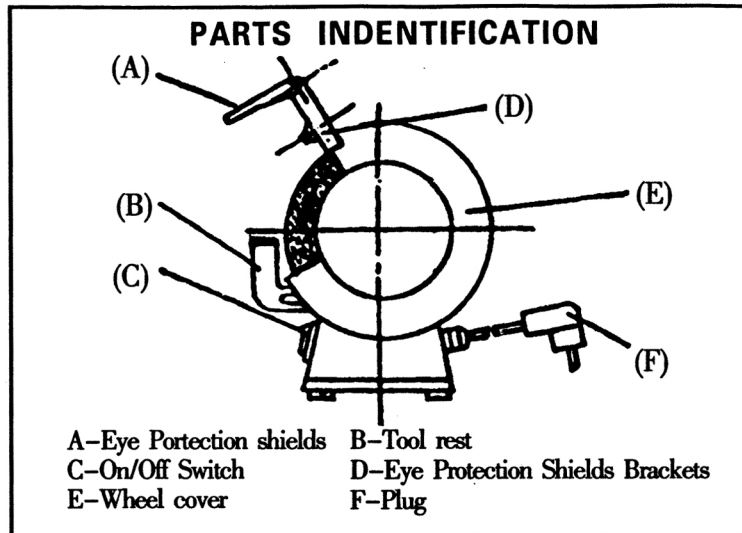


OPERATING INSTRUCTION OF BENCH GRINDER



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



SAFETY INSTRUCTIONS

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. **SAFETY FIRST**—read all instructions thoroughly and learn the applications, operating limitations and potential hazards of this tool before attempting to operate it.

1. **KEEP WORK AREA CLEAN** Cluttered areas and benches invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT** Don't expose power tools to rain.
Don't use power tools in damp or wet locations, Keep work area well lit. Don't use tool in presence of flammable liquids or gases.
3. **KEEP CHILDREN AWAY** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
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, for example, don't use circular saw for cutting tree limbs or logs.
7. **DRESS PROPERLY** Don't wear loose clothing or jewellery. They can be caught in moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.

8. **USE SAFETY GLASSES** Also use face of dust mask if cutting operation is dusty.
9. **DON'T OVERREACH** Keep proper footing and balance at all times.
10. **MAINTAIN TOOLS WITH CARE** Keep tools sharp and clean for better and safer performance. Follow instruction for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have them repaired by authorised service facility, Inspect extension cord periodically and replace if damaged. Keep handies dry, clean, and free from oil and grease.
11. **REMOVE ADJUSTING KEYS AND WRENCHES** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
12. **AVOID UNINTENTIONAL STARTING** Don't carry tool with finger on switch.
13. **STAY ALERT WATCH WHAT YOU ARE DOING** Use common sense. Do not operate tool when you are tired.
14. **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 authorised service centre unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorised service centre. Don't use tool if switch does not turn it on and off.
15. **ACCESSORIES** The use of accessories or attachments other than recommended might present a hazard.
16. **REPLACEMENT PARTS** When servicing use only identical replacement parts.
17. **SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

■ MAIN STRUCTURE

1. **MOTOR** is of single phase and insulation of class E with motor frame being made by aluminium or iron casting.
2. **WHEEL COVER** is made of steel plate. It is used to prevent splashing of sparks and to connect eyeprotectors.
3. **GRINDING WHEELS**
4. **SWITCH**
5. **PLUG & WIRE** is of three wicks with one is ground wire.
6. **CAPACITOR**

■ PRECAUTIONS ON USING BENCH GRINDERS

1. Disconnect power supply plug before replacing wheels or covers.
2. Replace cracked or damaged wheels immediately.
3. Always use guards and eyeshields.
4. Ensure tool rests and eyeshields are properly adjusted.

5. Do not over tighten wheel nut.
6. Adjust distance between wheel and tool rest to maintain 1/6" (1.6mm) or less separation as the diameter of the wheel decreases with use.
7. Use grinding wheel suitable for the speed of the grinder.
8. Ensure grinding wheels rotate freely before switching on power.
9. Stand beside the bench grinder when switching on the power, do not stand in front of the grinder.
10. Allow a new grinding wheel to rotate for one minute prior to use to ensure it is in good condition.
11. Don't operate the grinder with the wheel guard off.
12. Don't use the grinding wheels for cutting purposes.
13. Do not overload the grinder.
14. Use a wheel dresser to remove burrs from the grinding wheel.
15. Maintain a distance between the spark breaker and the grinding wheel of less than 1/16" (1.6mm)

■ ASSEMBLY

Assemble the eyeshields, spark breakers and tool rests using the screws, etc. provided. Be sure to position both the tool rests and spark breakers no more than 1.6mm (1/6") from the edge of the grinding wheel.

It is advisable to secure the bench grinder to the workbench or stand.

■ OPERATION

1. After switching the grinder on, allow it to reach full speed before commencing grinding operation.
2. The eyeshields are able to be adjusted and should be positioned to allow the operator a clear view of the work through the shields.
3. The appropriate adjustments of the tool rests will provide the correct working angle for efficient grinding. As the diameter of the grinding wheel is subject to wear, it will be necessary to re-adjust the tool rests positions to maintain the correct gap of less than 1.6mm (1/6") with the edge of the grinding wheel.

■ REMOVING OR CHANGING THE GRINDING WHEELS

To renew or change the grinding wheels, follow this series of steps:

- (a) Disconnect the power supply cord.
- (b) Remove the outside covers, left and right.
- (c) Holding the grinding wheel firmly, remove the nut and flange from the shaft with a spanner. Note that the left wheel nut has a left hand thread and the right wheel nut has a right hand thread.
- (d) Remove the old wheel and replace it with the new wheel.
- (e) Reassemble the flange, nut and outside covers.
- (f) Allow the grinder to run for one minute to ensure the grinding wheel is not out of balance before commencing any grinding work.