
The Greenworks logo is a black hexagon with the word "greenworks" in white lowercase letters. The "g" is stylized with a small leaf-like shape on its left side.

greenworks™

20" Cordless Lawn Mower 25222



Owner's Manual

TOLL-FREE HELPLINE: 1-888-90WORKS (888.909.6757)

 **Read all safety rules and instructions carefully before operating this tool.**

CONTENTS

Contents	2
Product specifications.....	2
Safety information.....	3-8
Symbols.....	9-10
Battery & Charger.....	11-12
Know your lawn mower	13
Assembly	14-18
Operation.....	19-23
Maintenance	24-25
Storage	26
Environmentally safe battery disposal	27
Service	28
Troubleshooting	29
Warranty	30
Exploded View	31-32
Parts List.....	33-35
Notes	36-37

PRODUCT SPECIFICATIONS

20" CORDLESS LAWN MOWER

Battery type	24V, 20 Ah sealed lead acid
Charger time.....	15-hour
No-load speed	3500 RPM
Cutting path.....	20" (50.8 cm)
Height adjustments.....	1 1/2 – 3 3/4" (3.8–9.5 cm)
Functions.....	3-in-1: Mulch, side discharge or rear bag
Wheels size	7" (front) / 10" (rear)
Unit weight.....	87 lbs (39.5 kg)



SAFETY INFORMATION

IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT

READ AND UNDERSTAND ALL INSTRUCTIONS. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

- 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.
- 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 handle plug or tool with wet hands.
- Never allow children to operate the equipment. This is not a toy. Never allow adults to operate the equipment without proper instruction.
- Keep all bystanders, children, and pets at least 50 ft. away.
- Always wear safety glasses with side shields. Everyday glasses have only impact resistant lenses. They are NOT safety glasses. Following this rule will reduce the risk of eye injury. Use face mask if operation is dusty.
- Wear eye protection which is marked to comply with ANSI Z87.1 when operating this product.
- Use extra care when cleaning on stairs.
- Do not leave appliance plugged in. Unplug from outlet when not in use and before servicing.
- Do not expose to rain; store indoors.
- Use only as described in this manual. Use only identical manufacturer's replacement parts and accessories. Use of any other parts may create a hazard or cause product damage.
- Secure long hair so it is above shoulder level to prevent entanglement in any moving parts.
- Wear heavy long pants, boots, and gloves. Avoid loose garments or jewelry that could get caught in moving parts of the machine or its motor.
- Keep firm footing and balance. Do not overreach. Overreaching can result in loss of balance.
- Do not operate the equipment 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 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.
- Turn off all controls before replacing the battery.
- Avoid accidental starting. Be sure the power switch is not on before replacing the battery. Turn off power switch before replacing the battery.
- Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

SAFETY INFORMATION

- Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
- Removing the battery when not in use, before servicing, and before storing the tool. Such preventative safety measures reduce the risk of starting the tool accidentally.
- Do not operate this unit when you are tired, ill, or under the influence of alcohol, drugs, or medication.
- Do not operate in poor lighting.
- Keep all parts of your body away from any moving parts and all hot surfaces of the unit.
- Do not put any object into openings. Do not use with any opening blocked; keep openings free of dust, lint, hair, and anything that may reduce air flow.
- Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in the machine.
- Do not pull or carry by cord, use cord as a handle, close a door on a cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.
- Do not handle plug or appliance with wet hands.
- Not intended for commercial use.

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

SPECIFIC SAFETY RULES FOR MOWER

WARNING

This symbol points out important safety instructions, which if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury.

DANGER

This machine was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

SAFETY INFORMATION

GENERAL OPERATION

Use of this mower should be restricted to individuals who have read and understood and will follow the warnings and instructions that are printed in this manual and on the mower.

- Carefully read all instructions on the mower and in the manual before attempting to assemble and operate the mower. Keep this manual in a safe place for future reference, and consult it regularly.
- Become familiar with all controls and their proper operation. Know how to stop the mower and how to disengage the power in an emergency.
- In order to avoid contact with the blade or injury caused by a thrown object, stay in the operating zone behind the handles, and keep children and bystanders at least 50 ft.(15 m) away from the mower while it is in operation. Stop the motor immediately if someone enters the mowing area.
- Thoroughly inspect the area where the mower is to be used. Remove all stones, sticks, wire, toys, and other objects that could be tripped over or thrown by the blade. Thrown objects can cause serious personal injury.
- Plan your mowing pattern in such a way as to avoid discharging material toward roads, sidewalks, bystanders, etc. Do not discharge material against a wall or obstruction. Doing so may cause the discharged material to ricochet back toward the operator.
- Always wear proper eye protection in order to protect your eyes while operating or performing any adjustment or repair. Thrown objects that ricochet can cause serious eye injury.
- Always wear a face mask or a dust mask when operating the mower in a dusty environment.
- Dress properly. Do not wear loose clothing or jewelry that can get caught in moving parts. The wearing of protective gloves and safety footwear is recommended.
- Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the lawn mower. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.
- Many injuries occur as a result of the mower being pulled over the operator's foot during a fall caused by slipping or tripping. Do not operate this mower in bare feet, or while wearing sandals or lightweight (e.g.:canvas) shoes. Do not hold onto the mower if you are falling. Release the handle immediately.
- Never pull the mower back toward you while you are walking. If you must back the mower away from a wall or an obstruction, first look down and behind in order to avoid tripping, and then follow these steps:
 - Step back from the mower in order to fully extend your arms.
 - Be sure that you are well balanced.
 - Pull the mower back slowly.
- Do not use the mower for any job except that for which it is intended. Do not force the mower.
- Do not put hands or feet near rotating parts or under the cutting deck. Contact with the blade can amputate hands and feet.
- Do not attempt to adjust the wheels or the cutting height while the motor is running.
- Avoid dangerous environments. Do not operate the mower in the rain or in wet or damp grass.

SAFETY INFORMATION

- Mow only in daylight or in good artificial light. Do not rush a mowing job.
- Stop the blade when crossing gravel driveways, walkways, or roads.
- If the mower starts to vibrate excessively, stop the motor and check for the cause immediately. Vibration is generally a warning of trouble.
- Stop the motor and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade will continue to rotate for a few seconds after the motor is shut off. Do not place any part of your body in the blade area until you are sure that the blade has stopped rotating.
- Never operate mower without a proper trail shield, discharge cover, grass catcher, blade/motor control, or other safety device in place and in working order. Do not operate the mower with damaged safety devices. Doing so can result in injury.
- Stay behind the handle when the engine (motor) is running.
- Stop machine if anyone enters the area.
- Do not pull machine backward unless absolutely necessary. Always look down and behind before and while moving backward.
- Never leave a running machine unattended.
- Operate machine only in daylight or good artificial light.

WARNING (PROPOSITION 65)

Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the state of California 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, and
- Arsenic and chromium from chemically-treated lumber.

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

CHILD SAFETY

Tragic accidents can occur if the operator is not aware of the presence of children.

- Keep children out of the mowing area and under the watchful care of a responsible adult.
- Do not allow children under the age of 14 to operate this mower. Children who are 14 years of age and older must read and understand the operating instructions and safety rules in this manual and must be trained and supervised by a parent.
- Stay alert, and turn the mower off if a child or any other person enters the mowing area.
- Look behind and down for small children before and while moving backwards.
- Use extreme care when approaching blind corners, doorways, shrubs, trees, or other objects that may obscure your view of a child who may run into the path of the mower.

