

Contents

TECHNICAL DATA.....	1
APPLICATION.....	2
WARNING	2
GENERAL SAFETY	
SAFETY INSTRUCTION	
SYMBOLS.....	5
OPERATING INSTRUCTION.....	5
MAINTENANCE.....	7
TROUBLE SHOOTING.....	7
ENVIRONMENT.....	8

TECHNICAL DATA

Model	MPAG1801
Article code	112-0301
Battery voltage	DC 18V
No-load speed	3300/6250/8500rpm
Disc size	ø115mm
Spindle thread	M14
Battery type	Li-ion
Battery capacity	4.0Ah
Charging time	2h
Weight according to EPTA-Procedure 01/2003	2.4KGS

APPLICATION

The angle grinder is intended for cutting and roughing metal. Not for stone material and tile.

MAXPRO® are devoted to continuously improving and perfecting the existing products. Therefore, the technical performance and design concept of products may vary without any prior notice; our apology for any possible incurrance of inconvenience therefrom. Read and follow the operating instructions and safety information before using for the first time. Save this manual.

SAFETY WARNINGS

General power tools safety warnings

⚠ WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.

The term "power tool" in the warnings refers to your mains-operated(corded)power tool or battery-operated (cordless)power tool.

Work area safety

- 1.Keep work area clean and well lit. Cluttered ordark areas invite accidents.
- 2.Do not operate power tools in explosive atmo-spheres, such as in the presence of flammableliquids, gases or dust. Power tools create sparkswhich may ignite the dust or fumes.
- 3.Keep children and by standers away while operating a power tool.Distractions can cause you to lose control.

Electrical Safety

- 1.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.Unmodified plugs and matching out lets will reduce risk of electric shock.
- 2.Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is n increased risk of elec-tric shock if your body is earthed or grounded.
- 3.Do not expose power tools to rain or wet con-ditions. Water entering a power tool will increase the risk of electric shock.
- 4.Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.Keep cord away from heat, oil, sharp edgesor moving parts. Damaged or entangled cords increase the risk of electric shock.
- 5.When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use ofa cord suitable for outdoor use reduces the risk of electric shock.
- 6.If operating a power tool in a damp location is unavoidable, use a ground fault circuit inter-rupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

Personal Safety

- 1.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 influence of drugs, alcohol or medication.A moment of inattention while operating power tools may result in serious personal injury.
- 2.Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- 3.Prevent unintentional starting. Ensure the switch is inthe off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- 4.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.
- 5.Do not over reach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 6.Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewel-lery or long hair can be caught in moving parts.
- 7.If devices are provided for the connection of dust extraction and collection facilities,ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

Power tool use and care

1. 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.
2. 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.
3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. 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.
5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation

Battery tool use and care.

1. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

Service

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
2. Follow instruction for lubricating and changing accessories.
3. Keep handles dry, clean and free from oil and grease.

CORDLESS ANGLE GRINDER SAFETY WARNINGS

1. **Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel.** Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.
2. **The grinding surface of centre depressed wheels must be mounted below the plane of the guard lip.** An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.
3. **The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** The guard helps to protect operator from broken wheel fragments, accidental contact with wheel and sparks that could ignite clothing.
4. **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
5. **Always use undamaged wheel flanges that are of correct size and shape for your selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.** Flanges for cut-off wheels may be different from grinding wheel flanges.
6. **Do not use worn down wheels from larger power tools.** Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

7. **Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
8. **Do not position your body in line with and behind the rotating wheel.** When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.
9. **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
10. **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully reenter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
11. **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
12. **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.
13. **Do not attempt to cut large stock or sheets of metal as this machine is not designed to be a dedicated cut-off machine.**

SYMBOLS

	Read the manual		Li-Ion battery This product has been marked with a symbol relating to 'separate collection' for all battery packs and battery pack. It will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.
	Warning		
	Wear eye protection		
	Wear ear protection		
	Wear dust mask		
	Batteries may enter water cycle if disposed improperly, which can be hazardous for ecosystem. Do not dispose of waste batteries as unsorted municipal waste.		
	Do not burn.		

ASSEMBLY

NOTE: For tool specifications refer to the nameplate on your tool. Accessory speed rating must be equal to or greater than the tool's speed rating. Do not exceed the recommended wheel diameter.

NOTE: Not recommended for use with type II cup wheels.

