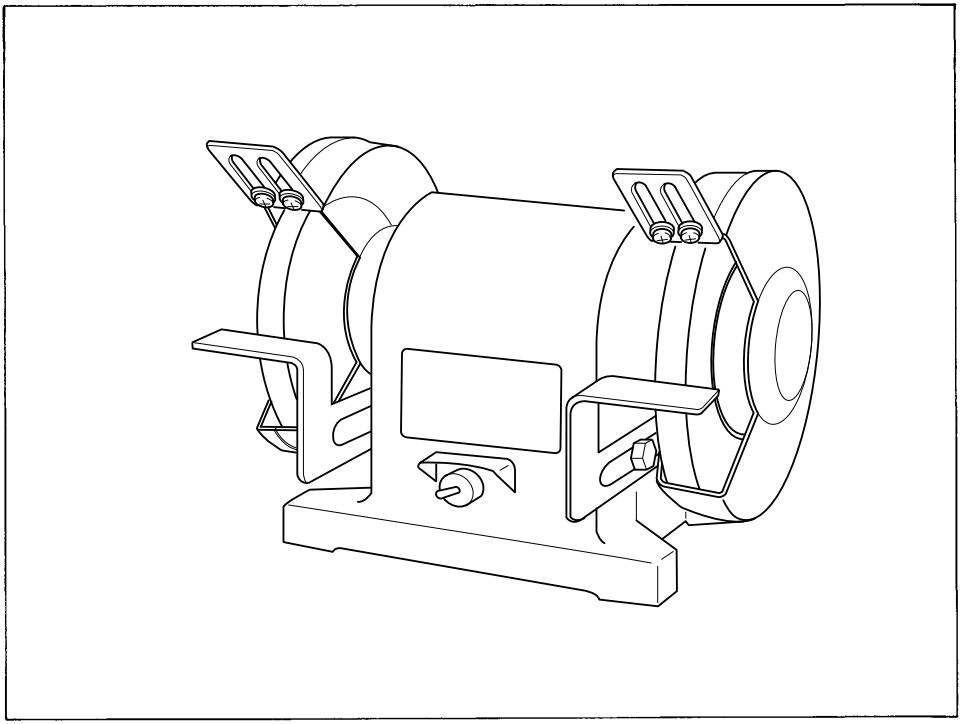
Bench Grinder

205 mm (8") MODEL 9308

INSTRUCTION MANUAL



SPECIFICATIONS

Wheel size	Hz	No load speed (RPM)	H.P.	Overall length	Net weight
205 mm (8") x 19 mm (3/4")	50	3,000	1/2	322 mm (12-5/8")	16 kg (35.2 lbs)
	60	3,600			

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

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.

ADDITIONAL SAFETY RULES

1. Check the wheel carefully for cracks or damage before operation. Replace cracked or damaged wheel immediately.
2. Clean out foreign matter adhering to the spindle, flanges (especially the installing surface) or lock nut before mounting the wheel. When mounting it, be careful not to hit the wheel with something hard, to damage the spindle, flanges (especially the installing surface) or lock nut.
3. Make sure the lock nut is securely tightened before operation.
4. Make sure the wheel cover and side cover are propely secured in place before operation.
5. Wear safety goggles or glasses. When performing dusty operations, also wear a dust mask.
6. Before using the tool on an actual workpiece, let it run for more than one minute. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced wheel.
7. Make sure the workpiece is not contacting the wheel before the switch is turned on.
8. Switch on and wait until the wheel attains full speed before operation.
9. Use the edge of the wheel only. Don't use the side surface.
10. Never use the tool in the vicinity of gasoline, gas, paint, adhesives or other highly explosive substances.
11. Keep hands away from rotating wheels.
12. Stop operation immediately if you notice anything abnormal.
13. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from the receptacle. Keep cord away from heat, oil, water and sharp edges.
14. Store wheels in a dry location only.

SAVE THESE INSTRUCTIONS.

Installing or removing grinding wheel

CAUTION:

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

Remove the screws holding the side covers.

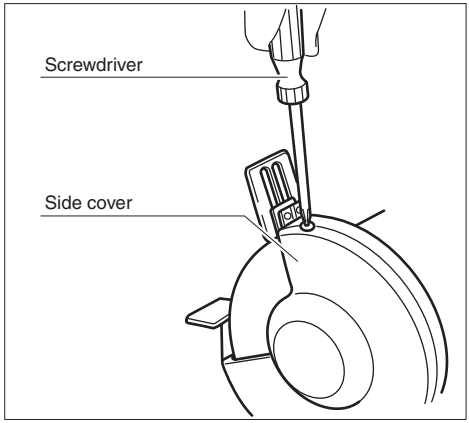


Fig. 1

Insert the screwdriver into the hole in the inner flange so that the wheel cannot revolve and use the wrench to loosen the lock nut. While standing in front of the tool, turn the right lock nut counterclockwise and the left lock nut clockwise. Then remove the lock nut, outer flange and wheel.