SAFETY INFORMATION

BATTERY & CHARGER

CAUTION :

USE ONLY GREENWORKS APPROVED REPLACEMENT BATTERIES. OTHER BATTERIES MAY CAUSE INJURY OR DAMAGE TO THE MOWER.

The battery that is supplied with this mower is a maintenance-free, sealed, 24 V storage battery. It can be tipped without danger of acid spillage. The charger will require approximately 15 hours to recharge a fully discharged battery.

BATTERY SAFETY RULES

- Fully charge battery before initial use.
- For optimal performance, charge the battery every two weeks, even when not in use.
- Charge the battery in a cool, dry place.
- The battery does not have to be fully discharged before recharging. This battery will not develop a memory.
- Two to 3 initial charging/discharging cycles may be required in order to reach the maximum run time/capacity.
- When it is fully charged, the battery can be stored in temperatures as low as 23°F (–5°C) for a period of up to two weeks before it requires recharging.

SAFETY INFORMATION

PROPER CARE FOR BATTERY

Off-Season storage

In order to ensure optimal performance, it is recommended that the battery be charged every two weeks when not in use.

If all of the following conditions are met, the mower can be stored with the charger disconnected .

1. The mower is fully charged before storing.
2. The average temperature of the storage location is below 50°F (10°C).
3. The battery will not be stored for more than 6 months.

CHARGER SAFETY RULES

- Charge the mower battery in a dry area that is protected from the weather. Do not expose the mower or the charger to rain. Do not charge the battery in a wet location. Operate the battery charger in temperatures between 23° and 104°F (–5° and 40°C). In order to reduce the risk of electric shock, use only the charger that is provided by the manufacturer to charge the battery.
- DO NOT ABUSE THE CHARGE CORD. Never carry the charger by the cord. Do not disconnect the charger from the outlet or from the mower by pulling the charger cord.
- Do not service the mower with the charger connected.
- Do not use a damaged charger. Replace the charger cords or the charger immediately.
- Keep the mower and the charger away from water, heat sources (radiators, heaters, stoves, etc.), flames, and chemicals.



WARNING

When transporting or servicing unit, always remove battery.

SAVE THESE INSTRUCTIONS

SYMBOLS

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	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watts	Power
min	Minutes	Time
~	Alternating Current	Type of current
≡	Direct Current	Type or a characteristic of current
n_0	No Load Speed	Rational speed, at no load
	Class II Construction	Double-insulated construction
/min	Per Minute	Revolutions, strokes, surface speed, orbits etc., per minute
	Wet Conditions Alert	Do not expose to rain or use in damp locations
	Read The Operator's Manual	To reduce the risk of injury user must read and understand operator's manual before using this product.
	Eye and Head Protection	Wear eye and head protection when operating this equipment.
	Ricochet	Thrown objects can ricochet and result in personal injury or property damage.
	Sharp Blade	Danger – Keep hands and feet away from blade.
	Operating on a slope	Do not mow a slope that has an angle of greater than 15°.
	Keep Bystanders Away	Keep all bystanders at least 50 ft. away.

SYMBOLS

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.

SERVICE

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the product to your nearest **AUTHORIZED SERVICE CENTER** for repair. When servicing, use only identical replacement parts.

WARNING

To avoid serious personal injury, do not attempt to use this product until you have read this Owner's Manual thoroughly and understand it completely. If you do not understand the warnings and instructions in this Owner's Manual, do not use this product. Call the Toll-free Helpline (1-888-909-6757) for assistance.

WARNING



The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and, when needed, a full face shield. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.

SAVE THESE INSTRUCTIONS

BATTERY & CHARGER

CHARGING PROCEDURE

Note: The battery can be charged in or out of the mower.

The charger that is supplied with this mower is a specially designed 2-stage charger.

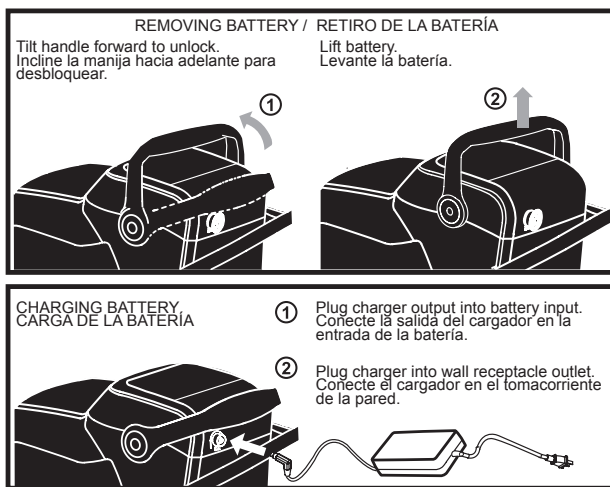
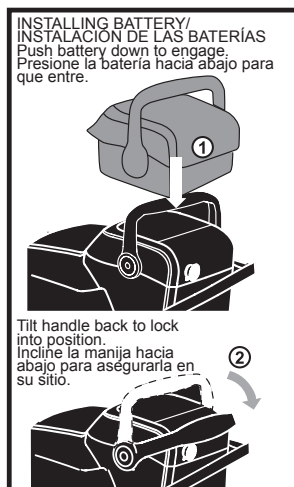
Step 1: The red light will light up during the recharge cycle.

Step 2: The green light will light up when the battery is fully charged.

1. Remove the jack cover.
2. Plug the charger connector into the jack on the battery.
3. Insert the 120 V plug from the charger into the electrical outlet.
4. The red light on the charger should come on, which indicates that the charger is working and the battery is being charged.
The red light will go out and the green light will come on when the battery is completely charged (it takes approximately 15 hours to charge a fully discharged battery).
5. Battery should be charged after each use regardless of power level. Battery should always be stored in a fully charged state. This battery will not develop a charging memory.

⚠ WARNING

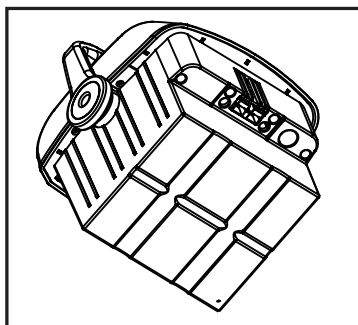
Do not store battery in temperatures lower than 32° F (0° C).



BATTERY & CHARGER

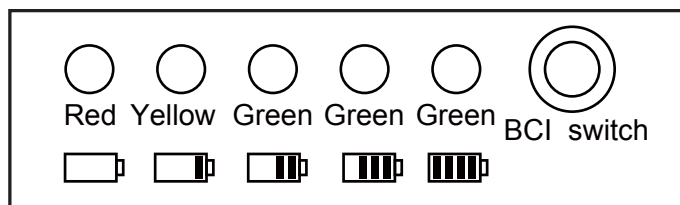
BATTERY USE

NOTE: If the switch does not re-engage or the mower does not run when the battery is installed, contact the toll free helpline 1-888-909-6757.



