

greenworks®



EN

ANGLE GRINDER

OPERATOR MANUAL

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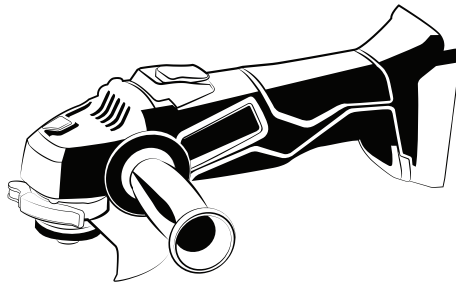
MEULEUSE D'ANGLE

MANUEL D'OPÉRATEUR

ES

AMOLADORA ANGULAR

MANUAL DEL OPERADOR



AGG302

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1 DESCRIPTION

1.1 PURPOSE

The machine is used to grind metals and sand wood or metal surfaces.

1.2 OVERVIEW

Figure 1.

1 On/Off switch	5 Direction arrow
2 Spindle lock button	6 Grinder spindle
3 Direction arrow	7 Auxiliary handle
4 Protection guard	8 Wrench
4 Grinder spindle	

2 GENERAL POWER TOOL 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 battery-operated (cordless) power tool.

2.1 WORK AREA SAFETY

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

2.2 ELECTRICAL SAFETY

- **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 outlets will reduce risk of electric shock.*
- **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.*
- **Do not 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 for carrying, pulling or unplugging the power tool. Keep**

cord away from heat, oil, sharp edges and moving parts. *Damaged or entangled cords increase the risk of electric shock.*

- **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.*
- **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

2.3 PERSONAL SAFETY

- **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 lapse of attention while operating power tools may result in serious personal injury.*
- **Use personal protection. Always wear eye protection.** *Protective products such as dust mask, non-skid safety shoes, hard hat or hearing protection used appropriately will reduce personal injuries.*
- **Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack and when picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.*
- **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.*
- **Do not over-reach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- **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.*
- **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.*

2.4 POWER TOOL USE AND CARE

- **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.*
- **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.*
- **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.*

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

2.5 BATTERY TOOL USE AND CARE

- **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.*
- **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*
- **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 fire.*
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** If contact accidentally occurs, flush with plenty of soap and water. If liquid contacts eyes, immediately seek medical help. *Liquid ejected from the battery may cause irritation or burns.*

2.6 SERVICE

- **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.*

2.7 SPECIFIC SAFETY RULES

- **Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord.** *Fasteners*

contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

- **Know your power tool.** Read operator manual carefully. *Learn its applications and limitations, as well as the specific potential hazards related to this power tool. Obey this instruction will reduce shock, fire or serious injury.*
- **Always wear safety glasses with side shields marked to comply with ANSI Z87.1.** *Obey this instruction will reduce the risk of serious injury.*
- **Protect your lungs.** Wear a face or dust mask if the operation is dusty. *Obey this instruction will reduce the risk of serious injury.*
- **Protect your hearing.** Wear hearing protection during extended periods of operation. *Obey this instruction will reduce the risk of serious injury.*
- **Battery tools do not have to be plugged into an electrical outlet; thus, they are always in operating condition.** Be aware of possible hazards when not using your battery tool or when changing accessories. *Obey this instruction will reduce the risk of electric shock, fire, or serious injury.*
- **Do not place battery tools or their batteries near fire or heat.** *This will reduce the risk of explosion and possible injury.*
- **Do not crush, drop or damage battery pack.** Do not use a battery pack or charger that has been dropped or received a sharp blow. *A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.*
- **Batteries can explode in the presence of a source of ignition, such as a pilot light.** To reduce the risk of serious injury, never use any cordless product in the presence of open flame. *An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.*
- **Do not charge battery tool in a damp or wet location.** *Obey this instruction will reduce the risk of electric shock.*
- **For best results, your battery tool should be charged in a location where the temperature is more than 50°F but less than 100°F.** *To reduce the risk of serious injury, do not store outside or in vehicles.*
- **Under extreme usage or temperature conditions, battery leakage may occur.** *If liquid comes in contact with your skin, wash immediately with soap and water. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention. Obey this instruction will reduce the risk of serious injury.*
- **Keep these instructions.** Refer to them frequently and use them to instruct others who may use this tool. *If you borrow someone this tool, loan them these instructions also to prevent incorrect use of the machine and possible injury.*

3 PROPOSITION 65

▲ WARNING

This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm. Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:







- Lead from lead-based paints;
- Crystalline silica from bricks and cement and other masonry products;
- Arsenic and chromium from chemically treated lumber.

Your risk of exposure to these chemicals varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

Save these instructions.




4 SYMBOLS ON THE PRODUCT

Some of the following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

Symbol	Explanation
V	Volts
n_0 / rpm / .../min	No-load speed
	Direct current
	Safety alert
	Read and understand all instructions before operating the product, and follow all warnings and safety instructions.
	Wear ear protection.
	Wear eye protection
	Do not expose the product to rain or moist conditions.