Wheel guard installation

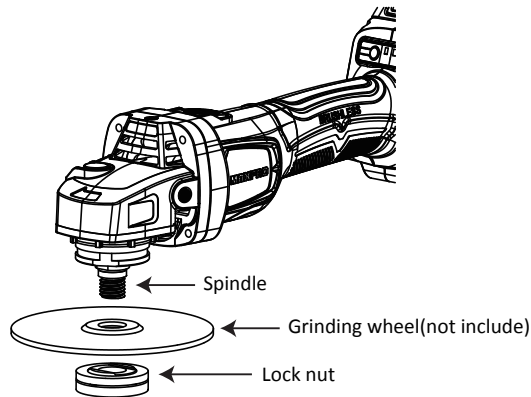
Wheel guard must be attached when using disc grinding or cutting wheels. Always keep wheel guard between you and your work while grinding or cutting.

The position of the guard can be adjusted to accommodate the operation being performed.

To attach wheel guard, DISCONNECT battery pack from tool. Position guard on spindle neck so that the notches on guard line up with the keys on the spindle neck.

Rotate guard either direction to desired position, and lock the latch to secure guard in place.

TO REMOVE GUARD: Unlock the latch, rotate guard until the notches on guard line up with the keys on the spindle neck, and lift guard off the spindle neck.



Lock nut and backing flange

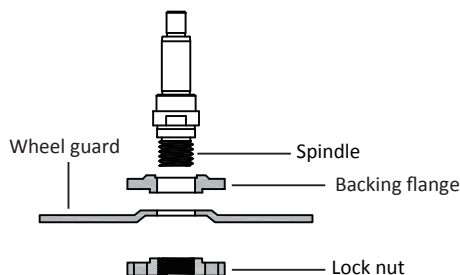
Your tool is equipped with a threaded spindle for mounting accessories. Always use the supplied lock nut (and backing flange) that has same thread size as spindle.

Vibration control side handle

Housing on either side of the tool, depending on personal preference and comfort. Use the side handle for safe control and ease of operation.

Disc grinding wheel assembly

Disconnect battery pack from tool. Be sure that wheel guard is in place for grinding. Place BACKING FLANGE and GRINDING WHEEL on the spindle. Thread on the lock nut and tighten nut using the supplied lock nut wrench, while holding the spindle lock in.



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OPERATING INSTRUCTIONS

⚠ WARNING

Hold the tool with both hands while starting the tool, since torque from the motor can cause the tool to twist.

Start the tool before applying to work and let the tool come to full speed before contacting the workpiece. Lift the tool from the work before releasing the switch. DO NOT turn the switch "ON" and "OFF" while the tool is under load; this will greatly decrease the switch life.

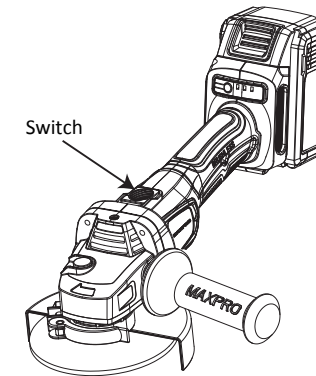
SLIDE I(ON)-O(OFF) SWITCH WITH LOCK

The tool is switched "1" by the slide switch located at the top of the motor housing. The switch can be locked in the "I" position, a convenience for long grinding operations.

TO TURN THE TOOL "1" without locking it, move the switch forward by applying pressure ONLY at the REAR portion of the switch. When pressure is released the switch will return to "O" position.

TO LOCK THE SWITCH "1", move the switch forward and press the FRONT portion.

TO UNLOCK THE SWITCH, simply press and release the REAR portion of the slider. Switch is spring loaded and will snap back automatically.



Grinding Operations

SELECTING GRINDING WHEELS

⚠ WARNING

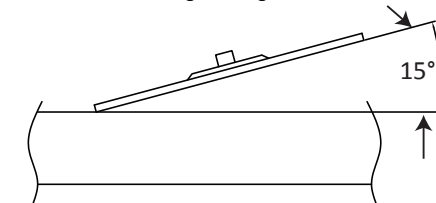
DISC GRINDING WHEELS

Grinding wheels should be carefully selected in order to use the grinder most efficiently. Wheels vary in type of abrasive, bond, hardness, grit size and structure. The correct type of wheel to use is determined by the job.

Use disc grinding wheels for fast grinding of structural steel, heavy weld beads, steel casting, stainless steel and other ferrous metals.

GRINDING TIPS

Efficient grinding is achieved by controlling the pressure and keeping the angle between wheel and workpiece at 10° to 15°. If the wheel is flat, the tool is difficult to control. If the angle is too steep, the pressure is concentrated on a small area causing burning to the work surface.