BATTERY CAPACITY INDICATORS

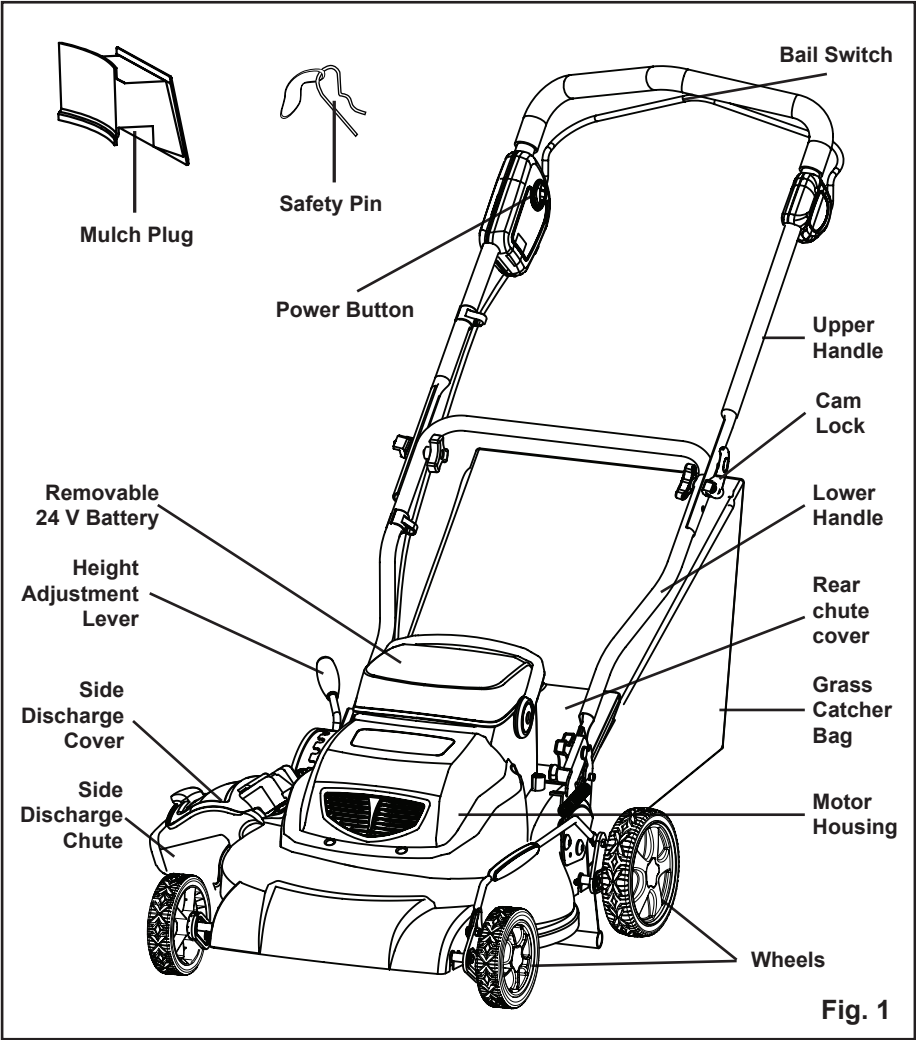
Push the Battery Capacity Indicator (BCI) switch, which is located on the back of the battery. The lights will indicate the battery's capacity, according the following chart.



Lights	CAPACITY
3 Green Lights	The battery is at full capacity
2 Green Lights	The battery is at 60% capacity
1 Green Light	The battery is at 45% capacity
Yellow Light	The battery is at 25% capacity and requires charging soon
Red Light	The battery is at 20% capacity and requires charging

KNOW YOUR LAWN MOWER

Read this operator's manual and safety rules before operating your lawn mower. Compare the illustration in Figure 1 to your lawn mower in order to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.



ASSEMBLY INSTRUCTIONS

UNPACKING

This product has been shipped completely assembled.

- Carefully remove the product and any accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect the product carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.
- If any parts are damaged or missing, please call 1-888-909-6757 for assistance.

PACKING LIST

- Lawn mower
- Mulch plug
- Side discharge chute
- Grass catcher bag
- 24V Battery (Pre-installed at the factory)
- Charger
- Owner's Manual

WARNING

If any parts are damaged or missing, do not operate this product until the parts are replaced. Failure to heed this warning could result in serious personal injury.

WARNING

Do not remove the safety pin until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

WARNING

Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse, and could result in a hazardous condition leading to possible serious personal injury.

ASSEMBLY INSTRUCTIONS

⚠ WARNING

Do not allow familiarity with this product to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

⚠ WARNING

Always wear safety goggles or safety glasses with side shields when operating power tools. Failure to do so could result in objects being thrown into your eyes, resulting in possible serious injury.

⚠ WARNING

Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

ASSEMBLING THE HANDLE (See Figure 2-3)

- Remove any packing material which may be between the upper and lower handles for shipping purposes.
- Pull up and back on the upper handle to raise the handle into the operating position. Make certain the lower handle is seated securely into the handle mounting bracket (see Fig. 2).
- Align the holes (3) between the upper handle (1) and lower (2) handles. Insert the cam locks (4) and tighten them with the wing nuts (5) provided.
- Secure the lower handle to the bracket with the knob (6) in each side (see Fig. 3).

Fig. 2

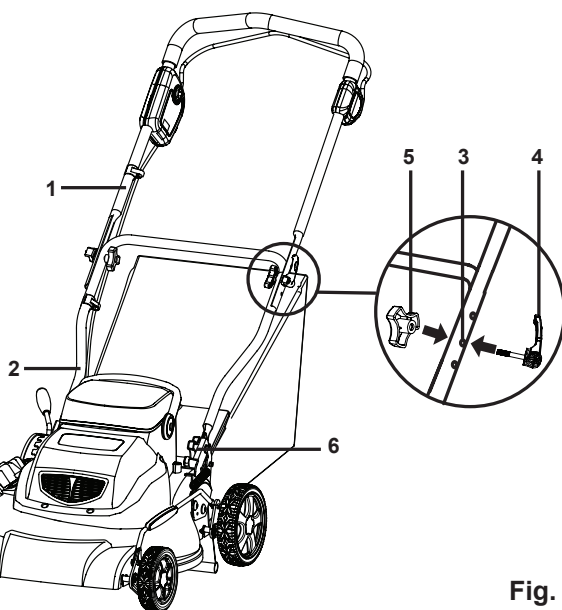
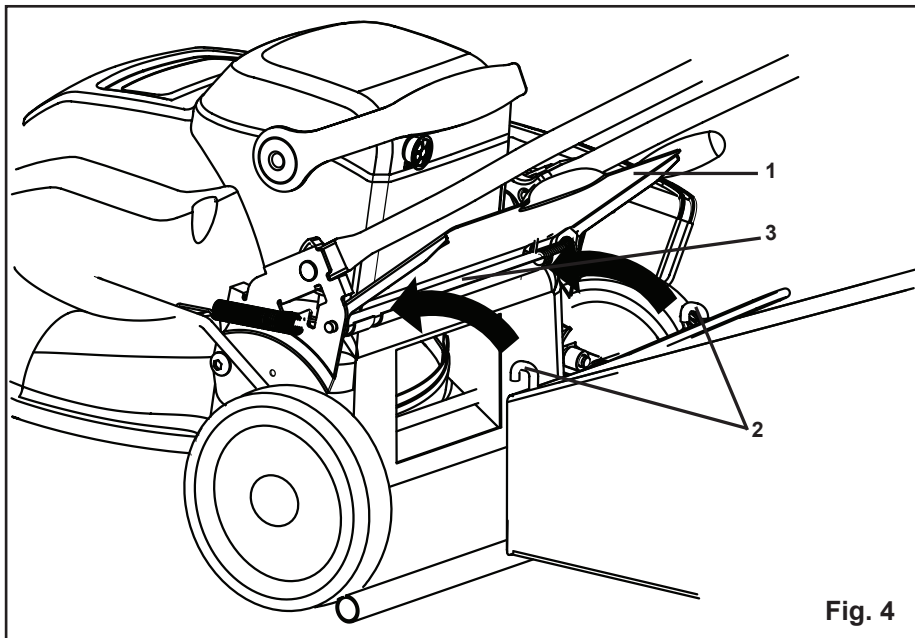


Fig. 3

ASSEMBLY INSTRUCTIONS

INSTALLING THE GRASS CATCHER BAG (See Figure 4)

- REMOVE THE BATTERY, AND WAIT FOR BLADE TO COME TO A COMPLETE STOP.
- Lift the chute cover (1).
- While holding up the cover (1), place the grass catcher bag hanger hooks (2) into the opening on the chute cover (1) to allow the hanger hooks to attach to the rod (3) which secures the chute cover.