5 RISK LEVELS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

6 INSTALLATION

6.1 UNPACK THE MACHINE

▲ WARNING

Make sure that you correctly assemble the machine before use.

▲ WARNING

- If the parts have damage, do not use the machine.
- If you do not have all the parts, do not operate the machine.
- If the parts are damaged or missing, speak to the service center.

1. Open the package.
2. Read the documentation in the box.
3. Remove all the unassembled parts from the box.
4. Remove the machine from the box.
5. Discard the box and package in compliance with local regulations.

6.2 INSTALL THE BATTERY PACK

Figure 2.

▲ WARNING

- If the battery pack or charger is damaged, replace the battery pack or the charger.
- Stop the machine and wait until the motor stops before you install or remove the battery pack.
- Read, know, and do the instructions in the battery and charger manual.

1. Align the lift ribs on the battery pack with the grooves in the battery compartment.
2. Push the battery pack into the battery compartment until the battery pack locks into place.
3. When you hear a click, the battery pack is installed.

6.3 REMOVE THE BATTERY PACK

Figure 3.

1. Push and hold the battery release button.
2. Remove the battery pack from the machine.

6.4 INSTALL THE GRINDING WHEEL

Figure 4.

▲ CAUTION

Do not attach a wood cutting blade or carving blade to the machine. It is used to grind and sand materials. Use for other intentions is not recommended and makes a risk.

▲ WARNING

Examine a new grinding wheel before you install it.

- Use a wooden hammer to tap around the wheel.
- Listen to the result sounds. Fissures or cracks result in a different sound.

Do not use a wheel with fissures or cracks. When you install a new grinding wheel, do a no-load revolution test of 1 minute with the grinding wheel at a safe direction.

1. Push the spindle lock button.
2. Engage the flats on the bottom of the disc flange with the flats on the spindle.
3. Put the grinding wheel on the spindle.
4. Turn the wheel clockwise until the spindle locks in position.
5. Install the clamp nut on the spindle with the flat side of the nut up.
6. Install the raised, small diameter piece of the clamp nut into the hole in the wheel and finger tighten.
7. Tighten the clamp nut.

i NOTE

To prevent damage to the spindle or spindle lock, let motor to come to a complete stop before you engage spindle lock.

▲ WARNING

Install a grinding wheel with the center against the disc flange. Failure to do so can cause the grinding wheel to break. This can also cause injury because the loose particles break off and drop down from the grinder.

6.5 INSTALL THE AUXILIARY HANDLE

Figure 5.

▲ WARNING

The auxiliary handle must be used to help prevent loss of control and possible injury.

The auxiliary handle can be installed on the left or right side of the machine.

1. Install the auxiliary handle into the necessary position.
2. Turn the auxiliary handle clockwise to tighten.

7 OPERATION**▲ WARNING**

Always wear eye protection.

▲ WARNING

Do not use any attachments or accessories not recommended by the manufacturer of this product.

7.1 START THE MACHINE

Figure 6.

1. To start the machine, push the On/Off switch forward.
2. To lock the On/Off switch, push the On/Off switch down at the front until it latches.

7.2 STOP THE MACHINE

Figure 7.

1. To stop the machine, release the On/Off switch or, if it is locked, briefly push the rear of the On/Off switch and then release it.
2. To keep energy, only switch the machine on when you use it.

▲ WARNING

Examine the machine before you use. The machine must be installed correctly and can move freely. Do a test to operate for 1 minute with no load. Do not use damaged, out of centre or vibration machine. Damaged machine can break and cause injuries

7.3 ADJUST THE GUARD

Figure 8 - 11.

▲ WARNING

Adjust the guard on the machine correctly refer to which side you install the handle.

▲ WARNING

Let the guard in front of the machine. If not, sparks and loose pieces of the grinding wheel can cause injury to the operator. Put the guard in the correct location.

1. Remove the battery pack.
2. Pull the guard clasp to unlock the guard.
3. Turn the guard to its correct position.
4. Push the guard clasp in to lock the guard.

i NOTE

Make sure that you install the ridge on the guard in the groove of the bearing cap.

7.4 OPERATE THE MACHINE

Figure 12.

Use correct grinding wheels that are recommended for the material. Make sure that the minimum speed of a accessory wheel is 6,500 r/min. or more. The grinding wheel is correct for grinding welds, preparing surfaces to be welded, grinding structural steel, and grinding stainless steel.

▲ CAUTION

Do not use the machine without the guard. Use the machine without guard will cause injury to the operator.

i NOTE

Make sure all work in a vise or clamp to a workbench.

1. Use two hands to hold the machine in front and away from you and the workpieces.
2. Start the grinder and let the engine and grinding wheel increase to full speed.
3. Lower the grinder until the grinding wheel touches the workpiece.

4. Keep the machine tilted at an angle from 5° to 15° and move at a stable speed.
5. Use sufficient pressure to keep the machine stable.
6. Lift the machine away from the workpiece before you stop the machine.

