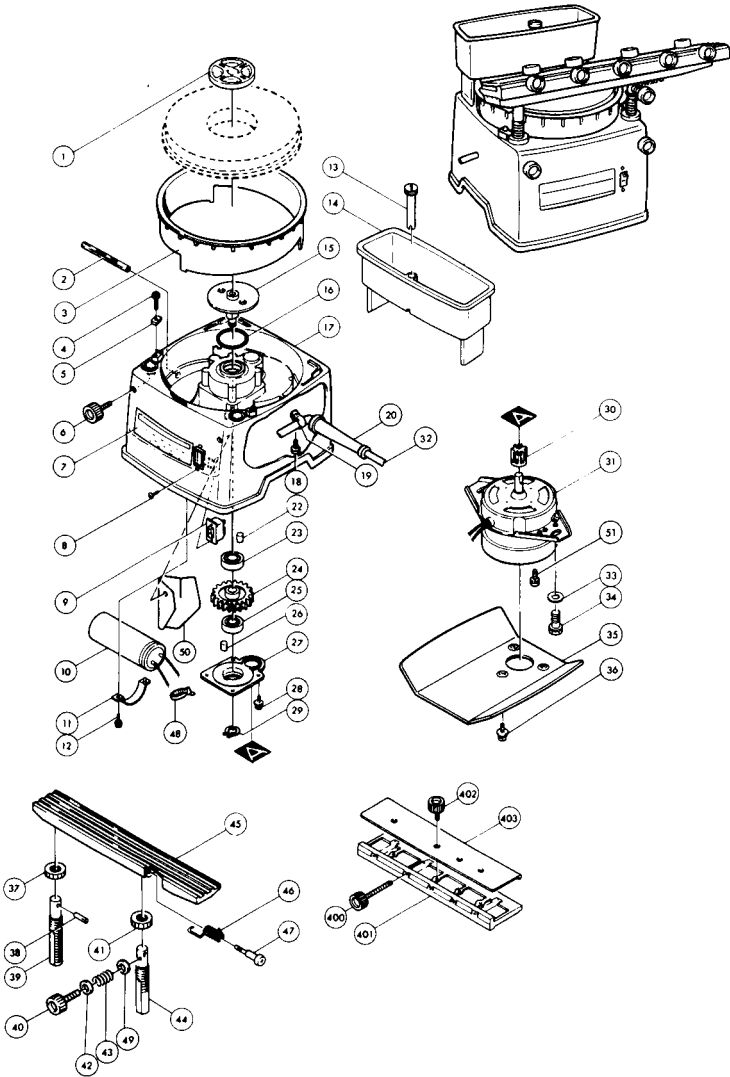


• Guide assembly

(Sharpening platform guide)
For sharpening scissors or knife.
Part No. 132386-5



200 mm (7-7/8") SHARPENER Model 9820-2



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

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
<u>MACHINE</u>			<u>MACHINE</u>		
1	1	Knob 65	30	1	Helical Gear 12
2	1	Vinyl Tube	31	1	Motor
3	1	Wheel Cover	32	1	CORD ASSEMBLY
4	2	Pan Head Screw M5x20 (With Washer)			(Assembled Cord, Plug & Item 20)
5	2	Set Plate	33	2	Flat Washer 10
6	2	Screw M6x31	34	2	Hex. Bolt M10x30 (With Washer)
7	1	Name Plate	35	1	Under Cover
8	2	Countersunk Head Screw M3x6	36	3	Pan Head Screw M4x6 (With Washer)
9	1	Switch	37	1	Wing Nut M16
10	1	Capacitor	38	1	Pin 6
11	1	Capacitor Clamp	39	1	Sub Pole
12	2	Pan Head Screw M5x20 (With Washer)	40	1	Screw M6x41
13	1	Thumb Pipe 20	41	1	Wing Nut M16
14	1	Tank	42	1	Flat Washer 6
15	1	Spindle	43	1	Compression Spring 7
16	1	O Ring 40	44	1	Main Pole
17	1	Frame	45	1	Rail
18	1	Pan Head Screw M4x12 (With Washer)	46	1	Torsion Spring 8
19	1	Strain Relief	47	1	+ Pan Head Screw M6
20	1	Cord Guard	48	1	Band
22	1	Rubber Pin 4	49	1	Flat Washer 6
23	1	Ball Bearing 6202LLB	50	1	Insulation Paper
24	1	Helical Gear 38	51	2	Pan Head Screw M4x8 (With Washer)
25	1	Ball Bearing 6201LLB	400	5	Screw M6x71
26	1	Rubber Pin 4	401	1	Blade Holder 400
27	1	Gear Cover	402	4	Screw M6x18
28	4	Pan Head Screw M5x28 (With Washer)	403	1	Blade Set Plate 400
29	1	Retaining Ring S-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.

Makita Corporation

3-11-8, Sumiyoshi-cho,
Anjo, Aichi 446 Japan

883277 — 062 C

PRINTED IN JAPAN
1991 — 8 — N