

# greenworks

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CULTIVATOR HEAD

OPERATOR MANUAL



**E8038**

**PAC461**

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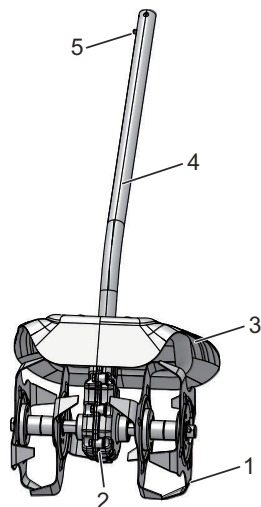
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## 1 DESCRIPTION

### 1.1 PURPOSE

The machine is intended for loosening of soil in an open garden area. This product is not intended for commercial use. Do not use for any commercial task.

### 1.2 OVERVIEW



- |   |          |   |                |
|---|----------|---|----------------|
| 1 | Tine     | 4 | Lower shaft    |
| 2 | Gear box | 5 | Release button |
| 3 | Guard    |   |                |

## 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 “machine” in the warnings refers to your battery-operated (cordless) cultivator.

### 2.1 IMPORTANT SAFETY INSTRUCTIONS

- Use Right Machine – Do not use machine for any job except that for which it is intended.
- Read the operator’s manual carefully. Be thoroughly familiar with the controls and the proper use of the machine. Know how to stop the unit and disengage the controls quickly.
- Do not operate the machine in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. The machine creates sparks which may ignite the dust or fumes.
- 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.
- Avoid Dangerous Environment — Don’t expose to rain or use machine in damp or wet locations. Water entering the machine will increase the risk of electric shock.
- Never allow children to operate the machine. Never allow adults to operate the machine without proper instruction.
- Always wear safety glasses with side shields that comply with ANSI Z87 .1- Everyday glasses have only impact resistant lenses. They are NOT safety glasses. Following this rule will reduce the risk of eye injury. Use a face mask if operation is dusty.
- Dress Properly – Do not wear loose clothing or jewelry. They can be caught in moving parts. Use of rubber gloves and substantial footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
- Do not force the machine — Use the correct tool for your machine. The correct tool will do the job better and safer at the rate for which it is designed.
- Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces.
- Do not operate the machine while under the influence of alcohol or drugs.
- Do not overreach — Keep firm footing and balance at all times. Overreaching can result in loss of balance.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the machine. Carrying the machine with your finger on the switch or energizing machine that have the switch on invites accidents.
- Avoid Unintentional Starting – Don’t carry cordless machine with finger on switch. Be sure the switch is off when inserting the battery.
- Never pick up or carry the machine while the tines are turning or the motor is running.
- Keep the machine in good working condition. Check all nuts, bolts, and screws at frequent intervals for proper tightness to be sure the machine is in safe working condition.
- Keep the machine free of grass, leaves or grease to reduce the chance of a fire hazard.
- Do not use the machine if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the battery pack from the machine before making any adjustments, changing accessories, or storing machine. Such preventive safety measures reduce the risk of starting the machine accidentally.

- Before cleaning, repairing, or inspecting, remove the battery and make certain all moving parts have stopped.
- Never spray water directly into the motor compartment of the machine.
- Use only identical replacement parts when servicing the machine. Use of unauthorized parts may create a risk of serious injury to the user, or damage to the product.

