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# **ANGLE GRINDER**

**125mm** 

**INSTRUCTION MANUAL** 



Read and follow all safety precautions in instruction manual.

SAFETY INSTRUCTIONS

you to lose control.

WARNING! Read all instructions. Failure to follow all instructions listed below may result in electric shock, re and/or serious injury. SAVE THESE INSTRUCTIONS Work area

a. Keep work area clean and well lit. Cluttered and dark areas invite accidents. b. Do not operate power tools in explosive atmospheres, such as in the presence of ammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes. c. Keep children and bystanders away while operating a power tool. Distractions can cause

2. Electrical safety a. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodi ed plugs and matching outlets will reduce risk of electric shock.

b. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded. c. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat,oil,sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock. e. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use

of a cord suitable for outdoor use reduces the risk of electric shock. f. Use a Residual Circuit Breaker on all 220-240V Power tools. This can helpminimise the risk of an electrical shock if an earth fault or short circuits occurs.

g. If using a power cable extension ensure that the cable is fully unwound and that its length is less than 30m. Lengths over 30 m will effect the toolsperformance as a result of voltage drop. Personal safety

a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the in uence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury. b. Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate

conditions will reduce personal injuries. c. Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your nger on the switch or plugging in power tools that have the switch on invites accidents.

d. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts. g. If devices are provided for the connection of dust extraction and collection facilities,

ensure these are connected and properly used. Use of these devices can reduce dust-related hazards. 4. Power tool use and care

a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed. b. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired. c. Disconnect the plug from the power source before making any adjustments, changing

accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally. d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are

dangerous in the hands of untrained users. e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged,

have the power tool repaired before use. f. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g. Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for

Service a. Have your power tool serviced by a quali ed repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

operations different from intended could result in a hazardous situation.

**HEALTH ADVICE** 

**WARNING!** When drilling, sanding, sawing or grinding, dust particles will be produced. In /!\ some instances, depending on the materials you are working with,this dust can be particularly harmful to you (e.g. lead from old gloss paint). You are advised to consider the risks associated with the materials you are workingwith and to reduce the risk of exposure. You should:

-- Work in a well-ventilated area. -Work with approved safety equipment, such as those dust masks that are specially designed to lter microscopic particles.

ADDITIONAL SAFETY INSTRUCTIONS FOR YOUR ANGLE GRINDER

1. If the supply cord is damaged have it replaced by a quali ed person.

2. Check that speed marked on the wheel is equal to or greater than the rated speed of the grinder. 3. Ensure that the wheel dimensions are compatible with the grinder. 4.. Abrasive wheels shall be stored and handled with care in accordance with manufacturer's

instructions. 5. Inspect the grinder wheel before use. Do not use chipped, cracked or otherwise defective

6. Ensure that mounted wheels/discs and parts are tted in accordance with the manufacturer's instructions.

7. Ensure that the abrasive product is correctly mounted and tightened before use and run the tool at no-load for 30 seconds in a safe position. Stop immediately if there is considerable vibration or if other defects are detected. If this condition occurs, check the machine to determine the cause.

8. If a guard is supplied with the tool never use the tool without such a guard. 9. Do not use separate reducing bushings or adapters to adapt large hole abrasive wheels.

10. For tools intended to be tted with a threaded hole, ensure that the thread in the wheel is long enough to accept the spindle length.

11. Check that the work piece is properly supported. 12. Do not use cut off wheel for side grinding. 13. Ensure that sparks resulting from use do not create a hazard e.g. do not hit persons, or ignite

ammable substances 14. Ensure that ventilation openings are kept clear when working in dusty conditions. If it should become necessary to clear dust, rst disconnect the tool from the mains supply (use non metallic

objects) and avoid damaging internal parts. 15. For cleaning, always use eye and ear protection. Other personal protective equipment such as

dust mask. gloves, helmet and apron should be wom. 16. The wheel continues to rotate after the tool is switched off.