NOTE: For optimal performance empty grass catcher bag often during use. A full grass bag will inhibit performance of the mower and collection of grass clippings.

ASSEMBLY INSTRUCTIONS

INSTALL THE SIDE DISCHARGE CHUTE (See Figure 5)

This mower has 3 different functions - mulch, side discharge, and rear bag. If you wish to discharge the clippings rather than mulch, perform these steps.

- REMOVE THE BATTERY, AND WAIT FOR BLADE TO COME TO A COMPLETE STOP.
- Lift the side discharge cover (1).
- Align the grooves on the discharge chute (2) with the pins on the underside of the discharge cover (1).
- Lower the discharge chute (2) until the hooks on the mower deck are secured in the openings in the discharge chute (2).
- Release the side discharge cover (1).

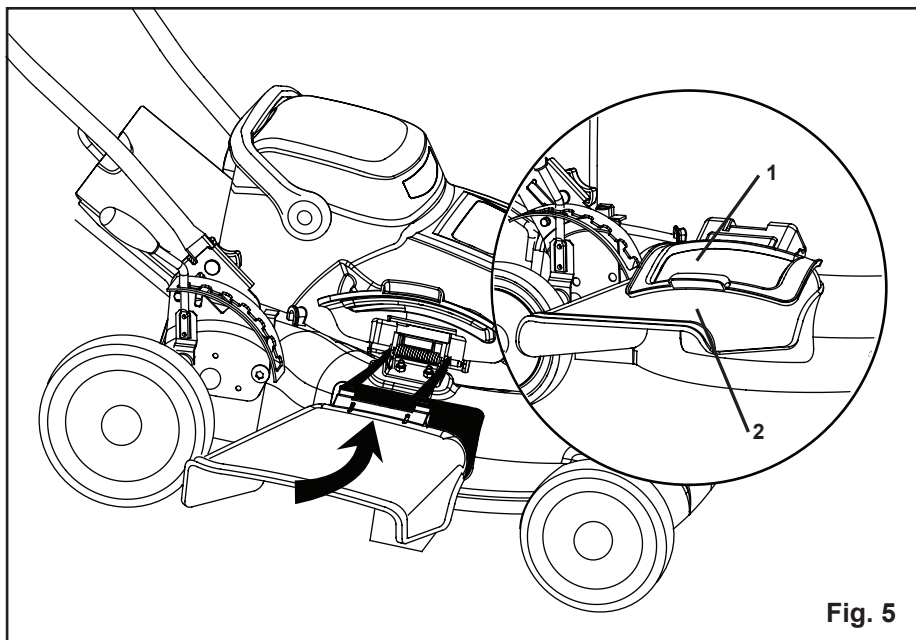


Fig. 5

ASSEMBLY INSTRUCTIONS

INSTALLATION OR REMOVAL OF THE MULCH PLUG (See Figure 6)

- REMOVE THE BATTERY, AND WAIT FOR BLADE TO COME TO A COMPLETE STOP.
- To remove the mulch plug lift the chute cover (1) and pull out on the handle.
- The mulch plug (2) is inserted on an angle so it will require some force when removing.

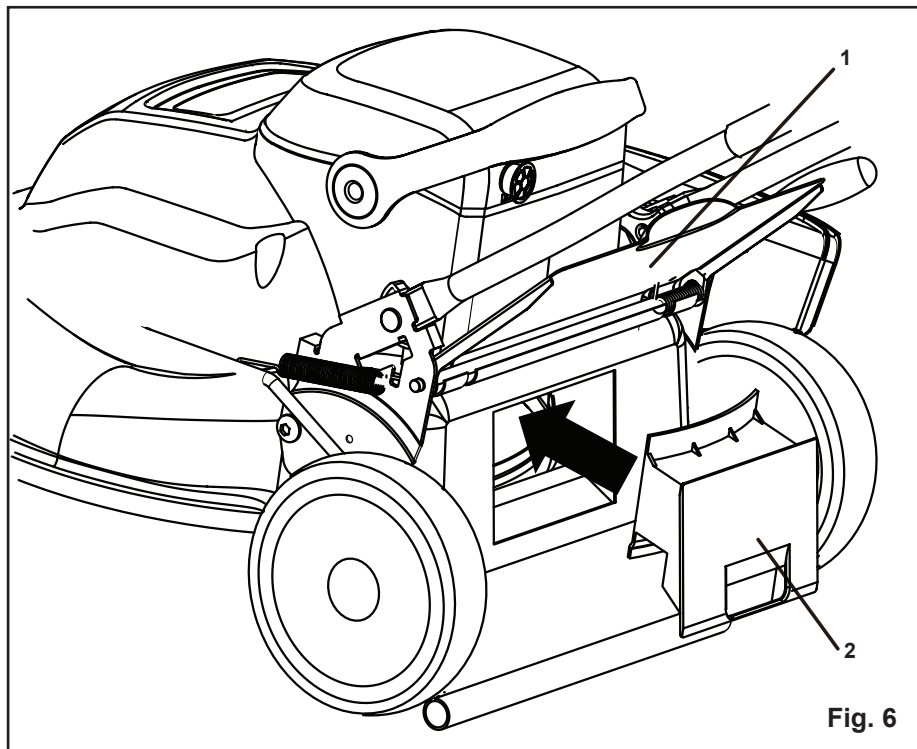


Fig. 6

OPERATING YOUR LAWN MOWER

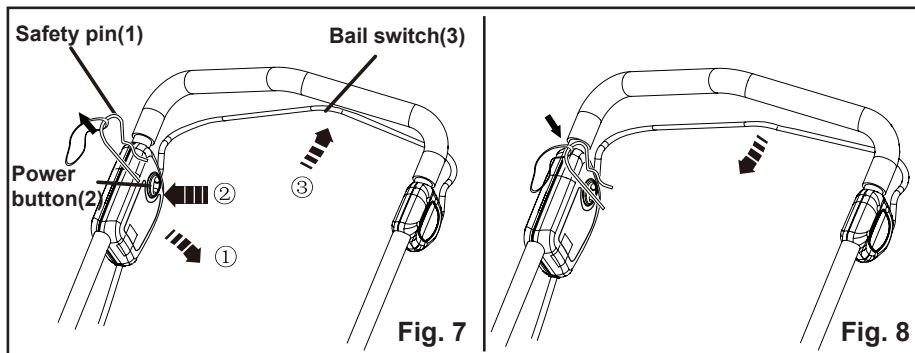
STARTING/STOPPING THE MOWER *(See Figure 7-8)*

STARTING THE MOWER:

- Remove the safety pin (1).
- Press the power button (2).
- Pull the bail switch (3) upward to the handlebar to start the mower and release the safety button.

STOPPING THE MOWER:

- Release bail switch.
- Replace safety pin for storage.



CAUTION :

Do not attempt to override the operation of the safety key or lever.

WARNING

The operation of any mower can result in foreign objects being thrown into the eyes, which can cause severe eye damage. Always wear safety glasses while operating the mower and while performing any adjustments or repairs.

WARNING

Ensure that other people and pets remain at least 50 ft. (15 m) away when the mower is in use.