## 2.2 SPECIFIC SAFETY RULES

- Cleaning, user-maintenance (such as lubrication adjustment, and the like), operations recommended by the manufacturer, and a warning to the user that any other servicing should be performed by an authorized service representative.
- Do not use near underground electric cables, telephone, lines, pipes, or hoses. If in doubt, contact your utility or telephone company to locate underground services.
- If the machine strikes a foreign object, stop the motor, remove the battery pack, thoroughly inspect the machine for any damage, and repair the damage before restarting and operating the machine.
- Maintain Machine With Care – Keep cutting edge sharp and clean for best performance and to reduce the risk of injury.
- Do not overload the machine capacity by cultivating too deep in a single pass or at too fast a rate.
- Stay alert. Watch what you are doing. Use common sense. Do not operate the machine when you are tired, ill, or upset.
- Don't use in rain.
- Be aware that the machine may unexpectedly bounce upward or jump forward if the tines should strike buried obstacles such as large stones, roots, or stumps.
- Wear hearing protection.
- Ensure that people and pets are at least 50' (15 m) away from the machine while in use.
- Ensure that work area is free of slippery spots or excessive quantities of stone.
- Start the machine carefully according to instructions from a normal operating position and with feet well away from the tines. It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.
- Keep hands away from blades.
- Remove the battery pack from the machine before unclogging the tines and when making any repairs, adjustments, or inspections.
- Never operate the machine on a slope.
- Use extreme caution when pulling the machine towards you.
- When not in use, the machine should be stored indoors in dry, and high or locked-up place – out of reach of children.
- 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.

- Keep Children Away — All visitors and bystanders should be kept at a distance of at least 50 feet from work area.
- Do not use a battery pack or machine that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- Don't grasp the exposed cutting blades or cutting edges when picking up or holding the machine.
- Do not expose a battery pack or machine to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion. The temperature of 130°C can be replaced by the temperature of 265°F.
- Follow all charging instructions and do not charge the battery pack or machine outside of the temperature range specific in the instructions. Charging improperly or at temperatures outside of the specific range may damage the battery and increase the risk of fire.
- Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- Do not modify or attempt to repair the machine or the battery pack (as applicable) except as indicated in the instructions for use and care.
- Check damaged parts. Before further use of this cultivator, 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 condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this manual.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this cultivator. If you loan someone this unit, loan them these instructions also.
- For use only with Greenworks batteries.
- For use only with Greenworks charger.
- Do not dispose of batteries in fire, the cells may explode, check with local codes for possible special disposal instructions.
- Do not open, damage or otherwise tamper with the battery. Released electrolyte is corrosive and may cause damage to the eyes or skin, it may be toxic if swallowed.
- Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets and keys. The battery or conductor may overheat and cause burns.









### The recommended ambient temperature range:

Item	Temperature
Cultivator storage temperature range	32°F (0°C) - 113°F (45°C)

Item	Temperature
Cultivator operation temperature range	32°F (0°C) - 113°F (45°C)
Battery charging temperature range	39°F (4°C) - 104°F (40°C)
Charger operation temperature range	39°F (4°C) - 104°F (40°C)
Battery storage temperature range	32°F (0°C) - 113°F (45°C)
Battery discharging temperature range	32°F (0°C) - 113°F (45°C)




## 2.3 SYMBOLS ON THE PRODUCT

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




Symbol	Explanation
V	Voltage
A	Current
Hz	Frequency (cycles per second)
	Do not expose the product to rain or moist conditions.
	Type or a characteristic of current
	Keep feet and hands away from rotating tines.
	Thrown objects can ricochet and result in personal injury or property damage. Wear protective clothing and boots.
	Precautions that involve your safety.
	Read and understand all instructions before operating the product, and follow all warnings and safety instructions.
	Wear eye and ear protection.
	Keep all bystanders at least 15m away.

## 2.4 RISK LEVELS

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

SYM-BOL	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.

## 2.5 RECYCLE

	Separate collection. You must not discard with usual household waste. If it is necessary to replace the machine, or if it is no more use to you, do not discard it with household waste.
	Separate collection of used machine and packaging let you recycle materials and use them again. Use of the recycled materials helps prevent environmental pollution and decreases the requirements for raw materials.
	At the end of their useful life, discard batteries with a precaution for our environment. The battery contains material that is dangerous to you and the environment. You must remove and discard these materials separately at a location that accepts lithium-ion batteries.

## 2.6 SAVE THESE INSTRUCTIONS

## 3 INSTALLATION

### ▲ WARNING

Do not change or use accessories that are not recommended by the manufacturer.

### ▲ WARNING

Do not install battery pack until you assemble all the parts.

