



OWNER'S OPERATION MANUAL

ANGLE GRINDER

PT22102



Please read and understand this manual before using.

TECHNICAL SPECIFICATIONS

Rated Voltage:	120 V~
Rated Frequency:	60Hz
Rated Current:	15A
No load speed	6500rpm
Grinding disc	9"



DOUBLE INSULATION

GENERAL SAFETY RULES

WARNING! Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

Work Area

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dusts.** Power tools create sparks which may ignite the dust or fumes.
- **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control

Electrical Safety

- **Double Insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double Insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
- **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase

the risk of electric shock.

- **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.

- **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

Personal Safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.

- **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.

- **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.

- **Remove adjusting keys or switches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.

- **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection may be used for appropriate conditions.

Tool Use and Care

- **Use clamps or other practical way to secure and support the workplace to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.

- **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.

- **Do not use tool if switch does not turn it on or off.** Any tool that can not be controlled with the switch is dangerous and must be repaired.

- **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.

- **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.

- **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.

- **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.

- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool .

SERVICE

- Tool service must be performed only by qualified repair personnel . Service or maintenance performed by unqualified personnel could result in a risk of injury.

- When servicing a tool , use only identical replacement parts. Follow instructions in the Maintenance section of this manual .Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

Additional safety regulations

.When the machine is in operation, keep hands away from the cutting or grinding area.

.The disc will not stop immediately the machine is turned off. Exercise caution.

.Do not place the tool down after use until the grinding or cutting wheels have come to complete stop.

.Do not start the tool when the grinding or cutting wheels are touching the work area.

.Always ensure the safety guard is attached correctly and do not operate the angle grinder without the guard attached.

.Only use grinding and cutting wheels that are approved for a maximum speed of 6800 or greater.

.Only use grinding or cutting wheels with the correct bore size for the spindle of the grinder.

.Keep the power cord well away from the cutting area during use. Always position the cord so that it will not be caught in the workpiece when the grinder is in use.

.Always wear earmuffs, safety glasses and face mask while in operation.

.Before connecting the tool to the power supply follow the safety instructions to install the grinding or cutting wheels. Do not lock it too tight, otherwise cracks may occur.

.Always use both hands when operation the tool

.Use the standard parts. Do not use a coolant or water and do not use as a fixed grinder.

INSTALLATION

Assembly drawing (see figure 1)

- A: pin spanner
- B: disc guard
- C: backing washer
- D: disc
- E: disc locking nut
- F: side handle
- G: switch
- H: enclosure

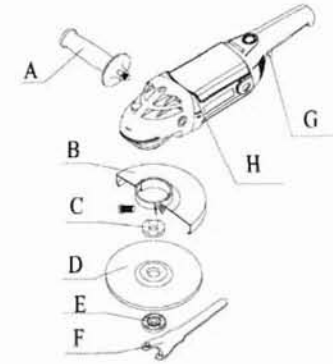


figure 1

2、 Assembly

- 1) The side handle can be fitted to the left, right or top side of the unit. Select the position which gives the most comfortable and safe use, Retain the rubber stoppers from the holes in the grinder housing, and ensure these are kept fitted in unused handle to prevent dust ingress.
- 2) Place the backing washer B over the spindle making sure the fit is tight.
- 3) Place the grinding or cutting disc D on the top of the backing washer ensuring the bore fits into the step of the flange.
- 4) Mount the concave recess side of the locking nut E over the spindle (figure 2).

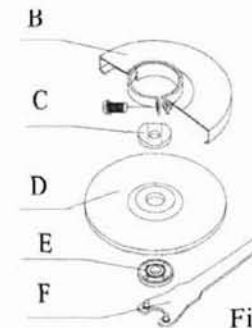


Figure 2

- 5) Press the spindle lock firm and ensure there is no movement in the spindle. Then while the spindle lock is depressed tighten the locking nut in a clockwise direction using the pin spanner.(figure 3)

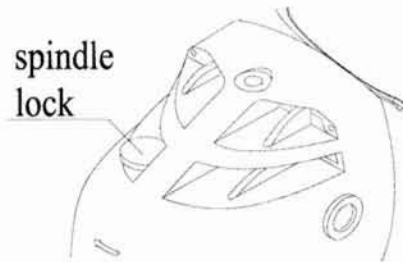


Figure 3

- 6) Allow the angle grinder to run in idle for at least a minute with the grinding or cutting disc correctly assembled, vibration disc should be immediately replaced.

3、 Operation

Switch Action

- 1) When starting hold the tool firmly with both hands i.e. One hand on the rear handle or motor housing and the other on the side handle.
- 2) Start the tool by pushing forward on the switch, then pressing the button down slightly.(figure 4)

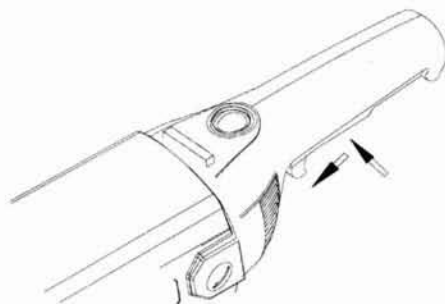


Figure 4

- 3) Stop the tool by releasing the trigger.

4) operation Method

- 1) Do not cover exhaust vents when the tool is in use. This may cause damage to the motor and reduce the efficiency of the tool
- 2) For the best work results hold the grinder at a 10~15 angle to the work piece

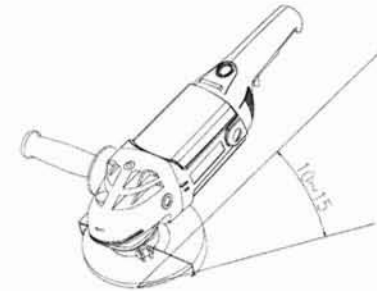


Figure 5

- 3) Guide back and forth over the work piece in a steady motion.
- 4) When cutting avoid tilting the tool in the cutting plane. Ensure the cutting wheel has a clean cutting edge.
- 5) To cut hard stone a diamond cutting wheel is recommended.
- 6) Do not use a cutting wheel for rough grinding.

MAINTANCE AND INSPECTION

- 1) The armature and stator(motor) is the heart of the power tool. Exercise due care to ensure they do not become damaged or affected by oil or water.
- 2) Inspect the carbon brushes regularly and replace when they are worn up about one third.
- 3) Regularly inspect all mountings and screws and ensure they are properly tightened. Showed any of the screws be loose, tighten them immediately. Failure to do so may result in serious damage.
- 4) Consult an authorized service agent in the event of failure.
- 5) Clean and dust the tool after each use.

ACCESSORIES

Side handle	1 piece
Pin Spanner	1 piece