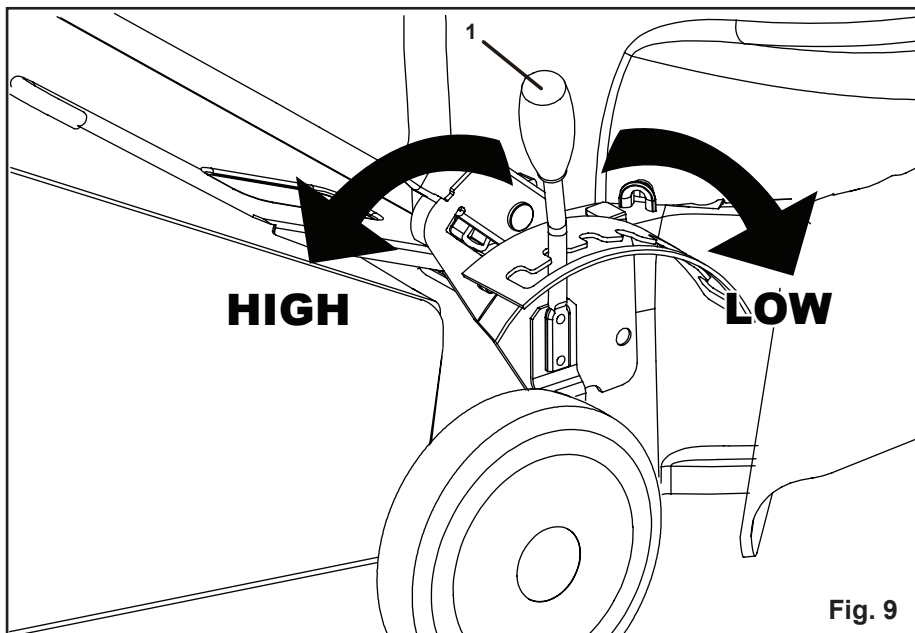
INSPECT THE CUTTING AREA

Remove all stones, sticks, wire, and other debris that might be thrown by the rotating blades.

OPERATING YOUR LAWN MOWER

ADJUST THE CUTTING HEIGHT *(See Figure 9)*

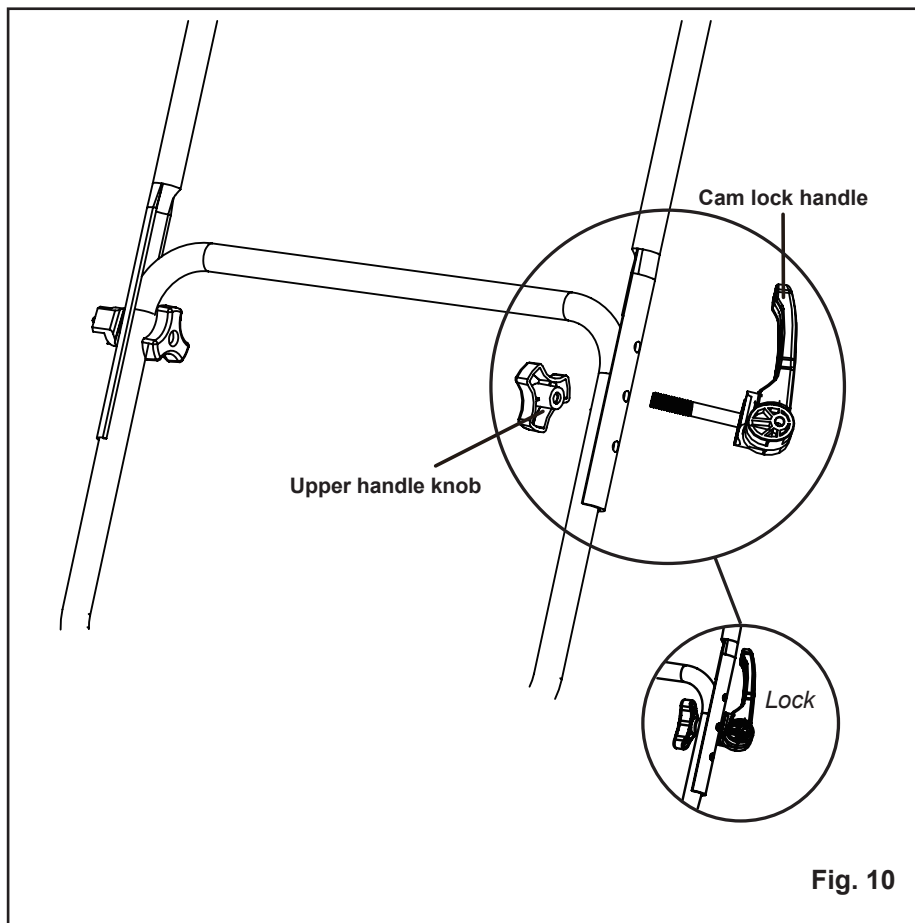
- Simply depress the lever (1) towards the wheel and move to desired position. This sets all wheels to the same position.
- To raise the height, pull the height adjustment lever from the current stop position towards the back of the mower.
- To lower the height, pull the height adjustment lever from the current stop position towards the front of the mower.



OPERATING YOUR LAWN MOWER

ADJUSTING THE UPPER HANDLE HEIGHT *(See Figure 10)*

- Loosen the upper handle knob.
- Adjust the upper handle to the most comfortable of the 3 positions.
- Snug the upper handle knob and lock the cam lock handle to secure.



OPERATING YOUR LAWN MOWER

SLOPE OPERATION

WARNING

Do not mow a slope that has an angle of greater than 15° (a rise of approximately 2-1/2 ft. [75 m] every 10 ft. [3 m]). Mow across the face of a slope, and never up and down.

- Slopes are a major factor related to slip and fall accidents that can result in severe injury. Operation on slopes requires extra caution. If you feel uneasy on a slope, do not mow it. For your safety, do not attempt to mow slopes greater than 15 degrees.
- Mow across the face of slopes, not up and down. Exercise extreme caution when changing direction on slopes.
- Watch for holes, ruts, rocks, hidden objects, or bumps which can cause you to slip or trip. Tall grass can hide obstacles. Remove all objects such as rocks, tree limbs, etc., which could be tripped over or thrown by the blade.
- Always be sure of your footing. A slip and fall can cause serious personal injury. If you feel you are losing your balance, release the switch control lever immediately.
- Do not mow near drop-offs, ditches, or embankments; you could lose your footing or balance.

OPERATING YOUR LAWN MOWER

MOWING TIPS

NOTE: A sharp blade will greatly enhance the performance of the mower, especially when cutting high grass. Be sure to check the blade and to sharpen it at least once per year, as described in the Maintenance section.

- Verify that the lawn is free of stones, sticks, wires, and other objects that could damage the blades or the motor. These objects could be accidentally thrown by the mower in any direction, and could cause serious personal injury to the operator and to others.
- In order to prevent electric shock, do not operate the mower in damp or wet conditions.
- Do not mow in circles. Travel back and forth across the lawn.
- When cutting thick grass, reduce walking speed in order to allow for a more effective cut and a proper discharge of the clippings. For a healthy lawn, always cut off one-third or less of the total length of the grass. The average lawn should be approximately 1-1/2 to 2" (3.8 to 5 cm) long during cool months, and more than 2" (5 cm) long during hot months. If there is growth, the lawn should be cut in the fall.

MULCHING TIPS

NOTE: ALWAYS INSPECT AREA WHERE MOWER IS TO BE USED AND REMOVE ALL STONES, STICKS, WIRE, BONES AND OTHER DEBRIS WHICH MIGHT BE THROWN THE ROTATING BLADE.