17. Always check walls to avoid hidden power cables and pipes.

18. Do not touch the workpiece immediately after grinding as it will be very hot. 19. Do not hold unsecured work in your hand.20. Do not use the grinder as a xed tool.

21. Do not try to cool the grinding disc with water. 22. Always use the appropriate safety equipment that is required for the product. e.g. Goggles / Safety Spectacles, Ear defenders (essential with tools with a noise rating of over 85 dbA), Gloves

and face masks. In all cases ensure that the safety equipment is in good condition. 23. Ensure that if a side handle or stabilising handle is provided with the power tool then these are adjusted into a comfortable position and that both handles are used to securely grip the power tool when in use.

Double insulation:

The tool is double insulated. This means that all the external metal parts are electrically insulated from the mains power supply. This is done by placing insulation barriers between the electrical and mechanical components making it unnecessary for the tool to be earthed.

Remove the mains plug from socket before carrying out any adjustment or servicing. Ensure your mains supply voltage is the same as your tool rating plate voltage.

SYMBOLS







## Wear dust mask,eye & ear protection

TECHNICAL DATA		
Model No.	PMAG5-1000S	
Rated power input: :	1000W	
Rated voltage:	220V	
No load speed:	11000r/min	
Disc diameter:	125mm	
Double insulation:		

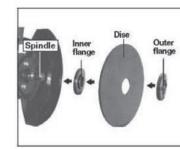
OPERATION INSTRUCTIONS

(see fig 1)

complete control of the tool.







NARNING: Before using your angle grinder be sure to read the instruction manual carefully.

INSTALLING THE AUXILIARY HANDLE

An auxiliary handle is supplied and can be fixed into both of the two positions on the gearcase. If you are right handed fit the handle as shown in fig1. If you are left handed fit the handle the other way round. When using a cutting disc, you can screw the handle into the position on top of the NOTE: This handle should be used at all times to maintain

2. ADJUSTING WHEEL GUARD (see fig 2) Adjust the guard to protect your hands and direct grinding debris. Loosen the screw. Position the guard at the required angle. Then tighten the screw.

CAUTION: Be sure that the guard is secure before starting the angle grinder. MARNING: Never use the angle grinder without the disc guard in place.

3. FITTING THE DISCS (see fig 3) Place the grinding/cutting disc on top of the inner flange and over the spindle. Ensure that it is firmly located on the raised section of the inner flange. See fig3. Locate the outer flange over the disc, making sure that the raised side is facting the disc and is fully located in the centre hole of the disc. NOTE: When clamping thin section metal diamond discs, the outer flange must be reversed so that the flat/dished side screws against the disc hub.

outer flange using the two pin locking wrench. It may be necessary to turn the spindle to fully locate the spindle lock

Press and hold down the spindle lock button and tighten the

When the outer flange washer is tight, release the spindle

lock button and remove the wrench.

**4. SWITCH** (see fig 4)

The On/Off trigger switch is sprung in the OFF position. The angle grinder is started by pushing forward the on/off switch. See fig 4. To stop the angle grinder, release the on/off switch and it will return to the OFF position.

WARNING! The disc will continue rotate for a few seconds after the angle grinder has been switched off.

Always wait until the disc has stopped completely before putting the angle grinder down. Do not attempt to operate the spindle lock button while the disc is still rotating.

Attention: Do not switch the grinder on whilst the disc is in contact with the workpiece. Allow the disc to reach full speed before starting to grind. Hold your angle grinder with one hand on the main handle and other hand firmly around

the auxiliary handle. Always position the guard so that as much of the exposed disc as possible is pointing away from you. Be prepared for a stream of sparks when the disc touches

For best tool control, material removal and minimum overloading, maintain an angle between the disc and work surface of approximately 15°-30° when grinding and 10°-15° When sanding. Exert light pressure on abrasive discs for efficient operation. Pushing too hard will cause a drop in speed and may result in motor overload and

Use caution when working into corners as contact with the intersecting surface may cause the grinder to jumo or twist, When grinding is complete allow the workpiece to cool. Do not touch the hot surface.