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

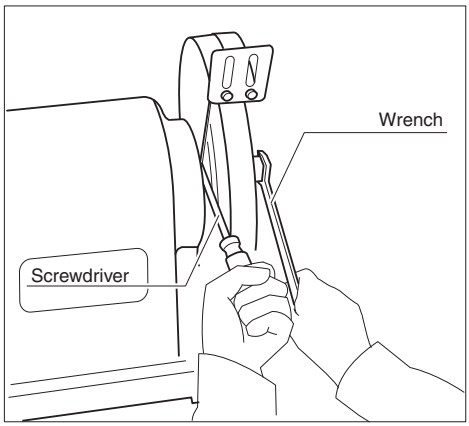


Fig. 2

CAUTION:

After mounting a new wheel, be sure to let the tool run for more than three minutes. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced wheel.

Balancing the grinding wheel

When the grinding wheel only is mounted, the heaviest section will assume the lowest position. Mark this section as in the Fig. 3.

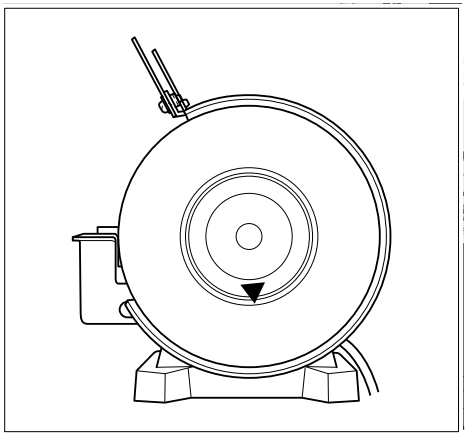


Fig. 3

In this condition (Fig. 3), install the flange and balance weight. The balance weight should be positioned above as seen in the Fig. 4. Then, temporarily tighten the flange with the installing nut.

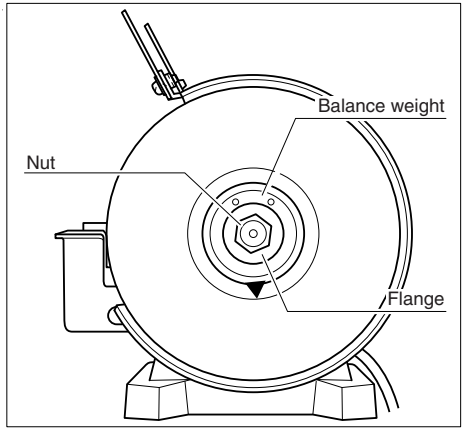


Fig. 4

In condition Fig. 4, move the balance weight so that when the wheel is turned it will not stop at the same place but at ramdom. Then fasten the stop screws on the balance weight and firmly tighten the flange nut.

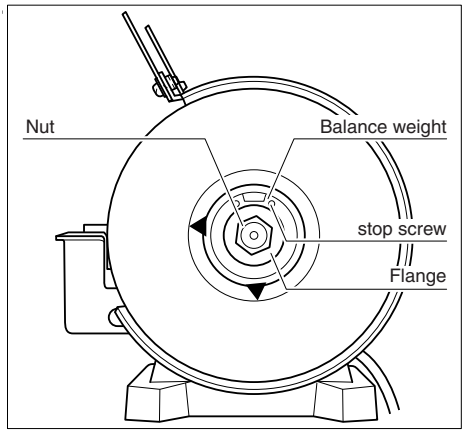


Fig. 5

Adjust plate

Keep a spacer under 10 mm (3/8'') between the adjust plate and the wheel.

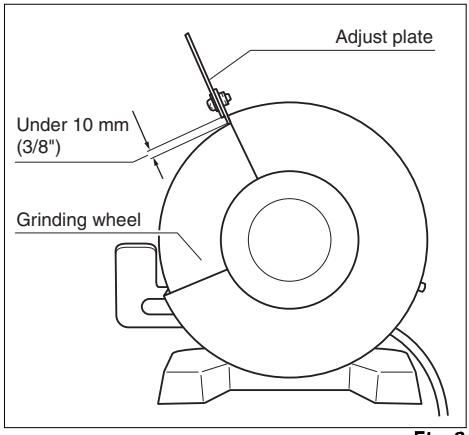


Fig. 6

Switch action

To start the tool, press the ON side of the switch. Press the OFF side to stop.

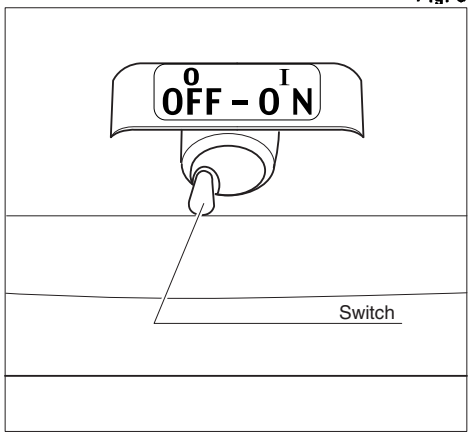


Fig. 7

Operation

Place the workpiece on the tool rest and hold it firmly.

MAINTENANCE

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

Dressing grinding wheel

The use of a loaded wheel leads to a loss in sharpening performance. Dress a wheel as soon as you notice particles have begun to dull its cutting face. After dressing, remove particles or foreign matter adhering to the bench grinder.

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.

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