- Release switch to turn mower OFF when crossing any graveled area (stones can be thrown by the blade).
- Set mower at highest cutting height when mowing on rough ground or in tall weeds.
- For effective mulching, do not cut wet grass, as it tends to stick to the underside of the deck preventing proper mulching of grass clippings. New or thick grass may require a narrower cut. The ground speed should be adjusted to the condition of the lawn. If mowing has been delayed and the grass has been allowed to grow in excess of 4", mow twice to reduce the grass height to 3-3/4" maximum.
- Walk at a good, steady pace. Overlap your rows. Don't let the grass get too tall. If the grass gets too long start at the highest cutting position and work down to the desired cutting height.

WARNING

If you strike a foreign object, stop the motor and disconnect the power cord. Thoroughly inspect the mower for any damage. Repair any damage before operating the mower. Excessive vibration of the mower during operation is an indication of damage. Thoroughly inspect the mower and repair any damage before operating the mower.

MAINTENANCE

CUTTING BLADE REPLACEMENT (See Figure 11-12)

⚠ WARNING

Always protect your hands by wearing heavy gloves and/or wrapping the cutting edges with rags or other materials when performing any maintenance on the blades.

- RELEASE THE BAIL SWITCH TO TURN THE MOWER OFF, WAIT FOR THE BLADE TO COME TO A COMPLETE STOP, AND THEN UNPLUG THE POWER CORD.
- While wearing leather padded gloves, wedge a block of wood between the blade and the mower deck in order to prevent the blade from turning when the nut is being removed.
- Using a 15-mm wrench or socket, loosen the blade nut (1) and remove the blade (4). Turn the nut "COUNTERCLOCKWISE" to loosen it and "CLOCKWISE" to tighten it.
- Remove the blade nut (1), the square washer (2), the insulator washer (3), and the blade (4).
- To re-install the blade, position the blade with the cutting edges toward the ground. Assemble the blade nut, the square washer, and the insulator washer as shown in following. Using a 15-mm wrench or socket, turn the blade nut "CLOCKWISE" to secure the blade.

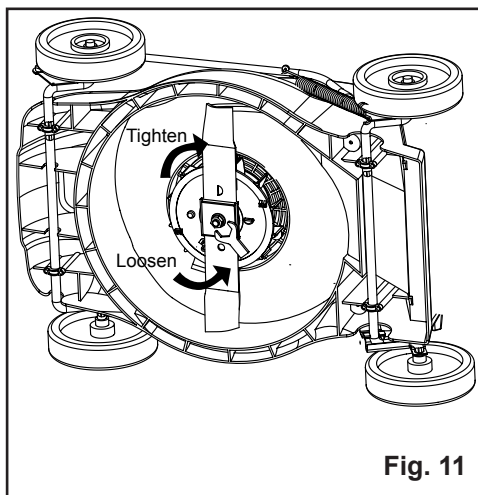


Fig. 11

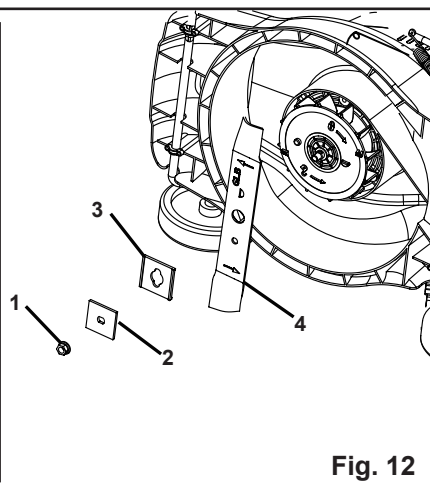


Fig. 12

NOTE: Be sure to replace the parts in the exact order in which they were removed. When installing the cutting blade, verify that it is installed with the curved ends pointing toward the mower deck, and not toward the ground. Refer to the schematic drawing on page 31 of this Manual.

MAINTENANCE

CLEAN THE MOWER

WARNING

To reduce the risk of electric shock, do not expose the mower to water.

The underside of mower deck should be cleaned after each use as grass clippings, leaves, dirt and other debris will accumulate causing rust and corrosion.

- Remove any buildup of grass and leaves on or around the motor cover (do not use water). Wipe the mower clean with a dry cloth occasionally.
- If debris build up on the underside of the unit while in use, stop the motor and disconnect it from the power supply. Tilt the mower forward, or on its side, and scrape it clean with an appropriate tool.

STORAGE

The following steps should be taken to prepare the lawn mower for storage.

- Follow Charging procedure carefully, ensure battery is fully charged before storing and charge every two weeks even when not in use.
- Clean mower as instructed in previous section.
- Inspect and replace/sharpen blade, if required. Refer to the Maintenance section.
- Store mower in a dry, clean area. Do not store next to corrosive materials, such as fertilizer and rock salt.
- Store mower indoors, in a cool, dry place, out of the reach of children. Do not cover lawn mower with a solid plastic sheet. Plastic coverings trap moisture around the mower causing corrosion.

The handle may be folded away completely for storage. (See Figure 13)

- Lift up the cam locks (1) on the sides of the handle to unlock, and fold the upper handle (2) down.
- Loosen the handle knobs (3), pull outwards on each side of the lower handle (4), and lift the sides of the lower handle past the edges of the handle mounting brackets (5). Fold the lower handle forward. Make sure not to bend or kink the power cord.

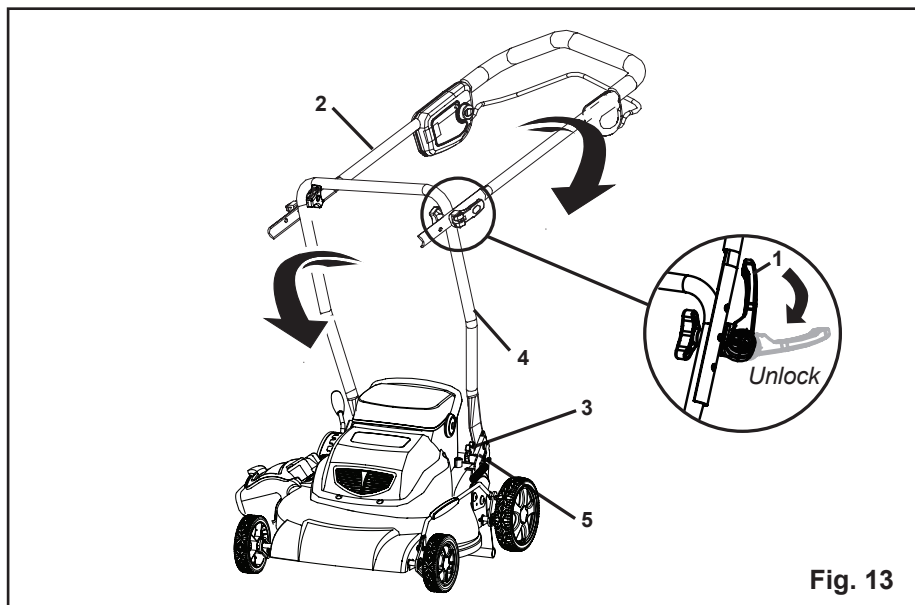
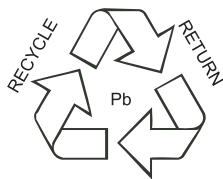


Fig. 13

ENVIRONMENTALLY SAFE BATTERY DISPOSAL



The following toxic and corrosive materials are in the batteries used in this battery pack: a toxic material.