▲ WARNING

To prevent loss of control and injury, operate the machine with two hands and keep one hand on the auxiliary handle.

i NOTE

If you put the machine in one point too long or hold the machine at too sharp an angle, it will make grooves in the workpiece.

i NOTE

Heavy pressure decreases the speed and put a strain on the engine. The weight of the machine is sufficient for most grinding works. Use light pressure when you grind jagged edges or loose bolts where there is the possible to stop the machine on the metal edge.

8 MAINTENANCE**▲ WARNING**

Remove the battery pack from the machine before maintenance.

▲ WARNING

Do not use strong solvents or detergents on the plastic housing or components.

8.1 GENERAL MAINTENANCE

- Before each use, examine the machine for damaged, missing, or loose parts such as screws, nuts, bolts and caps.
- Clean the machine with a dry cloth. Do not use slovents.

▲ WARNING

Do not let brake fluids, gasoline, petroleum-based materials touch the plastic parts. Chemicals can cause damage to the plastic, and make the plastic unserviceable.

▲ CAUTION

Use only approved replacement parts.

8.2 REPLACE THE GUARD

▲ WARNING

Do not change or loosen guard screw. Failure to follow this warning can make the guard to become loose during operation and cause injury.

After extended use, you must replace the guard. If you fall the machine and cause damage the guard. It is also necessary for you to replace the guard.

▲ WARNING

To prevent loss of control and possible injury, operate the machine with two hands and keep one hand on the auxiliary handle.

- Remove the battery pack from the machine.
- Push the spindle lock.
- Use a wrench to loosen and remove clamp nut.
- Remove grinding wheel and disc flange.
- Pull the guard clasp to unlock the guard.
- Remove the guard from the groove in the housing.
- Put the new guard on the shoulder of the bearing cap.
- Adjust the guard to the correct position.

i NOTE

Make sure you install the ridge on the guard in the groove on the bearing cap.

- Install disc flange, grinding wheel, and clamp nut.
- Tighten the clamp nut.

9 TECHNICAL DATA

Rated Voltage	24 V
No Load Speed	7000 rpm
Shaft	5/8"
Disc diameter	4 1/2"
Weight (without battery)	3.53 lbs (1.6 kg)
Battery model	BAM706
Charger model	CAM803

10 LIMITED WARRANTY



Greenworks® hereby warrants this product, to the original purchaser with proof of purchase, for a period of four (4) years against defects in materials, parts or workmanship. Greenworks®, at its own discretion will repair or replace any and all parts found to be defective, through normal use, free of charge to the customer. This warranty is valid only for units which have been used for personal use that have not been hired or rented for industrial/commercial use, and that have been maintained in accordance with the instructions in the owners' manual supplied with the product from new.

ITEMS NOT COVERED BY WARRANTY:

1. Any part that has become inoperative due to misuse, commercial use, abuse, neglect, accident, improper maintenance, or alteration; or
2. The unit, if it has not been operated and/or maintained in accordance with the owner's manual; or
3. Normal wear, except as noted below;
4. Routine maintenance items such as lubricants, blade sharpening;
5. Normal deterioration of the exterior finish due to use or exposure.

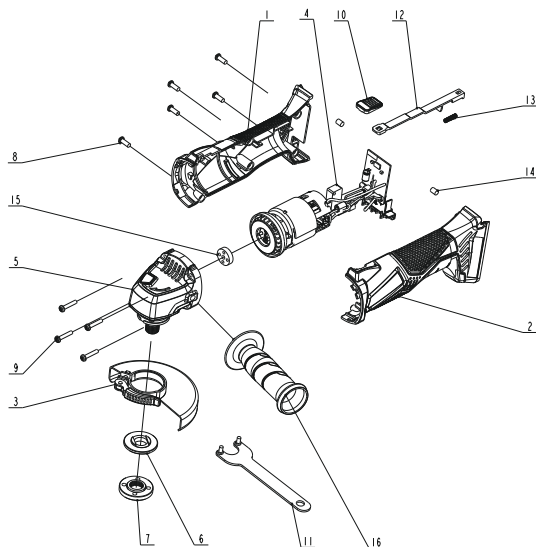
HELPLINE:

Warranty service is available by calling our toll-free helpline, at 1-833-493-5483.

TRANSPORTATION CHARGES:

Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. It is the purchaser's responsibility to pay transportation charges for any part submitted for replacement under this warranty unless such return is requested in writing by Greenworks®.

11 EXPLODED VIEW



No.	Part No.	Description	Qty
1	341021775	Right housing	1
2	341011775	Left housing	1
3	311081775	Protection guard	1
4	311071775	PCB	1
5	311021775	Gear case assembly	1
6	332061775	Upper plate	1
7	332071775	Lower plate	1
8	322061775	Screw	4
9	322071775	Screw	5
10	341061775	On/off switch	1
11	333031775	Wrench	1
12	341071775	Rod	1
13	339051775	Spring	1
14	342011775	Silicagel column	2
15	342021775	Cushion	1
16	341081775	Auxiliary handle	1

Greenworks Tools
PO Box 1238
Mooresville, NC 28115

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