Overloading will cause damage to the motor of your angle ginder. This can happen if your angle grinder is subjected to heavy use for prolonged periods of time. Do not in any circumstances, attempt to exert too much

pressure on your angle grinder to speed up your work.

6. OVERLOAD

Fig 5

The abrasive discs operate more efficiently when light pressure is exerted, thus avoiding a drop in the speed of your angle grinder. If your angle grinder becomes too hot, run your angle grinder under no load for 2-3 minutes until it has cooled to normal operation temperature. **WORKING HINTS FOR YOUR ANGLE GRINDER** 

1. Your angle grinder is useful for both cutting through metals, ie.for removing screw heads, and also for cleaning / preparing surfaces, ie.before and after welding operations. 2. Different types of wheel/cutter will allow the grinder to meet various needs. Typically, grinding wheels/cutting discs are available for mild steel, stainless steel, stone and brick. Diamond

impregnated discs are available for very hard materials. 3. If the grinder is used on soft metals such as aluminum the wheel will soon clog and will have to be 4. At all times, let the grinder do the work, do not force it or apply excessive pressure to the

5. If cutting a slot ensure that the cutter is kept aligned with the slot, twisting the cutter may cause the disc to shatter. If cutting through thin sheet, only allow the cutter to just project through the material, excessive penetration can increase the chance of causing damage

6. If cutting stone or brick, it is advisable to use a dust extractor. MAINTENACE WARNING: Ensure the grinder is disconnected from the mains power supply beofre attempting any maintenance.

1. Keep the grinder ventilation slots clean and free from ocstructions. If available, blow compressed air into the vents to clear any internal dust (safety goggles must be worn whrn undertaking this 2. Keep the outer case of the grinder clean and free from grease, Do not wash with water or use solvents or abrasive. Use only mild soap and a damp cloth to clean the tool. Never let any liquid get inside the tool. Never immerse any part of the too into a liquid. 3. Your angle grinder requires no additional lubrication. There are no user serviceable parts in your

powe tool. 4. Always store your power tool in a dry place.

**ENVIRONMENTAL PROTECTION** 

5. If you see some sparks flashing in the ventilation slots, this normal and will not damage your power TROUBLESHOOTING Although your new angle grinder is really very simple to operate, if you do experience problems,

please check the following: 1. If you grinder will not operate, check the power at the mains plug. 2. If your grinder wheel wobbles or vibrates, check that outer flange is tight, check that the wheel is

correctly located on the flange plate. 3. If there is any evidence that the wheel is damaged, do not ues as the damaged wheel may disintegrate, remove it and replace with a new wheel. Dispose of old wheels sensibly. 4. If working on aluminum or a similar soft alloy, the wheel will soon become clogged and will not

Model No: PMAG5-1000S

## PMAG5-1000S Spare part list

No	Description	QTY	No	Description	QTY
1	inner flange	1	26	middle plate	1
2	outter flange	1	27	armature	1
3	wheel guard	1	28	dustproof ring	1
4	shaft	1	29	spacer	1
5	dustproof cover	1	30	bearing 626	1
6	screw M4X13	4	31	bearing sleeve	1
7	front cover	1	32	screw ST4x75	1
8	wool ring	1	33	windshield	1
9	ring	1	34	stator	1
10	6001 bearing	1	35	housing	1
11	bearing cover	1	36	brand	1
12	screw M4x10	3	37	switch	1
13	gear wheel	1	38	carbon brush	2
14	needle bearing	1	39	brush box	2
15	gear box	1	40	screw ST4x12	2
16	screw ST5x25	4	41	Pushing block	2
17	selflock pin	1	42	Pushing rod	1
18	spring	1	43	screw ST4x14	1
19	selflock pin cap	1	44	Pressing line plate	1
20	side hangle	1	45	rear cover	1
21	nut	1	46	screw ST4x12	2
22	pinion	1	47	cable protector	1
23	circlip for hole	1	48	cable	1
24	bearing 608	1	49	brand	1
25	circlip Φ29.4*0.75	1	50	wrench	1

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.