⚠ WARNING

All toxic materials must be disposed of in a specified manner to prevent contamination of the environment. Dispose of batteries according to local by-laws because this Lead-acid batteries contain lead and sulphuric acid that are hazardous materials.

⚠ WARNING

If the battery pack cracks or breaks, with or without leaks, do not recharge it and do not use. Dispose of it and replace with a new battery pack. **DO NOT ATTEMPT TO REPAIR IT!** To avoid injury and risk of fire, explosion, or electric shock, and to avoid damage to the environment:

- Cover the battery's terminals with heavy-duty adhesive tape.
 - **DO NOT** attempt to remove or destroy any of the battery pack components.
 - **DO NOT** attempt to open the battery pack.
 - If a leak develops, the released electrolytes are corrosive and toxic. **DO NOT** get the solution in the eyes or on skin, and do not swallow it.
 - **DO NOT** place these batteries in your regular household trash.
 - **DO NOT** incinerate.
 - **DO NOT** place them where they will become part of any waste landfill or municipal solid waste stream.
 - Take them to a certified recycling or disposal center.
-

SERVICE

- When servicing the mower, use only replacement parts that are available from the manufacturer. In order to obtain replacement parts, call the toll-free helpline, at 1-888-909-6757. The use of parts that do not meet the original equipment specifications may lead to improper performance, and may compromise safety.
- Before cleaning, repairing, or inspecting, verify that the blade and all moving parts have come to a complete stop, and remove the safety pin. In order to prevent accidental start-ups, remove the safety pin when the mower is not in use. Remove the battery when making any adjustments or when any of the four wheels must be lifted off the ground.
- Keep the handles dry, clean, and free of oil and grease.
- In order to reduce the risk of fire, keep the motor free of grass, leaves, and debris build-up.
- Frequently check the blade and motor mounting bolts for proper tightness. Visually inspect blade for damage (e.g.: bent, cracked, or worn).
- For best and safest performance, maintain the mower with care. Keep the mower blade sharp and clean. Mower blades are sharp, and can cut. Wrap the blades or wear gloves, and use extra caution when servicing.
- Keep all nuts, bolts, and screws tight in order to be sure that the equipment is in safe working condition.
- Never tamper with safety devices. Check them regularly for proper operation.
- After striking a foreign object, stop the motor and remove the safety pin. Thoroughly inspect the mower for any damage. Repair any damage before operating the mower. Blades are sharp, and can cut. Wrap the blades or wear gloves, and use extra caution when servicing.
- Lawn mower components are subject to wear and damage, which could expose moving parts or allow objects to be thrown. As a safety precaution, frequently check components and replace those that show signs of wear or damage.
- When it is not in use, store the mower indoors in a dry area, with the safety pin removed, and out of the reach of children.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Handle not in position.	Carriage bolts not seated properly.	Adjust the height of the handle and make sure the carriage bolts are seated properly.
	Handle knobs not tightened.	Tighten handle knobs.
Mower not starting.	Battery is low in charge.	Charge the battery.
	Battery is either defective or will not take a charge.	Replace the battery.
	Battery fuse has blown.	Replace fuse.
Mower cutting grass unevenly.	Lawn is rough or uneven or cutting height not set properly.	Move the wheels to a higher position. All wheels must be placed in the same cutting height for the mower to cut evenly.
Mower not mulching properly.	Wet grass clippings sticking to the underside of the deck.	Wait until the grass dries before mowing.
Mower hard to push.	High grass, rear of mower housing and blade dragging in heavy grass, or cutting height too low.	Raise cutting height.
Mower vibrating at higher speed.	Blade is unbalanced.	Balance the blade by grinding each cutting edge equally.
	Bent motor shaft.	Stop the motor, disconnect the power source, and inspect for damage. Have repaired by an authorized service center before restarting.
Mower motor speed	Battery requires recharging.	Stop and recharge battery.
	Underside of mower is clogged or bag is full and requires emptying.	Empty grass bag or clean under carriage.
	Grass height is set too low.	Set height higher and pass over area twice if necessary to gain desired height.

LIMITED FOUR-YEAR 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.

Battery carries a one (1) year warranty against defects in workmanship and materials. Batteries must be charged in accordance with the operator's manuals directions and regulations in order to be valid.

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.

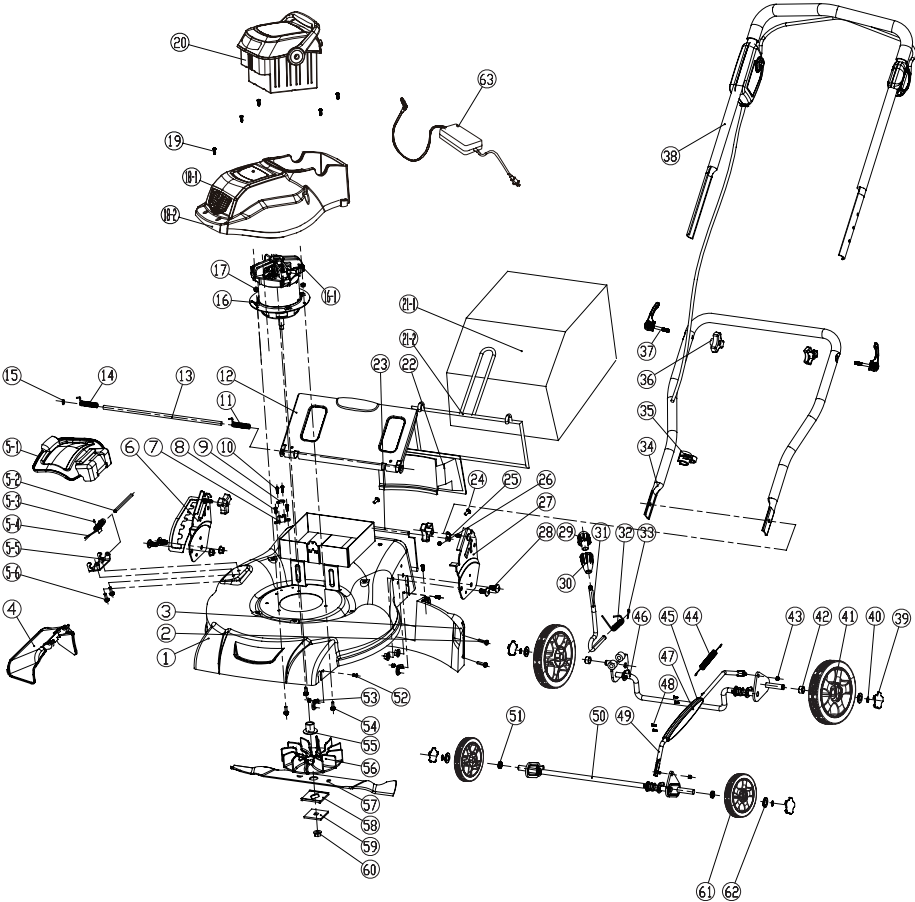
GREENWORKS HELPLINE (1 888 90WORKS):

Warranty service is available by calling our toll-free helpline, 9 a.m. to 5 p.m. EST. Monday – Friday at **1 888 909 6757 (1 888 90WORKS)**.