### 3.1 UNPACK THE MACHINE

#### ▲ WARNING

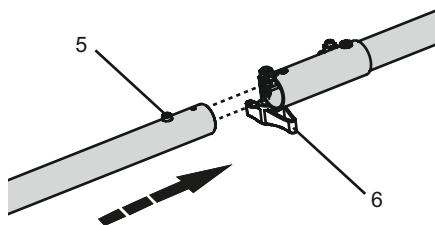
Make sure that you correctly assemble the machine before use.

#### ▲ WARNING

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

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

### 3.2 INSTALL THE ATTACHMENT



1. Remove the rubber protector.
2. Loosen the knob (6) on the coupler.
3. Push in the release button (5) located on the lower shaft. Align the release button with the positioning hole and slide the two shafts together. Rotate the lower shaft until the button locks into the positioning hole.
4. Tighten the knob (6) securely.

#### i NOTE

If the button does not release completely in the positioning hole, the shafts are not locked into place. Slightly rotate from side to side until the button is locked into place.

## 4 APPLICATIONS

- Breaking up garden soil to prepare seed bed for planting.
- Shallow cultivating to remove weeds.

### 4.1 OPERATION TIPS

The cultivator can be used to break up garden soil and prepare a seedbed for planting. Plan ahead to leave enough room between the seed rows to allow for machine cultivating after the plants have grown.

1. Several passes over the same path may be required to reach the desired depth. Do not try to dig too deeply in the first pass.
2. If the machine jumps or bucks, allow the unit to move forward at a slightly faster rate or install wheel assembly.
3. If the cultivator stays and digs in at one spot, try rocking it from side to side in order to start it moving forward again.
4. If the soil is very hard, water a few days before cultivating. Avoid working the soil when soggy or wet. Wait a day or two after heavy rain for the ground to dry.
5. Shallow cultivating less than 5cm. deep can be used to disrupt weeds and aerate soil, without injuring nearby plant roots. It should be done often so that weeds do not grow large and cause tangling in the tines of the unit.

## 5 MAINTENANCE

#### ▲ CAUTION

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

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

#### ▲ WARNING

Remove the battery pack from the machine before maintenance.

### 5.1 CLEAN THE MACHINE

#### ▲ WARNING

Keep the machine and the motor free of leaves, branches or excessive oil to prevent fire risks.

- Use a moist cloth with a mild detergent to clean the machine.
- Clean all moisture with a soft dry cloth.
- Use a small brush to clean the air vents.

## 6 STORE THE MACHINE

- Clean the machine before storage.
- Make sure that the motor is not hot when you store the machine.

- Make sure that the machine does not have loose or damaged parts. If it is necessary, do these steps/instructions:
  - Replace the damaged parts.
  - Tighten the bolts.
  - Speak to a person of an approved service center.
- Store the machine in a dry area.
- Make sure that children cannot come near the machine.

considered as warranty. The original manufacturer warranty is not affected by any additional warranty offered by a dealer or retailer.

A faulty product must be returned to the point of purchase in order to claim for warranty, together with the proof of purchase (receipt).

## 7 TROUBLESHOOTING

Problem	Possible cause	Solution
The motor shuts down whilst working.	The battery pack is not installed tightly.	Make sure that you tightly installed the battery pack in the machine.
	The battery pack is out of power.	Charge the battery pack.
	The machine has damage.	Do not use the machine and speak to service center.
The machine smokes during operation.	The machine has damage.	<ol style="list-style-type: none"> <li>1. Immediately stop the machine.</li> <li>2. Remove the battery.</li> <li>3. Speak to service center.</li> </ol>
Motor runs but tines do not move.	The machine has damage.	Do not use the machine and speak to service center.
	The tines are blocked.	Remove battery then clear blockage from the tines.
	Gear train failure.	Speak to service center.

## 8 TECHNICAL DATA

Blade diameter	220 mm
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## 9 WARRANTY

(The full warranty terms and conditions can be found on Greenworks website )

The Greenworks warranty is 4 years on the product, and 2 years on batteries and chargers (consumer/private usage) from the date of purchase. This warranty covers manufacturing faults. A faulty product under warranty might be either repaired or replaced. A unit that has been misused or used in other ways then described in the owner's manual might be rejected for warranty. Normal wear, and wear parts are not