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⚠ WARNING

Excessive or sudden pressure on the wheel will slow grinding action and put dangerous stresses on the wheel. When grinding with a new wheel be certain to grind while pulling tool backwards until wheel becomes rounded on its edge. New wheels have sharp corners which tend to "bite" or cut into workpiece when pushing forward.

Inserting and releasing battery pack

This tool is equipped with Automatic Restart Protection. This feature helps prevent accidental startups after power has been interrupted, e.g. the battery was removed with the switch locked in the on position. To resume operation, turn the slide switch to the off position, and back to on position to restart the tool. Make sure that the slide switch is in the "O" position before inserting or removing battery pack. To insert the battery pack slide it into the housing until the battery pack locks into position.

Your tool is equipped with a secondary locking latch to prevent the battery pack from completely falling out of the handle.

To remove the battery pack, press the lock button and slide the battery pack forward. Press lock button again and slide the battery pack completely out of tool housing.

MAINTENANCE

WARNING: ALWAYS disconnect from the mains power supply, before carrying out any maintenance/cleaning of the charger. Remove the battery before carrying out any maintenance/cleaning of the tool.

Note: Both the tool and the charger contain no user-serviceable parts. If the device does not perform as outlined in this manual, return it to an authorized service center for repair.

General inspection

-Regularly check that all the fixing screws are tight.

-Inspect the supply cord of the tool, prior to each use, for damage or wear. Repairs should be carried out by an authorized service center. This advice also applies to extension cords used with this tool.

Cleaning

-Keep your tool clean at all times. Dirt and dust will cause internal parts to wear quickly, and shorten the machine's service life. Clean the body of your machine with a soft brush, or dry cloth. If available, use clean, dry, compressed air to blow through the ventilation holes.

-Clean the tool casing with a soft damp cloth using a mild detergent. Do not use alcohol, petrol or strong cleaning agents -Never use caustic agents to clean plastic parts.

Lubrication

-Slightly lubricate all moving parts at regular intervals with a suitable spray lubricant.

Disposal

Always adhere to national regulations when disposing of power tools that are no longer functional and are not viable for repair.

-Do not dispose of power tools, or other waste electrical and electronic equipment (WEEE), with household waste.

-Contact your local waste disposal authority for information on the correct way to dispose of power tools.

TROUBLE SHOOTING

Problem	Possible causes	Likely Solutions
Tool will not start.	1.Battery Pack not properly connected. 2.Battery Pack not properly charged. 3.Battery Pack worn out. 4.Internal damage or wear. (Carbon brushes or Trigger, for example.) 5.Contact chips of switch or battery pack deformed. 6. Battery is not suitable for the machine. 7.Overload operation.	1.Remove Battery Pack, make sure there are no obstructions, clean battery contacts on tool, reinsert the Battery Pack according to its shape (it should only fit one way), and press firmly until the Battery Pack locks in place. 2.Make sure Charger is connected and operating properly. Given enough time for Battery Pack to recharge properly. 3. Dispose of old Battery Pack properly or recycle Replace Battery Pack. 4. Have technician service tool. 5. Replace switch or Battery Pack. 6. Replace the battery. 7. Stop to use and restart the machine after cooling.
Tool operates slowly.	1. Excess pressure applied to workpiece. 2.Battery Pack wearing out. 3. Low battery.	1. Decrease pressure, allow tool to do the work. 2. Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 3.Recharge or replace a fully charged battery.
Performance decreases over time.	1.Battery Pack worn out. 2.Wheel or blade dull.	1.Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 2.Replace wheel or blade.
Excessive noise or rattling.	Internal damage or wear. (Gear or Bearings, for example.)	Have technician service tool.
Overheating.	1.Forcing tool to work too fast. 2.Blocked motor housing vents.	1.Allow tool to work at its own rate. 2.Clean the Blocked motor housing vents.
Tool does not grind, sand or brush effectively.	1. Disc accessory may be loose on Spindle. 2.Disc accessory may be damaged, worn or wrong type for the material.	1.Be sure disc accessory arbor is correct and Outer Flange/Arbor Nut is tight. 2.Check condition and type of disc accessory Use only proper type of disc accessory in good condition.

ENVIRONMENTAL PROTECTION



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.

FOR BATTERY TOOLS

- The ambient temperature range for the use and storage of tool and battery is 0°C-45°C.
- The recommended ambient temperature range for the charging system during charging is 0°C-40°C.