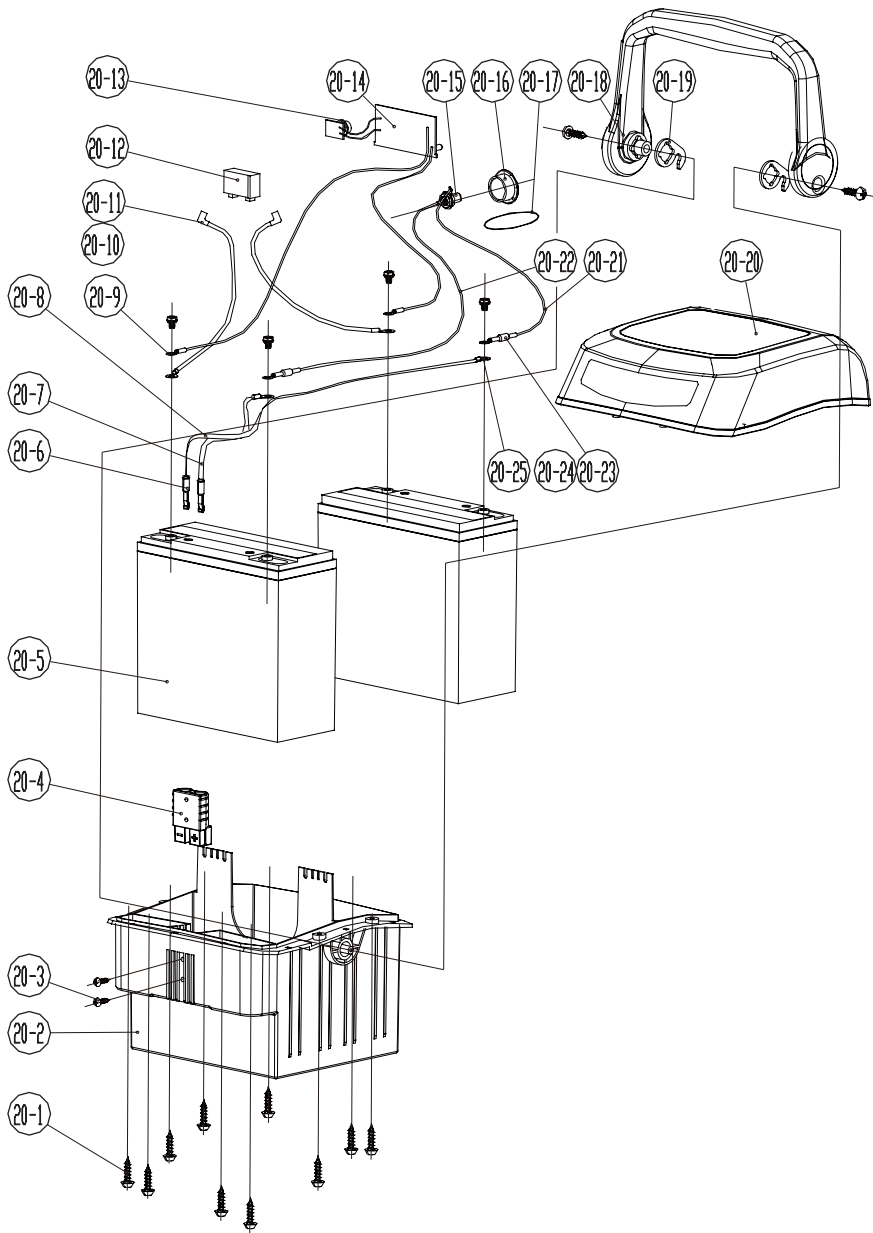
TRANSPORTATION CHARGES:

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.

EXPLODED VIEW



EXPLODED VIEW



PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	31301237-1	20" 24V deck	1
2	32201235	Screw	6
3	34106236	Rear enclosure	1
4	3410438-1	Side discharge chute	1
5	31107227-1	Side discharge assy.	1
5-1	3410338-2	Side discharge cover	1
5-2	3320338	Side discharge shaft	1
5-3	3420207	Rubber bushing	2
5-4	3340237	Torsion spring	1
5-5	3330637	Side discharge bracket	1
5-6	3220136	Bolt	2
6	33305222-2	Height adjustment board (R)	1
7	3413039	Cord guide	1
8	3221137	Screw	2
9	3410801	Cord clip	1
10	3220210	Screw	2
11	33304235	Torsion spring for rear cover (L)	1
12	34103236-2	Rear cover	1
13	3320138-1	Shaft for rear cover	1
14	33302235	Torsion spring for rear cover (R)	1
15	3290506	Cir-clip 8	1
16	3610139-1	Motor	1
16-1	3110739-3	Brush	2
17	3220537	Nut M6	3
18	31109229-2	Motor cover assy.	1
18-1	34101229-1	Motor housing	1
18-2	3420235	Cover seal	1
19	3220575	Screw	6
20	31103237-1	Battery assy.	1
20-1	3220345	Screw	12
20-2	34104229-1	Battery housing	1
20-3	32201229	Screw	2
20-4	36501229	Connector	1
20-5	3660239	2*12V 20Ah SLA battery	2
20-6	36502229	Connector terminal	2
20-7	3050245	Wire (blue)	1
20-8	3050145	Wire (yellow)	1
20-9	3290575	Connecting piece	4
20-10	3419650	Flag bushing 6.3	2
20-11	3330550	Flag terminal 6.3*0.8	2
20-12	36504229	60A fuse	1

PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY
20-13	3411445	BCI check button	1
20-14	36201237	Battery check indicators	1
20-15	3650139	Charging port	1
20-16	34104226-2	Charge port cap	1
20-17	3690292	Port cap line	2
20-18	34105229-1	Battery handle	1
20-19	33301229	Lock hook	2
20-20	34103229-1	Battery cover	1
20-21	3050102	Wire (red)	1
20-22	3050110	Wire (black)	1
20-23	3030175	Heat shrink tube Ø6	1
20-24	3650211	Diode	1
20-25	3650239	Connect piece for battery	4
21	31104227-2	Grass catcher bag assy.	1
21-1	34902237-2	Grass catcher bag	1
21-2	33301237-1	Bracket for grass catcher bag	1
22	34104236	Rear plug	1
23	34127229	Rear shield	1
24	3220511	Screw	2
25	33305227-1	New cord board	2
26	3221237	Nut M4	2
27	33302222-2	Height adjustment board (L)	1
28	3221637	Bolt	4
29	34113227-2	Height adjustment knob (Upper)	1
30	34114227-2	Height adjustment knob (Lower)	1
31	31103222	Height adjustment handle assy.	1
32	33401222	Torsion spring	1
33	3290135	Clip Ø2.5	1
34	3330394-1	Lower handle	1
35	3411135	Cord retainer	4
36	3410835-8	Handle knob	4
37	31101466-1	Cam lock assy.	2
38	31101237-1	Upper handle assy.	1
39	34202227-5	Wheel cover	4
40	3290440	Cir-clip	4
41	34202227-7	10 in. wheel assy. (L)	2
42	3320639	Washer for wheel	2
43	3220537	Nut M6	2
44	3340137-2	Pull spring	1
45	34112227-1	Decker bar (R)	1
46	31102222	Rear wheel axle	1

PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY
47	34111227-1	Decker bar (L)	1
48	32204227	Screw	4
49	33303227-2	Link bar	1
50	31101222	Front wheel axle	1
51	3320237	Washer for wheel	2
52	3220575	Screw	4
53	3220439	Nut M6	4
54	3220137	Screw	3
55	3320238	Motor bushing	1
56	3410237	Fan	1
57	33313250	Blade	1
58	3410535	Blade baffle	1
59	3331435	Square baffle	1
60	3221037	Nut M10	1
61	34203229-5	7 in. wheel assy.	2
62	3331638	Washer	4
63	3110392-5A	Charger assy.	1

[illegible]

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



TOLL-FREE HELPLINE: 1-888-90WORKS (888.909.6757)

Rev: 01 (12-15-09)

 Printed in China on 100% Recycled Paper